



## National Ophthalmology Database Audit

Year 6 Annual Report – The Fifth Prospective Report of the National Ophthalmology Database Audit

NHS or equivalent Funded Cataract Surgery for the 2020 NHS year: 01 April 2020 to 31 March 2021

2022

The Royal College of Ophthalmologists (RCOphth) is the professional body for eye doctors, who are medically qualified and have undergone or are undergoing specialist training in the treatment and management of eye disease, including surgery. As an independent charity, we pride ourselves on providing impartial and clinically based evidence, putting patient care and safety at the heart of everything we do. Ophthalmologists are at the forefront of eye health services because of their extensive training and experience. The Royal College of Ophthalmologists received its Royal Charter in 1988 and has a membership of over 4,000 surgeons of all grades. We are not a regulatory body, but we work collaboratively with government, health and charity organisations to recommend and support improvements in the coordination and management of eye care both nationally and regionally.



#### The ROYAL COLLEGE of OPHTHALMOLOGISTS

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NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

## Contents

| Fo | reword  | 05 |
|----|---|----|
| Ex | ecutive Summary   | 06 |
|    | Background  | 06 |
|    | Aims of the audit   | 06 |
|    | Audit measures  | 06 |
|    | Results   | 07 |
| Re | commendations   | 10 |
|    | For Patients  | 10 |
|    | For Providers of cataract surgery   | 10 |
|    | For Commissioners   | 11 |
|    | For the Regulators  | 11 |
| 1. | Introduction  | 12 |
| 2. | Audit Framework   | 14 |
| 3. | Aims  | 15 |
| 4. | NHS Trust / Health Board and Surgeon<br>Participation                         | 15 |
| 5. | Methodology   | 16 |
|    | 5.1 Context of the data collection  | 16 |
|    | 5.2 Case ascertainment  | 16 |
|    | 5.3 Data quality and completeness   | 17 |
|    | 5.4 Small numbers policy  | 17 |
|    | 5.5 Outliers policy   | 17 |
|    | 5.6 Limitations of the data   | 17 |
| 6. | Data Extraction, Cleaning and<br>Statistical Methods                          | 18 |
| 7. | Definitions   | 19 |
|    | 7.1 Dataset   | 19 |
|    | 7.2 Surgeon grade   | 19 |
|    | 7.3 Posterior Capsule Rupture (PCR)   | 19 |
|    | 7.4 Visual Acuity (VA)  | 19 |
|    | 7.5 Mixed effects modelling of PCR  |    |
|    | and Visual Acuity Loss  | 19 |
|    | 7.6 Case complexity index   | 19 |
| 8. | Results   | 20 |
|    | 8.1 Case ascertainment  | 20 |
|    | 8.2 Surgeons  | 20 |
|    | 8.3 Patient characteristics – age and gender                                  | 21 |
|    | 8.4 First eye, second eye and immediate sequential bilateral cataract surgery | 23 |
|    | 8.5 Index of multiple deprivation   | 24 |
|    | 8.6 Preoperative Visual Acuity (VA)   | 25 |
|    |   |    |

| <br> |   |                 |
|------|---|-----------------|
|      | 8.7 Ocular co-pathologies and risk  |                 |
|      | indicators  | 29              |
|      | <ul><li>8.8 Operation characteristics</li><li>8.9 Operative complications</li></ul>   | 31<br>31        |
|      | 8.10 Postoperative complications  | 33              |
|      | 8.11 Postoperative visual acuity  | 35              |
|      | 8.12 Change in visual acuity  | 37              |
|      | 8.13 Case complexity adjusted PCR results   | 41              |
|      | 8.14 Case complexity adjusted visual loss results   | 43              |
| 9.   | Summary of Key Points   | 46              |
| 10.  | Conclusions   | 48              |
| 11.  | Future of the audit   | 51              |
| 12.  | Acknowledgements  | 52              |
| 13.  | Funding   | 52              |
| 14.  | The RCOphth NOD Cataract Audit Team   | 53              |
| Арр  | <b>pendix 1:</b> Data Flow  | 54              |
| Арр  | pendix 2: Cataract surgical centre  | 55              |
| Арр  | pendix 3: Interpreting the graphs and tables  | 62              |
| Арр  | endix 4: Case Definitions   | 64              |
| Арр  | <b>Dendix 5:</b> Glossary   | 67              |
|      | <b>Dendix 6:</b> Eligible operations and the portion performed by each grade of surgeon   | 69              |
|      | <b>pendix 7:</b> Preoperative, postoperative<br>I change in VA percentages  | 76              |
|      | <b>Dendix 8:</b> The percentage of first and second ated eyes with postoperative VA data  | 82              |
| Арр  | endix 9: Case complexity PCR and VA Loss  | 88              |
|      | <b>Dendix 10:</b> Surgeon information for the<br>6 – 2020 NHS years   | 94              |
| sec  | <b>Dendix 11:</b> Patient details for first eye,<br>ond eye and immediate sequential bilateral<br>aract surgery for the 2016 – 2020 NHS years | 95              |
| of e | <b>Sendix 12:</b> Case ascertainment and percentage<br>yes with any ocular co-pathology / known<br>indicator for the 2016 – 2020 NHS years    | ge<br><b>97</b> |
| ocu  | <b>Dendix 13:</b> The percentage of eyes with each<br>lar co-pathology / known risk indicator for<br>2016 – 2020 NHS years                    | 104             |

------

## Contents

| <b>Appendix 14:</b> Participating centres percentage of eyes with VA data in each NHS year           | 105 |
|--|-----|
| <b>Appendix 15:</b> Participating centres case complexity adjusted PCR and VA Loss for each NHS year | 112 |
| <b>Appendix 16:</b> The percentage of eyes with VA data at different time intervals                  | 119 |
| <b>Appendix 17:</b> Operative procedures combined with phacoemulsification ± IOL                     | 125 |

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## Foreword

The National Ophthalmology Audit Database for cataract surgery continues to grow, with data collected from over 134 centres. The analysis and sharing of the audit output with surgeons helps improve patient care and surgical outcomes. This success has been rewarded with the NOD Cataract Audit being included on the Quality Accounts List, meaning that all NHS Trusts in England are required to participate, or justify non-participation.

The data from NOD is able to reassure patients of good outcomes in their surgery. Only 0.91% of all operations were affected by posterior capsule rupture (PCR) in this most recent audit period, and continues the trend of improvement that the NOD has reported on since 2010.

However, it is unsurprising that COVID-19 has caused a significant disruption to overall eye services, particularly to elective cataract surgery with the number of publicly funded operations dramatically reduced to approximately 246,000 in England and 5,700 in Wales. This has profoundly affected ophthalmologists in training opportunities to undertake cataract surgery, and the situation may not automatically reverse as the pandemic eases given the shift in service provision from traditional NHS providers to independent sector providers. The RCOphth is working directly with NHS England & Improvement, the major independent sector providers and deaneries to increase training opportunities.

Most recently, with College input, NHS England has taken an important step to address this challenge, which impacts on patient care, with the new Cataract Surgery Specification which aims to ensure all providers of cataract surgery in England meet certain standards and requirements. These include the delivery of training, the handling of post-surgical and out of hours complications, as well the requirement that there should be no financial link between the provider and any referring organisation. I am pleased to say that the RCOphth will continue to be an important influencing factor in the implementation of the specification to maintain standards of patient care and support for our trainees.

The data from NOD will continue to allow monitoring trends and have an increasing influence in enabling change to drive improvements in cataract surgery outcomes, training and standards of patient care. A huge thank you to all the NOD team and congratulations to the clinicians and staff involved in this extremely important audit.

**Professor Bernard Chang** President, The Royal College of Ophthalmologists

## **Executive Summary**

#### Background

Cataract surgery remains the most frequently undertaken NHS surgical procedure with approximately 456,000 publicly funded cataract operations undertaken in England

and 20,000 in Wales during the 2019 NHS year. The annual cost to the NHS of cataract surgery is estimated at around £500 million. In contrast, during the 2020 NHS year approximately 246,000



cataract operations were performed in England and 5,700 in Wales. This vast reduction was due to service disruption, cancelled services and national lockdowns from the COVID 19 pandemic.

#### Aims of the audit

The audit is intended to quality assure NHS and publicly funded cataract surgery for patients whose vision is adversely affected by cataract to the point where they seek and undergo surgical intervention. Should performance fall short of what can reasonably be expected by patients this is highlighted. In addition, the audit serves as a powerful driver of quality improvement with year on year reductions in complication rates as evidenced in our series of annual reports available at nodaudit.org. uk/resources/publications-annual-report. The RCOphth NOD is configured to receive data from both public and private sectors and encourages participation of all cataract surgery service providers.

The RCOphth NOD prospectively collects cataract surgery data and provides results for named centres offering NHS and publicly funded independent surgery. These include operations performed and recorded by all surgeons of all grades within centres. Outcomes for named consultant surgeons will be separately published on the <u>RCOphth NOD</u> <u>Audit website</u> and results for English and Welsh centres will be submitted to the Care Quality Commission (CQC).

Included in this fifth prospective report are operations undertaken between 01 April 2020 and 31 March 2021 which corresponds to the 2020 NHS year.

#### **Audit measures**

The hallmarks of high quality are low rates of adverse outcomes based on complete data submissions for all cataract procedures undertaken by contributing centres. Since the original proof of

concept of a national cataract audit in 2010, there has been around a 50% reduction in PCR complications and a 38% reduction in VA Losses in cataract surgery, (Table 1,



overall reduction in PCR complications since 2010

page 9) equating to approximately 4,500 fewer complications annually across the NHS and an estimated annual saving from avoided additional treatments of £2.5 million.

Two primary outcome indicators of surgical quality are audited. These are:

- A complication that may occur during surgery when the capsular bag that holds the lens breaks (the index surgical intraoperative complication of significant breach of the lens-zonule barrier through rupture of the posterior lens capsule or vitreous prolapse or both, abbreviated as PCR), and
- Visual Acuity (VA) Loss (doubling or worse of the visual angle) related to surgery (equivalent to a loss of 3 or more lines or 15 or more letters on a LogMAR chart).

These outcomes are presented as risk adjusted rates for centres and consultant surgeons,

supported by relevant contextual information including surgical volumes, data completeness, case complexity, access to surgery and deprivation.

The overall rates of 1.10% for PCR and 0.90% for VA Loss which are used for risk adjustment of outcomes were set in the second prospective audit year from the underlying unadjusted rate for consultant surgeons. The risk indicators for each of these adverse events were derived from earlier data collections. Case complexity is known to be an important determinant of outcome and a case complexity index is included to document the complexity of surgery being reported. The vast majority of data were obtained through extraction from Electronic Medical Record (EMR) systems, with a small number of centres choosing to submit data from their pre-existing audit databases.

#### Posterior Capsule Rupture – PCR

As an adverse operative event, PCR is relevant because it results in a significantly higher risk of harm to the eye and may impact recovery of vision. For example, there is an approximately 20-fold higher risk of a retinal detachment occurring in the year following cataract surgery if PCR occurred. Retinal surgery, to correct the detachment, imposes additional risks, morbidity and cost.

#### Visual acuity Loss – VA Loss

Since VA Loss from surgery is the opposite of the intended effect, these key primary outcomes together capture relevant safety elements of surgical quality. Determination of VA Loss depends on availability of VA measurements at both pre- and postoperative time points. Rates of missing VA data are thus important and are reported for centres.

#### Results

#### Participation

Included in this fifth prospective report are operations undertaken between 01 April 2020 and 31 March 2021. Reported operations for the current period were performed in 74 English NHS Trusts and four Welsh Local Health Boards. **Approximately 67% of the 115 eligible NHS trusts in England and Wales are thus represented.** In addition, eight independent providers of NHS funded cataract surgery have

supplied data for 54 individual sites, as have one centre from Guernsey. For the first time the audit includes data from one private provider of cataract surgery. For the 2020 NHS year, 246,300 cataract operations were reported to NHS Digital from English centres and 5,731 operations from Welsh Local Health Boards. The audit

**182,606** cataract operations which equates to approximately 72.5% of operations performed in England and Wales during the 2020 NHS year

Data collected from



received data for 182,606 cataract operations which equates to approximately 72.5% of operations performed in England and Wales during the 2020 NHS year.

Around 5% of cataract operations were excluded for a variety of reasons such as being done for indications other than visual improvement or being combined with other significant intra-ocular surgery; **this left 172,320 eligible cataract operations available for analysis.** 

#### **Data Quality**

Data completeness was excellent at around 100% for the PCR outcome of reported operations as this is a compulsory operative field in the EMRs.

An eligible preoperative distance VA was recorded for 71.0% of eyes and a postoperative VA for 59.8% of eyes; 47.4% of eyes had both a preoperative and a postoperative VA measurement. There was significant variation between centres for completeness of VA data, reflecting variations in

NOD Audit Sixth Annual Report - Fifth Prospective Audit Year Report

EMR use, patient pathways and service disruption from the COVID 19 pandemic.

#### Findings

For all surgeons, 0.91% of operations were affected by PCR. This is slightly below the current consultant only based average rate of 1.1% used for risk adjustment and approximately 50% lower than in 2010.

A 'good' postoperative VA of 0.30 LogMAR (=6/12, required to drive) or better was achieved in 91.0% of eyes overall, 96.1% of eyes with no ocular co-pathology and 86.1% of eyes with a recorded co-pathology. The median preoperative VA was 0.50 LogMAR units (6/19 Snellen equivalent); the median postoperative VA was 0.10 LogMAR units (6/7.5 Snellen); and the median change in VA was a 0.40 LogMAR gain.

Overall, the VA Loss rate was 0.42%, lower than the 0.9% rate used for risk adjustment and approximately 38% lower than in 2010. The samples used for the VA Loss results is smaller than those used for the PCR results due to missing presenting (pre-) and / or postoperative VA measurements as well as a shorter time period of 10 months to cater for postoperative recovery and VA reporting.

#### Conclusions

Overall, the audit findings are favourable indicating high quality surgery is being delivered to NHS patients. Specifically, among the contributors, no outlying centres or surgeons were found for PCR or postoperative VA Loss. Whilst the audit can report on increasingly large numbers of procedures, there remain centres that have not yet joined the audit, some who have previously participated no longer doing so and some who did not participate this time due to service disruption from the COVID 19 pandemic (Appendix 2, page 55). Until all centres join, there will remain uncertainty about outcomes across the board.

#### Table 1: Audit estimates for different NHS years where each year represents the time period of 01 April to 31 March

|  | NHS year (01 April to 31 March) |        |         |         |         |         |         |         |         |         |         |
|--|---------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|  | 2010                            | 2011   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    |
| Number of centres                                  | 42                              | 49     | 50      | 54      | 58      | 71      | 93      | 105     | 114     | 125     | 134     |
| Number of eligible operations                      | 70,599                          | 85,752 | 104,937 | 124,259 | 138,119 | 155,138 | 194,562 | 219,077 | 247,535 | 277,749 | 172,320 |
| Case ascertainment (%)*                            | -                               | -      | -       | -       | -       | -       | 87.4    | 84.8    | 86.1    | 88.8    | 100.0   |
| Unadjusted PCR rate (%)                            | 1.90                            | 1.79   | 1.73    | 1.46    | 1.44    | 1.35    | 1.29    | 1.27    | 1.15    | 1.04    | 0.91    |
| The percentage with valid preoperative VA data     | 86.7                            | 95.5   | 89.1    | 88.9    | 91.1    | 92.1    | 92.5    | 91.6    | 89.9    | 85.6    | 71.0    |
| Number of operations for postoperative VA results  | 57,255                          | 69,254 | 86,063  | 101,747 | 113,828 | 127,550 | 157,355 | 181,238 | 203,651 | 236,256 | 132,322 |
| The percentage with valid postoperative<br>VA data | 69.7                            | 71.8   | 72.8    | 73.3    | 74.7    | 76.5    | 76.4    | 76.8    | 75.7    | 72.6    | 59.8    |
| The percentage with change in VA data              | 58.8                            | 69.1   | 68.5    | 68.5    | 70.4    | 72.9    | 73.1    | 72.5    | 70.9    | 67.5    | 47.4    |
| Number operations eligible for VA loss results     | 22,921                          | 39,608 | 49,561  | 53,936  | 59,585  | 81,862  | 102,726 | 116,362 | 128,946 | 141,915 | 35,262  |
| Unadjusted VA loss rate (%)                        | 0.68                            | 0.77   | 0.86    | 0.80    | 0.72    | 0.62    | 0.60    | 0.56    | 0.59    | 0.52    | 0.42    |

Over the time period above, not all centres have contributed data in consecutive data extractions and some centres have merged. The first prospective audit year ran from 01 September 2015 to 31 August 2016 with prospective audit years 2, 3 and 4 running from the respective months in 2016/17, 2017/18 and 2018/19. From this report onwards the prospective audit year is aligned with the NHS year which runs from 01 April to 31 March. Centres when first submitting data will not always include data for a complete year and there is often a lead time affecting data collection once a centre adopts electronic data collection. When a centre submits data for the first time, they have the option of submitting historic data from 01 April 2010 onwards which is then used in results for historic time periods and increases the number of centres with data for an individual year. \*The estimate of the proportion of cases submitted to the audit is derived from the number of completed cataract operations supplied to NHS Digital or DHCW for the audit periods. The setimation uses a pro rata calculation of a centre's denominator where the proportion of time during the audit cycle that a centre had been recording cataract operations was multiplied by the number of cataract operations supplied to NHS Digital or DHCW data were all assumed to have a complete submission rate as the actual rate was not possible to estimate. Case ascertainment rates have not been estimated for the 2010 to 2015 NHS years due to the audit to receiving the NHS Digital or DHCW data for these years.

## Recommendations

## 1. Recommendations for Patients



**1.1** Patients, carers and those with an interest in cataract surgery are encouraged to access information about the quality of cataract surgery and their local services, and can view information online on the <u>National Ophthalmology</u> <u>Database Audit website</u>. (page 46, Summary Key Point 2, 5)

**1.2** Patients should discuss and understand the risks and potential outcomes of eye surgery with their surgeon including for their own particular risk profile **1.3** Patients whose local cataract provider is not participating in the national cataract audit could contact their hospital to request information on the quality of outcomes

**1.4** Patients interested in finding out more about cataract surgery, should access information online from their hospital trusts and health boards, as well as from charity organisations such as <u>Royal National Institute of</u> <u>Blind People</u> (RNIB)

#### 2. Recommendations for Providers of cataract surgery



**2.1** All providers of NHS cataract surgery should submit data to the audit to publicly demonstrate their commitment to high quality care and good professional practice through participation (page 46, Summary Key Point 1)

2.2. Providers should submit complete data including all relevant risk factors for outcomes to ensure case complexity can be taken into account and results appropriately interpreted (<u>UK</u> <u>Minimum Cataract Dataset</u> for National Audit) (page 46, Summary Key Point 8)

**2.3.** In line with the NHS Digital Agenda, providers should use electronic data collection to improve data completeness and utilise EMR audit tools for continuous real time monitoring of results for early detection and correction of possible issues (page 46, Summary Key Point 9) **2.4.** Providers should review patient pathways to maximise the recording of both preoperative and postoperative VA data for every operation (page 46, Summary Key Point 7)

**2.5.** Providers should use the RCOphth NOD audit for quality improvement by comparing their results against other cataract surgery providers and their past performance to identify and act on specific areas that may need improvement (page 46, Summary Key Point 5)

2.6. Providers should consider including <u>Patient Reported</u> <u>Outcome Measures (PROMs)</u> before and after surgery to quantify and validate patient benefit from surgery, as advised in the 2019 <u>NICE</u> <u>Quality standard for serious</u> <u>eye disorders (QS180)</u> **2.7.** EMR enabled providers should review the settings on their EMR regarding mandatory data collection. Specifying mandatory collection for specific data items aids in improving data collection

**2.8.** Surgeons working in non-participating centres should approach their senior management teams and emphasise the importance of participation, pointing out the benefits in terms of quality assurance, quality improvement, accountability, public perception and validation to commissioners of the service being provided

## 3. Recommendations for Commissioners



**3.1** Service specification contracts should require quality assurance and improvement based on RCOphth NOD national audit outcomes and the 2017 <u>NICE</u> <u>cataract surgery guideline</u> (<u>NG77</u>) for management of cataracts in adults (page 46, Summary Key Point 4)

**3.2.** Commissioners should use quality focused service specification contracts with providers of cataract surgery which include submission of full data to the RCOphth NOD audit, including pre- and postoperative VA for visual outcomes reporting (page 46, Summary Key Points 1, 2, 6, 7, 8). This applies to NHS providers and independent providers of NHS cataract surgery

**3.3.** Services where postoperative care is outsourced, e.g. to optometric practices should require return of postoperative data (VA and refraction) to the operating centre using the data return audit tools available for such purposes

## 4. Recommendations for the Regulators



**4.1** Regulators should expect NHS services to participate in all national audits, with RCOphth NOD audit results made available to them when inspecting NHS organisations which either commission or deliver cataract surgery services (page 46, Summary Key Points 1, 6)

**4.2.** Regulators should ensure that all providers of NHS cataract surgical care are able

to provide quality assurance regardless of whether they are traditional NHS centres or independent providers (page 46, Summary Key Point 1)

**4.3.** Centres providing both publicly and privately funded surgery across the UK are eligible to join the RCOphth NOD audit and all UK cataract surgery centres are invited and encouraged to participate

### 1. Introduction

The healthy eye has a clear lens which sits just behind the iris, the coloured part of the eye, and this lens helps to focus light entering the eye. A cataract is a clouding of that lens. Cataracts cause sight to become cloudy and unclear, or can cause glare or dazzle in certain lighting conditions. Cataracts can affect one or both eyes and are treated by surgery, during which the cloudy lens is removed and replaced by an artificial lens. The artificial lens is known as an intraocular lens (IOL). There are no medicines or drops that can successfully treat cataracts; surgery is the only way to treat them. Further information for patients and the public concerning cataract surgery is available on <u>The Royal College of Ophthalmologists</u>' website.

In the 2019 NHS year (01 April 2019 to 31 March 2020), around 456,000 NHS cataract surgery procedures were undertaken in England and 20,000 in Wales. This reduced considerably during the 2020 NHS year to around 246,000 operations in England and 5,700 operations in Wales due to the COVID 19 pandemic. Cataract surgery remains the most frequently performed surgical procedure in the UK and a widely accepted indicator of surgical quality is the frequency of significant breach of the lens-zonule barrier through posterior capsule rupture with or without vitreous prolapse, or zonule rupture with vitreous prolapse, events abbreviated here as PCR.

PCR is emphasised in the <u>NICE cataract surgery guideline (NG77)</u> in the context of surgical risk and is similarly used as a clinical outcome (adverse event) by the <u>International Consortium for Health</u> <u>Outcome Measurement (ICHOM)</u>. This operative complication arises on average in approximately one operation in 100, but the risk of this event varies by as much as fifty-fold depending on preoperative risk factors associated with the patient (e.g. age) and their eye (e.g. how advanced the cataract is).

PCR is relevant as an adverse operative event because it results in a significantly higher risk of harm to the eye and may impact recovery of vision. For example, there is an approximately twenty-fold higher risk of a retinal detachment occurring in the year following cataract surgery if PCR occurred, and retinal surgery imposes additional risks, morbidity and cost. Importantly, when PCR occurs there is a six-fold higher chance of loss of vision from pre- to postoperatively in the eye undergoing surgery.

Some weeks following cataract surgery, most patients attend their community optometrist (high street optician) for updating of their glasses prescription, and at this point the final 'best-corrected' visual acuity is established. The results of this follow-up episode are currently inconsistently communicated back to the hospital to allow a definitive measure of visual acuity (VA) benefit from surgery. A web-based data return tool has been developed and was initially offered as a free EMR software enhancement to audit centres to encourage and facilitate data returns for postoperative VA and refraction. Since VA Loss from surgery is the opposite of the intended effect, these key primary outcomes together capture relevant safety elements of surgical quality. VA Loss is emphasised in the <u>NICE cataract surgery guideline (NG77)</u> in the context of surgical risk. In addition to postoperative VA, return of postoperative refraction data would expand the options for outcome reporting.

Providing risk adjusted results for centres and surgeons enables them to benchmark their own performance against their peers and acts as a prompt to reviewing practice where outcomes are less good. Our experience indicates that showing individual surgeons their performance stimulates them to be more mindful of quality generally and to improve performance where needed.

Since safety is a key domain for the NHS, embodied in the oft quoted phrase from the Hippocratic Oath "First, do no harm", the audit is primarily focused on two chosen safety metrics. The EMR data collection systems used by the majority of contributing centres allow for real time local tracking of outcomes by surgeons and centres. This empowers them to monitor their results locally and to detect adverse signals early with a view to minimising patient harm through prompt action. The report includes additional contextual information which provides centres, surgeons and the wider NHS with secondary outcomes in terms of case complexity, access to surgery by centre and deprivation, and data completeness.

In the RCOphth NOD prospective cataract audit reports we show the case complexity adjusted rates of PCR and monocular visual acuity (VA) Loss for named centres (including all surgeons). On the <u>RCOphth</u> <u>NOD website</u> we present case complexity adjusted rates of PCR and VA Loss for participating centres and surgeons, centre results are provided to the CQC, and risk adjusted outcomes for centres and named consultant surgeons are available on the <u>audit website</u> for both PCR and VA Loss. Incomplete data will be highlighted and where <40% of outcome data are available for a particular centre (e.g. for VA Loss) the rate will not be reported as deemed too unreliable.

### 2. Audit Framework

The National Cataract Audit data in this report covers adult phacoemulsification cataract surgical operations recorded on:

- Medisoft EMR in use at 105 contributing centres
- OpenEyes EMR in use at six centres
- Medisoft and OpenEyes EMR used in one centre
- Epic patient record system in one centre
- In-house cataract or bespoke data collection systems used in 21 contributing centres

For the PCR outcome, the audit included all reported cataract operations performed in the period between 01 April 2020 and 31 March 2021. For the risk adjusted VA Loss outcome, postoperative complications and postoperative visual acuity results, the reported period was 01 April 2020 to 31 January 2021 in order to allow time for postoperative data to become available following recovery from surgery. Inclusion and exclusion criteria are detailed in Appendix 4.

#### Excluded were:

- Cataract operations not done by phacoemulsification
- Operations done as combined procedures along with another significant intraocular procedure (e.g. a trabeculectomy, minimally invasive glaucoma surgical procedure or a pars plana vitrectomy combined with other vitreoretinal procedures)
- Operations done on eyes previously damaged by ocular trauma
- Operations on polar cataracts
- Operations done on eyes with significant congenital or developmental abnormalities
- Operations on individuals aged <18 years

Centres are identified by name and allocated audit number in appendix tables.

### 3. Aims

The audit reports risk-adjusted rates for two primary patient safety outcomes: PCR and VA Loss in cataract surgery. PCR will have high levels of data completeness for all participating centres as recording of the absence or presence of specified operative complications is mandatory in ophthalmology EMR systems. The preoperative risk indicator and follow up VA data are, however, expected to be less complete because of variations in patient pathways and use of the EMR in different settings.

The quality improvement aims of this report include:

- Reporting of the intraoperative risk adjusted complication rates, emphasising the need for careful risk profiling of cases in advance of surgery to anticipate and minimise avoidable surgical complications
- Reporting the rates of VA Loss, highlighting potentially avoidable visual harm where unwarranted variation is observed

There are several secondary aims developed throughout the life of the audit, for example the contextual information includes: case complexity metrics, rates of recorded valid VA data and access (preoperative VA) by centre and overall by deprivation.

### 4. NHS Trust / Health Board and Surgeon Participation

The audit brief is to include all NHS or publicly funded independent cataract surgery where permission for inclusion of the institutions' data has been provided by Clinical Leads / Medical Directors and Caldicott Guardians or a Governance equivalent for centres from a region where Caldicott Guardian approval does not apply. In this report, the majority of centres were in England (129) with four centres in Wales, and one centre from Guernsey. This report includes 113 currently EMR enabled centres and 21 centres using an in-house or bespoke data collection system. Of the 115 eligible NHS organisations in England and Wales, 78 (67.8%) are represented, plus data from eight independent sector treatment providers of NHS funded services (54 sites), one centre from Guernsey and one private provider. Results for 134 centres are reported.

### 5. Methodology

#### 5.1 Context of the data collection

The audit data derive from routine data collection in ophthalmology departments providing NHS or publicly funded independent cataract surgery. The majority of contributing centres collect this data with no additional effort required by staff due to the integration of EMR systems into the hospital eye service, while some centres without an EMR collect data that does require additional effort from staff. Our approach aligns directly with, and powerfully supports the NHS digital agenda, and has catalysed a major shift towards electronic working in cataract services. For the third successive year the audit has received data from >100 centres, this contrasts with 56 centres with sufficient data for inclusion in the first prospective audit report. Complication's data depend on surgeons recording these faithfully. Unlike mortality figures, there is no external validation of the reported complications, although cross-checks are undertaken within the extracted data.

The EMR requires the surgeon recording the operation note to specifically indicate a 'Yes / No' response to whether a surgical complication occurred. At all centres the EMR record (or its printed copy for the paper notes) constitutes the medicolegal document of the patient's operation record.

Data completeness for other aspects of care varies between centres for several reasons. Some centres only use the electronic data collection system in theatre, which limits data completeness for items normally collected in the outpatient department at pre- and postoperative visits. Accurate follow up data on VA and refraction mostly depend on patients attending their optometrist for updating of spectacles following surgery and for this information to then be returned to the hospital EMR system. Although some centres have good alternative systems to an EMR in place for optometrists to return postoperative VA and refraction measurements, and for staff at the hospital to enter the data electronically, it is to be expected that this VA outcome will be incomplete in many centres. The RCOphth NOD audit team has taken steps to enhance returns from optometrists through encouraging proactive local engagement with community optometrists, an active programme of engagement with national optometric professional bodies, and provision of a web-based data return tool for the National Cataract Audit. Centres which have newly adopted an EMR can have a 'time lag' affecting complete implementation of the software across their hospital eye service, for example due to computer availability in theatres and implementation of electronic data recording in the eye service. This can affect the data in their first submission to the audit. Another factor affecting results for the 2020 NHS year is service disruption from the COVID 19 pandemic during which cataract surgery was cancelled for periods of time, and in some areas NHS Trusts have still not re-opened cataract services, but transferred their cataract patients to a neighbouring independent sector treatment centre (ISTC) which may not submit data to the audit.

#### 5.2 Case ascertainment

An estimate of the percentage of cataract operations submitted to the audit is based on the number reported centrally to NHS Digital or Digital Health and Care Wales (DHCW). This is calculated pro rata for recent joiners, as reported in Appendix 6 (page 69).

As the National Cataract Audit has exclusion criteria, the estimate of case ascertainment is calculated using the number of operations performed using phacoemulsification submitted to the audit before the exclusion criteria are applied.

#### 5.3 Data quality and completeness

Among the advantages of EMR data collection are compulsory collection of key data items (e.g. operative complications) and automatic range checking of variables (e.g. axial length) at the time of data entry. This improves data completeness and accuracy. In addition, the richness of EMR data provides a more complete picture of the patient and their state of health making it possible to infer important information through cross-checking.

Completeness of preoperative VA and postoperative VA outcome remain variable and an area for improvement in many centres. The audit tools include a web-based data return tool for use by community optometrists which is intended to facilitate return of postoperative data. This works best when optometrists are commissioned to undertake postoperative follow up in the community as contracting can make payment contingent upon data having been received by the surgical centre.

#### 5.4 Small numbers policy

Centres with <50 eligible operations have not been included in this report. Results for individual surgeon will likewise not include data for surgeons who have undertaken <50 eligible procedures. For estimates of vision, data from centres with <50 eligible operations with a visual acuity measurement are not included, and for postoperative data no results are produced for centres with <50 eligible operations within the postoperative time period.

#### 5.5 Outliers policy

The audit outliers' policy is available on the <u>RCOphth NOD Audit</u> website. An outlying centre or surgeon is identified where the risk-adjusted adverse event rate is above the national threshold set by the mean rate plus approximately three Standard Deviations (3SD).

#### 5.6 Limitations of the data

The RCOphth NOD includes data for cataract surgery to the first treated eye, the second treated eye and in some cases immediate sequential bilateral surgery, but for some patients the record for the first treated eye may be missing. This may arise for example if the first eye operation was performed prior to the centre adopting electronic data collection, or the first treated eye operation could have been performed in a different centre. At present the RCOphth NOD cannot link patients' data if collected at different centres.

Patient's age, and the calculation of the index of multiple deprivation data rely on data entered directly onto the Hospital's Patient Administration System (PAS), which links into EMR systems, hence if this data is not recorded in the PAS it is not present in the data extract for EMR enabled centres with PAS connections. Centres using in-house databases can supply this data if they match their clinical data to the national indices before submitting to the audit. Deprivation data was available for most operations recorded on the Medisoft EMR system and one centre using an in-house database, but not for the other sources of data. The RCOphth NOD is working with providers of EMR systems to facilitate the inclusion of deprivation data during extraction, and the audit has provided information to non-EMR centres on how they can submit deprivation data without transferring the patients' postcode.

### 6. Data Extraction, Cleaning and Statistical Methods

Centre participation is confirmed by agreement from the institution's Caldicott Guardian or Governance equivalent and Clinical Lead / Medical Director for Ophthalmology. There are 11 sources of data included in the prospective fifth year of the National Cataract Audit, 105 centres used the <u>Medisoft</u> <u>EMR</u>, six centres used the <u>OpenEyes EMR</u>, one NHS Trust used both the Medisoft and the OpenEyes EMR systems, one centre used the <u>Epic patient record system</u>, and 21 centres used in-house or bespoke data collection systems. Supplementary extractions/submissions were undertaken as necessary. Full details regarding eligibility and analysis criteria are on the RCOphth <u>NOD Audit website</u> following registration.

### 7. Definitions

#### 7.1 Dataset

A <u>minimum cataract dataset</u> has been defined for purposes of the audit. These variables include those required for case complexity adjustment of outcomes.

#### 7.2 Surgeon grade

The grade of surgeon was categorised as consultant surgeons, career grade non-consultant surgeons (associate specialists, staff grade and trust doctors), experienced trainee surgeons (fellows, registrars, speciality registrars years 3 – 7 and specialty trainees years 3 – 7) and less experienced trainee surgeons (SHO, specialty registrars years 1 – 2, specialty trainees years 1 – 2 and foundation doctors years 1 – 2).

#### 7.3 Posterior Capsule Rupture (PCR)

Posterior capsular rupture (PCR) is defined for the purposes of the National Audit as "posterior capsule rupture with or without vitreous prolapse or zonule rupture with vitreous prolapse" and abbreviated as PCR. It should be noted that the definition excludes zonule dehiscence where no vitreous prolapse has occurred. PCR is thus intended to capture significant breach of the lens-zonule barrier. Detailed criteria for case definitions is in Appendix 4 (page 64) and on the <u>audit website</u>.

#### 7.4 Visual Acuity (VA)

VA definitions used were designed to maximise the usefulness of the available data with specified 'time windows' for pre- and postoperative measurements and criteria for preferred choices in terms of corrected VA, unaided VA and pin hole corrected VA. The detailed criteria is in Appendix 4 (page 64) and on the <u>audit website</u> along with interpretations for levels of VA. The percentage of eyes with VA data for each centre and different time windows are given in Appendix 16 (page 119).

#### 7.5 Mixed effects modelling of PCR and Visual Acuity Loss

The categorisation of each covariate under investigation in the PCR and VA Loss mixed effects logistic regression models are detailed for registered users on The RCOphth <u>NOD Audit website</u> with operations performed in the four-year period 2011-12 to 2014-15 NHS years used to develop the current models.

The risk adjustment model equations for PCR and Visual Acuity Loss respectively were applied to the audit data for the respective results in this report where the case mix adjusted graphs have 95% and 99.8% error lines displayed which are created from consultant based means of 1.1% for PCR and 0.9% for Visual Acuity Loss. These percentages reflect the unadjusted adverse event rates for consultants performing surgery. They are slightly lower than the overall rate for all surgeons and have been used because the consultant results appear in the public domain and as such, it would be inappropriate for the average consultant rate to be artificially inflated to reflect the slightly higher overall average rate. The audit stipulates that at least 50 eligible operations are required for a centre or surgeon result, and at least 60% of operations with both pre- and postoperative VA data are required to report a result for VA Loss. On the centre level case mix adjusted funnel plots, data for all surgeons is included (i.e. including trainee surgeons whose results are risk adjusted accordingly), while on the surgeon level case-mix funnel plots, data for trainee surgeons is not included.

#### 7.6 Case complexity index

Based on the risk prediction models a case complexity index is provided for each centre. This is taken as the overall predicted probability of an adverse outcome based on the reported case complexity for the centre. Separate complexity indices are provided for PCR and VA Loss.

### 8. Results

#### 8.1 Case ascertainment

In total, 182,606 operations were submitted to the audit by 140 centres, of which 181,307 (99.3%) were performed using phacoemulsification. The estimate of case ascertainment is made by comparison with data from NHS Digital and DHCW. Six centres were excluded from the cataract audit analyses due to supplying <50 eligible operations, two centres are not subject to reporting to either NHS Digital or DHCW and six centres did not have any data available from NHS Digital.

The overall case ascertainment for the 126 centres eligible and where case ascertainment could be estimated was 100% due to 91 centres supplying data for more operations than reported by NHS Digital / DHCW. The case ascertainment rate was >90% for 104 (82.5%) centres. The range in the percentage of cases submitted to the audit was 11.0% to 100%, Appendix 6 (page 69), and the case ascertainment for centres for the 2016 – 2020 NHS years is in Appendix 12 (page 97).

Of the 182,606 operations submitted for the 2020 NHS year (01 April 2020 to 31 March 2021), 10,080 (5.5%) operations are excluded from analysis and a further 206 operations from 6 centres are excluded due to these centres submitting data for <50 eligible operations; the eligibility information is on the RCOphth NOD Audit website: <u>NOD Audit Eligibility Criteria</u>. This left 172,320 operations performed in 134 participating centres eligible for analysis. The operations were performed on 84,654 (49.1%) left eyes and 87,666 (50.9%) right eyes from 142,241 patients.

#### 8.2 Surgeons

The 172,320 eligible operations were performed by 1,920 surgeons where;

- 1,056 consultant surgeons performed 141,267 (82.0%) operations.
- 140 career grade non-consultant surgeons performed 7,181 (4.2%) operations.
- 671 more experienced trainee surgeons performed 20,806 (12.1%) operations.
- 133 less experienced trainee surgeons performed 3,066 (1.8%) operations.

The percentage of operations performed by each grade of surgeon varied between contributing centres reflecting catchment area, NHS trust differences and training opportunities for junior trainee surgeons within England and Wales, Appendix 6 (page 69) and Figures 1 and 2 (page 22).

The median number of operations each surgeon had performed was 33 operations (IQR; 12 – 75: range; 1 – 3,692). For comparison, the median number of operations per surgeon was 58, 64, 65 and 66 in the 2016, 2017, 2018 and 2019 NHS years respectively. In the 2020 NHS year, 23 surgeons had data for >1,000 operations, 13 surgeons had all their data from ISTC sites and 12 surgeons' data from both NHS Trusts and independent sector treatment provider sites. In the 2020 NHS year, 721 (37.6%) surgeons performed  $\geq$ 50 eligible operations, for comparison these percentages were 55.1%, 58.1%, 57.9% and 58.9% for the 2016, 2017, 2018 and 2019 NHS years respectively. Of the 1,199 (62.4%) surgeons with <50 operations, 586 (48.9%) were consultants or independent non-consultant surgeons, 599 (50.0%) were trainee surgeons and 14 (1.1%) had data as both a trainee and a consultant or independent non-consultant surgeon.

Of the 1,920 surgeons, 1,243 (64.7%) surgeons were male, 645 (33.6%) surgeons were female and the gender was unknown for 32 (1.7%) surgeons. 255 (13.3%) surgeons had data for operations performed in two participating centres, 34 (1.8%) in three participating centres and 39 (2.0%) in four or more centres, with two surgeons having data for >10 centres and one surgeon data for 15 centres.

The percentage of operations performed by consultant surgeons was higher in the 2020 NHS year (82.0%) than in the previous 2016 – 2019 NHS years (range; 68.5% to 72.8%). This increase is partly due to higher representation from the ISTC who did not provide training during these time periods. Consequently, the percentage of operations performed by trainee surgeons has decreased. The proportion of operations performed by male and female surgeons was consistent across the 2016 – 2020 NHS years. The number of surgeons with <50 eligible operations increased across the 2016 – 2020 NHS years, partly influenced by new joining centres in their first year of participation without data for the complete NHS year. The number of surgeons with data for >1,000 operations increased from 7 in the 2016 NHS year to 23 in the 2020 NHS year, Appendix 10 (page 94).

#### 8.3 Patient characteristics – age and gender

Summary details of the 142,241 patients undergoing cataract surgery in the 2020 NHS year were as follows:

- 60,127 (42.3%) patients were men.
- 79,072 (55.6%) patients were women.
- The gender was not recorded for 3,041 (2.1%) patients.
- One patient's gender was recorded as indeterminate / anticipated sex change.
- The ethnicity was not recorded for 67,234 (47.3%) patients.
- Patient characteristics were very similar for first treated and second treated eyes.

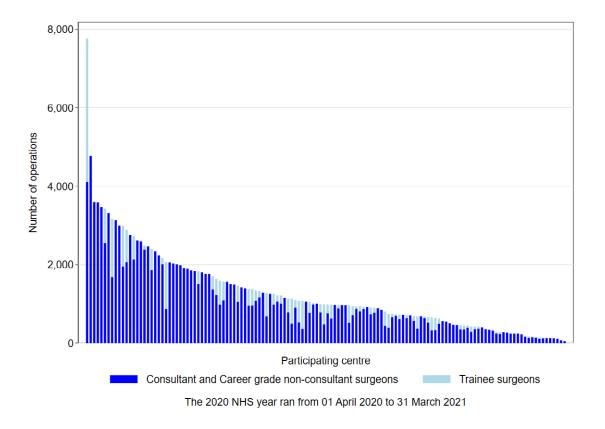
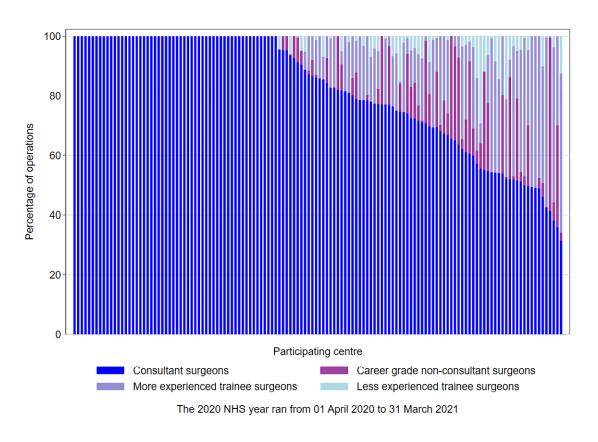


Figure 1: The number of eligible operations supplied to the national cataract audit for each contributing centre – Ordered by the number of operations

Figure 2: The percentage of eligible operations performed by each grade of surgeon for each contributing centre – Ordered by the percentage of operations performed by consultant surgeons



#### 8.4 First eye, second eye and immediate sequential bilateral cataract surgery

All cataract operations performed could be in either the patient's first or second treated eye unless immediate sequential bilateral cataract surgery was performed. The RCOphth NOD Audit may not have the record for both operations or the first treated eye could have had the operation at another centre or prior to electronic data collection within the centre. For these reasons, no results on time between operations are provided in this report.

Results for first treated, second treated and immediate sequential bilateral operations are described below.

#### First treated eye cataract surgery;

- First eye cataract surgery was performed for 104,218 (61.4%) operations.
- The median age at first treated eye surgery was 75.2 years (IQR; 68.4 81.3).
- 11,313 (10.9%) patients were recorded as having diabetes mellitus at the time of their first cataract operation.
- 1,434 (1.4%) patients were recorded as unable to lie flat.
- 2,035 (2.0%) patients were recorded as unable to cooperate during the operation.
- 2,381 (2.3%) patients were operated on under general anaesthesia, combined with local and/or topical for 2,144 patients.

#### Second treated eye cataract surgery;

- Second eye cataract surgery was performed for 65,616 (38.6%) operations.
- The median age at second treated eye surgery was 76.2 years (IQR; 70.1 82.0).
- 8,429 (12.8%) patients were recorded as having diabetes mellitus at the time of their second treated eye surgery.
- 693 (1.1%) patients were recorded as being unable to lie flat.
- 1,253 (1.9%) patients were recorded as being unable to cooperate during the operation.
- 1,549 (2.4%) patients were operated on under general anaesthesia, combined with local and/or topical for 1,397 patients.

#### Immediate sequential bilateral cataract surgery;

- Immediate sequential bilateral cataract surgery was performed for 1,243 patients by 278 surgeons from 66 centres.
- The same surgeon performed the operation to both eyes for 1,169 (94.0%) patients.
- The median age was 73.5 years (IQR; 65.9 79.7), with no difference between male or female patients (mean age in years; 71.7 for males vs. 72.1 for females, p = 0.5080).
- 513 (41.3%) patients were male, 696 (56.0%) were female and the gender was not recorded for 34 (2.7%) patients.
- 122 (9.8%) patients were recorded as having diabetes mellitus.
- 62 (5.0%) patients were recorded as being unable to lie flat.

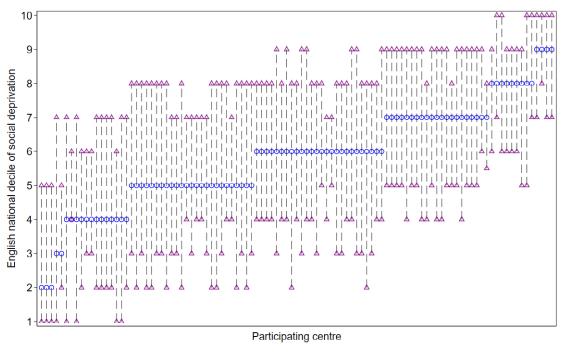
- 31 (2.5%) patients were recorded as being unable to cooperate during the operation.
- 160 (12.9%) patients were operated on under general anaesthesia, 136 combined with local or topical anaesthesia.

The patient's age, proportions for gender, those who could lie flat and cooperate with surgery were similar in each NHS year for first eye surgery patients and second eye surgery patients. Differences were observed for the proportion of patients with diabetes mellitus which has been decreasing over the NHS years and the proportion of patients having surgery under general anaesthesia which was lower in the 2020 NHS year. There were differences for immediate sequential bilateral surgery patients across the NHS years for the proportion of patients who could lie flat and cooperate with surgery which have both reduced from around 9% in the 2016 NHS year to 5.0% for those unable to lie flat and 2.5% for those unable to cooperate with surgery. The largest difference for ISBCS patients across the NHS years for the use of general anaesthesia which was used in 45.8% of ISBCS patients in the 2016 NHS year compared to 12.9% of ISBCS patients in the 2020 NHS year, Appendix 11 (pages 95).

#### 8.5 Index of multiple deprivation

The English index of multiple deprivation was calculated for 112,027 (99.3%) patients from 103 participating English centres with data recorded on the Medisoft EMR, or one of the contributing in-house databases. All bar six centres performed cataract surgery on patients in the most deprived national decile of social deprivation (decile 1) and all bar three centres performed cataract surgery on patients in the least deprived national decile of social deprivation (decile of social deprivation for patients undergoing cataract surgery varied significantly between centres, confirming that there was variation between the participating centres in the social deprivation status of patients undergoing cataract surgery, Figure 3 (page 25). The index of multiple deprivation was not calculable for operations from the other contributing data collection systems or from the contributing Welsh and Channel Island centres where different indices are used.

Figure 3: Median and IQR national deciles of social deprivation by participating centre – Ordered by median national decile within each centre



• Median △ — △ Inter Quartile Range

The 2020 NHS year ran from 01 April 2020 to 31 March 2021

#### 8.6 Preoperative Visual Acuity (VA)

From the 172,320 eligible cataract operations a preoperative VA was recorded for 122,335 (71.0%) operations and missing for 49,985 (29.0%) operations, of which 718 (0.4% of all operations) had a Pin Hole VA (PHVA) measurement and no Corrected Distance VA (CDVA) or Uncorrected Distance VA (UDVA) operations.

There was wide variation in the percentage of eyes with a preoperative VA by contributing centre, where 32 (23.9%) centres had <50% of eyes with preoperative VA data (including 3 centres with no preoperative VA data), for 61 (45.5%) centres more than 80% of eyes had a preoperative VA and for 29 (21.6%) centres more than 95% of eyes had a preoperative VA, Figure 4 (page 27).

For comparison, the overall percentages of eyes with a preoperative VA were 92.5%, 91.6%, 89.9% and 85.6% for the 2016, 2017, 2018 and 2019 NHS years respectively. The percentage of eligible operations with a preoperative VA for contributing centres and NHS years is in Appendix 14 (page 105).

From the 122,335 eyes with a preoperative VA measurement, data for 13 operations from one centre are excluded from the estimate of preoperative vision due to the centres having <50 eligible operations with a preoperative VA measurement.

Available for assessment of preoperative vision are 122,322 eligible operations from 130 centres. The VA measurement was CDVA in 86,959 (71.1%) eyes, UDVA in 33,506 (27.4%) eyes and in 1,857 (1.5%) eyes the CDVA measurement was the same as the UDVA measurement.

The median preoperative VA was 0.50 LogMAR units (range; -0.30 – NPL) (6/19 Snellen Equivalent); where 4,488 (3.7%) eyes were CF, 3,648 (3.0%) eyes were HM, 970 (0.8%) eyes were PL and 75 (<0.1%) eyes were NPL. The median preoperative VA was 0.50 LogMAR units for each grade of surgeon.

The preoperative VA was 0.30 LogMAR units (6/12) or better for 44,112 (36.1%) eyes, 0.60 LogMAR units (6/24) or better for 86,389 (70.6%) eyes and 1.0 LogMAR units (6/60) or better for 107,679 (88.0%) eyes.

There was variability in the preoperative VA between contributing centres, where for 46 (35.4%) centres the median preoperative VA was 0.50 LogMAR and the range in the centres median preoperative VA was 0.30 – 1.00 LogMAR, Figure 5 (page 27). For 117 (90%) centres, the median preoperative VA was between 0.40 and 0.60 LogMAR.

Deprivation is recognised as an influential factor on the ability of individuals to access care for a variety of conditions. Here we have used preoperative VA as a proxy for cataract severity to assess whether deprivation is (or is not) related to timely access to surgery before symptoms of vision loss become advanced. On this basis variation is observed across the Index of Multiple Deprivation (IMD) as demonstrated on Figure 6 (page 28) and Table 2 (page 28), where there is a statistically significant association (p < 0.001) between higher levels of deprivation and worse preoperative VA, for example 24.5% of the patients in the most deprived decile (decile 1) had a preoperative VA of  $\geq$ 1.00 LogMAR, compared to 13.4% of patients in the least deprived decile (decile 10).

For 20,113 patients who had both eyes undergo cataract surgery during the 2020 NHS year with a preoperative VA measurement for both eyes (excluding immediate sequential bilateral cataract surgery), the mean presenting VA was 0.15 LogMAR units worse (95% CI: 0.14 to 0.16 LogMAR) for the first treated eye than for the second treated eye (means = 0.59 (6/23) and 0.44 LogMAR (6/17) respectively, p < 0.001). This confirms that first eye surgery is generally undertaken at a more advanced stage of cataract than second eye surgery.

Of the 1,243 patients who had immediate sequential bilateral cataract surgery, 1,045 (84.1%) had a preoperative VA measurement for both eyes where the median difference in the VA between right and left eyes was 0.00 LogMAR units and the inter quartile range was -0.12 to +12 LogMAR units.

Figure 4: The percentage of cataract operations supplied to the audit with a valid preoperative VA by participating centre – Ordered by the percentage of operations with preoperative VA data

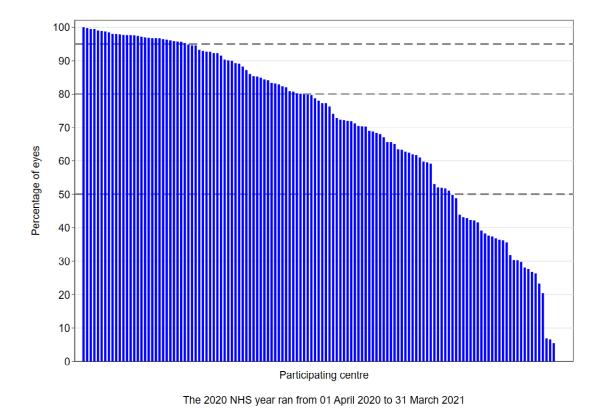
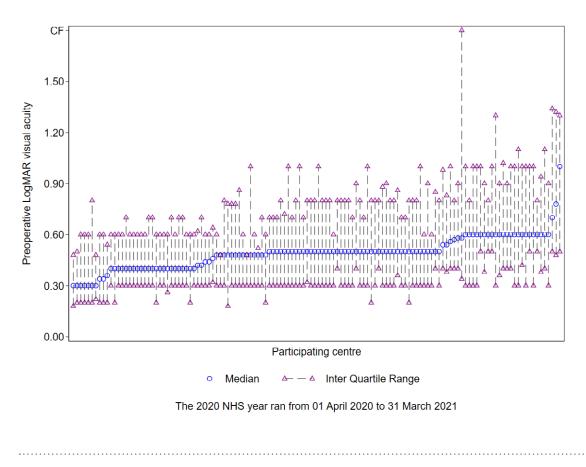
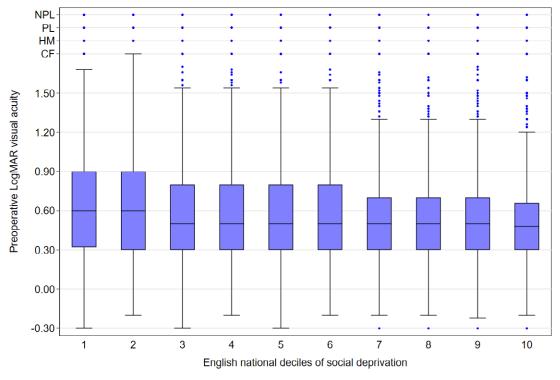


Figure 5: Median and IQR for preoperative VA by participating centre – Ordered by median preoperative VA







The 2020 NHS year ran from 01 April 2020 to 31 March 2021

Table 2: Preoperative visual acuity and social deprivation where decile 1 is the most deprived decile and decile 10 the least deprived

|                              |        | Preoperative LogMAR visual acuity |              |              |       |  |  |
|------------------------------|--------|-----------------------------------|--------------|--------------|-------|--|--|
| Decile of social deprivation | Ν      | <0.30                             | 0.30 - <0.60 | 0.60 - <1.00 | ≥1.00 |  |  |
| 1 (most deprived)            | 7,469  | 10.9                              | 37.0         | 27.6         | 24.5  |  |  |
| 2                            | 7,105  | 12.2                              | 37.5         | 26.3         | 24.0  |  |  |
| 3                            | 7,322  | 14.0                              | 40.3         | 25.1         | 20.6  |  |  |
| 4                            | 8,137  | 14.0                              | 40.1         | 25.7         | 20.2  |  |  |
| 5                            | 8,487  | 15.0                              | 40.9         | 25.7         | 18.4  |  |  |
| 6                            | 8,892  | 15.0                              | 42.8         | 24.7         | 17.5  |  |  |
| 7                            | 9,329  | 16.4                              | 43.6         | 24.2         | 15.8  |  |  |
| 8                            | 9,652  | 16.1                              | 44.1         | 24.3         | 15.5  |  |  |
| 9                            | 9,630  | 16.1                              | 45.9         | 23.3         | 14.7  |  |  |
| 10 (least deprived)          | 9,638  | 17.8                              | 47.4         | 21.4         | 13.4  |  |  |
| Overall                      | 85,661 | 14.9                              | 42.3         | 24.7         | 18.1  |  |  |

#### 8.7 Ocular co-pathologies and risk indicators

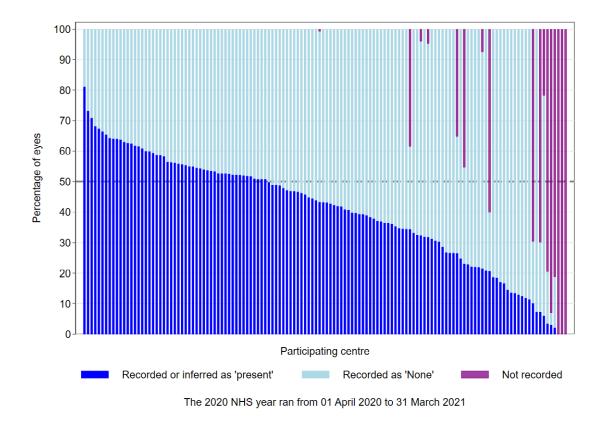
The presence or absence of an ocular co-pathology or known risk indicator was recorded for 90.9% of operated eyes and was not recorded for 9.1% of eyes. Assuming that the not recorded ocular co-pathology or known risk indicators are 'none', then an ocular co-pathology or known risk indicator was present in 67,272 (39.0%) eyes and recorded as absent (or not recorded) for 105,048 (61.0%) eyes.

The percentage of eyes with ocular co-pathology or known risk indicator data recorded (any, none or not recorded) varied between centres, where the percentage of eyes reported to have any ocular co-pathology ranged between centres from 0.0% to 81.2%, and 51 (38.1%) centres had >50% of operated eyes with an ocular co-pathology, Figure 7 (page 29). Three centres had all operations submitted with a not recorded ocular co-pathology.

The most commonly recorded ocular co-pathologies were Corneal pathology, age-related macular degeneration, glaucoma and unspecified 'other', which were recorded for 8.7%, 8.1%, 5.9% and 5.8% of operations respectively, Figure 8 (page 30). Consultant surgeons performed >60% of operations with each individual co-pathology, Figure 9 (page 30).

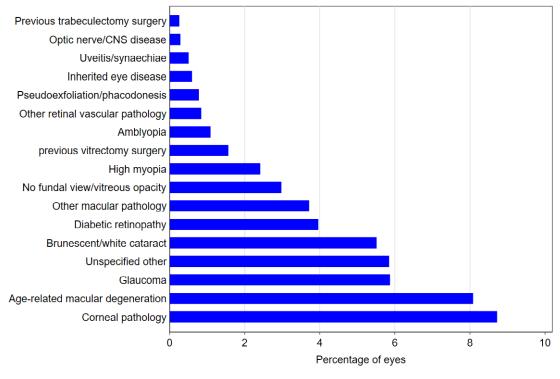
Variation between centres in the percentage of eyes with any ocular co-pathology or known risk indicator exists in each NHS year, Appendix 12 (page 97). The percentage of eyes with each of the individual ocular co-pathology or known risk indicators has been fairly consistent for some co-pathologies and variable for others across the 2016 – 2020 NHS years, with distinct differences between 2016-2018 and the 2019 and 2020 NHS years, Appendix 13 (page 104).

# Figure 7: The percentage of cataract operations supplied to the audit according to recorded ocular co-pathology or known risk indicator data by participating centre – Ordered by the percentage of operations with a recorded ocular co-pathology or know risk factor



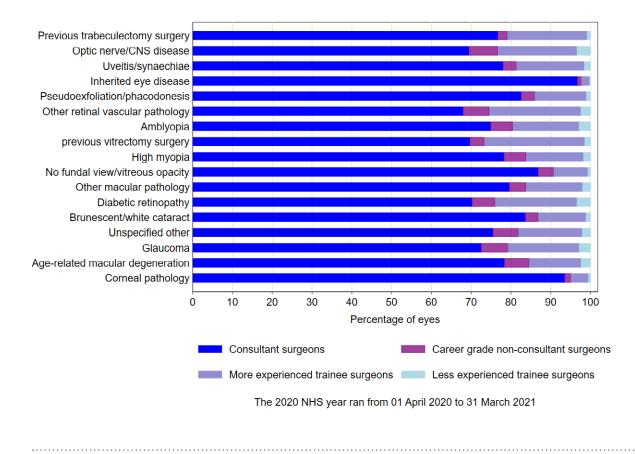
#### NOD Audit Sixth Annual Report - Fifth Prospective Audit Year Report

Figure 8: The percentage of cataract operations supplied to the audit with individual ocular co-pathologies or known risk indicator



The 2020 NHS year ran from 01 April 2020 to 31 March 2021

Figure 9: The percentage of cataract operations supplied to the audit with individual ocular co-pathologies or known risk indicator by grade of surgeon



#### 8.8 Operation characteristics

Phacoemulsification  $\pm$  IOL was performed in all eligible cataract operations and for 162,422 (94.3%) operations was the only operative procedure performed. Phacoemulsification  $\pm$  IOL was combined with one other procedure in 8,902 (5.2%) operations, with  $\geq$ 2 other procedures in 996 (0.6%) operations.

The most frequently performed operative procedures combined with phacoemulsification ± IOL were insertion of pupil ring expander, insertion of iris hooks and anterior vitrectomy, which were performed in 1.5%, 0.6% and 0.6% of operations respectively. A full list of operative procedures combined with phacoemulsification ± IOL is in Appendix 17 (page 125).

#### 8.9 Operative complications

One or more intraoperative complication was recorded for 3,268 (1.9%) operations, with the most frequently recorded being PCR which was reported for 1,567 (0.9%) operations. The 'any' intraoperative complication rates were higher for the less experienced grade of surgeons, while the rates for individual intraoperative complications were similar across the grades of surgeon except for PCR, which were higher for the less experienced grades, Table 3 (page 32).

#### Table 3: Recorded Intraoperative complications for cataract operations for the 2020 NHS year by grade of surgeon

| Intraoperative complications<br>N (column %) | Consultant surgeons<br>(N = 141,267) | Career grade<br>non-consultant surgeons<br>(N = 7,181) | More experienced<br>trainee surgeons<br>(N = 20,806) | Less experienced<br>trainee surgeons<br>(N = 3,066) | Total<br>(N = 172,320) |
|--|--------------------------------------|--|--|---|------------------------|
| Eyes with no complications                   | 139,227 (98.6)                       | 6,989 (97.3)   | 19,937 (95.8)  | 2,899 (94.6)  | 169,052 (98.1)         |
| Eyes with ≥1 complication                    | 2,040 (1.4)                          | 192 (2.7)  | 869 (4.2)  | 167 (5.4)   | 3,268 (1.9)            |
| Recorded intraoperative<br>complications*    |                                      |  |  |   |                        |
| Posterior capsular rupture                   | 954 (0.7)                            | 71 (1.0)   | 435 (2.1)  | 107 (3.5)   | 1,567 (0.9)            |
| Zonule rupture – no vitreous loss            | 243 (0.2)                            | 19 (0.3)   | 103 (0.5)  | 12 (0.4)  | 377 (0.2)              |
| Corneal epithelial abrasion                  | 139 (0.1)                            | 31 (0.4)   | 45 (0.2)   | 5 (0.2)   | 220 (0.1)              |
| Torn iris / damage from the phaco            | 121 (<0.1)                           | 8 (0.1)  | 45 (0.2)   | 8 (0.3)   | 182 (0.1)              |
| Anterior capsular tear                       | 88 (<0.1)                            | 9 (0.1)  | 59 (0.3)   | 3 (0.1)   | 159 (0.1)              |
| Endothelial damage / Descemet's tear         | 64 (<0.1)                            | 10 (0.1)   | 22 (0.1)   | 4 (0.1)   | 100 (<0.1)             |
| Lens exchange required / other IOL problems  | 62 (<0.1)                            | 5 (<0.1)   | 19 (0.1)   | 4 (0.1)   | 90 (<0.1)              |
| Iris prolapse                                | 44 (<0.1)                            | 5 (<0.1)   | 36 (0.2)   | 0 (0.0)   | 85 (<0.1)              |
| Iris trauma                                  | 40 (<0.1)                            | 10 (0.1)   | 18 (<0.1)  | 4 (0.1)   | 72 (<0.1)              |
| Corneal oedema                               | 38 (<0.1)                            | 4 (<0.1)   | 27 (0.1)   | 2 (<0.1)  | 71 (<0.1)              |
| Hyphaema                                     | 37 (<0.1)                            | 4 (<0.1)   | 11 (<0.1)  | 3 (0.1)   | 55 (<0.1)              |
| Choroidal / suprachoroidal<br>haemorrhage    | 26 (<0.1)                            | 2 (<0.1)   | 9 (<0.1)   | 0 (0.0)   | 37 (<0.1)              |
| Phaco burn / wound problems                  | 17 (<0.1)                            | 0 (0.0)  | 3 (<0.1)   | 3 (0.1)   | 23 (<0.1)              |
| Unspecified other**                          | 359 (0.3)                            | 35 (0.5)   | 124 (0.6)  | 28 (0.9)  | 546 (0.3)              |

Posterior capsular rupture (PCR) is defined for the purposes of the National Cataract Audit as "posterior capsule rupture with or without vitreous prolapse or zonule rupture with vitreous prolapse" and abbreviated simply as PCR. Retained lens fragments in the vitreous implies PCR. \*Each operation can have more than one intraoperative complication recorded. \*\*The unspecified other included two vitreous haemorrhages, 19 instances when the operation was cancelled and 19 decentred IOLs.

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#### 8.10 Postoperative complications

In order to submit postoperative complication data to the audit there needs to be enough time after the operation for patients to receive postoperative follow-up. Therefore, the audit reports on operations performed in the first 10 months of the NHS year (before 31 January). This allows the potential for two months' follow-up.

Of the 172,320 eligible cataract operations submitted to the audit, 132,415 (76.8%) operations from 132 centres were performed before 31 January 2021 and had the potential for two months' follow-up. Two centres had no operations in the postoperative qualifying time period and data from four centres (93 operations) are excluded due to these centres having <50 eligible operations in the postoperative qualifying time period. This left 132,322 eligible operations from 128 centres available for postoperative complication results. No postoperative complication data was recorded for 91,598 (69.2%) operations, for 35,457 (26.8%) operations 'none' was recorded as the postoperative complication, and 5,267 (4.0%) operations had at least one postoperative complication recorded. The variation in data likely reflects differences in cataract surgery patient pathways across centres.

The percentage of operations with a postoperative complication record (none or a complication), or no postoperative complication record, varied significantly between the participating centres, with 15 centres having no records of any specific postoperative complications, Figure 10 (page 34).

The most frequently recorded postoperative complications were postoperative cystoid macular oedema, uveitis and corneal oedema / striae / haze which were the only individual postoperative complications recorded for >0.5% of operations, Figure 11 (page 34).

Figure 10: The percentage of cataract operations supplied to the audit with and without postoperative complication data by participating centre – Ordered by the percentage of operations with an actual postoperative complication

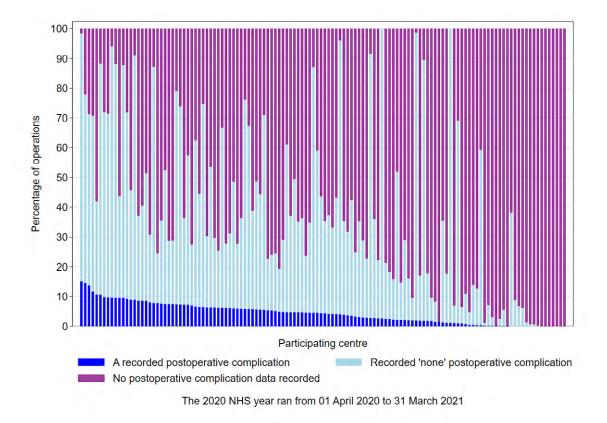
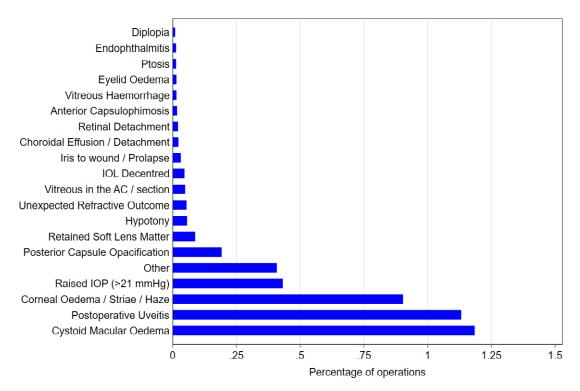


Figure 11: The percentage of cataract operations supplied to the audit with each individual postoperative complication





#### 8.11 Postoperative visual acuity

From the 172,320 eligible operations from 134 centres, 132,415 (76.8%) operations were performed before 31 January 2021 and had the potential for two months' follow-up. Two centres had no operations in the postoperative qualifying time period and data from four centres (93 operations) are excluded due to these centres having <50 eligible operations in the postoperative qualifying time period. This left 132,322 eligible operations from 128 centres available for the assessment of the percentage of eyes with a postoperative VA measurement. Of these, a postoperative visual acuity was recorded for 79,174 (59.8%) eyes and missing for 53,148 (40.2%) eyes. For comparison the percentage of eyes with a postoperative VA were 76.4%, 76.8%, 75.7% and 72.6% for the 2016, 2017, 2018 and 2019 NHS years respectively. The percentage of eyes with a postoperative VA for contributing centres and each audit year is in Appendix 14 (page 105).

There was wide variation in the percentage of eyes with postoperative VA by contributing centre; for 38 (29.7%) centres <50% of eyes had a postoperative VA, for 41 (32.0%) centres >80% of eyes had a postoperative VA and for 7 (5.5%) centres >95% of eyes had a postoperative VA, Figure 12 (page 36) and Appendix 7 (page 76). Influencing this result are operations performed in the latter part of the audit period where not all patients could have sufficient follow-up for all postoperative results to be available. Another factor is the move to patient initiated follow-up (PIFU) as a routine practice following cataract surgery with patients then attending community optometrists under the General Ophthalmic Services (GOS) contract, or more constructed arrangements which still involve discharge to the community for a commissioned follow up assessment. In either case, post-operative measurements are not always sent back to the hospitals for recording on the hospitals' EMR system.

Overall, the percentage of eyes with postoperative VA data was 61.3% for first treated eyes and 57.4% for second treated eyes. The percentage of first and second treated eyes with postoperative VA data varied between centres, where 104 (81.3%) centres had a higher percentage of first treated eyes with postoperative VA data than second treated eyes, for 31 (24.2%) centres this difference was >10% points and for five centres >25% points, Appendix 8 (page 82).

From the 79,174 eyes with a postoperative VA measurement, data from eight centres (196 operations) are excluded from the estimate of postoperative vision due to the centres having <50 eligible operations with a postoperative VA measurement. Eligible for assessing postoperative vision are 78,978 operations from 118 contributing centres.

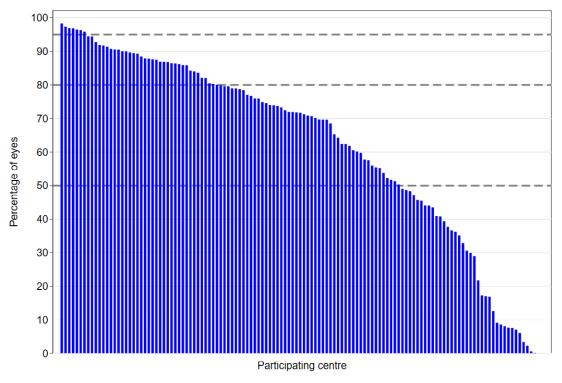
For the 78,978 eyes eligible for postoperative VA assessment, the best measurement was CDVA in 31,601 (40.0%) eyes, UDVA in 19,961 (25.3%) eyes, PHVA in 12,474 (15.8%) eyes; the best measurement was the same for two of the assessment methods for 14,156 (17.9%) eyes and the same for all three methods in 786 (1.0%) eyes.

The median postoperative VA was 0.10 LogMAR units (range; -0.30 – NPL) (6/7.5 Snellen equivalent); where 261 (0.3%) eyes were CF, 161 (0.2%) eyes were HM, 25 (<0.1%) eyes were PL and 17 (<0.1%) eyes were NPL.

The postoperative VA was 0.30 LogMAR units (6/12) or better for 71,852 (91.0%) eyes, 0.60 LogMAR units (6/24) or better for 76,340 (96.7%) eyes and 1.0 LogMAR units (6/60) or better for 78,053 (98.8%) eyes.

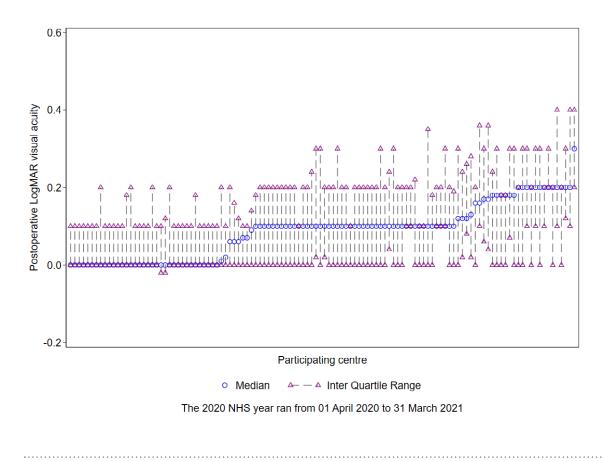
The postoperative VA was stable across participating centres, although there was some variation where the median postoperative VA was 0.00 LogMAR for 35 (29.7%) centres, 0.10 LogMAR for 47 (39.8%) centres and 0.20 LogMAR for 13 (11.0%) centres. The overall median postoperative VA for centres was 0.10 LogMAR with a range in the centres median postoperative VA of 0.00 – 0.30 LogMAR, Figure 13 (page 36).

Overall, VA outcomes were as expected, though data completeness remains an area for improvement and results for centres with small numbers will be subject to significant statistical uncertainty and potential bias. Figure 12: The percentage of cataract operations supplied to the audit with a valid postoperative VA by participating centre – Ordered by the percentage of eligible operations with a postoperative VA measurement



The 2020 NHS year ran from 01 April 2020 to 31 March 2021

## Figure 13: Median and IQR for postoperative VA by participating centre – Ordered by median postoperative VA



#### 8.12 Change in visual acuity

Of the 132,415 eligible cataract operations submitted to the audit performed before 31 January 2021. Two centres had no operations in the postoperative qualifying time period and data from four centres (93 operations) are excluded from change in VA results due these centres having <50 eligible operations in the qualifying time period. This left 132,322 eligible operations from 128 centres considered for the reporting of the percentage of eyes with change in VA data, where 62,697 (47.4%) eyes had both a preoperative VA and a postoperative VA measurement. Four centres had no eyes with both a postoperative and preoperative VA, 65 (50.8%) centres had <50% of eligible eyes with both VA measurements and 20 (15.6%) centres had >80% of eyes with both VA measurements, Figure 14 (page 38). For comparison, the percentages of eyes with change in VA data were 73.1%, 72.6%, 70.9% and 67.5% for the 2016, 2017, 2018 and 2019 NHS years respectively. Data completeness for this measure has decreased and was probably severely affected by service disruption during the 2020 NHS year. The audit will continue to encourage centres to collect and record both preoperative and postoperative VA to allow for determination of this measure.

From the 62,697 eyes with both a preoperative and postoperative VA measurement, data from 13 centres (333 operations) are excluded from the change in VA analysis due to the centres having <50 eligible operations with both a preoperative and a postoperative VA measurement. Eligible for change in VA analysis are 62,364 operations from 111 participating centres.

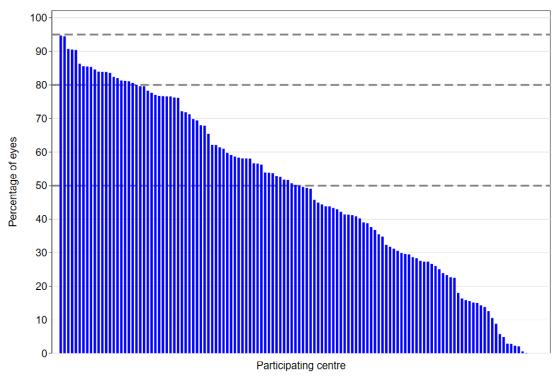
The median change in VA from baseline was a 0.40 LogMAR gain (IQR; 0.20 – 0.60 gain). A loss of >0.10 LogMAR (-1 line) was experienced by 1,795 (2.9%) eyes, a change of ±0.10 LogMAR (±1 line) by 4,553 (7.3%) eyes and a gain of >0.10 LogMAR (+1 line) by 56,016 (89.8%) eyes. The change in VA was stable between the participating centres, Figure 15 (page 38). Overall, the majority of cataract surgery operations resulted in a significant improvement in visual acuity for patients, as illustrated in Figure 16 (page 39) where for all 111 centres assessed for change in VA, the median postoperative VA was better than the median preoperative VA.

76.5% of eyes with a preoperative VA of 0.00 LogMAR or better had a postoperative VA of 0.00 LogMAR or better and 97.9% of eyes with a preoperative VA of 0.30 LogMAR or better had a postoperative VA of 0.30 LogMAR or better.

Eyes that had an ocular co-pathology or experienced an intraoperative complication or PCR during surgery had worse postoperative VA than eyes that did not have any of these problems. >90% of eyes without these problems had a postoperative VA of 0.30 LogMAR (6/12 Snellen) or better, Table 4 (page 40).

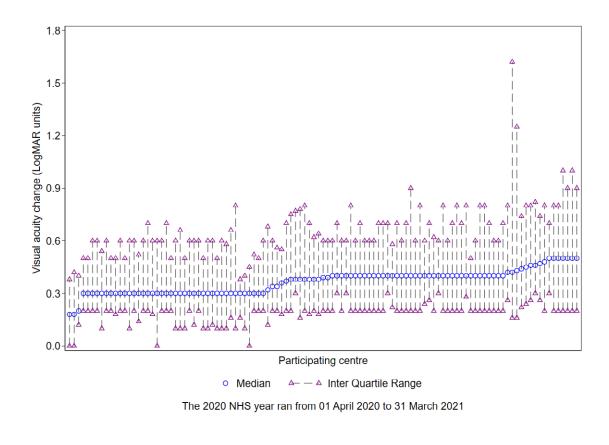
The percentage of operations from each participating centre with preoperative VA, postoperative VA and both pre- and postoperative VA data varied between participating centres, Appendix 7 (page 76).

participating centres and fully qualified surgeons (consultants and career grade non-consultants) with at least 50 eligible operations. The case complexity adjusted PCR graph for the surgeons whose result will be available on the audit website is in Figure 19 (page 50) for 136,524 operations performed in 129 participating centres by 576 surgeons. No surgeons were outliers in the 2020 NHS year and results for trainee surgeons are not displayed publicly. Figure 14: The percentage of eligible operations with both a preoperative and a postoperative VA measurement by participating centre – Ordered by the percentage of operations with both VA measurements

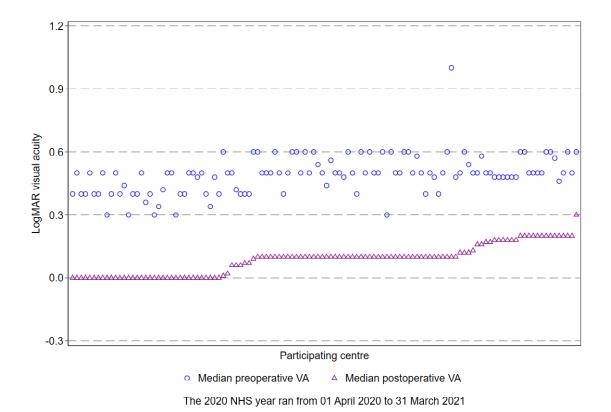


The 2020 NHS year ran from 01 April 2020 to 31 March 2021

Figure 15: Median and IQR for change in VA by participating centre – Ordered by median change in VA



# Figure 16: Median preoperative and postoperative VA by participating centre – Ordered by median postoperative VA



NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

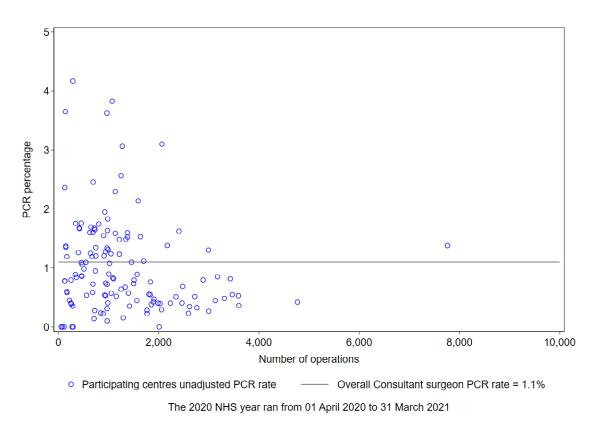
#### Table 4: Postoperative VA by preoperative VA, ocular co-pathology / known risk indicator and intraoperative complications

|  | Postoperative LogMAR visual acuity |                          |                           |                           |                           |
|--|------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| Percentages are row %<br>(Approximate Snellen) | ≤0.00<br>(6/6 or better)           | ≤0.18<br>(6/9 or better) | ≤0.30<br>(6/12 or better) | ≤0.60<br>(6/24 or better) | ≤1.00<br>(6/60 or better) |
| All eyes (N = 62,364)                          | 47.2                               | 72.1                     | 91.3                      | 96.8                      | 98.9                      |
| Preoperative LogMAR VA<br>(Snellen)            |                                    |                          |                           |                           |                           |
| ≤0.00 (N = 1,379)                              | 76.5                               | 90.3                     | 99.2                      | 99.7                      | 99.8                      |
| ≤0.18 (N = 4,738)                              | 65.2                               | 90.7                     | 98.9                      | 99.9                      | 99.9                      |
| ≤0.30 (N = 22,208)                             | 55.9                               | 81.8                     | 97.9                      | 99.7                      | 99.9                      |
| ≤0.60 (N = 43,826)                             | 50.2                               | 76.5                     | 95.5                      | 99.4                      | 99.9                      |
| ≤1.00 (N = 54,753)                             | 48.7                               | 74.2                     | 93.5                      | 98.4                      | 99.7                      |
| Ocular co-pathology / risk<br>indicator        |                                    |                          |                           |                           |                           |
| No (N = 32,457)                                | 55.5                               | 80.5                     | 96.1                      | 99.0                      | 99.7                      |
| Yes (N = 29,907)                               | 38.1                               | 62.9                     | 86.1                      | 94.4                      | 97.9                      |
| Intraoperative complications                   |                                    |                          |                           |                           |                           |
| No (N = 61,080)                                | 47.6                               | 72.6                     | 91.7                      | 97.0                      | 99.0                      |
| Yes (N = 1,284)                                | 27.4                               | 48.0                     | 73.8                      | 86.9                      | 94.2                      |
| PCR  |                                    |                          |                           |                           |                           |
| No (N = 61,696)                                | 47.4                               | 72.4                     | 91.6                      | 96.9                      | 98.9                      |
| Yes (N = 668)                                  | 24.1                               | 42.4                     | 69.3                      | 83.4                      | 92.1                      |

#### 8.13 Case complexity adjusted PCR results

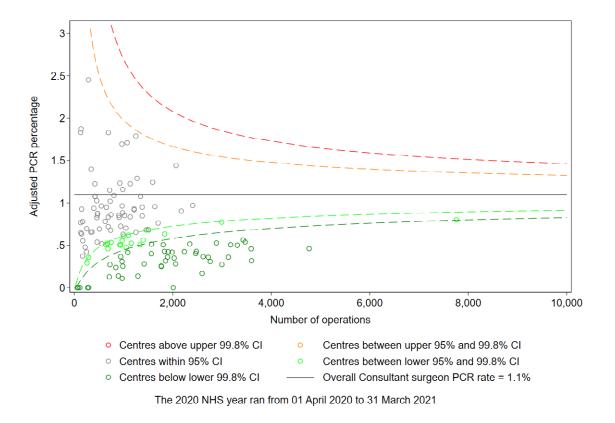
Unadjusted for case complexity PCR rates for the 134 participating centres are shown in Figure 17 (page 41) and an adjusted for case complexity graph in Figure 18 (page 42). No participating centres were outliers in the 2020 NHS year. Details of the unadjusted and adjusted for case complexity PCR results for the 134 participating centres is in Appendix 9 (page 88), along with a case complexity index which is the overall predicted probability of PCR for all the cases reported for each centre. The case complexity adjusted PCR rate for contributing centres in the 2016 – 2020 NHS years is in Appendix 15 (page 112).

Displayed on the public section of the <u>audit website</u> will be case complexity adjusted PCR results for participating centres and fully qualified surgeons (consultants and career grade non-consultants) with at least 50 eligible operations. The case complexity adjusted PCR graph for the surgeons whose result will be available on the audit website is in Figure 19 (page 42) for 136,524 operations performed in 129 participating centres by 576 surgeons. No surgeons were outliers in the 2020 NHS year and results for trainee surgeons are not displayed publicly.

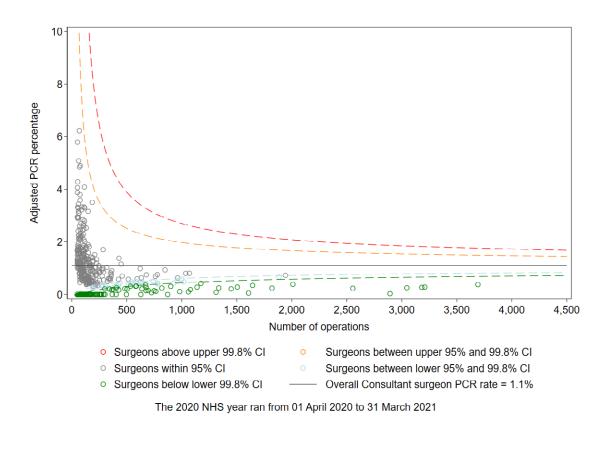


#### Figure 17: Unadjusted for case complexity PCR funnel plot for participating

Figure 18: Adjusted for case complexity PCR funnel plot for participating centres with confidence intervals (CI)



# Figure 19: Adjusted for case complexity PCR funnel plot for fully qualified surgeons with confidence intervals (CI)



#### 8.14 Case complexity adjusted visual loss results

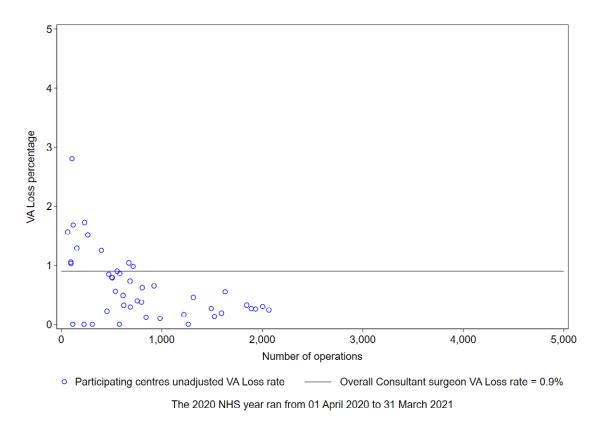
Of the 172,320 eligible operations, 132,415 operations were performed up to 31 January 2021 and had the potential for two months' follow-up. Two centres had no operations in the postoperative qualifying time period and data from four centres (93 operations) are excluded from the postoperative VA Loss results due these centres having <50 eligible operations in the qualifying time period. This left 132,322 eligible operations from 128 centres with at least 50 eligible operations in the postoperative qualifying time period. From these, 35,262 (26.6%) operations from 44 centres were performed in centres were a preoperative and postoperative VA was recorded for at least 60% of the operations and in at least 50 operations per centre.

An unadjusted for case complexity funnel plot of VA Loss is shown in Figure 20 (page 44) and an adjusted for case complexity funnel plot in Figure 21 (page 44). Details of the unadjusted and adjusted for case complexity VA Loss results is in Appendix 9 (page 88), along with a case complexity index which is the overall predicted probability of VA Loss for the cases reported by each centre. The case complexity adjusted VA Loss rate for contributing centres for the 2016 – 2020 NHS years is in Appendix 15 (page 112). Centres with >40% operations without VA measurements and centres with <50 operations with both a preoperative and postoperative VA have not been reported as the estimates would be too unreliable.

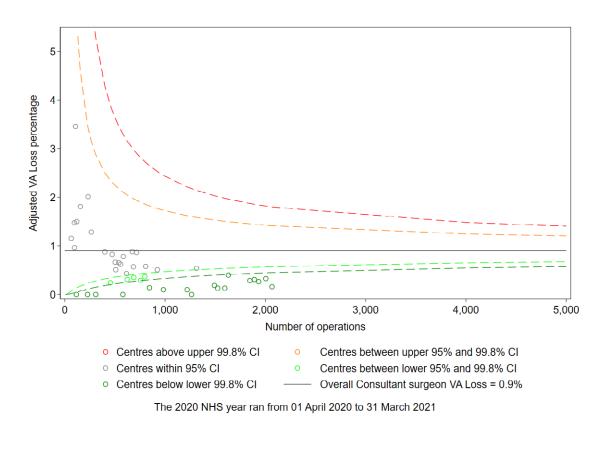
Displayed on the public section of the <u>audit website</u> will be case complexity adjusted VA Loss results for participating centres and fully qualified surgeons (consultants and career grade non-consultants) with sufficient data for a result to be produced. The case complexity adjusted VA Loss graph for the surgeons whose result will be available on the audit website is in Figure 22 (page 45) for 32,502 operations performed in 75 participating centres by 119 surgeons. No surgeons were outliers in audit year four and results for trainee surgeons are not displayed publicly.

The actual observed VA Loss rate for the year four VA Loss sample was 0.42%, which is lower than the percentage rate used for complexity adjustment. This is not an unexpected finding, as there is variation between centres in the percentage of reported operations, percentage of operations with both preoperative postoperative VA, and service disruptions due during the 2020 NHS year all of which are necessary for visual loss estimation.

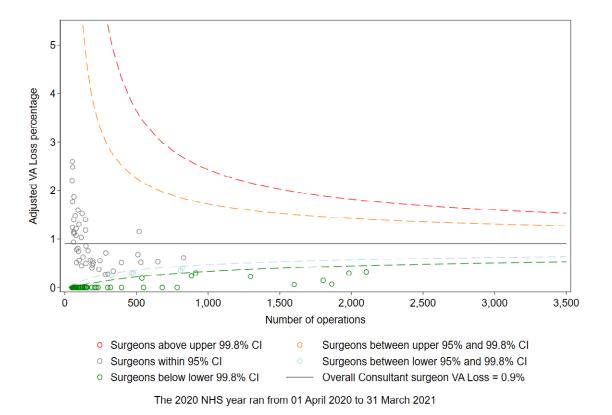




# Figure 21: Adjusted for case complexity VA Loss funnel plot for participating centres with confidence intervals (CI)







NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

## 9. Summary of Key Points

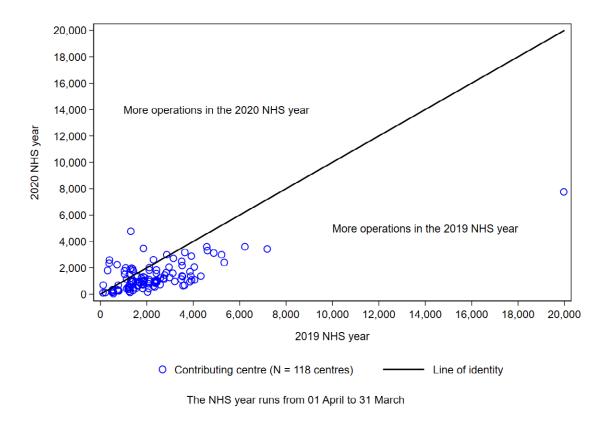
This is the fifth annual report from The Royal College of Ophthalmologists' National Ophthalmology Database Audit to report results for prospectively collected data on cataract surgery for a one-year period, and the first to do so for the NHS year (01 April to 31 March).

- Over 72% of all cataract operations performed in England and Wales are now captured by the audit with strong interest in participation being expressed from both Northern Ireland and Scotland. Good progress has been made in terms of expanding the number of centres to above 100 centres in successive audit years, with 134 centres in this report, 74 English NHS trusts, four Welsh Local Health Boards, eight independent sector treatment providers reporting 54 sites, one centre from Guernsey and one private provider
- 2. Named surgeon and centre results are available on the NOD Audit website
- 3. Established markers of surgical quality PCR and VA Loss are used as metrics for risk-adjusted outcomes. PCR is the most frequent intraoperative complication and is associated with increased postoperative loss of vision. VA Loss is intended to capture all eyes where there has been an adverse outcome, whether or not associated with PCR
- 4. Overall, PCR has reduced by around 50% and VA Loss by 38% since 2010, Table 1 (page 9). The reduction in PCR complications in cataract surgery since 2010 equates to approximately 4,500 fewer complications annually across the NHS. Cost savings from avoided PCR complications are estimated at approximately £2.5 million per annum and the avoidance of VA Loss can have multiple benefits for a patient due to the importance of vision in daily life
- 5. This is the fifth prospective cataract audit report to include the reporting of named centre results for all submitted operations with results for named consultant surgeons appearing on the <u>NOD</u> <u>website</u>. For the centres included in this report, outcomes have been found to be within expectation, i.e. risk adjusted outcomes within 3SD of the consultant average. This reflects the high-quality outcomes for patients at participating centres
- **6.** Case ascertainment overall, at most contributing centres, is high although there remain some notable exceptions (Appendix 6, page 69 and Appendix 12, page 97)
- 7. Data completeness of reported surgery is excellent for PCR (100%), though less so for VA, particularly for postoperative VA. This is an area where many centres could do better, with a few centres having poor VA data returns following surgery. The collection of this important postoperative data could generally be improved (Appendix 7, page 76)
- 8. Quality improvement drivers in this audit take the form of risk-adjusted results for surgical complications and vision loss from before to after surgery. These key measures are risk- adjusted, to acknowledge case complexity and provide credit to surgeons and centres undertaking complex work. Without conscientious completion of risk indicator data, surgeons and centres run the risk of not being given credit for the complexity of the work undertaken. An important message for participants to take on board both when planning surgery and when recoding their patient notes
- 9. The RCOphth NOD Audit is aligned to, and is driving, the NHS digital agenda in the move toward electronic working in ophthalmology. This is exemplified by the 152 centres who have submitted data for at least 50 eligible operations in one of five NHS years' results which are listed in appendices. Data from 127 of these centres was submitted from EMR systems and from inhouse databases for the remaining 27 centres. In addition, a further four centres have submitted data for <50 eligible operations and indicated they will be submitting sufficient cases in future</p>

audit years. From the centres that have not yet signed-up to participate, it is known that many have not yet adopted an EMR, and some are implementing one which will then enable national audit participation. Centres in Wales and Scotland are expecting to be provided with an EMR through national procurement projects, and EMR implementation is underway in Northern Ireland (Appendix 2, page 55). The majority of these centres collect their data as part of routine clinical activity with no additional effort required for submission of data to the audit. Furthermore, the EMR audit tools allow for real time tracking of adverse surgical events locally which facilitates monitoring of complications by centres and surgeons. In the event of an adverse signal becoming apparent, timely corrective action can be taken to avoid unnecessary harm to patients and avoid centres or surgeons being identified as outliers in national audit reports going forward.

## 10. Conclusions

- The current report provides assurance that delivery of NHS and publicly funded cataract surgery in the 134 participating centres is of overall good quality
- It is encouraging to note that since 2010, when this work feeding back cataract surgical results to centres and surgeons began, there has been around a 50% overall reduction in PCR complications and a 38% reduction in VA Loss. Progress with quality improvement thus far is providing obvious benefits to over 4,500 patients annually in terms of reduced morbidity as well as significant NHS cost savings from avoided complications of around £2.5 million annually
- In the forthcoming period, it is planned to further extend the audit coverage to include all traditional NHS centres, and more of the independent providers of cataract surgical care. All providers of NHS and publicly funded care are accountable to the public for the quality of services they provide. It is pleasing to note that eight independent sector treatment providers with 54 sites have joined the audit and are included in the current report
- Further outcomes are being considered in order to provide a broader, more patient focused and more easily interpreted assessment of NHS service quality in cataract care
- The results in this report for the 2020 NHS year were influenced by service disruptions and periods of cancelled practice due to the COVID 19 pandemic. This disruption lead to a reduced number of operations data was submitted for, with the majority of centres performing fewer operations in the 2020 NHS than the 2019 NHS year due to the COVID 19 pandemic, as illustrated for the 118 centres who have provided data for at least 50 eligible operations in both NHS years, Figure 23 (page 49)
- The service disruption during the 2020 NHS year affected different months of the 2020 NHS year, with April and May most affected, Figure 24 (page 49). Another difference observed in the 2020 NHS year was a higher than previous percentage of eligible cataract operations performed in the months of September to December than in the 2016, 2017, 2018 and 2019 NHS years, Table 5 (page 50)



#### Figure 23: The number of eligible operations submitted by 118 centres for the 2019 and 2020 NHS years

Figure 24: The percentage of eligible cataract operations performed in each month of the 2020 NHS year

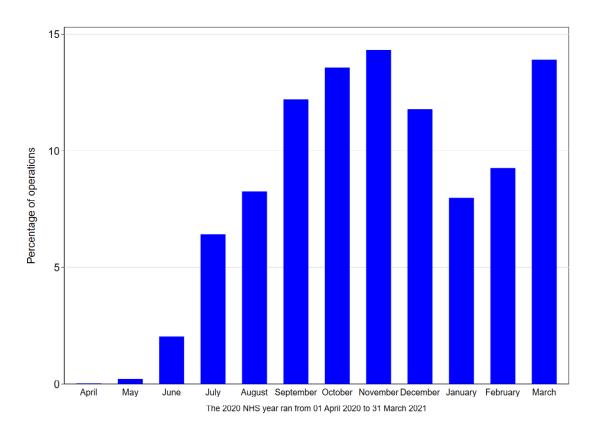


Table 5: The percentage of eligible operations performed in each month of the NHS year for the 2016 to 2020 NHS years

|                      | NHS year (01 April to 31 March) |         |         |         |         |
|----------------------|---------------------------------|---------|---------|---------|---------|
|                      | 2016                            | 2017    | 2018    | 2019    | 2020    |
| Number of operations | 194,562                         | 219,077 | 247,535 | 277,749 | 172,320 |
| Month                |                                 |         |         |         |         |
| April                | 7.1                             | 7.1     | 7.7     | 7.5     | 0.0     |
| Мау                  | 7.0                             | 8.1     | 8.1     | 8.0     | 0.2     |
| June                 | 8.0                             | 8.5     | 8.3     | 7.9     | 2.0     |
| July                 | 7.6                             | 7.9     | 8.2     | 8.8     | 6.4     |
| August               | 7.7                             | 8.1     | 7.9     | 7.7     | 8.3     |
| September            | 8.9                             | 8.4     | 7.8     | 8.7     | 12.2    |
| October              | 8.6                             | 9.1     | 9.1     | 9.6     | 13.6    |
| November             | 9.5                             | 9.4     | 9.1     | 9.5     | 14.3    |
| December             | 7.5                             | 7.1     | 7.0     | 7.6     | 11.8    |
| January              | 9.0                             | 9.2     | 9.2     | 9.7     | 8.0     |
| February             | 9.0                             | 8.5     | 8.6     | 8.9     | 9.2     |
| March                | 10.1                            | 8.8     | 9.1     | 6.0     | 13.9    |

## 11. Future of the audit

- The audit relies on the contribution of data and funding from participating centres augmented by donations from industry, and while this continues the RCOphth plan to continue to run the national cataract audit
- The next data extraction planned for May 2022 will form the basis of the sixth prospective annual NOD report, and this will include data from the second NHS year affected by the COVID 19 pandemic. We anticipate that centres who did not participate due to resource issues and service disruption from the COVID 19 pandemic will once again participate
- Electronic data collection for cataract surgery is being implemented in Northern Ireland with participation in the audit from Northern Irish centres commencing once EMR implementation is complete
- National procurement projects are in place in Wales and Scotland to provide centres with an EMR. This will allow participation in the RCOphth NOD audits for all centres in Wales and Scotland
- The RCOphth NOD is committed to further developing the existing patient reported outcome measure (PROM) for cataract surgery, with a feasibility study for PROM integration in the audit being conducted later in 2022
- The RCOphth NOD has launched a national audit for wet age-related macular degeneration with the first submission aligned with the next national cataract audit submission in May 2022.
- The RCOphth NOD have applied for section 251 exemption to allow submission of the patients NHS number which would enable linkage of data from patients treated in multiple centres
- The models used in case complexity adjustment in the audit will be re-fitted during 2022 with the aim to implement these for the data submitted in 2023

## 12. Acknowledgements

We would like to acknowledge the support and guidance we have received from the RCOphth NOD Cataract Audit Advisory Group members, the NOD Steering Group members, the RCOphth Executive Committee, Professional Standards Committee, Informatics and Audit Subcommittee and the Lay Advisory Group. Their guidance has helped us to ensure that the audit has relevance for not only the professional readership but also patients, their relatives and carers. We thank all the members for reviewing this report.

We also acknowledge the support of the hospitals that are participating in the prospective audit and thank our medical and non-medical colleagues for the considerable time and effort devoted to conscientious electronic data collection as they go about caring for their patients. All participating centres are acknowledged in Appendix 2 (page 55) and on the RCOphth <u>NOD audit website</u>.

We acknowledge with thanks the contribution of Professor John Sparrow who provided diligent clinical and academic oversight and leadership of the NOD over many years to bring it to its current stature. It is with gratitude that we remember our friend and colleague Robert Johnston, who sadly died in September 2016. Without his inspirational vision, determination and career long commitment to quality improvement in ophthalmology this work would not have been possible.

## 13. Funding

The RCOphth NOD National Cataract Audit is currently funded through participation fees from centres as well as unrestricted contributions from <u>Alcon</u> and <u>Bausch + Lomb</u>. We are grateful for the donations received from these organisations.

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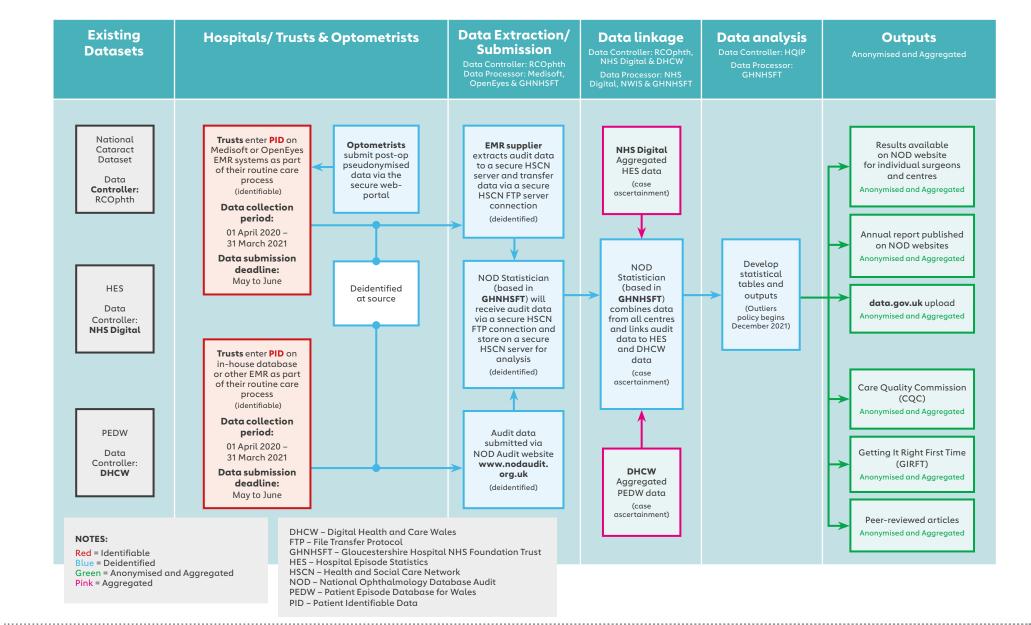
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## Appendix 1: Data Flow

#### National Ophthalmology Database Cataract Audit - Data Flow



## Appendix 2: Cataract surgical centres

| Category                            | Organisation name   | Data collection system | Notes   |
|-------------------------------------|---|------------------------|---|
|                                     | Barking, Havering and Redbridge University Hospitals<br>NHS Trust | Medisoft               |   |
|                                     | Barnsley Hospital NHS Foundation Trust                            | In-house               | Chose not to participate in audit year 5 citing resource constraints and service disruption from the COVID 19 pandemic.   |
|                                     | Barts Health NHS Trust  | Medisoft               |   |
|                                     | Bedfordshire Hospitals NHS Foundation Trust –<br>Moorfields       | Medisoft               | Data combined and reported as Moorfields Eye<br>Hospital NHS Foundation Trust. Note Bedfordshire<br>Hospitals NHS Foundation Trust was formed from<br>a merger of Bedford Hospital NHS Trust with Luton<br>and Dunstable University Hospital NHS Foundation<br>Trust, where the ophthalmology service for the former<br>Bedford Hospital NHS Trust is run by Moorfields Eye<br>Hospital NHS Foundation Trust which supplies data<br>to the audit, while the ophthalmology service for the<br>former Luton and Dunstable University Hospital NHS<br>Foundation Trust is not run by Moorfields Eye Hospital<br>NHS Trust and does not submit data to the audit. |
|                                     | Blackpool Teaching Hospitals NHS Foundation Trust                 | Medisoft               | This centre had sufficient eligible cases for inclusion<br>in the year 1 report but did not submit ≥50 eligible<br>operations for year 2<br>and has not contributed data to audit years 3, 4 or 5.  |
|                                     | Bradford Teaching Hospitals NHS Foundation Trust                  | Medisoft               | Includes patients from Airedale NHS Foundation Trust.   |
|                                     | Calderdale and Huddersfield NHS Foundation Trust                  | Medisoft               | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |
|                                     | Cardiff and Vale University Local Health Board                    | Medisoft               |   |
| Centres first                       | Chesterfield Royal Hospital NHS Foundation Trust                  | Medisoft               |   |
| included<br>in the Year 1<br>report | Croydon Health Services NHS Trust – Moorfields                    | Medisoft               | Data combined and reported as Moorfields Eye<br>Hospital NHS Foundation Trust. Note Bedfordshire<br>Hospitals NHS Foundation Trust was formed from<br>a merger of Bedford Hospital NHS Trust with Luton<br>and Dunstable University Hospital NHS Foundation<br>Trust, where the ophthalmology service for the former<br>Bedford Hospital NHS Trust is run by Moorfields Eye<br>Hospital NHS Foundation Trust which supplies data<br>to the audit, while the ophthalmology service for the<br>former Luton and Dunstable University Hospital NHS<br>Foundation Trust is not run by Moorfields Eye Hospital<br>NHS Trust and does not submit data to the audit. |
|                                     | Epsom and St Helier University Hospitals NHS Trust                | Medisoft               |   |
|                                     | Frimley Health NHS Foundation Trust                               | Medisoft               |   |
|                                     | Gloucestershire Hospitals NHS Foundation Trust                    | Medisoft               |   |
|                                     | Hampshire Hospitals NHS Foundation Trust                          | Medisoft               |   |
|                                     | Harrogate and District NHS Foundation Trust                       | Medisoft               |   |
|                                     | Isle of Wight NHS Trust   | Medisoft               |   |
|                                     | King's College Hospital NHS Foundation Trust                      | Medisoft               |   |
|                                     | Leeds Teaching Hospitals NHS Trust                                | Medisoft               |   |
|                                     | Liverpool University Hospitals NHS Foundation Trust               | Medisoft               | NHS Trust formed from a merger of two NHS Trusts,<br>Aintree University Hospital NHS Foundation Trust who<br>have contributed data since audit year 1 and Royal<br>Liverpool and Broadgreen University Hospitals NHS  |
|                                     | London North West University Healthcare NHS Trust                 | In-house               | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |

| Category                            | Organisation name  | Data collection    | Notes   |
|-------------------------------------|--|--------------------|---|
|                                     | Manchester University NHS Foundation Trust                       | system<br>Medisoft |   |
|                                     |  |                    |   |
|                                     | Mid Cheshire Hospitals NHS Foundation Trust                      | Medisoft           |   |
|                                     | Mid and South Essex NHS Foundation Trust                         | Medisoft           | NHS Trust formed from a merger of two participating<br>NHS Trusts, Mid Essex Hospital Services NHS Trust who<br>first contributed data to audit year 1 and Southend<br>University Hospital NHS Foundation Trust who first<br>contributed data to audit year 4.  |
|                                     | Moorfields Eye Hospital NHS Foundation Trust                     | OpenEyes           | Data combined and reported as Moorfields Eye<br>Hospital NHS Foundation Trust. Note Bedfordshire<br>Hospitals NHS Foundation Trust was formed from<br>a merger of Bedford Hospital NHS Trust with Luton<br>and Dunstable University Hospital NHS Foundation<br>Trust, where the ophthalmology service for the former<br>Bedford Hospital NHS Trust is run by Moorfields Eye<br>Hospital NHS Foundation Trust which supplies data<br>to the audit, while the ophthalmology service for the<br>former Luton and Dunstable University Hospital NHS<br>Foundation Trust is not run by Moorfields Eye Hospital<br>NHS Trust and does not submit data to the audit. |
|                                     | Norfolk and Norwich University Hospitals NHS<br>Foundation Trust | Medisoft           |   |
|                                     | Northern Devon Healthcare NHS Trust                              | Medisoft           |   |
|                                     | North West Anglia NHS Foundation Trust                           | Medisoft           | NHS Trust formed from a merger of two participating<br>NHS Trusts that both had data in the year 1 prospective<br>report, these NHS Trusts were Peterborough and<br>Stamford Hospitals NHS Foundation Trust and<br>Hinchingbrooke Health Care NHS Trust.  |
|                                     | Nottingham University Hospitals NHS Trust                        | Medisoft           |   |
| Centres first                       | Oxford University Hospitals NHS Trust                            | Medisoft           |   |
| included<br>in the Year 1<br>report | Royal Berkshire NHS Foundation Trust                             | Medisoft           | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3), but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.   |
|                                     | Royal Cornwall Hospitals NHS Trust                               | Medisoft           |   |
|                                     | Royal Free London NHS Foundation Trust                           | Medisoft           |   |
|                                     | Royal United Hospital Bath NHS Trust                             | Medisoft           | Chose not to participate in audit year 4 and began participation again in audit year 5.   |
|                                     | Salisbury NHS Foundation Trust                                   | Medisoft           |   |
|                                     | Sandwell and West Birmingham Hospitals NHS Trust                 | Medisoft           |   |
|                                     | Sheffield Teaching Hospitals NHS Foundation Trust                | Medisoft           | Chose not to participate in audit year 5 citing resource constraints and service disruption from the COVID 19 pandemic.   |
|                                     | South Tees Hospitals NHS Foundation Trust                        | Medisoft           |   |
|                                     | South Warwickshire NHS Foundation Trust                          | Medisoft           |   |
|                                     | St Helens and Knowsley Hospitals NHS Trust                       | Medisoft           |   |
|                                     | The Hillingdon Hospitals NHS Foundation Trust                    | Medisoft           |   |
|                                     | The Mid Yorkshire Hospitals NHS Trust                            | Medisoft           |   |
|                                     | The Newcastle Upon Tyne Hospitals NHS Foundation<br>Trust        | Medisoft           |   |
|                                     | The Shrewsbury and Telford Hospital NHS Trust                    | Medisoft           | Chose not to participate in audit year 4 and began participation again in audit year 5.   |
|                                     | University Hospital Southampton NHS Foundation<br>Trust          | Medisoft           |   |

| Category                            | Organisation name   | Data collection<br>system | Notes   |
|-------------------------------------|---|---------------------------|---|
|                                     | University Hospitals Birmingham NHS Foundation<br>Trust           | Medisoft                  | NHS Trust formed from a merger of two participating<br>NHS Trusts, University Hospitals Birmingham NHS<br>Foundation Trust who have contributed to the audit<br>since year 1 and Heart of England NHS Foundation<br>Trust who first contributed in year 2.                      |
|                                     | University Hospitals Bristol and Weston NHS<br>Foundation Trust   | Medisoft                  |   |
|                                     | University Hospitals Coventry and Warwickshire NHS<br>Trust       | Medisoft                  |   |
| Centres first                       | University Hospitals Dorset NHS Foundation Trust                  | Medisoft                  | NHS Trust formed from a merger of The Royal<br>Bournemouth and Christchurch Hospitals NHS<br>Foundation Trust who first contributed data in audit<br>year 1 and a non-cataract providing NHS Trust.   |
| included<br>in the Year 1<br>report | University Hospitals of Morecambe Bay NHS<br>Foundation Trust     | Medisoft                  | This centre had sufficient eligible cases for inclusion in both the year 1 and 2 report, and has not contributed to subsequent audit years 3, 4 or 5.   |
|                                     | University Hospitals Plymouth NHS Trust                           | Medisoft                  |   |
|                                     | Warrington and Halton Teaching Hospitals NHS<br>Foundation Trust  | Medisoft                  |   |
|                                     | Wirral University Teaching Hospital NHS Foundation<br>Trust       | Medisoft                  |   |
|                                     | Wrightington, Wigan and Leigh NHS Foundation Trust                | Medisoft                  |   |
|                                     | Yeovil District Hospital NHS Foundation Trust                     | Medisoft                  |   |
|                                     | York and Scarborough Teaching Hospitals NHS<br>Foundation Trust   | In-house                  |   |
|                                     | Bolton NHS Foundation Trust                                       | OpenEyes                  |   |
|                                     | Cambridge University Hospitals NHS Foundation Trust               | Epic                      |   |
|                                     | County Durham and Darlington NHS Foundation<br>Trust              | Medisoft                  |   |
|                                     | Cwm Taf Morgannwg University Local Health Board                   | Medisoft                  |   |
|                                     | East Kent Hospitals University NHS Foundation Trust               | OpenEyes                  |   |
|                                     | East Lancashire Hospitals NHS Trust                               | Medisoft                  | This centre had sufficient eligible cases for inclusion in<br>the year 2 report, and did not contribute to<br>audit years 3 or 4. They had their data extracted for<br>audit year 5, but with no data for surgery since audit<br>year 2.  |
| Centres first                       | East Sussex Healthcare NHS Trust                                  | Medisoft                  | This centre participated in the year 1 prospective audit,<br>but due to a data extraction problem the data from<br>this centre could not be included in the year 1 report.  |
| included<br>in the Year 2           | Great Western Hospitals NHS Foundation Trust                      | Medisoft                  |   |
| report                              | Imperial College Healthcare NHS Trust                             | Medisoft                  |   |
|                                     | James Paget University Hospitals NHS Foundation<br>Trust          | Medisoft                  |   |
|                                     | Kingston Hospital NHS Trust                                       | Medisoft                  |   |
|                                     | Northampton General Hospital NHS Trust                            | In-house                  |   |
|                                     | Northern Lincolnshire and Goole Hospitals NHS<br>Foundation Trust | In-house                  | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3), but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR. |
|                                     | Portsmouth Hospitals University NHS Trust                         | Medisoft                  |   |
|                                     | Royal Surrey County Hospital NHS Foundation Trust                 | In-house                  |   |
|                                     | Sherwood Forest Hospitals NHS Foundation Trust                    | Medisoft                  |   |

| Category   | Organisation name  | Data collection | Notes   |
|--|--|-----------------|---|
|  | , j  | system          |   |
|  | Sherwood Forest Hospitals NHS Foundation Trust               | Medisoft        |   |
|  | Southport and Ormskirk Hospital NHS Trust                    | Medisoft        |   |
|  | SpaMedica – Bolton   | Medisoft        |   |
|  | SpaMedica – Liverpool  | Medisoft        |   |
|  | SpaMedica – Manchester                                       | Medisoft        |   |
|  | SpaMedica – Newton-le-willows                                | Medisoft        |   |
|  | SpaMedica – Wakefield  | Medisoft        |   |
|  | SpaMedica – Birkenhead                                       | Medisoft        |   |
|  | Stockport NHS Foundation Trust                               | Medisoft        | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3), but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR. |
| Centres first<br>included<br>in the Year 2<br>report | East Suffolk and North Essex NHS Foundation Trust            | Medisoft        | NHS Trust formed from a merger of two NHS Trusts,<br>The Ipswich Hospital NHS Trust who first contributed<br>to year 2 and Colchester Hospital University NHS<br>Foundation Trust who did not contribute data while a<br>separate entity.                                       |
|  | The Princess Alexandra Hospital NHS Trust                    | Medisoft        | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |
|  | The Rotherham NHS Foundation Trust                           | In-house        | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |
|  | Torbay and South Devon NHS Foundation Trust                  | Medisoft        |   |
|  | United Lincolnshire Hospitals NHS Trust                      | Medisoft        | This NHS Trust has contributed data to audit years 2,<br>3 and 4 from an in-house data collection system, and<br>from audit year 5 onwards from the Medisoft EMR.   |
|  | Wye Valley NHS Trust   | Medisoft        | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |
|  | Aneurin Bevan University Local Health Board                  | In-house        |   |
|  | Practice Plus Group Hospital, Emersons Green                 | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
|  | Practice Plus Group Hospital, Ilford                         | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
|  | Practice Plus Group Hospital, Plymouth                       | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
| Centres first<br>included<br>in the Year 3           | Practice Plus Group Ophthalmology, Rochdale                  | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
| report   | Practice Plus Group Surgical Centre, Devizes                 | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
|  | Practice Plus Group Hospital, Shepton Mallet                 | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
|  | Practice Plus Group Hospital, Southampton                    | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |
|  | Practice Plus Group Surgical Centre, St Mary's<br>Portsmouth | Medisoft        | Practice Plus Group was founded as Care UK in 1982, and rebranded in 2020.  |

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NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

| Category   | Organisation name                                  | Data collection<br>system | Notes   |
|--|--|---------------------------|---|
|  | Practice Plus Group Surgical Centre, Gillingham    | Medisoft                  | Practice Plus Group was founded as Care UK in 1982,<br>and rebranded in 2020.   |
|  | East Cheshire NHS Trust                            | Medisoft                  |   |
|  | North Cumbria Integrated Care NHS Foundation Trust | Medisoft                  | This is a new NHS Trust formed by a merger of North<br>Cumbria University Hospital NHS Trust who first<br>contributed data to audit year 3 and a non-cataract<br>providing NHS Trust. Chose not to participate in<br>audit year 5 citing resource constraints and service<br>disruption from the COVID 19 pandemic.   |
|  | North Middlesex University Hospital NHS Trust      | Medisoft                  |   |
|  | SpaMedica – Birmingham                             | Medisoft                  |   |
| Centres first<br>included                            | SpaMedica – Sheffield                              | Medisoft                  |   |
| in the Year 3  | St Stephens Gate Medical Practice                  | In-house                  |   |
| report   | Surrey and Sussex Healthcare NHS Trust             | Medisoft                  | Chose not to participate in audit year 4 and began participation again in audit year 5.   |
|  | Swansea Bay University Local Health Board          | OpenEyes                  | Contributed to the national audit when funded by The<br>Healthcare Quality Improvement Partnership (years 1<br>– 3) but choose not to participate in the audit for years<br>4 or 5. Some centres informed the audit they would<br>participate once they have acquired and EMR.  |
|  | The Dudley Group NHS Foundation Trust              | Medisoft                  |   |
|  | University Hospitals Sussex NHS Foundation Trust   | Medisoft                  | NHS Trust formed from a merger of two participating<br>NHS Trusts, Brighton and Sussex University Hospitals<br>NHS Trust who first contributed data in audit year 3<br>and Western Sussex Hospitals NHS Foundation Trust<br>who first contributed data in audit year 4.   |
|  | Buckinghamshire Healthcare NHS Trust               | Medisoft                  |   |
|  | George Eliot Hospital NHS Trust                    | Medisoft                  |   |
|  | Guy's and St Thomas' NHS Foundation Trust          | OpenEyes                  |   |
|  | Hywel Dda University Local Health Board            | Medisoft                  |   |
|  | Kettering General Hospital NHS Foundation Trust    | Medisoft                  |   |
|  | Medical Specialist Group Guernsey                  | Medisoft                  | Based in Guernsey and provides NHS equivalent care;<br>they first contributed data to the RCOphth<br>NOD in audit year 3 but were not included in the year<br>3 report due to not being located in either England or<br>Wales.  |
| Centres first<br>included<br>in the Year 4<br>report | Somerset NHS Foundation Trust                      | Medisoft                  | This NHS Trust merged with of Taunton and Somerset<br>NHS Foundation Trust with a non-cataract providing<br>NHS Trust to form Somerset NHS Foundation Trust.<br>The merger occurred after the completion of the audit<br>year 4 data collection period and the RCOphth NOD<br>were asked to report the Trust's results for audit year<br>4 under the name of the former cataract providing<br>NHS Trust as that institution was responsible for the<br>provision of care. |
|  | SpaMedica – Bradford                               | Medisoft                  |   |
|  | SpaMedica – Chelmsford                             | Medisoft                  |   |
|  | SpaMedica – Newcastle Under Lyme                   | Medisoft                  |   |
|  | SpaMedica – West Lancashire                        | Medisoft                  | This institution first supplied data for audit year 3, but<br>were not included in the year 3 report due to supplying<br>data for <50 eligible operations.  |
|  | SpaMedica – Widnes                                 | Medisoft                  |   |

| Category                  | Organisation name   | Data collection system | Notes  |
|---------------------------|---|------------------------|--|
|                           | Community Health and Eyecare Ltd (Blackpool)                  | In-house               |  |
|                           | Community Health and Eyecare Ltd (Face and Eye)               | In-house               | Submitted data, but for <50 eligible cases   |
|                           | Community Health and Eyecare Ltd (Grange Medical Centre)      | In-house               | Submitted data, but for <50 eligible cases   |
|                           | Community Health and Eyecare Ltd (Preston)                    | In-house               |  |
|                           | Community Health and Eyecare Ltd (Stoke)                      | In-house               |  |
|                           | Community Health and Eyecare Ltd (Watford)                    | In-house               |  |
|                           | Exeter Eye  | Medisoft               |  |
|                           | Newmedica Community Ophthalmology<br>(Barlborough)            | In-house               |  |
|                           | Newmedica Community Ophthalmology (Brigg)                     | In-house               |  |
|                           | Newmedica Community Ophthalmology (Bristol)                   | In-house               |  |
|                           | Newmedica Community Ophthalmology (Exeter)                    | In-house               |  |
|                           | Newmedica Community Ophthalmology (Frome)                     | In-house               |  |
|                           | Newmedica Community Ophthalmology (Gloucester<br>– Aspen)     | In-house               |  |
|                           | Newmedica Community Ophthalmology (Gloucester<br>– Brighouse) | In-house               | Submitted data, but for <50 eligible cases   |
|                           | Newmedica Community Ophthalmology (Grimsby)                   | In-house               |  |
|                           | Newmedica Community Ophthalmology (Ipswich)                   | In-house               |  |
|                           | Newmedica Community Ophthalmology (Leeds)                     | In-house               |  |
| Centres first<br>included | Newmedica Community Ophthalmology (Teesside)                  | In-house               |  |
| in the Year 5             | Newmedica Community Ophthalmology (Wakefield)                 | In-house               |  |
| report                    | Northern Care Alliance NHS Foundation Trust                   | OpenEyes               |  |
|                           | Optegra Eye Health Care (Birmingham Eye Hospital)             | Medisoft               |  |
|                           | Optegra Eye Health Care (Central London Eye<br>Hospital)      | Medisoft               | This centre first submitted data in year 5 including<br>data for historic time periods allowing inclusion in all<br>NHS year results, and no result for the 2020 NHS year<br>due to <50 eligible operations for the 2020 NHS year. |
|                           | Optegra Eye Health Care (Hampshire Eye Hospital)              | Medisoft               |  |
|                           | Optegra Eye Health Care (Manchester Eye Hospital)             | Medisoft               |  |
|                           | Optegra Eye Health Care (North London Eye Hospital)           | Medisoft               |  |
|                           | Optegra Eye Health Care (Surrey Eye Hospital)                 | Medisoft               |  |
|                           | Optegra Eye Health Care (Yorkshire Eye Hospital)              | Medisoft               |  |
|                           | SpaMedica – Bedford   | Medisoft               |  |
|                           | SpaMedica – Bristol   | Medisoft               | Submitted data, but for <50 eligible cases   |
|                           | SpaMedica – Bromley   | Medisoft               |  |
|                           | SpaMedica – Coventry  | Medisoft               |  |
|                           | SpaMedica – Derby   | Medisoft               |  |
|                           | SpaMedica – Hull  | Medisoft               | This centres first contributed data for audit year 4,<br>but were not included in the audit year 4 report due<br>to submitting data for <50 eligible operations.   |
|                           | SpaMedica – Preston   | Medisoft               |  |
|                           | SpaMedica – Stockton-on-Tees                                  | Medisoft               |  |
|                           | SpaMedica – Wokingham   | Medisoft               |  |

| Category                                     | Organisation name                          | Data collection<br>system | Notes |
|--|--|---------------------------|-------|
|  | SpaMedica – Wolverhampton                  | Medisoft                  |       |
| Centres first                                | Tetbury Hospital                           | In-house                  |       |
| included<br>in the Year 5                    | The Stoneygate Eye Hospital                | In-house                  |       |
| report                                       | West Suffolk NHS Foundation Trust          | OpenEyes                  |       |
|  | Worcestershire Acute Hospitals NHS Trust   | OpenEyes                  |       |
|  | Belfast Health and Social Care Trust       | Medisoft                  |       |
| Cinnadumto                                   | Northern Health and Social Care Trust      | Medisoft                  |       |
| Signed up to<br>participate<br>in the future | South Eastern Health and Social Care Trust | Medisoft                  |       |
|  | Southern Health and Social Care Trust      | Medisoft                  |       |
|  | Western Health and Social Care Trust       | Medisoft                  |       |

#### Among the results there are five types of graphs;

- Bar charts these are either horizontally or vertically aligned depending on the data being plotted. One axis displays the categorical element, usually contributing centre and when bar charts are sub-divided by another category, the length of each bar indicates the quantity of interest for the sub-category as read from the numeric axis. Some vertically aligned bar charts have horizontal dashed reference lines at specific points on the y-axis, these relate to cut-off points used in the reporting of results, for example 50%. Each bar chart is ordered (sorted) by a quantity being plotted, i.e. percentage. Figure 4 (page 27) is an example of a bar chart.
- 2. Box and Whisker plots the spread for the variable of interest is shown where the central line is the median or 'middle' value. The box outlines the inter quartile range (25% and 75% centiles), and the horizontal lines above and below the inter quartile range display either the position of the furthest value or a value at a 'reasonable' stretch from the middle. Extreme values are the dots beyond that. Figure 6 (page 28) is an example of a Box and Whisker plot.
- 3. Funnel plots The spread of dots on these looks like a funnel going from left to right. Each dot represents a result for a centre or surgeon as read off the vertical axis (proportion or rate). The funnel effect results from increasing statistical precision as the numbers get higher going along the horizontal axis, for example Figure 17 (page 41). Some of the plots have lines on them showing what is expected. A result above the top line (three standard deviations) would be deemed unacceptably high, for example Figure 18 (page 42).
- 4. Median and IQR plots These display for each contributing centre, the median and IQR for a numeric quantity as read from the vertical axis. These estimates indicate variation between centres and by not including the range these graphs allow magnification on the y-axis and a clearer view of the distribution of the median and IQR across contributing centres. Each of these graphs are ordered (sorted) by a quantity being plotted, i.e. the median. Figure 5 (page 27) is an example of a Median and IQR graph.
- 5. Scatter plots The display for each contributing centre an estimate of interest which can be read from the y-axis. Each scatter plot is ordered (sorted) by a quantity of interest. Figure 16 (page 39) is an example of a scatter plot.

#### Appendix tables with results for named centres;

On all tables that display results for contributing centres, the centres are ordered by the number allocated to them in the RCOphth NOD database, where a number is created for a centre in the first audit year they submit at least 50 eligible operations. This number is equivalent to a ranking within the audit year of first submission, based on the total number of eligible operations contributed by each centre, where the lowest number is allocated to the centre with the most operations.

Centres 1 – 56 are the centres that were included in the first audit year report, where centre 1 had the most operations and centre 56 the fewest. Centres 57 – 87 are the centres first appearing in the second audit year report, where centre 57 had the most operations and centre 87 the fewest. Centres 88 – 108 are the centres first appearing in the third audit year report, where centre 88 had the most operations and centre 108 the fewest. Centres 109 – 122 are the centres first appearing in the fourth audit year report, where centre 109 has the most operations and centre 122 the fewest. Centres 124 – 159 are the centres first appearing in the fifth audit year, where centre 124 has the most operations and centre 159 for the 2020 NHS year. Centre 160 is the centre first contributing data in audit year 5 with data for historic time periods, and no results for the 2020 NHS year due to <50 eligible operations for the 2020

NHS year. This numbering system allows a reader to see which audit year a centre first submitted at least 50 eligible operations.

On tables that include equivalent results for previous NHS years, the centres who have a result for an NHS year before they first contributed sufficient data are the centres who have submitted historic data for time periods before the first audit year they contributed to. Some centre numbers have become redundant due to mergers of NHS Trusts or one NHS Trust taking over the ophthalmology service in another NHS Trust and some centres have contributed data to an audit year and not done so in subsequent audit years.

## **Appendix 4: Case Definitions**

#### Eligible Cataract Surgery Criteria

- Operation performed between 1st April 2020 31st March 2021.
- Operation performed in adults (aged 18 or above).
- Operation included a phacoemulsification procedure.
- Operative data includes a surgeon identifier and valid surgeon grade.
- Operation included a "cataract" indication for surgery (see the RCOphth NOD audit website for details).
- Operation without any of the ineligible indications for surgery (see RCOphth NOD audit website for details).
- Operation did not include certain operative procedures (see the RCOphth NOD audit website for details).
- Operations that included a pars plana vitrectomy with no vitreoretinal indication for surgery and no other vitreoretinal procedures except for sponge and scissor vitrectomy or automated anterior vitrectomy.
- Operation not for a traumatic injury.
- Operations in eyes with certain current or historic diagnosis (see the RCOphth NOD audit website for details).
- A minimum of 50 eligible cataract operations for each participated centre.

For comparisons against previous NHS years, all the above apply except for the date period criteria which is as follows;

- 2016 NHS year 1st April 2016 31st March 2017
- 2017 NHS year 1st April 2017 31st March 2018
- 2018 NHS year 1st April 2018 31st March 2019
- 2019 NHS year 1st April 2019 31st March 2020

#### PCR – Posterior Capsule Rupture or Vitreous Prolapse or both

- PCR was deemed to have occurred if any of the following intra-operative complications are recorded during surgery; Zonule rupture – vitreous loss, PC rupture ± vitreous loss, Vitreous to the section at end of surgery, Vitreous loss, Nuclear/ epinuclear fragment into vitreous, intra-ocular lens (IOL) into the vitreous, lens fragments into vitreous, or if any of the following occurred.
- The operation includes any of 'Sponge and scissors vitrectomy', 'Automated anterior vitrectomy' or 'Scleral fixed IOL'.
- The operative procedure includes 'Fragmatome lensectomy ± IOL' with a previous or concurrent phacoemulsification procedure.
- The operative procedure includes 'Removal of retained lens fragments' combined with a pars plana vitrectomy.
- If either of 'vitreous to the section' or 'vitreous in the anterior chamber' were recorded within eight weeks of cataract surgery, this includes the day of cataract surgery in the time frame. It is recognised that vitreous egress is possible in rare cases, despite the absence of compromise of the capsule or zonules. This still represents a complication of surgery, however EMR providers may offer a diagnosis of post-operative complication that identifies such cases of vitreous in the anterior chamber unrelated to intra-operative complication.
- If there is a record of a dropped nucleus operation with 90 days of cataract surgery, this includes the day of cataract surgery in the time frame.

#### Visual Acuity (VA)

- Visual acuity measurements are reported using the LogMAR scale with numeric substitutions of 2.10, 2.40, 2.70 and 3.00 for the ability to count fingers (CF), the ability to distinguish hand movements (HM), perception of light (PL) and no perception of light (NPL) respectively.
- Preoperative VA was defined as the better of corrected distance visual acuity (CDVA) and uncorrected distance visual acuity (UDVA) recorded within a six month 'time window' prior to surgery. Where there are multiple occasions of measurement the VA measurement closest to the date of surgery is used and measurements recorded on the same day as cataract surgery are considered as preoperative measurements.
- Postoperative VA was defined as the best measurement of CDVA or UDVA or pinhole visual acuity (PHVA) within the 'time window' of between eight days and six months of cataract surgery (inclusive).
- At least 50 eligible operations with VA data are required for a VA result to be produced. Postoperative VA results were restricted to operations performed in the first 10 months of an NHS year to allow for at least two months potential follow up. At least 50 eligible operations within the postoperative time period are required for a result to be produced. For VA Loss results, only centres with <40% missing pre- and post-operative VA data were included.

#### VA Loss was defined as

- For eyes with a preoperative VA of <1.00 LogMAR, a loss of ≥0.30 LogMAR (doubling or worse of the visual angle) between the preoperative and postoperative VA measurements.
- For eyes with a preoperative VA of ≥1.00 LogMAR and <CF, VA Loss is designated if the postoperative VA is HM, PL or NPL.
- For eyes with a preoperative VA of CF, VA Loss is designated if the postoperative VA is PL or NPL.
- For eyes with a preoperative VA of HM, VA Loss is designated if the postoperative VA is NPL.
- For eyes with a preoperative VA of PL or NPL no VA Loss is considered.

LogMAR VA is a continuous scale conversion for Snellen fractions that allows arithmetic calculations to be employed in the analysis. Conversion between LogMAR and approximate Snellen scores, and their interpretations, are as follows:

|        | Approximate Snellen to LogMAR Conversion |                             |  |
|--------|--|-----------------------------|--|
| LogMAR | Snellen                                  | VA Interpretation           |  |
| -0.1   | 6/5                                      | Excellent                   |  |
| 0.0    | 6/6                                      | Very Good                   |  |
| 0.2    | 6/9                                      | Good                        |  |
| 0.3    | 6/12                                     | Reasonably Good             |  |
| 0.5    | 6/18                                     | Moderate                    |  |
| 0.6    | 6/24                                     | Moderate Sight Impairment   |  |
| 0.8    | 6/36                                     | Sight Impairment            |  |
| 0.9    | 6/48                                     | Sight Impairment            |  |
| 1.0    | 6/60                                     | UK Severe Sight Impairment  |  |
| 1.1    | 5/60                                     | UK Severe Sight Impairment  |  |
| 1.2    | 4/60                                     | UK Severe Sight Impairment  |  |
| 1.3    | 3/60                                     | WHO Severe Sight Impairment |  |
| 2.1    | Count Fingers (CF)                       | WHO Severe Sight Impairment |  |
| 2.4    | Hand Movements (HM)                      | WHO Severe Sight Impairment |  |
| 2.7    | Perception of Light (PL)                 | WHO Severe Sight Impairment |  |
| 3.0    | No Perception of Light (NPL)             | WHO Severe Sight Impairment |  |

## Appendix 5: Glossary

| Abbreviation | Description  |
|--------------|--|
| CDVA         | Corrected distance visual acuity   |
| CF           | The ability to count fingers   |
| CI           | Confidence Interval  |
| COVID 19     | Coronavirus Disease 2019   |
| CQC          | Care Quality Commission  |
| DHCW         | Digital Health and Care Wales  |
| EMR          | Electronic Medical Record  |
| GOS          | General Ophthalmic Services  |
| НМ           | The ability to distinguish hand movements  |
| IOL          | Intra-ocular lens is an artificial lens generally inserted into the capsule of the lens after cataract removal   |
| ІСНОМ        | International Consortium for Health Outcomes Measurement   |
| IQR          | Inter Quartile Range   |
| LogMAR       | Logarithm of the Minimum Angle of Resolution   |
| N/A          | Not Applicable   |
| NHS          | National Health Service  |
| NICE         | National Institute for Health and Care Excellence  |
| NOD          | National Ophthalmology Database  |
| NPL          | No perception of light   |
| PAS          | Patient Administration System  |
| PCR          | Posterior capsule rupture is a break in the posterior capsule of the lens, usually as a complication of cataract surgery. It may allow vitreous to move forward into the anterior chamber of the eye.                |
| PHVA         | Pin hole visual acuity – The pinhole is an eye shield with several small holes which allow light rays to reach the retina without the interference of optical problems of the eye. It is used to test visual acuity. |
| PIFU         | Patient initiated follow-up  |
| PL           | Perception of light  |
| PROM         | Patient Reported Outcome Measures  |
| RCOphth      | The Royal College of Ophthalmologists  |
| RNIB         | Royal National Institute of Blind People   |
| SD           | Standard Deviation   |

### Appendix 5 continued: Glossary

| Abbreviation | Description  |
|--------------|--|
| UDVA         | Uncorrected distance visual acuity   |
| UK           | United Kingdom   |
| VA           | Visual acuity is the sharpness of vision, measured by the ability to distinguish<br>letters or numbers at a given distance according to a fixed standard. We have<br>reported VA using the LogMAR scale (base 10 Log of the reciprocal of the visual<br>angle). A normal LogMAR VA is 0.0 and the number increases as vision gets<br>worse. LogMAR=0.3 would be at the boundary for driving a car and 1.0 would<br>be at the level of registrable severe sight impairment. A postoperative VA of 0.3<br>or better is often used as a measure of a favourable outcome from surgery. |
| WHO          | World Health Organisation  |

#### Appendix 6 table: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|  |                  |  |                                     |   |                       | The percentage of operations performed by |  |   |                                      |
|--|------------------|--|-------------------------------------|---|-----------------------|---|--|---|--------------------------------------|
| Centre name  | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons                    | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 01/04/2020   | 7,760                               | 82.4  | 186                   | 49.9                                      | 3.0  | 46.3                                    | 0.7                                  |
| The Newcastle upon Tyne Hospitals NHS Foundation<br>Trust        | 2                | 06/04/2020   | 3,428                               | 100.0   | 55                    | 74.6                                      | 0.0  | 23.3                                    | 2.1                                  |
| Norfolk and Norwich University Hospitals NHS<br>Foundation Trust | 3                | 01/04/2020   | 942                                 | 97.4  | 25                    | 71.4                                      | 5.2  | 17.4                                    | 5.9                                  |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 01/04/2020   | 688                                 | 94.7  | 38                    | 54.1                                      | 0.0  | 31.5                                    | 14.4                                 |
| York and Scarborough Teaching Hospitals NHS<br>Foundation Trust  | 5                | 13/05/2020   | 2,720                               | 100.0   | 34                    | 78.6                                      | 0.0  | 21.4                                    | 0.0                                  |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 02/04/2020   | 2,065                               | 99.0  | 50                    | 42.6                                      | 0.0  | 57.0                                    | 0.4                                  |
| University Hospitals Bristol and Weston NHS<br>Foundation Trust  | 7                | 16/04/2020   | 1,084                               | 100.0   | 51                    | 49.1                                      | 0.0  | 50.9                                    | 0.0                                  |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 01/04/2020   | 1,214                               | 96.6  | 31                    | 72.4                                      | 10.6                                       | 12.2                                    | 4.8                                  |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 03/04/2020   | 966                                 | 96.8  | 61                    | 51.1                                      | 3.2  | 41.1                                    | 4.6                                  |
| University Hospital Southampton NHS Foundation<br>Trust          | 11               | 30/04/2020   | 1,458                               | 100.0   | 45                    | 61.0                                      | 11.0                                       | 25.1                                    | 2.9                                  |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 29/04/2020   | 984                                 | 100.0   | 22                    | 54.7                                      | 22.9                                       | 16.1                                    | 6.4                                  |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 21/07/2020   | 942                                 | 100.0   | 13                    | 93.4                                      | 0.3  | 0.4                                     | 5.8                                  |
| Cardiff & Vale University Local Health Board                     | 16               | 21/05/2020   | 803                                 | 100.0   | 33                    | 54.3                                      | 0.0  | 45.0                                    | 0.7                                  |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 02/04/2020   | 1,635                               | 100.0   | 25                    | 75.1                                      | 0.0  | 19.1                                    | 5.7                                  |
| Barts Health NHS Trust   | 18               | 01/04/2020   | 1,134                               | 98.5  | 43                    | 59.8                                      | 9.3  | 27.2                                    | 3.7                                  |
| Frimley Health NHS Foundation Trust                              | 19               | 14/05/2020   | 1,702                               | 100.0   | 21                    | 69.7                                      | 10.9                                       | 10.8                                    | 8.6                                  |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 14/04/2020   | 418                                 | 100.0   | 17                    | 85.4                                      | 0.0  | 7.7                                     | 6.9                                  |
| University Hospitals Plymouth NHS Trust                          | 22               | 05/05/2020   | 1,569                               | 100.0   | 23                    | 49.6                                      | 20.5                                       | 25.3                                    | 4.7                                  |
| University Hospitals Birmingham NHS Foundation<br>Trust          | 23               | 09/04/2020   | 1,378                               | 100.0   | 46                    | 69.4                                      | 0.0  | 29.3                                    | 1.2                                  |

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Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|   |                  |  |                                     |   |                       | The percentage of operations performed by |  |   |                                      |
|---|------------------|--|-------------------------------------|---|-----------------------|---|--|---|--------------------------------------|
| Centre name   | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons                    | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| Hampshire Hospitals NHS Foundation Trust                          | 24               | 21/04/2020   | 1,830                               | 91.3  | 18                    | 82.5                                      | 0.2  | 17.3                                    | 0.0                                  |
| Royal Cornwall Hospitals NHS Trust                                | 25               | 21/04/2020   | 2,478                               | 100.0   | 16                    | 65.0                                      | 31.4                                       | 3.6                                     | 0.0                                  |
| Manchester University NHS Foundation Trust                        | 26               | 04/06/2020   | 650                                 | 38.4  | 38                    | 46.0                                      | 4.8  | 39.1                                    | 10.2                                 |
| King's College Hospital NHS Foundation Trust                      | 27               | 03/04/2020   | 2,403                               | 89.4  | 57                    | 77.4                                      | 0.0  | 18.4                                    | 4.1                                  |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 22/04/2020   | 728                                 | 100.0   | 22                    | 72.4                                      | 12.0                                       | 11.7                                    | 4.0                                  |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 07/07/2020   | 640                                 | 100.0   | 20                    | 52.0                                      | 0.8  | 25.9                                    | 21.3                                 |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 02/04/2020   | 1,072                               | 96.1  | 58                    | 31.3                                      | 2.7  | 53.4                                    | 12.6                                 |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 08/06/2020   | 979                                 | 100.0   | 12                    | 55.6                                      | 8.5  | 6.6                                     | 29.3                                 |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 24/07/2020   | 509                                 | 100.0   | 5                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Mid and South Essex NHS Foundation Trust                          | 34               | 03/04/2020   | 1,378                               | 79.0  | 34                    | 35.8                                      | 34.2                                       | 30.0                                    | 0.0                                  |
| Harrogate and District NHS Foundation Trust                       | 35               | 30/06/2020   | 291                                 | 100.0   | 9                     | 69.4                                      | 18.6                                       | 11.3                                    | 0.7                                  |
| North West Anglia NHS Foundation Trust                            | 36               | 02/04/2020   | 625                                 | 91.7  | 18                    | 78.4                                      | 1.9  | 19.7                                    | 0.0                                  |
| Northern Devon Healthcare NHS Trust                               | 37               | 20/05/2020   | 942                                 | 100.0   | 11                    | 80.0                                      | 5.9  | 14.0                                    | 0.0                                  |
| Wirral University Teaching Hospital NHS Foundation<br>Trust       | 39               | 29/05/2020   | 462                                 | 100.0   | 15                    | 76.4                                      | 0.0  | 16.9                                    | 6.7                                  |
| South Warwickshire NHS Foundation Trust                           | 40               | 13/05/2020   | 1,004                               | 100.0   | 10                    | 77.1                                      | 22.9                                       | 0.0                                     | 0.0                                  |
| Isle of Wight NHS Trust   | 41               | 01/06/2020   | 1,020                               | 100.0   | 8                     | 76.9                                      | 19.9                                       | 3.2                                     | 0.0                                  |
| St Helens and Knowsley Teaching Hospitals NHS<br>Trust            | 42               | 18/05/2020   | 745                                 | 84.9  | 13                    | 55.0                                      | 33.0                                       | 0.0                                     | 11.9                                 |
| Wrightington, Wigan and Leigh NHS Foundation<br>Trust             | 43               | 10/08/2020   | 357                                 | 100.0   | 11                    | 95.2                                      | 4.8  | 0.0                                     | 0.0                                  |
| Warrington and Halton Teaching Hospitals NHS<br>Foundation Trust  | 44               | 29/06/2020   | 458                                 | 100.0   | 16                    | 77.1                                      | 0.0  | 22.1                                    | 0.9                                  |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 01/04/2020   | 1,249                               | 70.9  | 34                    | 78.5                                      | 0.0  | 18.3                                    | 3.2                                  |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 01/04/2020   | 2,885                               | 89.8  | 27                    | 71.0                                      | 0.5  | 21.0                                    | 7.5                                  |
| Barking, Havering and Redbridge University<br>Hospitals NHS Trust | 47               | 25/06/2020   | 717                                 | 100.0   | 18                    | 88.7                                      | 0.1  | 6.0                                     | 5.2                                  |

Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|  |                  |  |                                     |   |                    | The percentage of operations performed by |  |   |                                      |  |
|--|------------------|--|-------------------------------------|---|--------------------|---|--|---|--------------------------------------|--|
| Centre name  | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of surgeons | Consultant<br>surgeons                    | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |  |
| Royal Free London NHS Foundation Trust                   | 48               | 01/04/2020   | 1,591                               | 94.0  | 42                 | 57.1                                      | 4.6  | 24.4                                    | 14.0                                 |  |
| University Hospitals Coventry and Warwickshire NHS Trust | 49               | 30/04/2020   | 990                                 | 100.0   | 31                 | 51.4                                      | 27.7                                       | 16.0                                    | 4.9                                  |  |
| Salisbury NHS Foundation Trust                           | 51               | 12/05/2020   | 455                                 | 100.0   | 8                  | 85.9                                      | 0.0  | 14.1                                    | 0.0                                  |  |
| Nottingham University Hospitals NHS Trust                | 55               | 09/04/2020   | 1,134                               | 87.7  | 43                 | 38.1                                      | 6.3  | 51.9                                    | 3.8                                  |  |
| Yeovil District Hospital NHS Foundation Trust            | 56               | 09/04/2020   | 971                                 | 100.0   | 9                  | 86.6                                      | 5.4  | 8.0                                     | 0.0                                  |  |
| SpaMedica – Manchester                                   | 57               | 26/06/2020   | 3,591                               | 100.0   | 13                 | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |  |
| SpaMedica – Wakefield                                    | 58               | 01/07/2020   | 3,310                               | 100.0   | 9                  | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |  |
| East Sussex Healthcare NHS Trust                         | 59               | 10/06/2020   | 2,172                               | 100.0   | 19                 | 84.3                                      | 8.4  | 7.4                                     | 0.0                                  |  |
| Imperial College Healthcare NHS Trust                    | 60               | 15/04/2020   | 1,274                               | 100.0   | 64                 | 54.2                                      | 0.0  | 37.4                                    | 8.4                                  |  |
| Portsmouth Hospitals University NHS Trust                | 61               | 10/06/2020   | 911                                 | 100.0   | 24                 | 80.9                                      | 0.1  | 17.0                                    | 2.0                                  |  |
| Cambridge University Hospitals NHS Foundation<br>Trust   | 63               | 30/07/2020   | 985                                 | 100.0   | 36                 | 49.3                                      | 0.0  | 50.7                                    | 0.0                                  |  |
| East Kent Hospitals University NHS Foundation Trust      | 64               | 03/04/2020   | 167                                 | 30.0  | 20                 | 60.5                                      | 31.1                                       | 6.6                                     | 1.8                                  |  |
| East Suffolk and North Essex NHS Foundation Trust        | 65               | 01/04/2020   | 2,993                               | 84.8  | 30                 | 62.1                                      | 3.2  | 31.1                                    | 3.5                                  |  |
| SpaMedica – Birkenhead                                   | 66               | 01/07/2020   | 2,057                               | 100.0   | 9                  | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |  |
| County Durham and Darlington NHS Foundation<br>Trust     | 67               | 01/04/2020   | 925                                 | 100.0   | 18                 | 73.9                                      | 20.2                                       | 5.3                                     | 0.5                                  |  |
| United Lincolnshire Hospitals NHS Trust                  | 68               | 18/09/2020   | 337                                 | 88.6  | 9                  | 95.5                                      | 0.0  | 0.0                                     | 4.5                                  |  |
| Northampton General Hospital NHS Trust                   | 70               | 13/06/2020   | 420                                 | 57.6  | 24                 | 68.1                                      | 2.1  | 29.8                                    | 0.0                                  |  |
| SpaMedica – Liverpool                                    | 71               | 20/07/2020   | 1,292                               | 100.0   | 11                 | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |  |
| James Paget University Hospitals NHS Foundation<br>Trust | 72               | 27/05/2020   | 1,333                               | 100.0   | 17                 | 78.8                                      | 8.9  | 10.7                                    | 1.6                                  |  |
| Bolton NHS Foundation Trust                              | 73               | 02/06/2020   | 904                                 | 100.0   | 18                 | 51.9                                      | 34.3                                       | 6.0                                     | 7.9                                  |  |
| Kingston Hospital NHS Foundation Trust                   | 74               | 18/06/2020   | 1,215                               | 100.0   | 19                 | 86.1                                      | 0.9  | 11.7                                    | 1.3                                  |  |
| Torbay and South Devon NHS Foundation Trust              | 77               | 09/04/2020   | 1,048                               | 100.0   | 23                 | 66.8                                      | 7.2  | 24.7                                    | 1.3                                  |  |
| Great Western Hospitals NHS Foundation Trust             | 78               | 02/04/2020   | 738                                 | 94.9  | 10                 | 90.4                                      | 4.7  | 0.0                                     | 4.9                                  |  |

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NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|   |                  |  |                                     |   |                       | The percentage of operations performed by |  |   |                                      |
|---|------------------|--|-------------------------------------|---|-----------------------|---|--|---|--------------------------------------|
| Centre name   | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons                    | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| SpaMedica – Bolton  | 79               | 01/07/2020   | 2,997                               | 100.0   | 9                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Cwm Taf Morgannwg University Local Health Board               | 82               | 12/08/2020   | 137                                 | 28.4  | 9                     | 81.8                                      | 8.8  | 4.4                                     | 5.1                                  |
| Sherwood Forest Hospitals NHS Foundation Trust                | 83               | 17/06/2020   | 672                                 | 100.0   | 13                    | 67.3                                      | 11.2                                       | 21.6                                    | 0.0                                  |
| Southport and Ormskirk Hospital NHS Trust                     | 86               | 02/04/2020   | 257                                 | 82.7  | 8                     | 70.8                                      | 27.6                                       | 1.6                                     | 0.0                                  |
| Practice Plus Group Hospital, Shepton Mallet                  | 88               | 07/08/2020   | 923                                 | 100.0   | 5                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Surgical Centre, St. Mary's<br>Portsmouth | 89               | 16/06/2020   | 1,397                               | 100.0   | 10                    | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Hospital, Emersons Green                  | 90               | 25/07/2020   | 893                                 | 100.0   | 3                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Surgical Centre, Gillingham               | 91               | 15/08/2020   | 1,053                               | 100.0   | 7                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Sheffield   | 92               | 21/07/2020   | 3,128                               | 100.0   | 15                    | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Hospital, Plymouth                        | 93               | 27/09/2020   | 560                                 | 100.0   | 3                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Ophthalmology, Rochdale                   | 95               | 09/07/2020   | 971                                 | 100.0   | 5                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Practice Plus Group Hospital, Ilford                          | 97               | 15/08/2020   | 466                                 | 100.0   | 4                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| North Middlesex University Hospital NHS Trust                 | 98               | 30/06/2020   | 418                                 | 100.0   | 10                    | 87.1                                      | 1.4  | 11.5                                    | 0.0                                  |
| University Hospitals Sussex NHS Foundation Trust              | 99               | 06/04/2020   | 1,345                               | 33.4  | 25                    | 53.9                                      | 26.3                                       | 19.8                                    | 0.0                                  |
| Practice Plus Group Surgical Centre, Devizes                  | 100              | 14/09/2020   | 272                                 | 100.0   | 2                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| Surrey and Sussex Healthcare NHS Trust                        | 101              | 02/11/2020   | 692                                 | 100.0   | 18                    | 77.2                                      | 5.1  | 12.7                                    | 5.1                                  |
| Aneurin Bevan University Local Health Board                   | 102              | 09/06/2020   | 146                                 | 19.3  | 17                    | 78.1                                      | 0.0  | 15.1                                    | 6.8                                  |
| Practice Plus Group Hospital, Southampton                     | 103              | 31/07/2020   | 220                                 | 100.0   | 1                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Birmingham  | 104              | 23/06/2020   | 3,599                               | 100.0   | 5                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| St. Stephens Gate Medical Practice                            | 105              | 20/07/2020   | 129                                 | **  | 3                     | 100.0                                     | 0.0  | 0.0                                     | 0.0                                  |
| The Dudley Group NHS Foundation Trust                         | 106              | 17/07/2020   | 288                                 | 100.0   | 18                    | 74.7                                      | 9.4  | 0.7                                     | 15.3                                 |
| East Cheshire NHS Trust                                       | 108              | 29/04/2020   | 683                                 | 99.4  | 6                     | 63.7                                      | 29.1                                       | 7.2                                     | 0.0                                  |
| Guy's and St Thomas' NHS Foundation Trust                     | 110              | 05/05/2020   | 747                                 | 69.4  | 37                    | 48.9                                      | 3.5  | 47.7                                    | 0.0                                  |

Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|   |                  |  |                                     |   |                       | I                      | he percentage of op                        | erations performed                      | by                                   |
|---|------------------|--|-------------------------------------|---|-----------------------|------------------------|--|---|--------------------------------------|
| Centre name   | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| Buckinghamshire Healthcare NHS Trust                      | 111              | 16/04/2020   | 3,173                               | 100.0   | 36                    | 51.8                   | 1.2  | 43.7                                    | 3.3                                  |
| SpaMedica – Bradford                                      | 112              | 10/07/2020   | 1,251                               | 100.0   | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – West Lancashire                               | 113              | 05/08/2020   | 843                                 | 100.0   | 11                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Somerset NHS Foundation Trust                             | 114              | 24/06/2020   | 1,101                               | 100.0   | 21                    | 82.7                   | 0.0  | 16.5                                    | 0.8                                  |
| Medical specialists group Guernsey                        | 115              | 02/06/2020   | 342                                 | ***   | 4                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Hywel Dda University Local Health Board                   | 116              | 16/07/2020   | 56                                  | 37.5  | 2                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| George Eliot Hospital NHS Trust                           | 117              | 03/10/2020   | 548                                 | 100.0   | 7                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Newcastle Under Lyme                          | 118              | 01/07/2020   | 1,893                               | 100.0   | 16                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Widnes  | 119              | 21/07/2020   | 1,499                               | 100.0   | 9                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Kettering General Hospital NHS Foundation Trust           | 120              | 15/06/2020   | 172                                 | 88.7  | 16                    | 91.3                   | 8.1  | 0.6                                     | 0.0                                  |
| SpaMedica – Chelmsford                                    | 121              | 01/07/2020   | 3,468                               | 100.0   | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Teesside)              | 124              | 17/05/2020   | 4,767                               | 100.0   | 12                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Preston                                       | 125              | 02/07/2020   | 2,760                               | 100.0   | 18                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology<br>(Gloucester – Aspen) | 126              | 28/05/2020   | 2,616                               | 100.0   | 12                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Wolverhampton                                 | 127              | 20/07/2020   | 2,594                               | 100.0   | 7                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Community Health and Eyecare Ltd (Blackpool)              | 128              | 06/06/2020   | 2,464                               | **  | 11                    | 92.6                   | 7.4  | 0.0                                     | 0.0                                  |
| Community Health and Eyecare Ltd (Watford)                | 129              | 05/06/2020   | 2,344                               | **  | 7                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Hull  | 130              | 01/07/2020   | 2,234                               | 100.0   | 11                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (Manchester Eye Hospital)         | 131              | 11/06/2020   | 2,027                               | 100.0   | 9                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Grimsby)               | 132              | 27/05/2020   | 2,009                               | 100.0   | 6                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Bristol)               | 133              | 03/06/2020   | 1,985                               | 100.0   | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (Yorkshire Eye Hospital)          | 134              | 28/04/2020   | 1,906                               | 100.0   | 12                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Worcestershire Acute Hospitals NHS Trust                  | 135              | 14/07/2020   | 1,852                               | 100.0   | 14                    | 95.3                   | 4.7  | 0.0                                     | 0.0                                  |

Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|  |                  |  |                                     |   |                       | ٦                      | he percentage of op                        | erations performed l                    | by                                   |
|--|------------------|--|-------------------------------------|---|-----------------------|------------------------|--|---|--------------------------------------|
| Centre name  | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| Community Health and Eyecare Ltd (Stoke)               | 136              | 13/06/2020   | 1,836                               | **  | 10                    | 65.5                   | 34.5                                       | 0.0                                     | 0.0                                  |
| SpaMedica – Bedford                                    | 137              | 22/07/2020   | 1,805                               | 100.0   | 17                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Leeds)              | 138              | 08/07/2020   | 1,767                               | 100.0   | 3                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 02/06/2020   | 1,765                               | 100.0   | 13                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Coventry                                   | 140              | 19/08/2020   | 1,564                               | 100.0   | 10                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 04/06/2020   | 1,508                               | 100.0   | 11                    | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (North London Eye<br>Hospital) | 142              | 04/06/2020   | 1,418                               | **  | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | 05/06/2020   | 1,155                               | 100.0   | 6                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Ipswich)            | 144              | 05/09/2020   | 972                                 | 100.0   | 4                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology<br>(Barlborough)     | 145              | 11/08/2020   | 969                                 | 100.0   | 3                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Exeter)             | 146              | 07/09/2020   | 724                                 | 100.0   | 5                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Derby                                      | 147              | 10/11/2020   | 711                                 | 100.0   | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Exeter Eye   | 148              | 06/07/2020   | 688                                 | ***   | 5                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Bromley                                    | 149              | 11/12/2020   | 473                                 | 100.0   | 8                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Wokingham                                  | 150              | 25/11/2020   | 397                                 | 100.0   | 9                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| SpaMedica – Stockton-on-Tees                           | 151              | 05/11/2020   | 284                                 | 100.0   | 2                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Tetbury Hospital                                       | 152              | 11/09/2020   | 251                                 | 98.0  | 2                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Brigg)              | 153              | 06/02/2021   | 249                                 | 100.0   | 3                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| West Suffolk NHS Foundation Trust                      | 154              | 12/08/2020   | 168                                 | 62.6  | 8                     | 81.5                   | 0.0  | 18.5                                    | 0.0                                  |
| Northern Care Alliance NHS Foundation Trust            | 155              | 19/08/2020   | 148                                 | 22.5  | 13                    | 41.2                   | 58.1                                       | 0.7                                     | 0.0                                  |
| Newmedica Community Ophthalmology (Frome)              | 156              | 17/12/2020   | 128                                 | 100.0   | 5                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Community Health and Eyecare Ltd (Preston)             | 157              | 26/02/2021   | 127                                 | **  | 4                     | 81.9                   | 18.1                                       | 0.0                                     | 0.0                                  |

#### Appendix 6 table continued: The number of eligible operations with the percentage performed by each grade of surgeon for the participating centres

|  |                  |  |                                     |   |                       | т                      | ne percentage of op                        | erations performed l                    | у                                    |
|--|------------------|--|-------------------------------------|---|-----------------------|------------------------|--|---|--------------------------------------|
| Centre name                                      | Centre<br>number | Date of first cataract<br>operation during the<br>audit period | Number<br>of eligible<br>operations | Estimate of cases<br>submitted to the<br>audit (%)* | Number of<br>surgeons | Consultant<br>surgeons | Career grade<br>non-consultant<br>surgeons | More<br>experienced<br>trainee surgeons | Less experienced<br>trainee surgeons |
| The Stoneygate Eye Hospital                      | 158              | 16/06/2020   | 114                                 | 11.0  | 4                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Newmedica Community Ophthalmology<br>(Wakefield) | 159              | 16/01/2021   | 77                                  | 100.0   | 2                     | 100.0                  | 0.0  | 0.0                                     | 0.0                                  |
| Overall for all centres                          | N/A              | 01/04/2020   | 172,320                             | 100.0   | 1,920                 | 82.0                   | 4.2  | 12.1                                    | 1.8                                  |

\*The estimate of the proportion of cases submitted to the audit is derived from the number of completed cataract operations supplied to NHS digital or DHCW for the 2020 NHS year. This estimation uses a pro-rata calculation for a centre's denominator where the proportion of time during the NHS year that a centre had been recording cataract operations was multiplied by the number of cataract operations supplied to NHS digital or DHCW. The numerator was the number of operations a centre supplied to the audit. Centre's that had more operations submitted to the national audit than in the NHS digital or DHCW data were all assumed to have a complete submission rate as the actual rate was not possible to estimate. \*\*These centres had no data in the NHS digital data. \*\*\*These centres do not have to report to either NHS Digital or DHCW.

#### Appendix 7: Preoperative, postoperative and change in VA percentages

#### Appendix 7 table: The percentage of eyes with preoperative VA, postoperative VA and change in VA data for participating centres in the 2020 NHS year

| Centre name   | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|---|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| Moorfields Eye Hospital NHS Foundation Trust                  | 1                | 82.4  | 7,760                            | 70.3                           | 6,337   | 71.8                               | 49.9                        |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust        | 2                | 100.0   | 3,428                            | 36.8                           | 3,142   | 44.0                               | 18.0                        |
| Norfolk and Norwich University Hospitals NHS Foundation Trust | 3                | 97.4  | 942                              | 77.2                           | 891   | 17.2                               | 14.3                        |
| Leeds Teaching Hospitals NHS Trust                            | 4                | 94.7  | 688                              | 83.1                           | 610   | 78.9                               | 65.4                        |
| York and Scarborough Teaching Hospitals NHS Foundation Trust  | 5                | 100.0   | 2,720                            | 36.3                           | 2,091   | 32.9                               | 15.0                        |
| Oxford University Hospitals NHS Foundation Trust              | 6                | 99.0  | 2,065                            | 62.8                           | 1,834   | 39.3                               | 27.6                        |
| University Hospitals Bristol and Weston NHS Foundation Trust  | 7                | 100.0   | 1,084                            | 62.4                           | 996   | 64.2                               | 42.1                        |
| Gloucestershire Hospitals NHS Foundation Trust                | 8                | 96.6  | 1,214                            | 59.1                           | 1,003   | 75.9                               | 41.3                        |
| Sandwell and West Birmingham Hospitals NHS Trust              | 10               | 96.8  | 966                              | 80.2                           | 938   | 89.7                               | 71.7                        |
| University Hospital Southampton NHS Foundation Trust          | 11               | 100.0   | 1,458                            | 84.9                           | 1,207   | 91.6                               | 76.5                        |
| Mid Cheshire Hospitals NHS Foundation Trust                   | 14               | 100.0   | 984                              | 85.4                           | 940   | 71.7                               | 62.0                        |
| The Mid Yorkshire Hospitals NHS Trust                         | 15               | 100.0   | 942                              | 77.2                           | 773   | 78.7                               | 56.5                        |
| Cardiff & Vale University Local Health Board                  | 16               | 100.0   | 803                              | 84.1                           | 605   | 43.5                               | 36.7                        |
| Epsom and St Helier University Hospitals NHS Trust            | 17               | 100.0   | 1,635                            | 79.9                           | 1,551   | 61.8                               | 50.2                        |
| Barts Health NHS Trust  | 18               | 98.5  | 1,134                            | 61.9                           | 1,106   | 68.4                               | 41.1                        |
| Frimley Health NHS Foundation Trust                           | 19               | 100.0   | 1,702                            | 91.4                           | 1,595   | 57.7                               | 52.6                        |
| Bradford Teaching Hospitals NHS Foundation Trust              | 20               | 100.0   | 418                              | 49.8                           | 402   | 51.2                               | 28.4                        |
| University Hospitals Plymouth NHS Trust                       | 22               | 100.0   | 1,569                            | 68.4                           | 1,282   | 71.6                               | 45.7                        |
| University Hospitals Birmingham NHS Foundation Trust          | 23               | 100.0   | 1,378                            | 71.9                           | 1,113   | 83.6                               | 58.6                        |
| Hampshire Hospitals NHS Foundation Trust                      | 24               | 91.3  | 1,830                            | 72.2                           | 1,401   | 44.0                               | 30.5                        |
| Royal Cornwall Hospitals NHS Trust                            | 25               | 100.0   | 2,478                            | 80.8                           | 1,892   | 57.6                               | 42.9                        |
| Manchester University NHS Foundation Trust                    | 26               | 38.4  | 650                              | 84.3                           | 650   | 28.9                               | 26.0                        |

NOD Audit Sixth Annual Report - Fifth Prospective Audit Year Report

| Centre name  | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|--|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| King's College Hospital NHS Foundation Trust                   | 27               | 89.4  | 2,403                            | 89.2                           | 2,129   | 86.8                               | 76.6                        |
| The Shrewsbury and Telford Hospital NHS Trust                  | 28               | 100.0   | 728                              | 67.0                           | 537   | 60.1                               | 41.3                        |
| The Hillingdon Hospitals NHS Foundation Trust                  | 30               | 100.0   | 640                              | 76.3                           | 533   | 40.9                               | 31.7                        |
| Liverpool University Hospitals NHS Foundation Trust            | 31               | 96.1  | 1,072                            | 39.2                           | 992   | 79.8                               | 31.1                        |
| Royal United Hospitals Bath NHS Foundation Trust               | 32               | 100.0   | 979                              | 72.1                           | 814   | 45.7                               | 32.3                        |
| Chesterfield Royal Hospital NHS Foundation Trust               | 33               | 100.0   | 509                              | 59.7                           | 397   | 96.7                               | 53.7                        |
| Mid and South Essex NHS Foundation Trust                       | 34               | 79.0  | 1,378                            | 36.4                           | 1,199   | 7.0                                | 2.9                         |
| Harrogate and District NHS Foundation Trust                    | 35               | 100.0   | 291                              | 79.7                           | 277   | 17.0                               | 15.2                        |
| North West Anglia NHS Foundation Trust                         | 36               | 91.7  | 625                              | 82.9                           | 524   | 69.7                               | 58.0                        |
| Northern Devon Healthcare NHS Trust                            | 37               | 100.0   | 942                              | 96.6                           | 711   | 80.5                               | 78.2                        |
| Wirral University Teaching Hospital NHS Foundation Trust       | 39               | 100.0   | 462                              | 74.0                           | 426   | 86.4                               | 62.0                        |
| South Warwickshire NHS Foundation Trust                        | 40               | 100.0   | 1,004                            | 85.3                           | 834   | 70.6                               | 58.3                        |
| Isle of Wight NHS Trust  | 41               | 100.0   | 1,020                            | 68.0                           | 865   | 85.8                               | 56.2                        |
| St Helens and Knowsley Teaching Hospitals NHS Trust            | 42               | 84.9  | 745                              | 79.6                           | 674   | 53.7                               | 43.8                        |
| Wrightington, Wigan and Leigh NHS Foundation Trust             | 43               | 100.0   | 357                              | 78.7                           | 326   | 90.5                               | 71.2                        |
| Warrington and Halton Teaching Hospitals NHS Foundation Trust  | 44               | 100.0   | 458                              | 37.3                           | 305   | 96.4                               | 27.2                        |
| South Tees Hospitals NHS Foundation Trust                      | 45               | 70.9  | 1,249                            | 30.3                           | 1,116   | 37.7                               | 15.6                        |
| University Hospitals Dorset NHS Foundation Trust               | 46               | 89.8  | 2,885                            | 82.0                           | 2,415   | 60.5                               | 51.7                        |
| Barking, Havering and Redbridge University Hospitals NHS Trust | 47               | 100.0   | 717                              | 92.9                           | 559   | 47.0                               | 43.3                        |
| Royal Free London NHS Foundation Trust                         | 48               | 94.0  | 1,591                            | 42.3                           | 1,411   | 55.9                               | 28.6                        |
| University Hospitals Coventry and Warwickshire NHS Trust       | 49               | 100.0   | 990                              | 59.5                           | 916   | 89.2                               | 52.8                        |
| Salisbury NHS Foundation Trust                                 | 51               | 100.0   | 455                              | 37.6                           | 411   | 76.6                               | 27.3                        |
| Nottingham University Hospitals NHS Trust                      | 55               | 87.7  | 1,134                            | 48.9                           | 970   | 89.4                               | 40.2                        |
| Yeovil District Hospital NHS Foundation Trust                  | 56               | 100.0   | 971                              | 98.7                           | 757   | 91.8                               | 90.4                        |
| SpaMedica – Manchester   | 57               | 100.0   | 3,591                            | 95.7                           | 2,618   | 80.3                               | 76.5                        |

| Centre name  | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|--|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| SpaMedica - Wakefield                                      | 58               | 100.0   | 3,310                            | 98.0                           | 2,490   | 79.6                               | 77.6                        |
| East Sussex Healthcare NHS Trust                           | 59               | 100.0   | 2,172                            | 71.8                           | 1,781   | 73.8                               | 51.6                        |
| Imperial College Healthcare NHS Trust                      | 60               | 100.0   | 1,274                            | 78.0                           | 1,173   | 77.1                               | 61.0                        |
| Portsmouth Hospitals University NHS Trust                  | 61               | 100.0   | 911                              | 93.2                           | 573   | 91.3                               | 82.4                        |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 100.0   | 985                              | 70.4                           | 701   | 75.9                               | 44.9                        |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 30.0  | 167                              | 38.3                           | 163   | 50.3                               | 22.7                        |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 84.8  | 2,993                            | 72.8                           | 2,526   | 62.4                               | 40.8                        |
| SpaMedica - Birkenhead                                     | 66               | 100.0   | 2,057                            | 96.0                           | 1,514   | 87.8                               | 83.5                        |
| County Durham and Darlington NHS Foundation Trust          | 67               | 100.0   | 925                              | 42.8                           | 784   | 48.6                               | 23.9                        |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 88.6  | 337                              | 51.9                           | 337   | 36.2                               | 22.6                        |
| Northampton General Hospital NHS Trust                     | 70               | 57.6  | 420                              | 27.6                           | 272   | 8.1                                | 2.2                         |
| SpaMedica – Liverpool                                      | 71               | 100.0   | 1,292                            | 96.4                           | 707   | 85.9                               | 81.9                        |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 100.0   | 1,333                            | 68.8                           | 1,061   | 79.5                               | 56.5                        |
| Bolton NHS Foundation Trust                                | 73               | 100.0   | 904                              | 95.8                           | 620   | 86.1                               | 81.1                        |
| Kingston Hospital NHS Foundation Trust                     | 74               | 100.0   | 1,215                            | 5.4                            | 889   | 0.1                                | 0.0                         |
| Torbay and South Devon NHS Foundation Trust                | 77               | 100.0   | 1,048                            | 71.2                           | 711   | 48.9                               | 39.0                        |
| Great Western Hospitals NHS Foundation Trust               | 78               | 94.9  | 738                              | 92.3                           | 638   | 87.6                               | 79.6                        |
| SpaMedica – Bolton   | 79               | 100.0   | 2,997                            | 97.2                           | 2,210   | 88.4                               | 85.5                        |
| Cwm Taf Morgannwg University Local Health Board            | 82               | 28.4  | 137                              | 51.1                           | 109   | 52.3                               | 26.6                        |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 100.0   | 672                              | 61.0                           | 584   | 48.3                               | 29.8                        |
| Southport and Ormskirk Hospital NHS Trust                  | 86               | 82.7  | 257                              | 97.7                           | 222   | 71.2                               | 69.8                        |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 100.0   | 923                              | 65.0                           | 661   | 96.2                               | 50.7                        |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 100.0   | 1,397                            | 63.5                           | 1,189   | 29.9                               | 23.3                        |
| Practice Plus Group Hospital, Emersons Green               | 90               | 100.0   | 893                              | 82.3                           | 634   | 70.8                               | 49.2                        |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 100.0   | 1,053                            | 70.5                           | 648   | 65.3                               | 37.7                        |

| Centre name                                      | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|--|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| SpaMedica - Sheffield                            | 92               | 100.0   | 3,128                            | 94.8                           | 2,247   | 72.5                               | 67.8                        |
| Practice Plus Group Hospital, Plymouth           | 93               | 100.0   | 560                              | 35.5                           | 351   | 16.8                               | 10.5                        |
| Practice Plus Group Ophthalmology, Rochdale      | 95               | 100.0   | 971                              | 97.8                           | 642   | 86.3                               | 83.8                        |
| Practice Plus Group Hospital, Ilford             | 97               | 100.0   | 466                              | 65.7                           | 392   | 21.7                               | 16.3                        |
| North Middlesex University Hospital NHS Trust    | 98               | 100.0   | 418                              | 53.1                           | 386   | 92.7                               | 43.8                        |
| University Hospitals Sussex NHS Foundation Trust | 99               | 33.4  | 1,345                            | 61.7                           | 1,124   | 3.4                                | 2.8                         |
| Practice Plus Group Surgical Centre, Devizes     | 100              | 100.0   | 272                              | 88.2                           | 151   | 97.4                               | 76.2                        |
| Surrey and Sussex Healthcare NHS Trust           | 101              | 100.0   | 692                              | 94.5                           | 343   | 45.5                               | 44.3                        |
| Aneurin Bevan University Local Health Board      | 102              | 19.3  | 146                              | 97.9                           | 126   | 96.8                               | 94.4                        |
| Practice Plus Group Hospital, Southampton        | 103              | 100.0   | 220                              | 26.4                           | 202   | 35.1                               | 15.8                        |
| SpaMedica – Birmingham                           | 104              | 100.0   | 3,599                            | 96.7                           | 2,565   | 83.9                               | 80.5                        |
| St. Stephens Gate Medical Practice               | 105              | **  | 129                              | 92.2                           | 93  | 36.6                               | 35.5                        |
| The Dudley Group NHS Foundation Trust            | 106              | 100.0   | 288                              | 43.1                           | 211   | 74.9                               | 25.1                        |
| East Cheshire NHS Trust                          | 108              | 99.4  | 683                              | 69.0                           | 576   | 55.4                               | 38.7                        |
| Guy's and St Thomas' NHS Foundation Trust        | 110              | 69.4  | 747                              | 89.0                           | 735   | 94.3                               | 84.6                        |
| Buckinghamshire Healthcare NHS Trust             | 111              | 100.0   | 3,173                            | 31.8                           | 2,477   | 8.6                                | 4.8                         |
| SpaMedica – Bradford                             | 112              | 100.0   | 1,251                            | 96.6                           | 852   | 74.5                               | 72.2                        |
| SpaMedica – West Lancashire                      | 113              | 100.0   | 843                              | 92.6                           | 560   | 90.0                               | 81.3                        |
| Somerset NHS Foundation Trust                    | 114              | 100.0   | 1,101                            | 41.6                           | 1,013   | 73.2                               | 29.4                        |
| Medical specialists group Guernsey               | 115              | ***   | 342                              | 80.1                           | 310   | 69.7                               | 58.1                        |
| Hywel Dda University Local Health Board          | 116              | 37.5  | 56                               | 23.2                           | 38  | ****                               | ****                        |
| George Eliot Hospital NHS Trust                  | 117              | 100.0   | 548                              | 29.7                           | 498   | 95.8                               | 29.5                        |
| SpaMedica – Newcastle Under Lyme                 | 118              | 100.0   | 1,893                            | 96.2                           | 1,415   | 90.0                               | 86.2                        |
| SpaMedica - Widnes                               | 119              | 100.0   | 1,499                            | 97.4                           | 1,062   | 82.1                               | 79.5                        |
| Kettering General Hospital NHS Foundation Trust  | 120              | 88.7  | 172                              | 30.2                           | 156   | 7.7                                | 5.8                         |

| Centre name  | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|--|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| SpaMedica – Chelmsford                                 | 121              | 100.0   | 3,468                            | 97.6                           | 2,413   | 78.9                               | 76.5                        |
| Newmedica Community Ophthalmology (Teesside)           | 124              | 100.0   | 4,767                            | 0.0                            | 3,545   | 0.0                                | 0.0                         |
| SpaMedica – Preston                                    | 125              | 100.0   | 2,760                            | 94.4                           | 1,969   | 86.7                               | 81.0                        |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              | 100.0   | 2,616                            | 20.4                           | 1,994   | 6.1                                | 0.2                         |
| SpaMedica - Wolverhampton                              | 127              | 100.0   | 2,594                            | 97.6                           | 1,746   | 87.8                               | 85.5                        |
| Community Health and Eyecare Ltd (Blackpool)           | 128              | **  | 2,464                            | 97.6                           | 1,821   | 55.2                               | 53.8                        |
| Community Health and Eyecare Ltd (Watford)             | 129              | **  | 2,344                            | 80.7                           | 1,608   | 40.8                               | 34.8                        |
| SpaMedica - Hull                                       | 130              | 100.0   | 2,234                            | 96.6                           | 1,567   | 87.5                               | 83.9                        |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 100.0   | 2,027                            | 96.8                           | 1,447   | 70.1                               | 67.9                        |
| Newmedica Community Ophthalmology (Grimsby)            | 132              | 100.0   | 2,009                            | 6.6                            | 1,545   | 2.2                                | 0.0                         |
| Newmedica Community Ophthalmology (Bristol)            | 133              | 100.0   | 1,985                            | 26.8                           | 1,492   | 7.6                                | 2.0                         |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | 100.0   | 1,906                            | 90.1                           | 1,188   | 59.8                               | 49.5                        |
| Worcestershire Acute Hospitals NHS Trust               | 135              | 100.0   | 1,852                            | 51.7                           | 1,605   | 30.6                               | 13.8                        |
| Community Health and Eyecare Ltd (Stoke)               | 136              | **  | 1,836                            | 90.3                           | 1,412   | 9.1                                | 8.8                         |
| SpaMedica – Bedford                                    | 137              | 100.0   | 1,805                            | 95.2                           | 1,049   | 82.1                               | 76.1                        |
| Newmedica Community Ophthalmology (Leeds)              | 138              | 100.0   | 1,767                            | 6.9                            | 1,287   | 0.6                                | 0.6                         |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 100.0   | 1,765                            | 92.7                           | 1,163   | 71.8                               | 69.3                        |
| SpaMedica – Coventry                                   | 140              | 100.0   | 1,564                            | 98.8                           | 886   | 86.8                               | 85.3                        |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 100.0   | 1,508                            | 98.9                           | 893   | 78.4                               | 77.0                        |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | **  | 1,418                            | 86.0                           | 847   | 73.9                               | 59.0                        |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | 100.0   | 1,155                            | 90.0                           | 915   | 62.4                               | 53.8                        |
| Newmedica Community Ophthalmology (Ipswich)            | 144              | 100.0   | 972                              | 0.0                            | 510   | 0.0                                | 0.0                         |
| Newmedica Community Ophthalmology (Barlborough)        | 145              | 100.0   | 969                              | 52.0                           | 674   | 51.6                               | 49.0                        |
| Newmedica Community Ophthalmology (Exeter)             | 146              | 100.0   | 724                              | 28.0                           | 444   | 12.6                               | 12.6                        |
| SpaMedica - Derby                                      | 147              | 100.0   | 711                              | 99.4                           | 271   | 84.1                               | 83.8                        |

| Centre name                                   | Centre<br>number | Estimate of cases<br>submitted to the<br>audit (%)* | Number of eligible<br>operations | % with preoperative<br>VA data | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | % with change<br>in VA data |
|---|------------------|---|----------------------------------|--------------------------------|---|------------------------------------|-----------------------------|
| Exeter Eye                                    | 148              | ***   | 688                              | 87.1                           | 504   | 73.6                               | 61.3                        |
| SpaMedica – Bromley                           | 149              | 100.0   | 473                              | 99.4                           | 80  | 80.0                               | 80.0                        |
| SpaMedica – Wokingham                         | 150              | 100.0   | 397                              | 99.7                           | 107   | 90.7                               | 90.7                        |
| SpaMedica – Stockton-on-Tees                  | 151              | 100.0   | 284                              | 100.0                          | 105   | 90.5                               | 90.5                        |
| Tetbury Hospital                              | 152              | 98.0  | 251                              | 63.3                           | 251   | 94.4                               | 59.8                        |
| Newmedica Community Ophthalmology (Brigg)     | 153              | 100.0   | 249                              | 42.2                           | 0   | ****                               | ****                        |
| West Suffolk NHS Foundation Trust             | 154              | 62.6  | 168                              | 83.3                           | 112   | 69.6                               | 58.0                        |
| Northern Care Alliance NHS Foundation Trust   | 155              | 22.5  | 148                              | 43.9                           | 12  | ****                               | ****                        |
| Newmedica Community Ophthalmology (Frome)     | 156              | 100.0   | 128                              | 65.6                           | 33  | ****                               | ****                        |
| Community Health and Eyecare Ltd (Preston)    | 157              | **  | 127                              | 98.4                           | 0   | ****                               | ****                        |
| The Stoneygate Eye Hospital                   | 158              | 11.0  | 114                              | 95.6                           | 113   | 98.2                               | 94.7                        |
| Newmedica Community Ophthalmology (Wakefield) | 159              | 100.0   | 77                               | 0.0                            | 10  | ****                               | ****                        |
| Overall for all centres                       | N/A              | 100.0   | 172,320                          | 71.0                           | 132,322   | 59.8                               | 47.4                        |

\*The estimate of the proportion of cases submitted to the audit is derived from the number of completed cataract operations supplied to NHS Digital or DHCW for the NHS year. This estimation uses a pro rata calculation for a centre's denominator where the proportion of time during the NHS year that a centre had been recording cataract operations was multiplied by the number of cataract operations supplied to NHS Digital or DHCW. The numerator was the number of operations a centre had supplied to the audit. Centres that had more operations submitted to the national audit than in the NHS Digital or DHCW data were all assumed to have a complete submission rate as the actual rate was not possible to estimate.\*\*These centres had no data in the NHS digital data. \*\*\*These centres do not have to report to either NHS Digital or DHCW. \*\*\*\*No estimate is produced for centres with <50 eligible operations in the postoperative qualifying time period.

| Centre name   | Centre<br>number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|---|------------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| Moorfields Eye Hospital NHS Foundation Trust                  | 1                | 6,337   | 71.8                               | 4,060                           | 76.2  | 2,277                            | 64.0  |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust        | 2                | 3,142   | 44.0                               | 1,689                           | 53.1  | 1,453                            | 33.4  |
| Norfolk and Norwich University Hospitals NHS Foundation Trust | 3                | 891   | 17.2                               | 509                             | 20.6  | 382                              | 12.6  |
| Leeds Teaching Hospitals NHS Trust                            | 4                | 610   | 78.9                               | 329                             | 86.0  | 281                              | 70.5  |
| York and Scarborough Teaching Hospitals NHS Foundation Trust  | 5                | 2,091   | 32.9                               | 1,163                           | 36.5  | 928                              | 28.2  |
| Oxford University Hospitals NHS Foundation Trust              | 6                | 1,834   | 39.3                               | 1,145                           | 39.6  | 689                              | 38.9  |
| University Hospitals Bristol and Weston NHS Foundation Trust  | 7                | 996   | 64.2                               | 513                             | 65.7  | 483                              | 62.5  |
| Gloucestershire Hospitals NHS Foundation Trust                | 8                | 1,003   | 75.9                               | 570                             | 90.5  | 433                              | 56.6  |
| Sandwell and West Birmingham Hospitals NHS Trust              | 10               | 938   | 89.7                               | 574                             | 90.9  | 364                              | 87.6  |
| University Hospital Southampton NHS Foundation Trust          | 11               | 1,207   | 91.6                               | 650                             | 93.7  | 557                              | 89.2  |
| Mid Cheshire Hospitals NHS Foundation Trust                   | 14               | 940   | 71.7                               | 576                             | 76.0  | 364                              | 64.8  |
| The Mid Yorkshire Hospitals NHS Trust                         | 15               | 773   | 78.7                               | 445                             | 83.4  | 328                              | 72.3  |
| Cardiff & Vale University Local Health Board                  | 16               | 605   | 43.5                               | 267                             | 43.8  | 338                              | 43.2  |
| Epsom and St Helier University Hospitals NHS Trust            | 17               | 1,551   | 61.8                               | 799                             | 65.3  | 752                              | 58.0  |
| Barts Health NHS Trust  | 18               | 1,106   | 68.4                               | 601                             | 74.2  | 505                              | 61.6  |
| Frimley Health NHS Foundation Trust                           | 19               | 1,595   | 57.7                               | 943                             | 59.8  | 652                              | 54.8  |
| Bradford Teaching Hospitals NHS Foundation Trust              | 20               | 402   | 51.2                               | 238                             | 52.5  | 164                              | 49.4  |
| University Hospitals Plymouth NHS Trust                       | 22               | 1,282   | 71.6                               | 649                             | 65.2  | 633                              | 78.2  |
| University Hospitals Birmingham NHS Foundation Trust          | 23               | 1,113   | 83.6                               | 597                             | 89.4  | 516                              | 76.7  |
| Hampshire Hospitals NHS Foundation Trust                      | 24               | 1,401   | 44.0                               | 758                             | 46.7  | 643                              | 40.7  |
| Royal Cornwall Hospitals NHS Trust                            | 25               | 1,892   | 57.6                               | 1,064                           | 75.3  | 828                              | 34.8  |
| Manchester University NHS Foundation Trust                    | 26               | 650   | 28.9                               | 352                             | 33.5  | 298                              | 23.5  |

| Centre name  | Centre<br>number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|--|------------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| King's College Hospital NHS Foundation Trust                   | 27               | 2,129   | 86.8                               | 1,139                           | 89.4  | 990                              | 83.8  |
| The Shrewsbury and Telford Hospital NHS Trust                  | 28               | 537   | 60.1                               | 328                             | 67.7  | 209                              | 48.3  |
| The Hillingdon Hospitals NHS Foundation Trust                  | 30               | 533   | 40.9                               | 320                             | 49.1  | 213                              | 28.6  |
| Liverpool University Hospitals NHS Foundation Trust            | 31               | 992   | 79.8                               | 653                             | 79.0  | 339                              | 81.4  |
| Royal United Hospitals Bath NHS Foundation Trust               | 32               | 814   | 45.7                               | 432                             | 48.8  | 382                              | 42.1  |
| Chesterfield Royal Hospital NHS Foundation Trust               | 33               | 397   | 96.7                               | 236                             | 98.3  | 161                              | 94.4  |
| Mid and South Essex NHS Foundation Trust                       | 34               | 1,199   | 7.0                                | 792                             | 7.2   | 407                              | 6.6   |
| Harrogate and District NHS Foundation Trust                    | 35               | 277   | 17.0                               | 120                             | 24.2  | 157                              | 11.5  |
| North West Anglia NHS Foundation Trust                         | 36               | 524   | 69.7                               | 346                             | 68.5  | 178                              | 71.9  |
| Northern Devon Healthcare NHS Trust                            | 37               | 711   | 80.5                               | 419                             | 80.7  | 292                              | 80.1  |
| Wirral University Teaching Hospital NHS Foundation Trust       | 39               | 426   | 86.4                               | 259                             | 88.4  | 167                              | 83.2  |
| South Warwickshire NHS Foundation Trust                        | 40               | 834   | 70.6                               | 419                             | 86.4  | 415                              | 54.7  |
| Isle of Wight NHS Trust  | 41               | 865   | 85.8                               | 486                             | 86.8  | 379                              | 84.4  |
| St Helens and Knowsley Teaching Hospitals NHS Trust            | 42               | 674   | 53.7                               | 471                             | 53.7  | 203                              | 53.7  |
| Wrightington, Wigan and Leigh NHS Foundation Trust             | 43               | 326   | 90.5                               | 166                             | 90.4  | 160                              | 90.6  |
| Warrington and Halton Teaching Hospitals NHS Foundation Trust  | 44               | 305   | 96.4                               | 185                             | 97.3  | 120                              | 95.0  |
| South Tees Hospitals NHS Foundation Trust                      | 45               | 1,116   | 37.7                               | 633                             | 39.2  | 483                              | 35.8  |
| University Hospitals Dorset NHS Foundation Trust               | 46               | 2,415   | 60.5                               | 1,653                           | 61.8  | 762                              | 57.7  |
| Barking, Havering and Redbridge University Hospitals NHS Trust | 47               | 559   | 47.0                               | 350                             | 48.9  | 209                              | 44.0  |
| Royal Free London NHS Foundation Trust                         | 48               | 1,411   | 55.9                               | 879                             | 59.2  | 532                              | 50.6  |
| University Hospitals Coventry and Warwickshire NHS Trust       | 49               | 916   | 89.2                               | 482                             | 91.9  | 434                              | 86.2  |
| Salisbury NHS Foundation Trust                                 | 51               | 411   | 76.6                               | 208                             | 76.9  | 203                              | 76.4  |
| Nottingham University Hospitals NHS Trust                      | 55               | 970   | 89.4                               | 531                             | 90.2  | 439                              | 88.4  |
| Yeovil District Hospital NHS Foundation Trust                  | 56               | 757   | 91.8                               | 362                             | 95.3  | 395                              | 88.6  |
| SpaMedica – Manchester   | 57               | 2,618   | 80.3                               | 1,615                           | 84.5  | 1,003                            | 73.6  |

| Centre name  | Centre<br>number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|--|------------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| SpaMedica – Wakefield                                      | 58               | 2,490   | 79.6                               | 1,543                           | 83.7  | 947                              | 73.0  |
| East Sussex Healthcare NHS Trust                           | 59               | 1,781   | 73.8                               | 1,057                           | 74.6  | 724                              | 72.8  |
| Imperial College Healthcare NHS Trust                      | 60               | 1,173   | 77.1                               | 639                             | 80.6  | 534                              | 72.8  |
| Portsmouth Hospitals University NHS Trust                  | 61               | 573   | 91.3                               | 335                             | 91.3  | 238                              | 91.2  |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 701   | 75.9                               | 422                             | 79.1  | 279                              | 71.0  |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 163   | 50.3                               | 31                              | 58.1  | 132                              | 48.5  |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 2,526   | 62.4                               | 1,592                           | 61.6  | 934                              | 63.8  |
| SpaMedica – Birkenhead                                     | 66               | 1,514   | 87.8                               | 925                             | 90.7  | 589                              | 83.4  |
| County Durham and Darlington NHS Foundation Trust          | 67               | 784   | 48.6                               | 366                             | 59.8  | 418                              | 38.8  |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 337   | 36.2                               | 297                             | 36.0  | 40                               | 37.5  |
| Northampton General Hospital NHS Trust                     | 70               | 272   | 8.1                                | 183                             | 8.2   | 89                               | 7.9   |
| SpaMedica – Liverpool                                      | 71               | 707   | 85.9                               | 458                             | 87.8  | 249                              | 82.3  |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 1,061   | 79.5                               | 738                             | 81.0  | 323                              | 75.9  |
| Bolton NHS Foundation Trust                                | 73               | 620   | 86.1                               | 335                             | 87.5  | 285                              | 84.6  |
| Kingston Hospital NHS Foundation Trust                     | 74               | 889   | 0.1                                | 585                             | 0.2   | 304                              | 0.0   |
| Torbay and South Devon NHS Foundation Trust                | 77               | 711   | 48.9                               | 391                             | 54.2  | 320                              | 42.5  |
| Great Western Hospitals NHS Foundation Trust               | 78               | 638   | 87.6                               | 369                             | 87.5  | 269                              | 87.7  |
| SpaMedica – Bolton   | 79               | 2,210   | 88.4                               | 1,326                           | 91.0  | 884                              | 84.5  |
| Cwm Taf Morgannwg University Local Health Board            | 82               | 109   | 52.3                               | 67                              | 56.7  | 42                               | 45.2  |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 584   | 48.3                               | 409                             | 50.4  | 175                              | 43.4  |
| Southport and Ormskirk Hospital NHS Trust                  | 86               | 222   | 71.2                               | 132                             | 72.0  | 90                               | 70.0  |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 661   | 96.2                               | 378                             | 97.1  | 283                              | 95.1  |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 1,189   | 29.9                               | 644                             | 45.7  | 545                              | 11.4  |
| Practice Plus Group Hospital, Emersons Green               | 90               | 634   | 70.8                               | 381                             | 68.8  | 253                              | 73.9  |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 648   | 65.3                               | 358                             | 68.2  | 290                              | 61.7  |

| Centre name                                      | Centre number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|--|---------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| SpaMedica – Sheffield                            | 92            | 2,247   | 72.5                               | 1,405                           | 76.4  | 842                              | 65.9  |
| Practice Plus Group Hospital, Plymouth           | 93            | 351   | 16.8                               | 220                             | 20.5  | 131                              | 10.7  |
| Practice Plus Group Ophthalmology, Rochdale      | 95            | 642   | 86.3                               | 361                             | 90.0  | 281                              | 81.5  |
| Practice Plus Group Hospital, Ilford             | 97            | 392   | 21.7                               | 241                             | 27.0  | 151                              | 13.2  |
| North Middlesex University Hospital NHS Trust    | 98            | 386   | 92.7                               | 226                             | 92.9  | 160                              | 92.5  |
| University Hospitals Sussex NHS Foundation Trust | 99            | 1,124   | 3.4                                | 706                             | 3.5   | 418                              | 3.1   |
| Practice Plus Group Surgical Centre, Devizes     | 100           | 151   | 97.4                               | 87                              | 98.9  | 64                               | 95.3  |
| Surrey and Sussex Healthcare NHS Trust           | 101           | 343   | 45.5                               | 246                             | 50.8  | 97                               | 32.0  |
| Aneurin Bevan University Local Health Board      | 102           | 126   | 96.8                               | 70                              | 95.7  | 56                               | 98.2  |
| Practice Plus Group Hospital, Southampton        | 103           | 202   | 35.1                               | 126                             | 34.9  | 76                               | 35.5  |
| SpaMedica – Birmingham                           | 104           | 2,565   | 83.9                               | 1,618                           | 87.0  | 947                              | 78.8  |
| St. Stephens Gate Medical Practice               | 105           | 93  | 36.6                               | 56                              | 28.6  | 37                               | 48.6  |
| The Dudley Group NHS Foundation Trust            | 106           | 211   | 74.9                               | 152                             | 75.0  | 59                               | 74.6  |
| East Cheshire NHS Trust                          | 108           | 576   | 55.4                               | 299                             | 62.9  | 277                              | 47.3  |
| Guy's and St Thomas' NHS Foundation Trust        | 110           | 735   | 94.3                               | 472                             | 95.1  | 263                              | 92.8  |
| Buckinghamshire Healthcare NHS Trust             | 111           | 2,477   | 8.6                                | 1,419                           | 8.8   | 1,058                            | 8.3   |
| SpaMedica – Bradford                             | 112           | 852   | 74.5                               | 560                             | 76.1  | 292                              | 71.6  |
| SpaMedica – West Lancashire                      | 113           | 560   | 90.0                               | 354                             | 91.5  | 206                              | 87.4  |
| Somerset NHS Foundation Trust                    | 114           | 1,013   | 73.2                               | 579                             | 75.1  | 434                              | 70.7  |
| Medical specialists group Guernsey               | 115           | 310   | 69.7                               | 177                             | 75.7  | 133                              | 61.7  |
| Hywel Dda University Local Health Board          | 116           | 38  | *                                  | 31                              | *   | 7                                | *   |
| George Eliot Hospital NHS Trust                  | 117           | 498   | 95.8                               | 324                             | 95.4  | 174                              | 96.6  |
| SpaMedica – Newcastle Under Lyme                 | 118           | 1,415   | 90.0                               | 901                             | 92.5  | 514                              | 85.6  |
| SpaMedica – Widnes                               | 119           | 1,062   | 82.1                               | 652                             | 84.2  | 410                              | 78.8  |
| Kettering General Hospital NHS Foundation Trust  | 120           | 156   | 7.7                                | 105                             | 7.6   | 51                               | 7.8   |

| Centre name  | Centre number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|--|---------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| SpaMedica – Chelmsford                                 | 121           | 2,413   | 78.9                               | 1,535                           | 79.8  | 878                              | 77.2  |
| Newmedica Community Ophthalmology (Teesside)           | 124           | 3,545   | 0.0                                | 2,370                           | 0.0   | 1,175                            | 0.0   |
| SpaMedica – Preston                                    | 125           | 1,969   | 86.7                               | 1,115                           | 89.6  | 854                              | 82.9  |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126           | 1,994   | 6.1                                | 1,480                           | 6.8   | 514                              | 4.1   |
| SpaMedica - Wolverhampton                              | 127           | 1,746   | 87.8                               | 1,275                           | 89.3  | 471                              | 83.9  |
| Community Health and Eyecare Ltd (Blackpool)           | 128           | 1,821   | 55.2                               | 1,447                           | 58.2  | 374                              | 43.6  |
| Community Health and Eyecare Ltd (Watford)             | 129           | 1,608   | 40.8                               | 1,211                           | 37.7  | 397                              | 50.4  |
| SpaMedica – Hull                                       | 130           | 1,567   | 87.5                               | 988                             | 90.7  | 579                              | 82.0  |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131           | 1,447   | 70.1                               | 839                             | 75.0  | 608                              | 63.5  |
| Newmedica Community Ophthalmology (Grimsby)            | 132           | 1,545   | 2.2                                | 1,055                           | 2.1   | 490                              | 2.4   |
| Newmedica Community Ophthalmology (Bristol)            | 133           | 1,492   | 7.6                                | 1,163                           | 7.5   | 329                              | 7.9   |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134           | 1,188   | 59.8                               | 699                             | 63.8  | 489                              | 54.0  |
| Worcestershire Acute Hospitals NHS Trust               | 135           | 1,605   | 30.6                               | 1,514                           | 30.4  | 91                               | 33.0  |
| Community Health and Eyecare Ltd (Stoke)               | 136           | 1,412   | 9.1                                | 978                             | 9.8   | 434                              | 7.4   |
| SpaMedica – Bedford                                    | 137           | 1,049   | 82.1                               | 712                             | 84.0  | 337                              | 78.0  |
| Newmedica Community Ophthalmology (Leeds)              | 138           | 1,287   | 0.6                                | 843                             | 0.8   | 444                              | 0.2   |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139           | 1,163   | 71.8                               | 724                             | 75.4  | 439                              | 65.8  |
| SpaMedica – Coventry                                   | 140           | 886   | 86.8                               | 659                             | 87.9  | 227                              | 83.7  |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141           | 893   | 78.4                               | 542                             | 80.8  | 351                              | 74.6  |
| Optegra Eye Health Care (North London Eye Hospital)    | 142           | 847   | 73.9                               | 539                             | 77.7  | 308                              | 67.2  |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143           | 915   | 62.4                               | 539                             | 66.8  | 376                              | 56.1  |
| Newmedica Community Ophthalmology (Ipswich)            | 144           | 510   | 0.0                                | 479                             | 0.0   | 31                               | 0.0   |
| Newmedica Community Ophthalmology (Barlborough)        | 145           | 674   | 51.6                               | 489                             | 47.0  | 185                              | 63.8  |
| Newmedica Community Ophthalmology (Exeter)             | 146           | 444   | 12.6                               | 408                             | 10.8  | 36                               | 33.3  |
| SpaMedica – Derby                                      | 147           | 271   | 84.1                               | 193                             | 84.5  | 78                               | 83.3  |

| Centre name                                   | Centre<br>number | Number of<br>operations eligible<br>for postoperative<br>VA results | % with<br>postoperative<br>VA data | Number of first<br>treated eyes | % first treated eyes<br>with postoperative<br>VA data | Number of second<br>treated eyes | % second<br>treated eyes with<br>postoperative<br>VA data |
|---|------------------|---|------------------------------------|---------------------------------|---|----------------------------------|---|
| Exeter Eye                                    | 148              | 504   | 73.6                               | 309                             | 76.7  | 195                              | 68.7  |
| SpaMedica – Bromley                           | 149              | 80  | 80.0                               | 77                              | 79.2  | 3                                | 100.0   |
| SpaMedica – Wokingham                         | 150              | 107   | 90.7                               | 101                             | 90.1  | 6                                | 100.0   |
| SpaMedica – Stockton-on-Tees                  | 151              | 105   | 90.5                               | 85                              | 95.3  | 20                               | 70.0  |
| Tetbury Hospital                              | 152              | 251   | 94.4                               | 167                             | 95.2  | 84                               | 92.9  |
| Newmedica Community Ophthalmology (Brigg)     | 153              | 0   | *                                  | 0                               | *   | 0                                | *   |
| West Suffolk NHS Foundation Trust             | 154              | 112   | 69.6                               | 91                              | 72.5  | 21                               | 57.1  |
| Northern Care Alliance NHS Foundation Trust   | 155              | 12  | *                                  | 12                              | *   | 0                                | *   |
| Newmedica Community Ophthalmology (Frome)     | 156              | 33  | *                                  | 30                              | *   | 3                                | *   |
| Community Health and Eyecare Ltd (Preston)    | 157              | 0   | *                                  | 0                               | *   | 0                                | *   |
| The Stoneygate Eye Hospital                   | 158              | 113   | 98.2                               | 63                              | 96.8  | 50                               | 100.0   |
| Newmedica Community Ophthalmology (Wakefield) | 159              | 10  | *                                  | 10                              | *   | 0                                | *   |
| Overall for all centres                       | N/A              | 132,322   | 59.8                               | 81,981                          | 61.3  | 50,341                           | 57.4  |

Note: Both eyes from a patient undergoing immediate sequential bilateral cataract surgery are included as 'first treated' eyes. \*No estimate is produced for centres with <50 eligible operations in the postoperative qualifying time period.

|  |                  | C                    |                            | osular Rupture<br>urgeon PCR rate = 1.1 | %                        | Ove                  |                                | cuity Loss<br>geon VA Loss rate = ( | ).9%                         |
|--|------------------|----------------------|----------------------------|---|--------------------------|----------------------|--------------------------------|-------------------------------------|------------------------------|
| Centre name  | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of operations | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%)        | Adjusted VA Loss<br>rate (%) |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 7,760                | 1.38                       | 1.90                                    | 0.80                     |                      |                                |                                     |                              |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust           | 2                | 3,428                | 0.82                       | 1.60                                    | 0.56                     |                      |                                |                                     |                              |
| Norfolk and Norwich University Hospitals NHS Foundation<br>Trust | 3                | 942                  | 0.53                       | 1.60                                    | 0.37                     |                      |                                |                                     |                              |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 688                  | 1.60                       | 2.11                                    | 0.83                     | 399                  | 1.25                           | 1.29                                | 0.87                         |
| York and Scarborough Teaching Hospitals NHS Foundation<br>Trust  | 5                | 2,720                | 0.51                       | 1.58                                    | 0.36                     |                      |                                |                                     |                              |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 2,065                | 3.10                       | 2.37                                    | 1.44                     |                      |                                |                                     |                              |
| University Hospitals Bristol and Weston NHS Foundation Trust     | 7                | 1,084                | 0.83                       | 2.21                                    | 0.41                     |                      |                                |                                     |                              |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 1,214                | 1.48                       | 1.77                                    | 0.92                     |                      |                                |                                     |                              |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 966                  | 3.62                       | 2.35                                    | 1.69                     | 673                  | 1.04                           | 1.06                                | 0.88                         |
| University Hospital Southampton NHS Foundation Trust             | 11               | 1,458                | 1.10                       | 1.77                                    | 0.68                     | 923                  | 0.65                           | 1.15                                | 0.51                         |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 984                  | 1.83                       | 1.74                                    | 1.16                     | 583                  | 0.86                           | 0.99                                | 0.78                         |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 942                  | 1.27                       | 1.93                                    | 0.73                     |                      |                                |                                     |                              |
| Cardiff & Vale University Local Health Board                     | 16               | 803                  | 1.74                       | 1.76                                    | 1.09                     |                      |                                |                                     |                              |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 1,635                | 1.53                       | 1.76                                    | 0.96                     |                      |                                |                                     |                              |
| Barts Health NHS Trust   | 18               | 1,134                | 2.29                       | 2.06                                    | 1.22                     |                      |                                |                                     |                              |
| Frimley Health NHS Foundation Trust                              | 19               | 1,702                | 1.12                       | 1.61                                    | 0.76                     |                      |                                |                                     |                              |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 418                  | 1.67                       | 1.71                                    | 1.08                     |                      |                                |                                     |                              |
| University Hospitals Plymouth NHS Trust                          | 22               | 1,569                | 0.89                       | 1.91                                    | 0.51                     |                      |                                |                                     |                              |
| University Hospitals Birmingham NHS Foundation Trust             | 23               | 1,378                | 1.60                       | 2.08                                    | 0.85                     |                      |                                |                                     |                              |
| Hampshire Hospitals NHS Foundation Trust                         | 24               | 1,830                | 0.55                       | 1.40                                    | 0.43                     |                      |                                |                                     |                              |
| Royal Cornwall Hospitals NHS Trust                               | 25               | 2,478                | 0.69                       | 1.76                                    | 0.43                     |                      |                                |                                     |                              |
| Manchester University NHS Foundation Trust                       | 26               | 650                  | 1.69                       | 1.97                                    | 0.95                     |                      |                                |                                     |                              |

|   |                  | C                    |                            | osular Rupture<br>urgeon PCR rate = 1.1 | %                        | Ove                     |                                | cuity Loss<br>geon VA Loss rate = ( | ).9%                         |
|---|------------------|----------------------|----------------------------|---|--------------------------|-------------------------|--------------------------------|-------------------------------------|------------------------------|
| Centre name   | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of<br>operations | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%)        | Adjusted VA Loss<br>rate (%) |
| King's College Hospital NHS Foundation Trust                      | 27               | 2,403                | 1.62                       | 1.84                                    | 0.97                     | 1,631                   | 0.55                           | 1.25                                | 0.40                         |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 728                  | 1.65                       | 1.78                                    | 1.02                     |                         |                                |                                     |                              |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 640                  | 1.25                       | 2.71                                    | 0.51                     |                         |                                |                                     |                              |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 1,072                | 3.82                       | 2.46                                    | 1.71                     |                         |                                |                                     |                              |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 979                  | 1.63                       | 2.04                                    | 0.88                     |                         |                                |                                     |                              |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 509                  | 0.98                       | 1.56                                    | 0.69                     |                         |                                |                                     |                              |
| Mid and South Essex NHS Foundation Trust                          | 34               | 1,378                | 1.52                       | 1.77                                    | 0.95                     |                         |                                |                                     |                              |
| Harrogate and District NHS Foundation Trust                       | 35               | 291                  | 0.00                       | 1.67                                    | 0.00                     |                         |                                |                                     |                              |
| North West Anglia NHS Foundation Trust                            | 36               | 625                  | 1.60                       | 2.26                                    | 0.78                     |                         |                                |                                     |                              |
| Northern Devon Healthcare NHS Trust                               | 37               | 942                  | 0.74                       | 1.63                                    | 0.50                     | 556                     | 0.90                           | 1.30                                | 0.62                         |
| Wirral University Teaching Hospital NHS Foundation Trust          | 39               | 462                  | 0.87                       | 1.77                                    | 0.54                     | 264                     | 1.52                           | 1.06                                | 1.28                         |
| South Warwickshire NHS Foundation Trust                           | 40               | 1,004                | 0.90                       | 1.63                                    | 0.61                     |                         |                                |                                     |                              |
| Isle of Wight NHS Trust   | 41               | 1,020                | 1.08                       | 1.39                                    | 0.85                     |                         |                                |                                     |                              |
| St Helens and Knowsley Teaching Hospitals NHS Trust               | 42               | 745                  | 1.34                       | 1.71                                    | 0.86                     |                         |                                |                                     |                              |
| Wrightington, Wigan and Leigh NHS Foundation Trust                | 43               | 357                  | 0.84                       | 1.40                                    | 0.66                     | 232                     | 1.72                           | 0.77                                | 2.01                         |
| Warrington and Halton Teaching Hospitals NHS Foundation<br>Trust  | 44               | 458                  | 1.09                       | 1.46                                    | 0.83                     |                         |                                |                                     |                              |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 1,249                | 2.56                       | 1.58                                    | 1.79                     |                         |                                |                                     |                              |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 2,885                | 0.80                       | 1.66                                    | 0.53                     |                         |                                |                                     |                              |
| Barking, Havering and Redbridge University Hospitals NHS<br>Trust | 47               | 717                  | 1.67                       | 1.60                                    | 1.15                     |                         |                                |                                     |                              |
| Royal Free London NHS Foundation Trust                            | 48               | 1,591                | 2.14                       | 1.89                                    | 1.24                     |                         |                                |                                     |                              |
| University Hospitals Coventry and Warwickshire NHS Trust          | 49               | 990                  | 1.31                       | 2.29                                    | 0.63                     |                         |                                |                                     |                              |
| Salisbury NHS Foundation Trust                                    | 51               | 455                  | 1.76                       | 1.89                                    | 1.03                     |                         |                                |                                     |                              |
| Nottingham University Hospitals NHS Trust                         | 55               | 1,134                | 1.59                       | 2.09                                    | 0.83                     |                         |                                |                                     |                              |
| Yeovil District Hospital NHS Foundation Trust                     | 56               | 971                  | 1.34                       | 1.53                                    | 0.96                     | 684                     | 0.73                           | 1.16                                | 0.57                         |
| SpaMedica – Manchester  | 57               | 3,591                | 0.53                       | 1.27                                    | 0.46                     | 2,004                   | 0.30                           | 0.83                                | 0.33                         |

NOD Audit Sixth Annual Report – Fifth Prospective Audit Year Report

|  |                  | C                    |                            | osular Rupture<br>urgeon PCR rate = 1.1 | %                        | Ove                  |                                | cuity Loss<br>geon VA Loss rate = ( | ).9%                         |
|--|------------------|----------------------|----------------------------|---|--------------------------|----------------------|--------------------------------|-------------------------------------|------------------------------|
| Centre name  | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of operations | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%)        | Adjusted VA Loss<br>rate (%) |
| SpaMedica – Wakefield                                      | 58               | 3,310                | 0.48                       | 1.06                                    | 0.50                     | 1,933                | 0.26                           | 0.88                                | 0.26                         |
| East Sussex Healthcare NHS Trust                           | 59               | 2,172                | 1.38                       | 1.68                                    | 0.90                     |                      |                                |                                     |                              |
| Imperial College Healthcare NHS Trust                      | 60               | 1,274                | 3.06                       | 2.61                                    | 1.29                     | 715                  | 0.98                           | 1.02                                | 0.86                         |
| Portsmouth Hospitals University NHS Trust                  | 61               | 911                  | 1.21                       | 1.60                                    | 0.83                     | 472                  | 0.85                           | 0.92                                | 0.83                         |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 985                  | 0.41                       | 1.77                                    | 0.25                     |                      |                                |                                     |                              |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 167                  | 0.60                       | 1.77                                    | 0.37                     |                      |                                |                                     |                              |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 2,993                | 1.30                       | 1.85                                    | 0.77                     |                      |                                |                                     |                              |
| SpaMedica – Birkenhead                                     | 66               | 2,057                | 0.29                       | 1.14                                    | 0.28                     | 1,264                | 0.00                           | 0.91                                | 0.00                         |
| County Durham and Darlington NHS Foundation Trust          | 67               | 925                  | 1.95                       | 1.74                                    | 1.23                     |                      |                                |                                     |                              |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 337                  | 0.89                       | 1.49                                    | 0.66                     |                      |                                |                                     |                              |
| Northampton General Hospital NHS Trust                     | 70               | 420                  | 1.67                       | 1.70                                    | 1.08                     |                      |                                |                                     |                              |
| SpaMedica - Liverpool                                      | 71               | 1,292                | 0.15                       | 1.25                                    | 0.14                     | 579                  | 0.00                           | 0.79                                | 0.00                         |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 1,333                | 0.68                       | 1.47                                    | 0.51                     |                      |                                |                                     |                              |
| Bolton NHS Foundation Trust                                | 73               | 904                  | 1.55                       | 2.00                                    | 0.85                     | 503                  | 0.80                           | 1.08                                | 0.66                         |
| Kingston Hospital NHS Foundation Trust                     | 74               | 1,215                | 1.23                       | 1.46                                    | 0.93                     |                      |                                |                                     |                              |
| Torbay and South Devon NHS Foundation Trust                | 77               | 1,048                | 1.24                       | 1.94                                    | 0.70                     |                      |                                |                                     |                              |
| Great Western Hospitals NHS Foundation Trust               | 78               | 738                  | 0.95                       | 1.54                                    | 0.68                     | 508                  | 0.79                           | 1.39                                | 0.51                         |
| SpaMedica – Bolton   | 79               | 2,997                | 0.27                       | 1.08                                    | 0.27                     | 1,890                | 0.26                           | 0.78                                | 0.31                         |
| Cwm Taf Morgannwg University Local Health Board            | 82               | 137                  | 3.65                       | 2.14                                    | 1.87                     |                      |                                |                                     |                              |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 672                  | 1.19                       | 2.50                                    | 0.52                     |                      |                                |                                     |                              |
| Southport and Ormskirk Hospital NHS Trust                  | 86               | 257                  | 0.39                       | 1.47                                    | 0.29                     | 155                  | 1.29                           | 0.64                                | 1.81                         |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 923                  | 0.54                       | 1.18                                    | 0.51                     |                      |                                |                                     |                              |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 1,397                | 0.57                       | 1.12                                    | 0.56                     |                      |                                |                                     |                              |
| Practice Plus Group Hospital, Emersons Green               | 90               | 893                  | 0.22                       | 1.78                                    | 0.14                     |                      |                                |                                     |                              |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 1,053                | 0.57                       | 1.33                                    | 0.47                     |                      |                                |                                     |                              |

|  |                  | C                    |                            | osular Rupture<br>Jrgeon PCR rate = 1.1 | %                        | Ove                  |                                | cuity Loss<br>geon VA Loss rate = ( | ).9%                         |
|--|------------------|----------------------|----------------------------|---|--------------------------|----------------------|--------------------------------|-------------------------------------|------------------------------|
| Centre name                                      | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of operations | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%)        | Adjusted VA Loss<br>rate (%) |
| SpaMedica – Sheffield                            | 92               | 3,128                | 0.45                       | 1.37                                    | 0.36                     | 1,524                | 0.13                           | 0.91                                | 0.13                         |
| Practice Plus Group Hospital, Plymouth           | 93               | 560                  | 0.54                       | 1.14                                    | 0.52                     |                      |                                |                                     |                              |
| Practice Plus Group Ophthalmology, Rochdale      | 95               | 971                  | 0.72                       | 1.43                                    | 0.55                     | 538                  | 0.56                           | 0.77                                | 0.65                         |
| Practice Plus Group Hospital, Ilford             | 97               | 466                  | 0.86                       | 1.10                                    | 0.86                     |                      |                                |                                     |                              |
| North Middlesex University Hospital NHS Trust    | 98               | 418                  | 1.67                       | 1.50                                    | 1.22                     |                      |                                |                                     |                              |
| University Hospitals Sussex NHS Foundation Trust | 99               | 1,345                | 1.49                       | 1.52                                    | 1.08                     |                      |                                |                                     |                              |
| Practice Plus Group Surgical Centre, Devizes     | 100              | 272                  | 0.00                       | 1.75                                    | 0.00                     | 115                  | 0.00                           | 0.68                                | 0.00                         |
| Surrey and Sussex Healthcare NHS Trust           | 101              | 692                  | 2.46                       | 1.48                                    | 1.83                     |                      |                                |                                     |                              |
| Aneurin Bevan University Local Health Board      | 102              | 146                  | 1.37                       | 2.37                                    | 0.63                     | 119                  | 1.68                           | 1.01                                | 1.50                         |
| Practice Plus Group Hospital, Southampton        | 103              | 220                  | 0.45                       | 1.05                                    | 0.48                     |                      |                                |                                     |                              |
| SpaMedica – Birmingham                           | 104              | 3,599                | 0.36                       | 1.26                                    | 0.32                     | 2,066                | 0.24                           | 1.37                                | 0.16                         |
| St. Stephens Gate Medical Practice               | 105              | 129                  | 0.78                       | 1.32                                    | 0.65                     |                      |                                |                                     |                              |
| The Dudley Group NHS Foundation Trust            | 106              | 288                  | 4.17                       | 1.87                                    | 2.45                     |                      |                                |                                     |                              |
| East Cheshire NHS Trust                          | 108              | 683                  | 0.59                       | 1.40                                    | 0.46                     |                      |                                |                                     |                              |
| Guy's and St Thomas' NHS Foundation Trust        | 110              | 747                  | 1.20                       | 2.48                                    | 0.53                     | 622                  | 0.32                           | 0.94                                | 0.31                         |
| Buckinghamshire Healthcare NHS Trust             | 111              | 3,173                | 0.85                       | 1.85                                    | 0.51                     |                      |                                |                                     |                              |
| SpaMedica – Bradford                             | 112              | 1,251                | 0.64                       | 1.08                                    | 0.65                     | 615                  | 0.49                           | 1.02                                | 0.43                         |
| SpaMedica – West Lancashire                      | 113              | 843                  | 0.24                       | 1.10                                    | 0.24                     | 455                  | 0.22                           | 0.82                                | 0.24                         |
| Somerset NHS Foundation Trust                    | 114              | 1,101                | 0.82                       | 1.45                                    | 0.62                     |                      |                                |                                     |                              |
| Medical specialists group Guernsey               | 115              | 342                  | 1.75                       | 1.38                                    | 1.40                     |                      |                                |                                     |                              |
| Hywel Dda University Local Health Board          | 116              | 56                   | 0.00                       | 1.29                                    | 0.00                     |                      |                                |                                     |                              |
| George Eliot Hospital NHS Trust                  | 117              | 548                  | 1.09                       | 1.25                                    | 0.96                     |                      |                                |                                     |                              |
| SpaMedica – Newcastle Under Lyme                 | 118              | 1,893                | 0.42                       | 1.29                                    | 0.36                     | 1,220                | 0.16                           | 1.51                                | 0.10                         |
| SpaMedica – Widnes                               | 119              | 1,499                | 0.73                       | 1.18                                    | 0.68                     | 844                  | 0.12                           | 0.77                                | 0.14                         |
| Kettering General Hospital NHS Foundation Trust  | 120              | 172                  | 0.58                       | 1.16                                    | 0.55                     |                      |                                |                                     |                              |

|  |                  | c                    |                            | osular Rupture<br>Irgeon PCR rate = 1.1 | %                        | Ov                   |                                | cuity Loss<br>geon VA Loss rate = ( | ).9%                         |
|--|------------------|----------------------|----------------------------|---|--------------------------|----------------------|--------------------------------|-------------------------------------|------------------------------|
| Centre name  | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of operations | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%)        | Adjusted VA Loss<br>rate (%) |
| SpaMedica – Chelmsford                                 | 121              | 3,468                | 0.55                       | 1.12                                    | 0.54                     | 1,845                | 0.33                           | 1.03                                | 0.28                         |
| Newmedica Community Ophthalmology (Teesside)           | 124              | 4,767                | 0.42                       | 1.00                                    | 0.46                     |                      |                                |                                     |                              |
| SpaMedica – Preston                                    | 125              | 2,760                | 0.33                       | 1.17                                    | 0.31                     | 1,595                | 0.19                           | 1.30                                | 0.13                         |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              | 2,616                | 0.34                       | 1.04                                    | 0.37                     |                      |                                |                                     |                              |
| SpaMedica – Wolverhampton                              | 127              | 2,594                | 0.23                       | 1.52                                    | 0.17                     | 1,492                | 0.27                           | 1.31                                | 0.18                         |
| Community Health and Eyecare Ltd (Blackpool)           | 128              | 2,464                | 0.41                       | 1.11                                    | 0.40                     |                      |                                |                                     |                              |
| Community Health and Eyecare Ltd (Watford)             | 129              | 2,344                | 0.51                       | 1.09                                    | 0.51                     |                      |                                |                                     |                              |
| SpaMedica – Hull                                       | 130              | 2,234                | 0.40                       | 1.04                                    | 0.43                     | 1,314                | 0.46                           | 0.76                                | 0.54                         |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 2,027                | 0.39                       | 1.24                                    | 0.35                     | 983                  | 0.10                           | 0.95                                | 0.10                         |
| Newmedica Community Ophthalmology (Grimsby)            | 132              | 2,009                | 0.00                       | 1.00                                    | 0.00                     |                      |                                |                                     |                              |
| Newmedica Community Ophthalmology (Bristol)            | 133              | 1,985                | 0.40                       | 1.06                                    | 0.42                     |                      |                                |                                     |                              |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | 1,906                | 0.47                       | 1.23                                    | 0.42                     |                      |                                |                                     |                              |
| Worcestershire Acute Hospitals NHS Trust               | 135              | 1,852                | 0.38                       | 1.32                                    | 0.32                     |                      |                                |                                     |                              |
| Community Health and Eyecare Ltd (Stoke)               | 136              | 1,836                | 0.76                       | 1.33                                    | 0.63                     |                      |                                |                                     |                              |
| SpaMedica – Bedford                                    | 137              | 1,805                | 0.55                       | 1.20                                    | 0.51                     | 798                  | 0.38                           | 0.93                                | 0.36                         |
| Newmedica Community Ophthalmology (Leeds)              | 138              | 1,767                | 0.23                       | 1.00                                    | 0.25                     |                      |                                |                                     |                              |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 1,765                | 0.28                       | 1.22                                    | 0.26                     | 806                  | 0.62                           | 0.97                                | 0.58                         |
| SpaMedica – Coventry                                   | 140              | 1,564                | 0.45                       | 1.23                                    | 0.40                     | 756                  | 0.40                           | 1.24                                | 0.29                         |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 1,508                | 0.80                       | 1.29                                    | 0.68                     | 688                  | 0.29                           | 0.75                                | 0.35                         |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | 1,418                | 0.35                       | 1.39                                    | 0.28                     |                      |                                |                                     |                              |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | 1,155                | 0.52                       | 1.09                                    | 0.52                     |                      |                                |                                     |                              |
| Newmedica Community Ophthalmology (Ipswich)            | 144              | 972                  | 0.10                       | 1.03                                    | 0.11                     |                      |                                |                                     |                              |
| Newmedica Community Ophthalmology (Barlborough)        | 145              | 969                  | 0.31                       | 1.10                                    | 0.31                     |                      |                                |                                     |                              |
| Newmedica Community Ophthalmology (Exeter)             | 146              | 724                  | 0.28                       | 1.12                                    | 0.27                     |                      |                                |                                     |                              |
| SpaMedica – Derby                                      | 147              | 711                  | 0.14                       | 1.22                                    | 0.13                     | 227                  | 0.00                           | 1.49                                | 0.00                         |

|   |                  | C                    |                            | osular Rupture<br>urgeon PCR rate = 1.1 | %                        | Visual Acuity Loss<br>Overall consultant surgeon VA Loss rate = 0.9% |                                |                              |                              |
|---|------------------|----------------------|----------------------------|---|--------------------------|--|--------------------------------|------------------------------|------------------------------|
| Centre name                                   | Centre<br>number | Number of operations | Unadjusted<br>PCR rate (%) | Case complexity<br>index (%)            | Adjusted<br>PCR rate (%) | Number of operations   | Unadjusted VA<br>Loss rate (%) | Case complexity<br>index (%) | Adjusted VA Loss<br>rate (%) |
| Exeter Eye                                    | 148              | 688                  | 0.73                       | 1.11                                    | 0.72                     | 309  | 0.00                           | 0.89                         | 0.00                         |
| SpaMedica – Bromley                           | 149              | 473                  | 1.06                       | 1.32                                    | 0.88                     | 64   | 1.56                           | 1.22                         | 1.15                         |
| SpaMedica – Wokingham                         | 150              | 397                  | 1.26                       | 1.48                                    | 0.94                     | 97   | 1.03                           | 0.97                         | 0.96                         |
| SpaMedica – Stockton-on-Tees                  | 151              | 284                  | 0.35                       | 1.09                                    | 0.36                     | 95   | 1.05                           | 0.64                         | 1.47                         |
| Tetbury Hospital                              | 152              | 251                  | 0.80                       | 1.26                                    | 0.70                     |  |                                |                              |                              |
| Newmedica Community Ophthalmology (Brigg)     | 153              | 249                  | 0.40                       | 1.05                                    | 0.42                     |  |                                |                              |                              |
| West Suffolk NHS Foundation Trust             | 154              | 168                  | 1.19                       | 1.68                                    | 0.78                     |  |                                |                              |                              |
| Northern Care Alliance NHS Foundation Trust   | 155              | 148                  | 1.35                       | 1.60                                    | 0.93                     |  |                                |                              |                              |
| Newmedica Community Ophthalmology (Frome)     | 156              | 128                  | 0.78                       | 1.12                                    | 0.77                     |  |                                |                              |                              |
| Community Health and Eyecare Ltd (Preston)    | 157              | 127                  | 2.36                       | 1.42                                    | 1.83                     |  |                                |                              |                              |
| The Stoneygate Eye Hospital                   | 158              | 114                  | 0.00                       | 1.02                                    | 0.00                     | 107  | 2.80                           | 0.73                         | 3.46                         |
| Newmedica Community Ophthalmology (Wakefield) | 159              | 77                   | 0.00                       | 0.96                                    | 0.00                     |  |                                |                              |                              |
| Overall for all centres                       | N/A              | 172,320              | 0.91                       | 1.50                                    | 0.67                     | 35,262   | 0.42                           | 1.04                         | 0.36                         |

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The case complexity index is an estimate of the overall predicted probability of the adverse event based on the reported case complexity.

#### Appendix 10 table: Surgeon information for each NHS year

|   |         |         | NHS year |         |         |
|---|---------|---------|----------|---------|---------|
|   | 2016    | 2017    | 2018     | 2019    | 2020    |
| Number of centres                       | 93      | 105     | 114      | 125     | 134     |
| Number of operations                    | 194,562 | 219,077 | 247,535  | 277,749 | 172,320 |
| Percentage of operations by             |         |         |          |         |         |
| Consultant surgeons                     | 69.5    | 68.5    | 70.5     | 72.8    | 82.0    |
| Career grade non-consultant surgeons    | 7.6     | 7.5     | 6.6      | 6.3     | 4.2     |
| More experienced trainee surgeons       | 19.5    | 20.4    | 19.8     | 18.1    | 12.1    |
| Less experienced trainee surgeons       | 3.4     | 3.6     | 3.1      | 2.7     | 1.8     |
| Surgeons                                |         |         |          |         |         |
| Number of surgeons                      | 1,839   | 2,075   | 2,167    | 2,238   | 1,920   |
| Number of surgeons data >1 grade        | 115     | 130     | 122      | 122     | 80      |
| Surgeon gender, percentage              |         |         |          |         |         |
| Male                                    | 65.8    | 64.1    | 63.5     | 63.2    | 64.7    |
| Female                                  | 33.9    | 35.6    | 36.4     | 35.9    | 33.6    |
| Not recorded                            | 0.3     | 0.3     | 0.2      | 0.9     | 1.7     |
| Surgeon grade, number of                |         |         |          |         |         |
| Consultant surgeons                     | 925     | 1,064   | 1,116    | 1,183   | 1,056   |
| Career grade non-consultant surgeons    | 171     | 183     | 172      | 182     | 140     |
| More experienced trainee surgeons       | 689     | 782     | 813      | 812     | 671     |
| Less experienced trainee surgeons       | 169     | 176     | 188      | 183     | 133     |
| Number of surgeons with data for        |         |         |          |         |         |
| <50 operations                          | 826     | 869     | 913      | 921     | 1,199   |
| 50 – 100 operations                     | 410     | 480     | 461      | 519     | 379     |
| 101 – 250 operations                    | 431     | 554     | 583      | 570     | 223     |
| 251 – 500 operations                    | 134     | 141     | 164      | 161     | 56      |
| 501 – 1,000 operations                  | 31      | 20      | 33       | 43      | 40      |
| >1,000 operations                       | 7       | 11      | 13       | 24      | 23      |
| Median number of operations per surgeon | 58      | 64      | 65       | 66      | 33      |
| Percentage of surgeons with data for    |         |         |          |         |         |
| <50 operations                          | 44.9    | 41.9    | 42.1     | 41.2    | 62.4    |
| ≥50 operations                          | 55.1    | 58.1    | 57.9     | 58.8    | 37.6    |

# Appendix 11: Patient details for first eye, second eye and immediate sequential bilateral cataract surgery for the 2016 – 2020 NHS years

#### Appendix 11 table A: First eye surgery patient details for each NHS year

| <b>F</b> <sup>1</sup>             |             |             | NHS year    |             |             |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|
| First eye surgery                 | 2016        | 2017        | 2018        | 2019        | 2020        |
| Number patients                   | 116,029     | 129,005     | 145,775     | 164,835     | 104,218     |
| Patient age in years              |             |             |             |             |             |
| Median                            | 75.9        | 75.8        | 75.8        | 75.7        | 75.2        |
| IQR                               | 68.6 - 81.9 | 68.7 – 81.9 | 68.9 - 82.0 | 69.0 - 81.8 | 68.4 - 81.3 |
| Percentage of patients            |             |             |             |             |             |
| Males                             | 42.6        | 42.7        | 42.6        | 41.6        | 42.6        |
| Females                           | 57.0        | 56.9        | 56.8        | 56.1        | 55.2        |
| Gender not recorded               | 0.4         | 0.4         | 0.6         | 2.3         | 2.2         |
| With diabetes                     | 16.2        | 16.1        | 15.5        | 13.6        | 10.9        |
| Unable to lie flat during surgery | 1.7         | 1.8         | 1.8         | 1.6         | 1.4         |
| Unable to cooperate with surgery  | 2.3         | 2.2         | 2.1         | 2.0         | 2.0         |
| General anaesthesia used          | 4.5         | 4.5         | 4.4         | 4.0         | 2.3         |

Note in the 2020 NHS year, 1 first treated eye patient had a recorded gender of indeterminate / anticipated sex change.

#### Appendix 11 table B: Second eye surgery patient details for each NHS year

| Council and any annual set        |             |             | NHS year    |             |             |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|
| Second eye surgery                | 2016        | 2017        | 2018        | 2019        | 2020        |
| Number patients                   | 78,127      | 89,432      | 100,768     | 111,834     | 65,616      |
| Patient age in years              |             |             |             |             |             |
| Median                            | 77.1        | 76.8        | 76.8        | 76.7        | 76.2        |
| IQR                               | 70.0 - 82.6 | 70.0 - 82.5 | 70.3 - 82.6 | 70.3 - 82.5 | 70.1 – 82.0 |
| Percentage of patients            |             |             |             |             |             |
| Males                             | 40.8        | 41.1        | 41.3        | 40.3        | 41.0        |
| Females                           | 58.8        | 58.6        | 58.4        | 58.1        | 57.2        |
| Gender not recorded               | 0.3         | 0.3         | 0.4         | 1.6         | 1.8         |
| With diabetes                     | 17.3        | 17.2        | 17.2        | 15.5        | 12.8        |
| Unable to lie flat during surgery | 1.7         | 1.7         | 1.6         | 1.3         | 1.1         |
| Unable to cooperate with surgery  | 2.4         | 2.3         | 2.1         | 2.0         | 1.9         |
| General anaesthesia used          | 4.3         | 4.3         | 4.1         | 3.6         | 2.4         |

## Appendix 11 table C: Immediate sequential bilateral cataract surgery patient details for each NHS year

| Immediate sequential bilateral    |             |             | NHS year    |             |             |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|
| cataract surgery                  | 2016        | 2017        | 2018        | 2019        | 2020        |
| Number patients                   | 203         | 320         | 496         | 540         | 1,243       |
| Patient age in years              |             |             |             |             |             |
| Median                            | 72.0        | 69.0        | 70.0        | 72.5        | 73.5        |
| IQR                               | 60.9 - 81.2 | 58.6 – 79.1 | 60.0 - 78.6 | 62.7 – 79.3 | 65.9 – 79.7 |
| Percentage of patients            |             |             |             |             |             |
| Males                             | 42.4        | 41.3        | 37.5        | 40.0        | 41.3        |
| Females                           | 57.6        | 58.8        | 62.5        | 57.0        | 56.0        |
| Gender not recorded               | 0.0         | 0.0         | 0.0         | 3.0         | 2.7         |
| With diabetes                     | 10.8        | 11.6        | 12.5        | 10.7        | 9.8         |
| Unable to lie flat during surgery | 9.4         | 6.6         | 7.3         | 9.3         | 5.0         |
| Unable to cooperate with surgery  | 8.9         | 5.6         | 5.8         | 6.3         | 2.5         |
| General anaesthesia used          | 45.8        | 41.3        | 38.1        | 35.6        | 12.9        |

# Appendix 12: Case ascertainment and percentage of eyes with any ocular co-pathology / known risk indicator for the 2016 – 2020 NHS years

Appendix 12 table: Case ascertainment and the percentage of eyes with any ocular co-pathology / known risk indicator for the 2016 – 2020 NHS years for participating centres in the audit

|  |                  |       |       |       |       |       |      | Any co-patho | ology / known ri | sk indicator % |      |
|--|------------------|-------|-------|-------|-------|-------|------|--------------|------------------|----------------|------|
| Centre name  | Centre<br>number | 2016  | 2017  | 2018  | 2019  | 2020  | 2016 | 2017         | 2018             | 2019           | 2020 |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 99.9  | 94.9  | 97.9  | 94.7  | 82.4  | 29.8 | 31.1         | 27.6             | 27.3           | 32.4 |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust           | 2                | 100.0 | 97.0  | 96.8  | 98.4  | 100.0 | 36.0 | 38.4         | 40.0             | 38.2           | 42.3 |
| Norfolk and Norwich University Hospitals NHS Foundation<br>Trust | 3                | 100.0 | 95.5  | 100.0 | 98.6  | 97.4  | 35.0 | 38.1         | 38.7             | 37.3           | 46.9 |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 100.0 | 98.9  | 100.0 | 98.9  | 94.7  | 54.1 | 55.9         | 55.3             | 61.3           | 62.5 |
| York and Scarborough Teaching Hospitals NHS Foundation<br>Trust  | 5                | 90.4  | 93.8  | 100.0 | 100.0 | 100.0 | 37.5 | 37.4         | 40.7             | 37.1           | 34.3 |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 100.0 | 98.2  | 100.0 | 98.2  | 99.0  | 37.2 | 43.3         | 48.6             | 45.7           | 52.6 |
| University Hospitals Bristol and Weston NHS Foundation Trust     | 7                | 100.0 | 100.0 | 100.0 | 96.1  | 100.0 | 51.7 | 52.5         | 61.2             | 59.3           | 66.4 |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 100.0 | 100.0 | 92.6  | 98.3  | 96.6  | 45.1 | 47.0         | 53.7             | 58.8           | 67.5 |
| Sheffield Teaching Hospitals NHS Foundation Trust                | 9                | 84.4  | 100.0 | 94.4  | 75.0  |       | 47.3 | 53.5         | 51.6             | 50.7           |      |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 91.0  | 100.0 | 93.0  | 95.8  | 96.8  | 57.6 | 55.9         | 51.2             | 52.4           | 58.7 |
| University Hospital Southampton NHS Foundation Trust             | 11               | 100.0 | 99.3  | 91.5  | 90.9  | 100.0 | 51.3 | 53.4         | 56.7             | 57.5           | 60.8 |
| Royal Berkshire NHS Foundation Trust                             | 12               | 65.4  | 57.0  | 24.3  |       |       | 40.7 | 38.2         | 37.8             |                |      |
| Calderdale and Huddersfield NHS Foundation Trust                 | 13               | 100.0 | 99.7  | 43.6  |       |       | 48.2 | 53.2         | 56.1             |                |      |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 39.1 | 39.4         | 37.6             | 37.1           | 39.3 |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 100.0 | 99.7  | 96.9  | 100.0 | 100.0 | 58.7 | 63.9         | 63.9             | 62.8           | 70.9 |
| Cardiff & Vale University Local Health Board                     | 16               | ****  | 93.3  | 93.7  | 92.8  | 100.0 | 42.8 | 44.9         | 47.3             | 43.6           | 54.0 |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 99.8  | 100.0 | 100.0 | 99.1  | 100.0 | 51.0 | 52.0         | 50.8             | 48.1           | 46.3 |
| Barts Health NHS Trust   | 18               | 89.6  | 96.0  | 100.0 | 98.3  | 98.5  | 44.7 | 47.1         | 46.7             | 48.7           | 56.5 |
| Frimley Health NHS Foundation Trust                              | 19               | 94.8  | 90.9  | 97.2  | 99.2  | 100.0 | 37.4 | 33.9         | 35.8             | 41.2           | 39.3 |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 93.8  | 94.7  | 94.8  | 98.0  | 100.0 | 44.8 | 50.3         | 59.1             | 58.6           | 54.5 |

|   |                  |       | Cas   | se ascertainmer | it %* |       |      | Any co-pathe | ology / known ri | sk indicator % |      |
|---|------------------|-------|-------|-----------------|-------|-------|------|--------------|------------------|----------------|------|
| Centre name   | Centre<br>number | 2016  | 2017  | 2018            | 2019  | 2020  | 2016 | 2017         | 2018             | 2019           | 2020 |
| University Hospitals Plymouth NHS Trust                           | 22               | 98.0  | 95.6  | 94.5            | 96.0  | 100.0 | 54.3 | 62.9         | 60.6             | 59.0           | 56.3 |
| University Hospitals Birmingham NHS Foundation Trust              | 23               | 100.0 | 91.4  | 100.0           | 98.7  | 100.0 | 53.0 | 59.0         | 60.7             | 62.4           | 60.0 |
| Hampshire Hospitals NHS Foundation Trust                          | 24               | 75.9  | 76.2  | 74.6            | 84.5  | 91.3  | 38.5 | 38.3         | 39.7             | 33.8           | 36.9 |
| Royal Cornwall Hospitals NHS Trust                                | 25               | 100.0 | 100.0 | 100.0           | 100.0 | 100.0 | 50.6 | 61.2         | 63.5             | 61.6           | 58.6 |
| Manchester University NHS Foundation Trust                        | 26               | 55.7  | 57.3  | 59.0            | 62.4  | 38.4  | 36.5 | 46.5         | 44.0             | 41.2           | 45.8 |
| King's College Hospital NHS Foundation Trust                      | 27               | 78.1  | 84.0  | 100.0           | 97.9  | 89.4  | 37.8 | 38.8         | 39.5             | 49.4           | 54.4 |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 98.0  | 100.0 | 93.0            | 99.1  | 100.0 | 39.2 | 40.0         | 38.4             | 41.3           | 50.8 |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 100.0 | 95.8  | 100.0           | 98.9  | 100.0 | 36.6 | 36.9         | 46.3             | 47.0           | 55.0 |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 100.0 | 48.2  | 80.2            | 90.2  | 96.1  | 39.2 | 54.8         | 50.3             | 49.9           | 50.8 |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 96.7  | 100.0 | 99.1            | 99.6  | 100.0 | 38.1 | 46.7         | 51.9             | 51.9           | 46.9 |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 100.0 | 98.8  | 97.4            | 100.0 | 100.0 | 57.9 | 62.9         | 67.3             | 59.0           | 52.7 |
| Mid and South Essex NHS Foundation Trust                          | 34               | 100.0 | 100.0 | 100.0           | 88.4  | 79.0  | 41.8 | 41.0         | 36.4             | 41.1           | 44.8 |
| Harrogate and District NHS Foundation Trust                       | 35               | 100.0 | 91.7  | 96.0            | 100.0 | 100.0 | 39.3 | 40.0         | 47.6             | 53.0           | 53.6 |
| North West Anglia NHS Foundation Trust                            | 36               | 100.0 | 100.0 | 100.0           | 99.2  | 91.7  | 51.6 | 55.1         | 55.1             | 58.2           | 65.4 |
| Northern Devon Healthcare NHS Trust                               | 37               | 100.0 | 94.0  | 100.0           | 100.0 | 100.0 | 53.9 | 49.8         | 48.9             | 49.2           | 49.8 |
| Wirral University Teaching Hospital NHS Foundation Trust          | 39               | 84.9  | 100.0 | 85.0            | 98.7  | 100.0 | 51.8 | 53.8         | 52.5             | 50.5           | 55.6 |
| South Warwickshire NHS Foundation Trust                           | 40               | 100.0 | 100.0 | 95.6            | 99.7  | 100.0 | 53.7 | 62.5         | 64.9             | 61.6           | 62.6 |
| Isle of Wight NHS Trust   | 41               | 89.3  | 98.0  | 100.0           | 99.0  | 100.0 | 36.8 | 46.5         | 46.9             | 53.0           | 55.8 |
| St Helens and Knowsley Teaching Hospitals NHS Trust               | 42               | 70.7  | 80.6  | 73.8            | 65.1  | 84.9  | 35.7 | 35.8         | 38.9             | 33.6           | 38.4 |
| Wrightington, Wigan and Leigh NHS Foundation Trust                | 43               | 100.0 | 87.5  | 98.0            | 94.6  | 100.0 | 28.8 | 33.2         | 39.0             | 37.7           | 40.9 |
| Warrington and Halton Teaching Hospitals NHS Foundation<br>Trust  | 44               | 88.2  | 76.2  | 91.2            | 92.9  | 100.0 | 37.9 | 44.5         | 44.5             | 46.9           | 52.2 |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 48.7  | 64.4  | 85.9            | 85.5  | 70.9  | 47.5 | 55.9         | 51.2             | 52.4           | 58.3 |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 55.4  | 62.5  | 67.2            | 82.9  | 89.8  | 29.5 | 34.6         | 41.0             | 36.2           | 40.8 |
| Barking, Havering and Redbridge University Hospitals NHS<br>Trust | 47               | 58.0  | 65.9  | 87.6            | 79.9  | 100.0 | 39.2 | 44.3         | 43.4             | 50.6           | 47.8 |

|  |                  | Case ascertainment %* |       |       |       |       |      | Any co-pathc | ology / known ri | sk indicator % |      |
|--|------------------|-----------------------|-------|-------|-------|-------|------|--------------|------------------|----------------|------|
| Centre name  | Centre<br>number | 2016                  | 2017  | 2018  | 2019  | 2020  | 2016 | 2017         | 2018             | 2019           | 2020 |
| Royal Free London NHS Foundation Trust                     | 48               | 35.9                  | 44.3  | 42.2  | 81.3  | 94.0  | 38.6 | 31.8         | 31.4             | 30.6           | 36.1 |
| University Hospitals Coventry and Warwickshire NHS Trust   | 49               | 69.1                  | 96.3  | 98.1  | 95.9  | 100.0 | 42.2 | 51.5         | 55.2             | 53.9           | 63.7 |
| Barnsley Hospital NHS Foundation Trust                     | 50               | 100.0                 | 12.1  | 14.0  | 4.8   |       | 55.4 | 55.3         | 45.3             | 52.9           |      |
| Salisbury NHS Foundation Trust                             | 51               | 83.2                  | 100.0 | 100.0 | 99.9  | 100.0 | 41.1 | 46.7         | 55.3             | 52.2           | 64.0 |
| London North West University Healthcare NHS Trust          | 52               | 93.7                  | 84.2  | 30.0  |       |       | 50.0 | 55.6         | 62.5             |                |      |
| Blackpool Teaching Hospitals NHS Foundation Trust          | 53               | ****                  |       |       |       |       | **** |              |                  |                |      |
| University Hospitals of Morecambe Bay NHS Foundation Trust | 54               | 17.3                  |       |       |       |       | 38.6 |              |                  |                |      |
| Nottingham University Hospitals NHS Trust                  | 55               | 25.4                  | 54.3  | 67.0  | 87.4  | 87.7  | 55.1 | 50.7         | 52.9             | 52.1           | 52.6 |
| Yeovil District Hospital NHS Foundation Trust              | 56               | 76.6                  | 100.0 | 84.2  | 100.0 | 100.0 | 44.4 | 49.0         | 54.0             | 48.0           | 52.2 |
| SpaMedica – Manchester                                     | 57               | 76.1                  | 100.0 | 96.7  | 99.6  | 100.0 | 53.3 | 50.1         | 53.5             | 42.3           | 34.7 |
| SpaMedica – Wakefield                                      | 58               | **                    | 100.0 | 100.0 | 100.0 | 100.0 | 46.5 | 33.5         | 22.4             | 16.7           | 28.6 |
| East Sussex Healthcare NHS Trust                           | 59               | 100.0                 | 100.0 | 100.0 | 100.0 | 100.0 | 47.7 | 51.2         | 50.1             | 53.6           | 51.1 |
| Imperial College Healthcare NHS Trust                      | 60               | 96.8                  | 100.0 | 97.2  | 97.5  | 100.0 | 51.8 | 56.0         | 57.6             | 53.8           | 61.9 |
| Portsmouth Hospitals University NHS Trust                  | 61               | 100.0                 | 95.0  | 98.2  | 96.7  | 100.0 | 46.0 | 51.3         | 53.1             | 52.5           | 49.0 |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 100.0                 | 92.6  | 96.8  | 95.8  | 100.0 | 31.3 | 29.3         | 31.2             | 35.5           | 20.6 |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 40.2                  | 82.8  | 100.0 | 96.7  | 30.0  | 22.1 | 25.5         | 36.4             | 44.9           | 53.3 |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 100.0                 | 65.1  | 55.4  | 47.2  | 84.8  | 38.9 | 41.1         | 46.9             | 49.4           | 52.6 |
| SpaMedica – Birkenhead                                     | 66               | **                    | 100.0 | 95.6  | 100.0 | 100.0 | 54.1 | 47.9         | 50.4             | 36.7           | 30.6 |
| County Durham and Darlington NHS Foundation Trust          | 67               | 99.8                  | 100.0 | 95.9  | 99.2  | 100.0 | 46.6 | 50.5         | 51.9             | 46.1           | 50.9 |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 50.8                  | 43.2  | 51.6  | 24.1  | 88.6  | 32.6 | 34.1         | 44.0             | 50.5           | 41.8 |
| SpaMedica – Newton-le-Willows                              | 69               | **                    | 97.1  | 100.0 | 99.9  |       | 62.0 | 68.8         | 61.5             | 43.8           |      |
| Northampton General Hospital NHS Trust                     | 70               | 39.9                  | 82.3  | 81.3  | 85.4  | 57.6  | 15.7 | 29.1         | 37.0             | 29.3           | 36.4 |
| SpaMedica – Liverpool                                      | 71               | **                    | 100.0 | 100.0 | 98.4  | 100.0 | 52.1 | 37.0         | 32.7             | 27.8           | 36.5 |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 64.9                  | 88.5  | 97.1  | 94.8  | 100.0 | 24.9 | 39.9         | 43.1             | 44.6           | 43.9 |

|  |                  | Case ascertainment %* 2016 2017 2018 2019 2020 |       |       |       |       |      | Any co-patho | ology / known ri | sk indicator % |      |
|--|------------------|--|-------|-------|-------|-------|------|--------------|------------------|----------------|------|
| Centre name  | Centre<br>number | 2016   | 2017  | 2018  | 2019  | 2020  | 2016 | 2017         | 2018             | 2019           | 2020 |
| Bolton NHS Foundation Trust                                | 73               | 69.5   | 94.7  | 100.0 | 98.1  | 100.0 | 37.6 | 37.7         | 45.1             | 49.9           | 51.9 |
| Kingston Hospital NHS Foundation Trust                     | 74               | 26.0   | 73.0  | 76.7  | 88.1  | 100.0 | 41.8 | 41.4         | 38.7             | 42.2           | 46.7 |
| Northern Lincolnshire and Goole NHS Foundation Trust       | 75               | 50.2   | 33.0  | 9.2   |       |       | 44.8 | 37.0         | 36.9             |                |      |
| The Rotherham NHS Foundation Trust                         | 76               | 26.8   | 32.6  | 34.0  |       |       | 58.9 | 57.5         | 55.2             |                |      |
| Torbay and South Devon NHS Foundation Trust                | 77               | ****   | 86.7  | 100.0 | 99.6  | 100.0 | **** | 55.6         | 59.7             | 55.1           | 64.0 |
| Great Western Hospitals NHS Foundation Trust               | 78               | 15.0   | 70.8  | 92.2  | 89.1  | 94.9  | 48.1 | 62.9         | 70.4             | 68.0           | 68.2 |
| SpaMedica – Bolton   | 79               |  | 100.0 | 100.0 | 100.0 | 100.0 |      | 43.8         | 46.2             | 36.0           | 24.8 |
| The Princess Alexandra Hospital NHS Trust                  | 80               | 15.0   | 85.6  | 34.9  |       |       | 50.5 | 39.1         | 59.2             |                |      |
| Wye Valley NHS Trust                                       | 81               | 27.5   | 14.5  |       |       |       | 50.3 | 58.7         |                  |                |      |
| Cwm Taf Morgannwg University Local Health Board            | 82               | ****   | 73.5  | 96.9  | 42.0  | 28.4  | **** | 59.6         | 58.2             | 58.6           | 64.2 |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 42.4   | 44.6  | 81.2  | 79.0  | 100.0 | 44.3 | 30.8         | 29.5             | 33.5           | 56.4 |
| Royal Surrey County Hospital NHS Foundation Trust          | 84               | 10.3   | 12.7  | 18.3  | 9.3   | ****  | 52.6 | 41.1         | 37.9             | 42.1           | **** |
| East Lancashire Hospitals NHS Trust                        | 85               |  | 6.7   |       |       |       |      | 7.3          |                  |                |      |
| Southport and Ormskirk Hospital NHS Trust                  | 86               |  | 82.0  | 92.8  | 94.6  | 82.7  |      | 38.9         | 33.5             | 32.8           | 26.8 |
| Stockport NHS Foundation Trust                             | 87               |  | 11.8  | ****  |       |       |      | 24.1         | ****             |                |      |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 65.5 | 57.5         | 55.7             | 21.3           | 18.7 |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 100.0  | 100.0 | 97.0  | 100.0 | 100.0 | 13.0 | 14.2         | 14.7             | 17.1           | 22.0 |
| Practice Plus Group Hospital, Emersons Green               | 90               | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 47.8 | 39.3         | 47.1             | 57.6           | 55.0 |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 8.7  | 8.3          | 11.3             | 28.4           | 26.7 |
| SpaMedica – Sheffield                                      | 92               |  | **    | 100.0 | 99.1  | 100.0 |      | 34.6         | 29.8             | 25.3           | 43.3 |
| Practice Plus Group Hospital, Plymouth                     | 93               | 97.4   | 97.1  | 100.0 | 100.0 | 100.0 | 30.9 | 21.9         | 16.4             | 14.1           | 22.1 |
| North Cumbria Integrated Care NHS Foundation Trust         | 94               |  | 33.6  | 61.6  | 7.4   |       |      | 23.4         | 28.4             | 33.0           |      |
| Practice Plus Group Ophthalmology, Rochdale                | 95               | 100.0  | 100.0 | 97.5  | 100.0 | 100.0 | 28.2 | 24.0         | 31.3             | 30.7           | 39.8 |
| Practice Plus Group Hospital, Ilford                       | 97               | 66.9   | 100.0 | 95.1  | 100.0 | 100.0 | 11.1 | 15.7         | 19.2             | 27.6           | 11.4 |

|  |                  | Case ascertainment %* |      |       |       |       |      | Any co-patho | ology / known ri | isk indicator % |      |
|--|------------------|-----------------------|------|-------|-------|-------|------|--------------|------------------|-----------------|------|
| Centre name                                      | Centre<br>number | 2016                  | 2017 | 2018  | 2019  | 2020  | 2016 | 2017         | 2018             | 2019            | 2020 |
| North Middlesex University Hospital NHS Trust    | 98               |                       | 74.8 | 100.0 | 98.2  | 100.0 |      | 48.2         | 44.0             | 51.8            | 47.1 |
| University Hospitals Sussex NHS Foundation Trust | 99               |                       | **** | 46.8  | 53.8  | 33.4  |      | ****         | 36.2             | 33.5            | 37.9 |
| Practice Plus Group Surgical Centre, Devizes     | 100              | 100.0                 | 96.3 | 97.6  | 100.0 | 100.0 | 6.6  | 6.5          | 7.1              | 9.3             | 41.9 |
| Surrey and Sussex Healthcare NHS Trust           | 101              |                       | 18.5 | 11.7  | 4.6   | 100.0 |      | 23.6         | 17.7             | 33.1            | 31.2 |
| Aneurin Bevan University Local Health Board      | 102              |                       | 60.1 | 24.2  | 12.7  | 19.3  |      | 56.3         | 55.8             | 60.1            | 63.0 |
| Practice Plus Group Hospital, Southampton        | 103              | 27.3                  | 27.0 | 66.5  | 80.4  | 100.0 | 12.5 | 13.8         | 2.8              | 3.4             | 7.3  |
| SpaMedica – Birmingham                           | 104              |                       |      | 98.4  | 99.3  | 100.0 |      |              | 71.9             | 63.7            | 59.9 |
| St. Stephens Gate Medical Practice               | 105              |                       | **   | **    | **    | **    |      | 32.9         | 33.8             | 35.1            | 32.6 |
| The Dudley Group NHS Foundation Trust            | 106              |                       | **** | 36.6  | 49.7  | 100.0 |      | ****         | 40.3             | 36.6            | 44.4 |
| Swansea Bay University Local Health Board        | 107              |                       | 2.6  | 1.3   |       |       |      | 41.4         | 42.9             |                 |      |
| East Cheshire NHS Trust                          | 108              |                       | **** | 59.2  | 99.0  | 99.4  |      | ****         | 20.8             | 23.1            | 30.3 |
| Guy's and St Thomas' NHS Foundation Trust        | 110              |                       |      | 45.5  | 68.3  | 69.4  |      |              | 24.8             | 32.3            | 43.4 |
| Buckinghamshire Healthcare NHS Trust             | 111              |                       |      | 76.0  | 96.3  | 100.0 |      |              | 35.9             | 38.1            | 37.0 |
| SpaMedica – Bradford                             | 112              |                       |      | **    | 100.0 | 100.0 |      |              | 28.1             | 23.0            | 38.9 |
| SpaMedica – West Lancashire                      | 113              |                       |      | 100.0 | 100.0 | 100.0 |      |              | 55.6             | 43.8            | 33.2 |
| Somerset NHS Foundation Trust                    | 114              |                       |      |       | 97.7  | 100.0 |      |              |                  | 42.4            | 42.7 |
| Medical specialists group Guernsey               | 115              | ***                   | ***  | ***   | ***   | ***   | 48.3 | 44.0         | 49.6             | 46.3            | 53.8 |
| Hywel Dda University Local Health Board          | 116              |                       | **** | 18.6  | 29.0  | 37.5  |      | ****         | 35.4             | 32.3            | 51.8 |
| George Eliot Hospital NHS Trust                  | 117              |                       |      | 44.2  | 91.3  | 100.0 |      |              | 7.5              | 11.9            | 18.4 |
| SpaMedica – Newcastle Under Lyme                 | 118              |                       |      |       | 100.0 | 100.0 |      |              |                  | 72.9            | 73.2 |
| SpaMedica – Widnes                               | 119              |                       |      |       | 100.0 | 100.0 |      |              |                  | 31.0            | 21.9 |
| Kettering General Hospital NHS Foundation Trust  | 120              | ****                  | **** | 4.4   | 41.6  | 88.7  | **** | ****         | 26.4             | 11.8            | 14.5 |
| SpaMedica – Chelmsford                           | 121              |                       |      |       | 100.0 | 100.0 |      |              |                  | 48.4            | 43.2 |
| Community Health and Eyecare Ltd (Face and Eye)  | 123              |                       |      |       | **    | ****  |      |              |                  | 1.2             | **** |

|  |                  |       | Cas   | se ascertainmer | nt %* |       |      | Any co-patho | ology / known r | isk indicator % |      |
|--|------------------|-------|-------|-----------------|-------|-------|------|--------------|-----------------|-----------------|------|
| Centre name  | Centre<br>number | 2016  | 2017  | 2018            | 2019  | 2020  | 2016 | 2017         | 2018            | 2019            | 2020 |
| Newmedica Community Ophthalmology (Teesside)           | 124              |       |       |                 | 100.0 | 100.0 |      |              |                 | 0.0             | 0.0  |
| SpaMedica – Preston                                    | 125              |       |       |                 |       | 100.0 |      |              |                 |                 | 61.5 |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              |       |       |                 | 95.3  | 100.0 |      |              |                 | 0.0             | 3.4  |
| SpaMedica – Wolverhampton                              | 127              |       |       |                 | 100.0 | 100.0 |      |              |                 | 65.9            | 81.2 |
| Community Health and Eyecare Ltd (Blackpool)           | 128              |       |       |                 |       | **    |      |              |                 |                 | 13.5 |
| Community Health and Eyecare Ltd (Watford)             | 129              |       |       |                 | **    | **    |      |              |                 | 5.6             | 12.8 |
| SpaMedica – Hull                                       | 130              |       |       |                 | 100.0 | 100.0 |      |              |                 | 11.4            | 12.4 |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 100.0 | 100.0 | 100.0           | 100.0 | 100.0 | 27.7 | 29.1         | 30.8            | 21.0            | 39.7 |
| Newmedica Community Ophthalmology (Grimsby)            | 132              |       |       |                 | 100.0 | 100.0 |      |              |                 | 0.0             | 2.0  |
| Newmedica Community Ophthalmology (Bristol)            | 133              |       |       |                 | 91.7  | 100.0 |      |              |                 | 0.0             | 7.2  |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | **    | **    | 100.0           | 100.0 | 100.0 | 34.8 | 35.4         | 33.1            | 30.3            | 35.4 |
| Worcestershire Acute Hospitals NHS Trust               | 135              |       |       |                 |       | 100.0 |      |              |                 |                 | 21.5 |
| Community Health and Eyecare Ltd (Stoke)               | 136              |       |       |                 | **    | **    |      |              |                 | 2.9             | 13.6 |
| SpaMedica – Bedford                                    | 137              |       |       |                 | 100.0 | 100.0 |      |              |                 | 65.4            | 52.0 |
| Newmedica Community Ophthalmology (Leeds)              | 138              |       |       |                 | 97.8  | 100.0 |      |              |                 | 0.0             | 3.1  |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | **    | **    | 100.0           | 100.0 | 100.0 | 29.6 | 19.3         | 10.5            | 11.5            | 17.1 |
| SpaMedica – Coventry                                   | 140              |       |       |                 |       | 100.0 |      |              |                 |                 | 55.4 |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | **    | **    | 100.0           | 100.0 | 100.0 | 58.8 | 48.1         | 53.9            | 37.3            | 31.8 |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | **    | **    | **              | **    | **    | 24.0 | 25.2         | 33.7            | 36.7            | 34.4 |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | **    | **    | 100.0           | 100.0 | 100.0 | 37.7 | 34.5         | 28.0            | 28.3            | 11.9 |
| Newmedica Community Ophthalmology (Ipswich)            | 144              |       |       |                 |       | 100.0 |      |              |                 |                 | 0.0  |
| Newmedica Community Ophthalmology (Barlborough)        | 145              |       |       |                 | 91.6  | 100.0 |      |              |                 | 0.0             | 23.0 |
| Newmedica Community Ophthalmology (Exeter)             | 146              |       |       |                 |       | 100.0 |      |              |                 |                 | 10.1 |
| SpaMedica – Derby                                      | 147              |       |       |                 |       | 100.0 |      |              |                 |                 | 48.9 |
| Exeter Eye   | 148              |       | ****  | ***             | ***   | ***   |      | ****         | 35.1            | 33.6            | 34.4 |

|   |                  |      | Cas   | e ascertainmer | nt %* |       |      | Any co-pathe | ology / known ris | sk indicator % |      |
|---|------------------|------|-------|----------------|-------|-------|------|--------------|-------------------|----------------|------|
| Centre name   | Centre<br>number | 2016 | 2017  | 2018           | 2019  | 2020  | 2016 | 2017         | 2018              | 2019           | 2020 |
| SpaMedica – Bromley                                   | 149              |      |       |                |       | 100.0 |      |              |                   |                | 52.2 |
| SpaMedica – Wokingham                                 | 150              |      |       |                |       | 100.0 |      |              |                   |                | 59.4 |
| SpaMedica – Stockton-on-Tees                          | 151              |      |       |                |       | 100.0 |      |              |                   |                | 20.8 |
| Tetbury Hospital                                      | 152              |      |       |                |       | 98.0  |      |              |                   |                | 26.7 |
| Newmedica Community Ophthalmology (Brigg)             | 153              |      |       |                |       | 100.0 |      |              |                   |                | 6.0  |
| West Suffolk NHS Foundation Trust                     | 154              |      |       | ****           | 29.9  | 62.6  |      |              | ****              | 35.4           | 48.8 |
| Northern Care Alliance NHS Foundation Trust           | 155              |      |       |                |       | 22.5  |      |              |                   |                | 31.8 |
| Newmedica Community Ophthalmology (Frome)             | 156              |      |       |                |       | 100.0 |      |              |                   |                | 26.6 |
| Community Health and Eyecare Ltd (Preston)            | 157              |      |       |                |       | **    |      |              |                   |                | 22.8 |
| The Stoneygate Eye Hospital                           | 158              |      |       |                | 8.4   | 11.0  |      |              |                   | 11.1           | 16.7 |
| Newmedica Community Ophthalmology (Wakefield)         | 159              |      |       |                |       | 100.0 |      |              |                   |                | 0.0  |
| Optegra Eye Health Care (Central London Eye Hospital) | 160              | **   | 100.0 | 51.8           | 9.3   | ****  | 20.1 | 19.8         | 23.3              | 33.0           | **** |
| Overall for all centres                               | N/A              | 87.4 | 84.8  | 86.1           | 88.8  | 100.0 | 41.4 | 42.6         | 43.1              | 40.5           | 39.1 |

\*The estimate of the proportion of cases submitted to the audit is derived from the number of completed cataract operations supplied to NHS Digital or DHCW for the relevant NHS year. This estimation uses a pro rata calculation for a centre's denominator where the proportion of time during the NHS year that a centre had been recording cataract operations was multiplied by the number of cataract operations supplied to NHS Digital or DHCW. The numerator was the number of operations a centre had supplied to the audit. Centres that had more operations submitted to the national audit than in the NHS Digital or DHCW data were all assumed to have a complete submission rate as the actual rate was not possible to estimate. For a full explanation of how case ascertainment was estimated see the Statistical Analysis Plan on the audit website. \*\*These centres had no data in the indicated NHS year NHS digital data. \*\*\*These centres do not have to report to either NHS Digital or DHCW. \*\*\*\*Data from DHCW was not received for the 2016 NHS year \*\*\*\*\*These centres submitted data for <50 eligible operations in the indicated NHS year.

#### Appendix 13: The percentage of eyes with each ocular co-pathology / known risk indicator for the 2016 – 2020 NHS years

## Appendix 13 table: The percentage of eyes with each ocular co-pathology / known risk indicator in each NHS year

| Ocular co-pathology / know risk     |      |      | NHS year |      |      |
|-------------------------------------|------|------|----------|------|------|
| indicator                           | 2016 | 2017 | 2018     | 2019 | 2020 |
| Age-related macular<br>degeneration | 10.2 | 10.1 | 10.2     | 9.3  | 8.1  |
| Amblyopia                           | 1.7  | 1.7  | 1.7      | 1.5  | 1.1  |
| Brunescent/White/Mature<br>cataract | 4.6  | 4.9  | 5.4      | 4.9  | 5.5  |
| Corneal pathology                   | 3.8  | 3.9  | 4.5      | 5.2  | 8.7  |
| Diabetic retinopathy                | 5.2  | 5.6  | 5.7      | 5.1  | 4.0  |
| Glaucoma                            | 8.0  | 8.3  | 8.2      | 7.3  | 5.9  |
| High myopia                         | 3.5  | 3.4  | 3.4      | 2.9  | 2.4  |
| Inherited eye disease               | 0.1  | 0.1  | 0.1      | 0.1  | 0.6  |
| No fundal view/Vitreous opacity     | 1.6  | 1.7  | 2.0      | 2.0  | 3.0  |
| Optic nerve/CNS disease             | 0.4  | 0.4  | 0.4      | 0.4  | 0.3  |
| Other macular pathology             | 2.6  | 2.9  | 3.2      | 3.3  | 3.7  |
| Other retinal vascular pathology    | 1.0  | 1.0  | 1.0      | 1.0  | 0.8  |
| Previous trabeculectomy surgery     | 0.4  | 0.4  | 0.4      | 0.3  | 0.3  |
| Previous vitrectomy surgery         | 1.7  | 1.8  | 1.8      | 1.7  | 1.6  |
| Pseudoexfoliation/Phacodonesis      | 0.9  | 1.0  | 0.9      | 0.8  | 0.8  |
| Uveitis/Synechiae                   | 0.7  | 0.7  | 0.7      | 0.6  | 0.5  |
| Unspecified 'other' co-pathology    | 8.0  | 9.1  | 9.2      | 8.2  | 5.8  |

#### Appendix 14 table: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|  |                  |      | P    | Preoperative VA | %    |      |      | Po   | ostoperative VA | %    |      |
|--|------------------|------|------|-----------------|------|------|------|------|-----------------|------|------|
| Centre name  | Centre<br>number | 2016 | 2017 | 2018            | 2019 | 2020 | 2016 | 2017 | 2018            | 2019 | 2020 |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 72.1 | 73.1 | 72.0            | 76.8 | 70.3 | 69.0 | 71.3 | 71.1            | 75.3 | 71.8 |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust           | 2                | 97.0 | 95.3 | 92.9            | 87.7 | 36.8 | 85.1 | 85.0 | 81.7            | 80.6 | 44.0 |
| Norfolk and Norwich University Hospitals NHS Foundation<br>Trust | 3                | 95.5 | 95.7 | 94.1            | 94.2 | 77.2 | 15.4 | 14.6 | 14.8            | 11.8 | 17.2 |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 99.0 | 97.5 | 97.7            | 98.6 | 83.1 | 84.8 | 90.6 | 88.3            | 84.8 | 78.9 |
| York and Scarborough Teaching Hospitals NHS Foundation<br>Trust  | 5                | 86.4 | 84.8 | 70.6            | 54.0 | 36.3 | 82.9 | 77.7 | 79.5            | 80.1 | 32.9 |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 93.4 | 88.7 | 90.6            | 79.4 | 62.8 | 68.9 | 42.7 | 30.7            | 28.2 | 39.3 |
| University Hospitals Bristol and Weston NHS Foundation Trust     | 7                | 98.7 | 98.3 | 97.8            | 98.8 | 62.4 | 88.4 | 88.1 | 89.3            | 84.3 | 64.2 |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 94.1 | 93.0 | 80.3            | 78.1 | 59.1 | 90.5 | 82.7 | 77.4            | 79.6 | 75.9 |
| Sheffield Teaching Hospitals NHS Foundation Trust                | 9                | 97.0 | 97.7 | 98.6            | 99.4 |      | 97.0 | 97.0 | 96.8            | 93.1 |      |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 91.7 | 93.7 | 96.1            | 97.5 | 80.2 | 89.9 | 93.7 | 93.4            | 92.9 | 89.7 |
| University Hospital Southampton NHS Foundation Trust             | 11               | 95.0 | 94.9 | 97.7            | 97.1 | 84.9 | 87.9 | 93.5 | 94.6            | 89.9 | 91.6 |
| Royal Berkshire NHS Foundation Trust                             | 12               | 99.2 | 98.6 | 96.5            |      |      | 95.7 | 95.7 | 95.2            |      |      |
| Calderdale and Huddersfield NHS Foundation Trust                 | 13               | 93.8 | 96.1 | 97.3            |      |      | 82.7 | 81.7 | 79.3            |      |      |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 94.4 | 92.5 | 94.1            | 95.1 | 85.4 | 75.8 | 69.5 | 78.4            | 85.0 | 71.7 |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 93.1 | 98.1 | 99.3            | 98.9 | 77.2 | 81.7 | 80.6 | 84.0            | 85.6 | 78.7 |
| Cardiff & Vale University Local Health Board                     | 16               | 93.6 | 92.1 | 89.1            | 89.4 | 84.1 | 41.1 | 46.2 | 48.1            | 44.4 | 43.5 |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 98.2 | 97.4 | 97.6            | 98.3 | 79.9 | 90.3 | 90.7 | 92.3            | 90.1 | 61.8 |
| Barts Health NHS Trust   | 18               | 89.0 | 88.9 | 90.9            | 91.2 | 61.9 | 81.4 | 83.8 | 87.4            | 87.3 | 68.4 |
| Frimley Health NHS Foundation Trust                              | 19               | 98.2 | 95.1 | 98.5            | 98.4 | 91.4 | 50.4 | 54.8 | 69.6            | 79.1 | 57.7 |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 83.9 | 91.2 | 93.7            | 89.9 | 49.8 | 36.8 | 56.2 | 72.2            | 84.8 | 51.2 |
| University Hospitals Plymouth NHS Trust                          | 22               | 99.3 | 98.9 | 99.3            | 98.3 | 68.4 | 91.8 | 92.1 | 90.0            | 87.0 | 71.6 |
| University Hospitals Birmingham NHS Foundation Trust             | 23               | 97.8 | 97.8 | 97.0            | 96.7 | 71.9 | 96.7 | 96.6 | 97.3            | 95.5 | 83.6 |

NOD Audit Sixth Annual Report - Fifth Prospective Audit Year Report

#### Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|   |                  |      | P    | reoperative VA | %    |      | Postoperative VA % |      |      |      |      |  |
|---|------------------|------|------|----------------|------|------|--------------------|------|------|------|------|--|
| Centre name   | Centre<br>number | 2016 | 2017 | 2018           | 2019 | 2020 | 2016               | 2017 | 2018 | 2019 | 2020 |  |
| Hampshire Hospitals NHS Foundation Trust                          | 24               | 96.6 | 95.4 | 95.0           | 85.6 | 72.2 | 74.8               | 73.3 | 74.5 | 77.6 | 44.0 |  |
| Royal Cornwall Hospitals NHS Trust                                | 25               | 98.4 | 95.8 | 86.8           | 95.6 | 80.8 | 80.6               | 85.7 | 86.1 | 68.8 | 57.6 |  |
| Manchester University NHS Foundation Trust                        | 26               | 98.1 | 97.2 | 98.4           | 96.4 | 84.3 | 92.3               | 92.8 | 88.4 | 82.5 | 28.9 |  |
| King's College Hospital NHS Foundation Trust                      | 27               | 97.0 | 95.9 | 97.0           | 97.2 | 89.2 | 85.7               | 91.4 | 93.5 | 92.4 | 86.8 |  |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 92.7 | 83.4 | 89.7           | 87.6 | 67.0 | 76.0               | 79.6 | 84.7 | 86.0 | 60.1 |  |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 99.1 | 97.4 | 97.0           | 96.8 | 76.3 | 84.1               | 83.4 | 85.8 | 88.1 | 40.9 |  |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 93.0 | 91.4 | 91.1           | 90.4 | 39.2 | 74.4               | 84.6 | 72.0 | 81.3 | 79.8 |  |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 91.3 | 89.4 | 88.9           | 92.3 | 72.1 | 60.5               | 64.0 | 61.3 | 63.3 | 45.7 |  |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 94.2 | 95.4 | 97.1           | 97.2 | 59.7 | 96.0               | 96.5 | 95.2 | 95.7 | 96.7 |  |
| Mid and South Essex NHS Foundation Trust                          | 34               | 81.6 | 79.1 | 67.7           | 60.4 | 36.4 | 61.9               | 72.7 | 9.5  | 6.6  | 7.0  |  |
| Harrogate and District NHS Foundation Trust                       | 35               | 96.8 | 97.5 | 96.2           | 96.6 | 79.7 | 87.0               | 85.3 | 86.9 | 88.9 | 17.0 |  |
| North West Anglia NHS Foundation Trust                            | 36               | 96.6 | 97.5 | 97.5           | 96.8 | 82.9 | 85.3               | 86.4 | 87.9 | 80.8 | 69.7 |  |
| Northern Devon Healthcare NHS Trust                               | 37               | 99.6 | 98.8 | 97.1           | 97.5 | 96.6 | 92.6               | 90.0 | 89.3 | 89.3 | 80.5 |  |
| Wirral University Teaching Hospital NHS Foundation Trust          | 39               | 79.0 | 73.5 | 81.1           | 87.2 | 74.0 | 72.1               | 79.6 | 81.4 | 73.0 | 86.4 |  |
| South Warwickshire NHS Foundation Trust                           | 40               | 98.0 | 97.7 | 98.4           | 97.9 | 85.3 | 75.1               | 80.1 | 77.9 | 70.4 | 70.6 |  |
| Isle of Wight NHS Trust   | 41               | 87.1 | 90.8 | 92.6           | 84.8 | 68.0 | 83.6               | 86.6 | 73.9 | 81.6 | 85.8 |  |
| St Helens and Knowsley Teaching Hospitals NHS Trust               | 42               | 96.0 | 97.8 | 97.9           | 90.0 | 79.6 | 69.6               | 68.1 | 60.9 | 72.6 | 53.7 |  |
| Wrightington, Wigan and Leigh NHS Foundation Trust                | 43               | 99.2 | 99.0 | 98.9           | 97.5 | 78.7 | 92.8               | 94.2 | 92.6 | 92.7 | 90.5 |  |
| Warrington and Halton Teaching Hospitals NHS Foundation<br>Trust  | 44               | 96.4 | 95.6 | 95.1           | 94.1 | 37.3 | 14.4               | 63.8 | 82.7 | 84.8 | 96.4 |  |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 98.6 | 96.4 | 94.9           | 38.7 | 30.3 | 64.3               | 55.7 | 59.4 | 62.3 | 37.7 |  |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 98.4 | 95.4 | 89.4           | 83.5 | 82.0 | 78.8               | 67.4 | 68.3 | 72.2 | 60.5 |  |
| Barking, Havering and Redbridge University Hospitals NHS<br>Trust | 47               | 83.3 | 88.2 | 88.6           | 88.9 | 92.9 | 44.4               | 56.4 | 62.9 | 58.5 | 47.0 |  |
| Royal Free London NHS Foundation Trust                            | 48               | 95.2 | 95.9 | 92.5           | 93.1 | 42.3 | 50.8               | 19.8 | 32.2 | 58.2 | 55.9 |  |
| University Hospitals Coventry and Warwickshire NHS Trust          | 49               | 89.8 | 96.6 | 95.0           | 91.7 | 59.5 | 64.4               | 94.8 | 93.1 | 96.3 | 89.2 |  |

#### Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|  |                  | Preoperative VA % |       |      |       |      |      | P    | ostoperative VA | %    |      |
|--|------------------|-------------------|-------|------|-------|------|------|------|-----------------|------|------|
| Centre name  | Centre<br>number | 2016              | 2017  | 2018 | 2019  | 2020 | 2016 | 2017 | 2018            | 2019 | 2020 |
| Barnsley Hospital NHS Foundation Trust                     | 50               | 81.2              | 24.7  | 19.3 | 3.4   |      | 22.1 | 4.7  | 41.3            | 98.9 |      |
| Salisbury NHS Foundation Trust                             | 51               | 99.2              | 98.7  | 99.3 | 97.4  | 37.6 | 95.3 | 98.1 | 98.2            | 95.6 | 76.6 |
| London North West University Healthcare NHS Trust          | 52               | 75.5              | 79.3  | 67.1 |       |      | 71.3 | 73.5 | 59.3            |      |      |
| Blackpool Teaching Hospitals NHS Foundation Trust          | 53               | **                |       |      |       |      | **   |      |                 |      |      |
| University Hospitals of Morecambe Bay NHS Foundation Trust | 54               | 89.0              |       |      |       |      | 16.7 |      |                 |      |      |
| Nottingham University Hospitals NHS Trust                  | 55               | 93.2              | 88.2  | 86.2 | 88.0  | 48.9 | 93.4 | 83.8 | 89.6            | 90.1 | 89.4 |
| Yeovil District Hospital NHS Foundation Trust              | 56               | 99.0              | 99.9  | 99.9 | 100.0 | 98.7 | 67.2 | 96.8 | 99.1            | 96.1 | 91.8 |
| SpaMedica – Manchester                                     | 57               | 99.9              | 99.9  | 99.7 | 99.6  | 95.7 | 93.4 | 90.3 | 85.7            | 88.7 | 80.3 |
| SpaMedica – Wakefield                                      | 58               | 99.9              | 99.9  | 99.9 | 99.6  | 98.0 | 91.2 | 89.7 | 87.1            | 87.2 | 79.6 |
| East Sussex Healthcare NHS Trust                           | 59               | 91.2              | 90.2  | 84.8 | 86.1  | 71.8 | 62.7 | 81.6 | 79.5            | 81.6 | 73.8 |
| Imperial College Healthcare NHS Trust                      | 60               | 92.2              | 93.9  | 94.0 | 96.6  | 78.0 | 87.5 | 94.7 | 94.0            | 92.9 | 77.1 |
| Portsmouth Hospitals University NHS Trust                  | 61               | 93.0              | 95.4  | 96.6 | 97.1  | 93.2 | 93.4 | 93.9 | 93.2            | 93.8 | 91.3 |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 71.7              | 83.5  | 91.9 | 91.5  | 70.4 | 79.1 | 74.9 | 79.7            | 82.8 | 75.9 |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 77.9              | 86.3  | 88.7 | 93.6  | 38.3 | 30.0 | 51.8 | 59.0            | 60.9 | 50.3 |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 85.8              | 96.1  | 93.6 | 96.1  | 72.8 | 14.4 | 20.3 | 40.2            | 46.6 | 62.4 |
| SpaMedica – Birkenhead                                     | 66               | 99.8              | 100.0 | 99.8 | 99.9  | 96.0 | 93.5 | 93.5 | 90.9            | 92.1 | 87.8 |
| County Durham and Darlington NHS Foundation Trust          | 67               | 98.0              | 94.2  | 84.5 | 92.4  | 42.8 | 97.5 | 97.4 | 97.1            | 98.6 | 48.6 |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 93.3              | 94.5  | 96.6 | 95.8  | 51.9 | 63.5 | 57.5 | 54.8            | 57.4 | 36.2 |
| SpaMedica – Newton-le-Willows                              | 69               | 99.9              | 99.9  | 99.9 | 99.8  |      | 93.4 | 88.3 | 87.8            | 93.8 |      |
| Northampton General Hospital NHS Trust                     | 70               | 68.5              | 74.1  | 66.3 | 69.7  | 27.6 | 13.1 | 20.9 | 20.0            | 16.0 | 8.1  |
| SpaMedica – Liverpool                                      | 71               | 100.0             | 100.0 | 99.9 | 99.4  | 96.4 | 93.3 | 86.0 | 86.2            | 87.0 | 85.9 |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 85.2              | 87.9  | 88.1 | 87.7  | 68.8 | 16.6 | 73.2 | 74.3            | 77.1 | 79.5 |
| Bolton NHS Foundation Trust                                | 73               | 94.7              | 98.8  | 99.1 | 98.6  | 95.8 | *    | 87.5 | 86.5            | 93.4 | 86.1 |
| Kingston Hospital NHS Foundation Trust                     | 74               | 46.7              | 40.8  | 12.5 | 4.3   | 5.4  | *    | 7.7  | 1.7             | 0.1  | 0.1  |

#### Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|  |                  | Preoperative VA % |       |      |      |      | Postoperative VA % |      |      |      |      |
|--|------------------|-------------------|-------|------|------|------|--------------------|------|------|------|------|
| Centre name  | Centre<br>number | 2016              | 2017  | 2018 | 2019 | 2020 | 2016               | 2017 | 2018 | 2019 | 2020 |
| Northern Lincolnshire and Goole NHS Foundation Trust       | 75               | 77.4              | 77.2  | 73.9 |      |      | 95.3               | 95.4 | 96.6 |      |      |
| The Rotherham NHS Foundation Trust                         | 76               | 99.4              | 95.0  | 96.0 |      |      | 14.9               | 24.8 | 35.4 |      |      |
| Torbay and South Devon NHS Foundation Trust                | 77               | **                | 97.3  | 88.9 | 83.0 | 71.2 | **                 | 50.4 | 53.7 | 67.5 | 48.9 |
| Great Western Hospitals NHS Foundation Trust               | 78               | 95.8              | 95.5  | 91.8 | 96.4 | 92.3 | 91.9               | 82.1 | 84.3 | 89.4 | 87.6 |
| SpaMedica – Bolton   | 79               |                   | 100.0 | 99.9 | 99.7 | 97.2 |                    | 92.4 | 89.6 | 89.7 | 88.4 |
| The Princess Alexandra Hospital NHS Trust                  | 80               | 100.0             | 98.1  | 96.3 |      |      | 65.2               | 88.7 | 83.3 |      |      |
| Wye Valley NHS Trust                                       | 81               | 54.2              | 71.0  |      |      |      | *                  | 76.6 |      |      |      |
| Cwm Taf Morgannwg University Local Health Board            | 82               | **                | 72.8  | 86.2 | 88.9 | 51.1 | **                 | 78.5 | 81.4 | 74.9 | 52.3 |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 13.2              | 54.4  | 73.0 | 74.0 | 61.0 | *                  | 6.6  | 54.0 | 64.6 | 48.3 |
| Royal Surrey County Hospital NHS Foundation Trust          | 84               | 98.9              | 98.2  | 97.9 | 97.6 | **   | 96.2               | 92.2 | 96.2 | 98.0 | **   |
| East Lancashire Hospitals NHS Trust                        | 85               |                   | 2.7   |      |      |      |                    | 0.0  |      |      |      |
| Southport and Ormskirk Hospital NHS Trust                  | 86               |                   | 36.3  | 90.3 | 96.9 | 97.7 |                    | 59.5 | 88.0 | 86.5 | 71.2 |
| Stockport NHS Foundation Trust                             | 87               |                   | 10.8  | **   |      |      |                    | 0.0  | **   |      |      |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 98.5              | 99.1  | 99.1 | 99.4 | 65.0 | 94.7               | 96.9 | 95.0 | 97.1 | 96.2 |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 97.9              | 99.7  | 99.7 | 99.8 | 63.5 | 23.0               | 64.9 | 97.2 | 77.2 | 29.9 |
| Practice Plus Group Hospital, Emersons Green               | 90               | 99.6              | 99.8  | 99.6 | 99.6 | 82.3 | 53.1               | 57.1 | 65.1 | 49.7 | 70.8 |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 99.8              | 99.5  | 99.4 | 96.4 | 70.5 | 98.7               | 97.6 | 98.9 | 60.1 | 65.3 |
| SpaMedica – Sheffield                                      | 92               |                   | 100.0 | 99.9 | 99.7 | 94.8 |                    | 93.1 | 88.6 | 89.0 | 72.5 |
| Practice Plus Group Hospital, Plymouth                     | 93               | 99.2              | 97.0  | 92.0 | 97.1 | 35.5 | 97.3               | 98.2 | 92.8 | 53.8 | 16.8 |
| North Cumbria Integrated Care NHS Foundation Trust         | 94               |                   | 98.6  | 95.7 | 93.4 |      |                    | 17.3 | 11.3 | 8.1  |      |
| Practice Plus Group Ophthalmology, Rochdale                | 95               | 98.7              | 99.1  | 98.4 | 99.6 | 97.8 | 98.4               | 89.0 | 68.0 | 69.8 | 86.3 |
| Practice Plus Group Hospital, Ilford                       | 97               | 92.4              | 84.1  | 96.1 | 97.3 | 65.7 | 92.0               | 93.9 | 97.4 | 95.7 | 21.7 |
| North Middlesex University Hospital NHS Trust              | 98               |                   | 70.6  | 85.8 | 97.3 | 53.1 |                    | 82.3 | 93.3 | 98.3 | 92.7 |
| University Hospitals Sussex NHS Foundation Trust           | 99               |                   | **    | 94.0 | 74.2 | 61.7 |                    | **   | 3.8  | 16.8 | 3.4  |

## Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|   |                  |       | F    | Preoperative VA | %     |      |      | P    | ostoperative VA | %    |      |
|---|------------------|-------|------|-----------------|-------|------|------|------|-----------------|------|------|
| Centre name                                     | Centre<br>number | 2016  | 2017 | 2018            | 2019  | 2020 | 2016 | 2017 | 2018            | 2019 | 2020 |
| Practice Plus Group Surgical Centre, Devizes    | 100              | 99.4  | 99.6 | 100.0           | 100.0 | 88.2 | 98.9 | 99.2 | 99.8            | 83.4 | 97.4 |
| Surrey and Sussex Healthcare NHS Trust          | 101              |       | 67.5 | 68.8            | 78.8  | 94.5 |      | 5.3  | 2.8             | 3.4  | 45.5 |
| Aneurin Bevan University Local Health Board     | 102              |       | 94.5 | 96.2            | 94.9  | 97.9 |      | *    | 42.1            | 85.1 | 96.8 |
| Practice Plus Group Hospital, Southampton       | 103              | 100.0 | 99.7 | 52.6            | 42.3  | 26.4 | 98.1 | 97.5 | 50.7            | 41.9 | 35.1 |
| SpaMedica – Birmingham                          | 104              |       |      | 99.9            | 99.5  | 96.7 |      |      | 93.1            | 90.9 | 83.9 |
| St. Stephens Gate Medical Practice              | 105              |       | 99.4 | 99.6            | 100.0 | 92.2 |      | 98.6 | 37.2            | 31.7 | 36.6 |
| The Dudley Group NHS Foundation Trust           | 106              |       | **   | 46.1            | 51.0  | 43.1 |      | **   | 75.1            | 67.0 | 74.9 |
| Swansea Bay University Local Health Board       | 107              |       | 70.7 | 96.4            |       |      |      | *    | 44.6            |      |      |
| East Cheshire NHS Trust                         | 108              |       | **   | 64.6            | 93.8  | 69.0 |      | **   | 59.7            | 40.5 | 55.4 |
| Guy's and St Thomas' NHS Foundation Trust       | 110              |       |      | 68.8            | 85.8  | 89.0 |      |      | 63.5            | 86.6 | 94.3 |
| Buckinghamshire Healthcare NHS Trust            | 111              |       |      | 1.9             | 24.2  | 31.8 |      |      | *               | 10.9 | 8.6  |
| SpaMedica – Bradford                            | 112              |       |      | 100.0           | 99.7  | 96.6 |      |      | 90.3            | 85.1 | 74.5 |
| SpaMedica – West Lancashire                     | 113              |       |      | 100.0           | 99.1  | 92.6 |      |      | 87.5            | 87.6 | 90.0 |
| Somerset NHS Foundation Trust                   | 114              |       |      |                 | 51.9  | 41.6 |      |      |                 | 44.8 | 73.2 |
| Medical specialists group Guernsey              | 115              | 98.2  | 99.0 | 97.8            | 97.9  | 80.1 | 98.8 | 98.2 | 98.4            | 98.8 | 69.7 |
| Hywel Dda University Local Health Board         | 116              |       | **   | 10.2            | 3.4   | 23.2 |      | **   | 4.7             | 25.8 | *    |
| George Eliot Hospital NHS Trust                 | 117              |       |      | 97.5            | 77.3  | 29.7 |      |      | *               | 97.5 | 95.8 |
| SpaMedica – Newcastle Under Lyme                | 118              |       |      |                 | 99.6  | 96.2 |      |      |                 | 91.7 | 90.0 |
| SpaMedica – Widnes                              | 119              |       |      |                 | 99.8  | 97.4 |      |      |                 | 89.4 | 82.1 |
| Kettering General Hospital NHS Foundation Trust | 120              | **    | **   | 1.9             | 21.6  | 30.2 | **   | **   | *               | 4.7  | 7.7  |
| SpaMedica – Chelmsford                          | 121              |       |      |                 | 99.8  | 97.6 |      |      |                 | 94.8 | 78.9 |
| Community Health and Eyecare Ltd (Face and Eye) | 123              |       |      |                 | 91.4  | **   |      |      |                 | 0.0  | **   |
| Newmedica Community Ophthalmology (Teesside)    | 124              |       |      |                 | 0.0   | 0.0  |      |      |                 | 0.0  | 0.0  |
| SpaMedica – Preston                             | 125              |       |      |                 |       | 94.4 |      |      |                 |      | 86.7 |

Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|  |                  |      | F    | Preoperative VA | %    |      |      | P    | ostoperative VA | .%   |      |
|--|------------------|------|------|-----------------|------|------|------|------|-----------------|------|------|
| Centre name  | Centre<br>number | 2016 | 2017 | 2018            | 2019 | 2020 | 2016 | 2017 | 2018            | 2019 | 2020 |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              |      |      |                 | 0.0  | 20.4 |      |      |                 | 0.0  | 6.1  |
| SpaMedica – Wolverhampton                              | 127              |      |      |                 | 99.7 | 97.6 |      |      |                 | 92.7 | 87.8 |
| Community Health and Eyecare Ltd (Blackpool)           | 128              |      |      |                 |      | 97.6 |      |      |                 |      | 55.2 |
| Community Health and Eyecare Ltd (Watford)             | 129              |      |      |                 | 89.6 | 80.7 |      |      |                 | 66.1 | 40.8 |
| SpaMedica – Hull                                       | 130              |      |      |                 | 99.7 | 96.6 |      |      |                 | 90.6 | 87.5 |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 86.4 | 85.5 | 85.5            | 88.2 | 96.8 | 85.6 | 86.5 | 85.9            | 87.2 | 70.1 |
| Newmedica Community Ophthalmology (Grimsby)            | 132              |      |      |                 | 0.0  | 6.6  |      |      |                 | 0.0  | 2.2  |
| Newmedica Community Ophthalmology (Bristol)            | 133              |      |      |                 | 0.0  | 26.8 |      |      |                 | 0.0  | 7.6  |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | 95.6 | 95.8 | 94.1            | 94.2 | 90.1 | 81.2 | 88.6 | 91.1            | 94.5 | 59.8 |
| Worcestershire Acute Hospitals NHS Trust               | 135              |      |      |                 |      | 51.7 |      |      |                 |      | 30.6 |
| Community Health and Eyecare Ltd (Stoke)               | 136              |      |      |                 | 95.5 | 90.3 |      |      |                 | 1.1  | 9.1  |
| SpaMedica – Bedford                                    | 137              |      |      |                 | 99.7 | 95.2 |      |      |                 | 95.7 | 82.1 |
| Newmedica Community Ophthalmology (Leeds)              | 138              |      |      |                 | 0.0  | 6.9  |      |      |                 | 0.0  | 0.6  |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 99.0 | 97.9 | 90.7            | 85.0 | 92.7 | 52.9 | 55.1 | 57.9            | 57.2 | 71.8 |
| SpaMedica – Coventry                                   | 140              |      |      |                 |      | 98.8 |      |      |                 |      | 86.8 |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 98.6 | 99.1 | 99.3            | 99.1 | 98.9 | 87.8 | 82.6 | 94.4            | 96.3 | 78.4 |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | 98.3 | 99.0 | 98.4            | 96.5 | 86.0 | 78.1 | 92.5 | 95.4            | 96.5 | 73.9 |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | 98.1 | 91.3 | 44.1            | 53.4 | 90.0 | 96.7 | 96.4 | 95.8            | 91.1 | 62.4 |
| Newmedica Community Ophthalmology (Ipswich)            | 144              |      |      |                 |      | 0.0  |      |      |                 |      | 0.0  |
| Newmedica Community Ophthalmology (Barlborough)        | 145              |      |      |                 | 0.0  | 52.0 |      |      |                 | 0.0  | 51.6 |
| Newmedica Community Ophthalmology (Exeter)             | 146              |      |      |                 |      | 28.0 |      |      |                 |      | 12.6 |
| SpaMedica – Derby                                      | 147              |      |      |                 |      | 99.4 |      |      |                 |      | 84.1 |
| Exeter Eye   | 148              |      | **   | 73.9            | 93.6 | 87.1 |      | **   | 93.2            | 73.1 | 73.6 |
| SpaMedica – Bromley                                    | 149              |      |      |                 |      | 99.4 |      |      |                 |      | 80.0 |

Appendix 14 table continued: The percentage of eyes with preoperative and postoperative visual acuity data for participating centres in each NHS year

|   |                  |      | P    | Preoperative VA | %     |       |      | Pc   | ostoperative VA | %    |      |
|---|------------------|------|------|-----------------|-------|-------|------|------|-----------------|------|------|
| Centre name   | Centre<br>number | 2016 | 2017 | 2018            | 2019  | 2020  | 2016 | 2017 | 2018            | 2019 | 2020 |
| SpaMedica – Wokingham                                 | 150              |      |      |                 |       | 99.7  |      |      |                 |      | 90.7 |
| SpaMedica – Stockton-on-Tees                          | 151              |      |      |                 |       | 100.0 |      |      |                 |      | 90.5 |
| Tetbury Hospital                                      | 152              |      |      |                 |       | 63.3  |      |      |                 |      | 94.4 |
| Newmedica Community Ophthalmology (Brigg)             | 153              |      |      |                 |       | 42.2  |      |      |                 |      | *    |
| West Suffolk NHS Foundation Trust                     | 154              |      |      | **              | 80.3  | 83.3  |      |      | **              | 73.1 | 69.6 |
| Northern Care Alliance NHS Foundation Trust           | 155              |      |      |                 |       | 43.9  |      |      |                 |      | *    |
| Newmedica Community Ophthalmology (Frome)             | 156              |      |      |                 |       | 65.6  |      |      |                 |      | *    |
| Community Health and Eyecare Ltd (Preston)            | 157              |      |      |                 |       | 98.4  |      |      |                 |      | *    |
| The Stoneygate Eye Hospital                           | 158              |      |      |                 | 100.0 | 95.6  |      |      |                 | *    | 98.2 |
| Newmedica Community Ophthalmology (Wakefield)         | 159              |      |      |                 |       | 0.0   |      |      |                 |      | *    |
| Optegra Eye Health Care (Central London Eye Hospital) | 160              | 99.0 | 98.2 | 93.8            | 83.5  | **    | 39.3 | 49.6 | 48.1            | 58.1 | **   |
| Overall for all centres                               | N/A              | 92.5 | 91.6 | 89.9            | 85.6  | 71.0  | 76.4 | 76.8 | 75.7            | 72.6 | 59.8 |

\*No estimate is produced for centres with <50 eligible operations in the postoperative qualifying time period. \*\*These centres supplied data for <50 eligible operations in the relevant audit year.

|  |                  |      | Poster | ior Capsule Rup | ture % |      |      | Postoper | ative Visual Acu | ity Loss % |      |
|--|------------------|------|--------|-----------------|--------|------|------|----------|------------------|------------|------|
| Centre name  | Centre<br>number | 2016 | 2017   | 2018            | 2019   | 2020 | 2016 | 2017     | 2018             | 2019       | 2020 |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 0.87 | 0.91   | 0.75            | 0.78   | 0.80 | 0.55 | 0.56     | 0.43             | 0.47       |      |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust           | 2                | 0.76 | 0.93   | 0.99            | 0.86   | 0.56 | 0.48 | 0.52     | 0.44             | 0.46       |      |
| Norfolk and Norwich University Hospitals NHS Foundation<br>Trust | 3                | 0.80 | 0.60   | 0.46            | 0.62   | 0.37 |      |          |                  |            |      |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 0.80 | 0.66   | 0.58            | 0.57   | 0.83 | 0.61 | 0.39     | 0.32             | 0.53       | 0.87 |
| York and Scarborough Teaching Hospitals NHS Foundation<br>Trust  | 5                | 0.67 | 0.65   | 0.55            | 0.60   | 0.36 | 0.57 | 0.66     |                  |            |      |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 0.93 | 1.15   | 0.99            | 0.80   | 1.44 | 0.68 |          |                  |            |      |
| University Hospitals Bristol and Weston NHS Foundation Trust     | 7                | 1.02 | 1.00   | 0.92            | 0.95   | 0.41 | 0.54 | 0.48     | 0.58             | 0.84       |      |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 0.81 | 0.80   | 0.70            | 0.92   | 0.92 | 0.41 | 0.39     | 0.57             | 0.26       |      |
| Sheffield Teaching Hospitals NHS Foundation Trust                | 9                | 0.86 | 0.80   | 0.73            | 0.61   |      | 0.71 | 0.72     | 0.71             | 0.80       |      |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 1.15 | 1.21   | 1.17            | 1.12   | 1.69 | 0.87 | 0.62     | 0.41             | 0.76       | 0.88 |
| University Hospital Southampton NHS Foundation Trust             | 11               | 1.13 | 0.97   | 0.90            | 0.87   | 0.68 | 0.69 | 0.43     | 0.51             | 0.33       | 0.51 |
| Royal Berkshire NHS Foundation Trust                             | 12               | 0.75 | 0.88   | 0.70            |        |      | 0.29 | 0.25     | 0.83             |            |      |
| Calderdale and Huddersfield NHS Foundation Trust                 | 13               | 1.11 | 0.71   | 0.60            |        |      | 0.64 | 0.56     | 0.72             |            |      |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 1.00 | 0.83   | 0.67            | 0.83   | 1.16 | 0.46 | 1.02     | 0.48             | 0.25       | 0.78 |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 0.61 | 0.57   | 0.71            | 0.50   | 0.73 | 0.59 | 0.39     | 0.47             | 0.26       |      |
| Cardiff & Vale University Local Health Board                     | 16               | 1.16 | 1.15   | 1.04            | 1.06   | 1.09 |      |          |                  |            |      |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 0.74 | 1.00   | 1.00            | 0.86   | 0.96 | 0.31 | 0.26     | 0.31             | 0.42       |      |
| Barts Health NHS Trust   | 18               | 1.48 | 0.95   | 0.81            | 0.63   | 1.22 | 0.61 | 0.38     | 0.64             | 1.01       |      |
| Frimley Health NHS Foundation Trust                              | 19               | 1.03 | 0.85   | 0.91            | 0.64   | 0.76 |      |          | 0.98             | 0.79       |      |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 1.36 | 0.93   | 0.84            | 1.21   | 1.08 |      |          | 0.68             | 0.67       |      |
| University Hospitals Plymouth NHS Trust                          | 22               | 0.59 | 0.40   | 0.41            | 0.39   | 0.51 | 0.77 | 0.35     | 0.38             | 0.13       |      |
| University Hospitals Birmingham NHS Foundation Trust             | 23               | 1.34 | 0.84   | 0.87            | 0.60   | 0.85 | 0.56 | 0.63     | 0.53             | 0.52       |      |

|   |                  |      | Poster | ior Capsule Rup | oture % |      |      | Postoper | ative Visual Acu | iity Loss % |      |
|---|------------------|------|--------|-----------------|---------|------|------|----------|------------------|-------------|------|
| Centre name   | Centre<br>number | 2016 | 2017   | 2018            | 2019    | 2020 | 2016 | 2017     | 2018             | 2019        | 2020 |
| Hampshire Hospitals NHS Foundation Trust                          | 24               | 0.75 | 0.61   | 0.64            | 0.85    | 0.43 | 0.16 | 0.46     | 0.36             | 0.38        |      |
| Royal Cornwall Hospitals NHS Trust                                | 25               | 0.67 | 0.80   | 0.65            | 0.53    | 0.43 | 0.71 | 0.34     | 0.56             | 0.37        |      |
| Manchester University NHS Foundation Trust                        | 26               | 0.73 | 0.96   | 1.01            | 0.91    | 0.95 | 0.99 | 0.28     | 0.40             | 0.49        |      |
| King's College Hospital NHS Foundation Trust                      | 27               | 0.90 | 1.06   | 0.92            | 0.98    | 0.97 | 0.70 | 0.72     | 0.65             | 0.55        | 0.40 |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 1.21 | 0.82   | 0.81            | 0.71    | 1.02 | 0.52 | 0.59     | 0.94             | 1.03        |      |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 0.68 | 1.08   | 0.85            | 0.86    | 0.51 | 1.38 | 0.61     | 0.44             | 0.94        |      |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 1.38 | 1.63   | 1.02            | 0.89    | 1.71 | 0.59 | 0.87     | 0.71             | 0.96        |      |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 0.61 | 0.67   | 0.58            | 0.66    | 0.88 |      |          |                  |             |      |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 1.48 | 1.54   | 1.19            | 1.77    | 0.69 | 0.28 | 0.21     | 0.83             | 0.58        |      |
| Mid and South Essex NHS Foundation Trust                          | 34               | 1.95 | 1.42   | 0.90            | 0.77    | 0.95 |      |          |                  |             |      |
| Harrogate and District NHS Foundation Trust                       | 35               | 0.28 | 0.32   | 0.39            | 0.50    | 0.00 | 0.84 | 0.99     | 0.47             | 0.64        |      |
| North West Anglia NHS Foundation Trust                            | 36               | 0.94 | 0.86   | 0.65            | 0.94    | 0.78 | 0.46 | 0.32     | 0.29             | 0.26        |      |
| Northern Devon Healthcare NHS Trust                               | 37               | 1.03 | 0.83   | 0.35            | 0.28    | 0.50 | 0.71 | 0.41     | 0.32             | 0.61        | 0.62 |
| Wirral University Teaching Hospital NHS Foundation Trust          | 39               | 0.93 | 0.65   | 0.38            | 0.40    | 0.54 |      |          | 1.46             | 0.88        | 1.28 |
| South Warwickshire NHS Foundation Trust                           | 40               | 0.60 | 0.47   | 0.68            | 0.65    | 0.61 | 0.20 | 0.49     | 0.23             | 0.28        |      |
| Isle of Wight NHS Trust   | 41               | 0.72 | 0.41   | 0.60            | 0.91    | 0.85 | 0.85 | 0.51     | 2.32             | 1.14        |      |
| St Helens and Knowsley Teaching Hospitals NHS Trust               | 42               | 1.23 | 1.04   | 0.73            | 1.29    | 0.86 | 1.33 | 1.46     | 0.90             | 1.67        |      |
| Wrightington, Wigan and Leigh NHS Foundation Trust                | 43               | 0.82 | 0.96   | 0.49            | 1.06    | 0.66 | 0.60 | 0.26     | 1.28             | 1.36        | 2.01 |
| Warrington and Halton Teaching Hospitals NHS Foundation<br>Trust  | 44               | 0.72 | 0.58   | 0.37            | 0.42    | 0.83 |      | 1.04     | 0.52             | 0.71        |      |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 0.77 | 0.57   | 0.82            | 1.26    | 1.79 | 0.76 |          |                  |             |      |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 0.81 | 0.65   | 0.55            | 0.63    | 0.53 | 1.17 | 1.00     | 0.81             | 0.55        |      |
| Barking, Havering and Redbridge University Hospitals NHS<br>Trust | 47               | 0.62 | 1.01   | 0.85            | 0.54    | 1.15 |      |          |                  |             |      |
| Royal Free London NHS Foundation Trust                            | 48               | 1.01 | 0.61   | 1.20            | 1.04    | 1.24 |      |          |                  |             |      |
| University Hospitals Coventry and Warwickshire NHS Trust          | 49               | 0.67 | 0.53   | 0.64            | 0.70    | 0.63 |      | 0.33     | 0.42             | 0.29        |      |

|  |                  |      | Poster | ior Capsule Rup | ture % |      |      | Postoper | ative Visual Acu | ity Loss % |      |
|--|------------------|------|--------|-----------------|--------|------|------|----------|------------------|------------|------|
| Centre name  | Centre<br>number | 2016 | 2017   | 2018            | 2019   | 2020 | 2016 | 2017     | 2018             | 2019       | 2020 |
| Barnsley Hospital NHS Foundation Trust                     | 50               | 0.06 | 0.56   | 0.00            | 0.00   |      |      |          |                  |            |      |
| Salisbury NHS Foundation Trust                             | 51               | 1.68 | 1.11   | 0.88            | 0.42   | 1.03 | 0.23 | 0.09     | 0.15             | 0.07       |      |
| London North West University Healthcare NHS Trust          | 52               | 1.20 | 0.78   | 1.37            |        |      |      |          |                  |            |      |
| Blackpool Teaching Hospitals NHS Foundation Trust          | 53               | *    |        |                 |        |      | *    |          |                  |            |      |
| University Hospitals of Morecambe Bay NHS Foundation Trust | 54               | 0.92 |        |                 |        |      |      |          |                  |            |      |
| Nottingham University Hospitals NHS Trust                  | 55               | 0.60 | 0.71   | 0.69            | 0.66   | 0.83 | 0.62 | 0.80     | 0.56             | 0.30       |      |
| Yeovil District Hospital NHS Foundation Trust              | 56               | 0.61 | 1.51   | 1.21            | 0.54   | 0.96 | 1.26 | 0.45     | 0.19             | 0.24       | 0.57 |
| SpaMedica – Manchester                                     | 57               | 0.72 | 0.41   | 0.42            | 0.51   | 0.46 | 0.44 | 0.13     | 0.27             | 0.19       | 0.33 |
| SpaMedica – Wakefield                                      | 58               | 0.51 | 0.38   | 0.44            | 0.63   | 0.50 | 0.31 | 0.16     | 0.36             | 0.28       | 0.26 |
| East Sussex Healthcare NHS Trust                           | 59               | 1.05 | 1.20   | 0.61            | 0.64   | 0.90 |      | 0.42     | 0.42             | 0.29       |      |
| Imperial College Healthcare NHS Trust                      | 60               | 1.19 | 1.41   | 1.14            | 1.07   | 1.29 | 0.70 | 0.64     | 0.70             | 0.65       | 0.86 |
| Portsmouth Hospitals University NHS Trust                  | 61               | 0.88 | 0.84   | 0.89            | 0.63   | 0.83 | 0.58 | 0.55     | 0.71             | 0.78       | 0.83 |
| Cambridge University Hospitals NHS Foundation Trust        | 63               | 0.87 | 0.84   | 0.48            | 0.55   | 0.25 |      | 2.01     | 1.39             | 0.37       |      |
| East Kent Hospitals University NHS Foundation Trust        | 64               | 0.62 | 0.74   | 0.81            | 0.62   | 0.37 |      |          |                  |            |      |
| East Suffolk and North Essex NHS Foundation Trust          | 65               | 0.94 | 0.73   | 0.97            | 0.89   | 0.77 |      |          |                  |            |      |
| SpaMedica – Birkenhead                                     | 66               | 0.27 | 0.28   | 0.21            | 0.19   | 0.28 | 0.18 | 0.21     | 0.24             | 0.12       | 0.00 |
| County Durham and Darlington NHS Foundation Trust          | 67               | 1.22 | 0.94   | 1.09            | 0.55   | 1.23 | 0.38 | 0.53     | 0.32             | 0.35       |      |
| United Lincolnshire Hospitals NHS Trust                    | 68               | 1.58 | 0.94   | 0.59            | 0.84   | 0.66 |      |          |                  |            |      |
| SpaMedica – Newton-le-Willows                              | 69               | 0.34 | 0.35   | 0.13            | 0.21   |      | 0.12 | 0.28     | 0.13             | 0.00       |      |
| Northampton General Hospital NHS Trust                     | 70               | 0.22 | 0.77   | 0.77            | 1.03   | 1.08 |      |          |                  |            |      |
| SpaMedica – Liverpool                                      | 71               | 0.26 | 0.34   | 0.43            | 0.37   | 0.14 | 0.00 | 0.12     | 0.10             | 0.00       | 0.00 |
| James Paget University Hospitals NHS Foundation Trust      | 72               | 1.68 | 0.93   | 0.90            | 0.59   | 0.51 |      | 0.25     | 0.19             | 0.09       |      |
| Bolton NHS Foundation Trust                                | 73               | 0.25 | 0.65   | 0.84            | 0.73   | 0.85 |      | 1.04     | 1.25             | 0.38       | 0.66 |
| Kingston Hospital NHS Foundation Trust                     | 74               | 0.31 | 0.82   | 1.35            | 1.21   | 0.93 |      |          |                  |            |      |

|  |                  |      | Poster | rior Capsule Rup | oture % |      |      | Postoper | ative Visual Acu | ity Loss % |      |
|--|------------------|------|--------|------------------|---------|------|------|----------|------------------|------------|------|
| Centre name  | Centre<br>number | 2016 | 2017   | 2018             | 2019    | 2020 | 2016 | 2017     | 2018             | 2019       | 2020 |
| Northern Lincolnshire and Goole NHS Foundation Trust       | 75               | 1.30 | 1.30   | 0.98             |         |      | 2.93 | 2.06     | 1.75             |            |      |
| The Rotherham NHS Foundation Trust                         | 76               | 0.19 | 0.10   | 0.56             |         |      |      |          |                  |            |      |
| Torbay and South Devon NHS Foundation Trust                | 77               | *    | 0.92   | 1.06             | 0.68    | 0.70 | *    |          |                  |            |      |
| Great Western Hospitals NHS Foundation Trust               | 78               | 0.00 | 0.75   | 0.72             | 0.83    | 0.68 | 0.49 | 0.45     | 0.52             | 0.25       | 0.51 |
| SpaMedica – Bolton   | 79               |      | 0.48   | 0.29             | 0.39    | 0.27 |      | 0.47     | 0.16             | 0.21       | 0.31 |
| The Princess Alexandra Hospital NHS Trust                  | 80               | 0.00 | 1.64   | 0.57             |         |      |      | 0.59     | 1.45             |            |      |
| Wye Valley NHS Trust                                       | 81               | 0.00 | 0.91   |                  |         |      |      |          |                  |            |      |
| Cwm Taf Morgannwg University Local Health Board            | 82               | *    | 0.76   | 0.69             | 0.71    | 1.87 | *    |          | 1.31             | 0.66       |      |
| Sherwood Forest Hospitals NHS Foundation Trust             | 83               | 0.00 | 0.19   | 0.55             | 0.46    | 0.52 |      |          |                  |            |      |
| Royal Surrey County Hospital NHS Foundation Trust          | 84               | 0.00 | 0.00   | 0.00             | 0.00    | *    | 2.78 | 0.00     | 2.43             | 0.00       | *    |
| East Lancashire Hospitals NHS Trust                        | 85               |      | 0.00   |                  |         |      |      |          |                  |            |      |
| Southport and Ormskirk Hospital NHS Trust                  | 86               |      | 0.40   | 0.38             | 0.28    | 0.29 |      |          | 1.19             | 1.69       | 1.81 |
| Stockport NHS Foundation Trust                             | 87               |      | 1.34   | *                |         |      |      |          | *                |            |      |
| Practice Plus Group Hospital, Shepton Mallet               | 88               | 0.16 | 0.23   | 0.27             | 1.08    | 0.51 | 0.07 | 0.19     | 0.21             | 0.57       |      |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 0.91 | 0.75   | 0.76             | 0.53    | 0.56 |      | 0.28     | 0.18             | 0.31       |      |
| Practice Plus Group Hospital, Emersons Green               | 90               | 0.30 | 0.36   | 0.27             | 0.35    | 0.14 |      |          | 0.44             |            |      |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 0.66 | 0.81   | 0.61             | 0.53    | 0.47 | 0.62 | 0.47     | 0.63             |            |      |
| SpaMedica – Sheffield                                      | 92               |      | 0.94   | 0.70             | 0.44    | 0.36 |      | 0.51     | 0.31             | 0.51       | 0.13 |
| Practice Plus Group Hospital, Plymouth                     | 93               | 0.22 | 0.13   | 0.45             | 0.18    | 0.52 | 0.14 | 0.11     | 1.54             |            |      |
| North Cumbria Integrated Care NHS Foundation Trust         | 94               |      | 0.42   | 1.00             | 1.83    |      |      |          |                  |            |      |
| Practice Plus Group Ophthalmology, Rochdale                | 95               | 0.98 | 0.91   | 0.24             | 1.09    | 0.55 | 0.51 | 1.25     | 1.12             | 0.90       | 0.65 |
| Practice Plus Group Hospital, Ilford                       | 97               | 0.30 | 0.28   | 0.32             | 0.41    | 0.86 | 0.00 | 1.39     | 0.00             | 0.24       |      |
| North Middlesex University Hospital NHS Trust              | 98               |      | 0.36   | 1.02             | 0.91    | 1.22 |      |          | 0.49             | 0.19       |      |
| University Hospitals Sussex NHS Foundation Trust           | 99               |      | *      | 0.43             | 0.70    | 1.08 |      | *        |                  |            |      |

|   |                  |      | Poster | ior Capsule Rup | oture % |      |      | Postoper | ative Visual Acu | iity Loss % |      |
|---|------------------|------|--------|-----------------|---------|------|------|----------|------------------|-------------|------|
| Centre name                                     | Centre<br>number | 2016 | 2017   | 2018            | 2019    | 2020 | 2016 | 2017     | 2018             | 2019        | 2020 |
| Practice Plus Group Surgical Centre, Devizes    | 100              | 0.00 | 0.00   | 0.39            | 0.00    | 0.00 | 0.32 | 0.80     | 0.36             | 0.38        | 0.00 |
| Surrey and Sussex Healthcare NHS Trust          | 101              |      | 1.68   | 1.63            | 2.95    | 1.83 |      |          |                  |             |      |
| Aneurin Bevan University Local Health Board     | 102              |      | 0.00   | 0.23            | 1.16    | 0.63 |      |          |                  | 0.95        | 1.50 |
| Practice Plus Group Hospital, Southampton       | 103              | 0.00 | 0.62   | 1.35            | 0.52    | 0.48 | 0.00 | 0.00     |                  |             |      |
| SpaMedica – Birmingham                          | 104              |      |        | 0.33            | 0.36    | 0.32 |      |          | 0.15             | 0.14        | 0.16 |
| St. Stephens Gate Medical Practice              | 105              |      | 0.00   | 0.36            | 0.45    | 0.65 |      | 0.00     |                  |             |      |
| The Dudley Group NHS Foundation Trust           | 106              |      | *      | 0.95            | 0.96    | 2.45 |      | *        |                  |             |      |
| Swansea Bay University Local Health Board       | 107              |      | 0.00   | 1.92            |         |      |      |          |                  |             |      |
| East Cheshire NHS Trust                         | 108              |      | *      | 0.83            | 0.50    | 0.46 |      | *        |                  |             |      |
| Guy's and St Thomas' NHS Foundation Trust       | 110              |      |        | 0.57            | 0.58    | 0.53 |      |          |                  | 0.65        | 0.31 |
| Buckinghamshire Healthcare NHS Trust            | 111              |      |        | 0.85            | 0.94    | 0.51 |      |          |                  |             |      |
| SpaMedica – Bradford                            | 112              |      |        | 0.58            | 0.45    | 0.65 |      |          | 0.71             | 0.34        | 0.43 |
| SpaMedica – West Lancashire                     | 113              |      |        | 0.00            | 0.39    | 0.24 |      |          | 0.37             | 0.36        | 0.24 |
| Somerset NHS Foundation Trust                   | 114              |      |        |                 | 0.64    | 0.62 |      |          |                  |             |      |
| Medical specialists group Guernsey              | 115              | 1.08 | 0.96   | 0.31            | 1.15    | 1.40 | 0.66 | 0.41     | 0.21             | 0.17        |      |
| Hywel Dda University Local Health Board         | 116              |      | *      | 0.90            | 1.27    | 0.00 |      | *        |                  |             |      |
| George Eliot Hospital NHS Trust                 | 117              |      |        | 1.04            | 0.77    | 0.96 |      |          |                  | 0.16        |      |
| SpaMedica – Newcastle Under Lyme                | 118              |      |        |                 | 0.51    | 0.36 |      |          |                  | 0.47        | 0.10 |
| SpaMedica – Widnes                              | 119              |      |        |                 | 0.39    | 0.68 |      |          |                  | 0.23        | 0.14 |
| Kettering General Hospital NHS Foundation Trust | 120              | *    | *      | 0.00            | 0.55    | 0.55 | *    | *        |                  |             |      |
| SpaMedica – Chelmsford                          | 121              |      |        |                 | 0.81    | 0.54 |      |          |                  | 0.00        | 0.28 |
| Community Health and Eyecare Ltd (Face and Eye) | 123              |      |        |                 | 0.00    | *    |      |          |                  |             | *    |
| Newmedica Community Ophthalmology (Teesside)    | 124              |      |        |                 | 0.08    | 0.46 |      |          |                  |             |      |
| SpaMedica – Preston                             | 125              |      |        |                 |         | 0.31 |      |          |                  |             | 0.13 |

|  |                  |      | Poster | rior Capsule Rup | oture % |      |      | Postoper | ative Visual Acu | iity Loss % |      |
|--|------------------|------|--------|------------------|---------|------|------|----------|------------------|-------------|------|
| Centre name  | Centre<br>number | 2016 | 2017   | 2018             | 2019    | 2020 | 2016 | 2017     | 2018             | 2019        | 2020 |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              |      |        |                  | 0.14    | 0.37 |      |          |                  |             |      |
| SpaMedica – Wolverhampton                              | 127              |      |        |                  | 0.00    | 0.17 |      |          |                  | 0.00        | 0.18 |
| Community Health and Eyecare Ltd (Blackpool)           | 128              |      |        |                  |         | 0.40 |      |          |                  |             |      |
| Community Health and Eyecare Ltd (Watford)             | 129              |      |        |                  | 0.54    | 0.51 |      |          |                  |             |      |
| SpaMedica – Hull                                       | 130              |      |        |                  | 0.86    | 0.43 |      |          |                  | 0.69        | 0.54 |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 0.83 | 0.84   | 0.68             | 0.56    | 0.35 | 0.32 | 0.61     | 0.37             | 0.75        | 0.10 |
| Newmedica Community Ophthalmology (Grimsby)            | 132              |      |        |                  | 0.49    | 0.00 |      |          |                  |             |      |
| Newmedica Community Ophthalmology (Bristol)            | 133              |      |        |                  | 0.32    | 0.42 |      |          |                  |             |      |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | 0.44 | 0.62   | 0.41             | 0.23    | 0.42 | 0.10 | 0.69     | 0.17             | 0.18        |      |
| Worcestershire Acute Hospitals NHS Trust               | 135              |      |        |                  |         | 0.32 |      |          |                  |             |      |
| Community Health and Eyecare Ltd (Stoke)               | 136              |      |        |                  | 0.27    | 0.63 |      |          |                  |             |      |
| SpaMedica – Bedford                                    | 137              |      |        |                  | 0.00    | 0.51 |      |          |                  | 0.00        | 0.36 |
| Newmedica Community Ophthalmology (Leeds)              | 138              |      |        |                  | 0.32    | 0.25 |      |          |                  |             |      |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 0.46 | 0.41   | 0.85             | 0.52    | 0.26 |      |          |                  |             | 0.58 |
| SpaMedica – Coventry                                   | 140              |      |        |                  |         | 0.40 |      |          |                  |             | 0.29 |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 0.30 | 0.55   | 0.63             | 0.51    | 0.68 | 0.00 | 0.11     | 0.00             | 0.19        | 0.35 |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | 1.54 | 0.79   | 0.49             | 0.57    | 0.28 | 0.43 | 0.15     | 0.00             | 0.00        |      |
| Optegra Eye Health Care (Birmingham Eye Hospital)      | 143              | 0.43 | 0.47   | 0.62             | 0.86    | 0.52 | 0.25 | 0.16     |                  |             |      |
| Newmedica Community Ophthalmology (Ipswich)            | 144              |      |        |                  |         | 0.11 |      |          |                  |             |      |
| Newmedica Community Ophthalmology (Barlborough)        | 145              |      |        |                  | 0.31    | 0.31 |      |          |                  |             |      |
| Newmedica Community Ophthalmology (Exeter)             | 146              |      |        |                  |         | 0.27 |      |          |                  |             |      |
| SpaMedica – Derby                                      | 147              |      |        |                  |         | 0.13 |      |          |                  |             | 0.00 |
| Exeter Eye   | 148              |      | *      | 0.00             | 0.13    | 0.72 |      | *        |                  | 0.00        | 0.00 |
| SpaMedica – Bromley                                    | 149              |      |        |                  |         | 0.88 |      |          |                  |             | 1.15 |

|   |                  |      | Poster | rior Capsule Rup | oture % |      |      | Postoper | ative Visual Acu | ity Loss % |      |
|---|------------------|------|--------|------------------|---------|------|------|----------|------------------|------------|------|
| Centre name   | Centre<br>number | 2016 | 2017   | 2018             | 2019    | 2020 | 2016 | 2017     | 2018             | 2019       | 2020 |
| SpaMedica – Wokingham                                 | 150              |      |        |                  |         | 0.94 |      |          |                  |            | 0.96 |
| SpaMedica – Stockton-on-Tees                          | 151              |      |        |                  |         | 0.36 |      |          |                  |            | 1.47 |
| Tetbury Hospital                                      | 152              |      |        |                  |         | 0.70 |      |          |                  |            |      |
| Newmedica Community Ophthalmology (Brigg)             | 153              |      |        |                  |         | 0.42 |      |          |                  |            |      |
| West Suffolk NHS Foundation Trust                     | 154              |      |        | *                | 0.29    | 0.78 |      |          | *                | 0.81       |      |
| Northern Care Alliance NHS Foundation Trust           | 155              |      |        |                  |         | 0.93 |      |          |                  |            |      |
| Newmedica Community Ophthalmology (Frome)             | 156              |      |        |                  |         | 0.77 |      |          |                  |            |      |
| Community Health and Eyecare Ltd (Preston)            | 157              |      |        |                  |         | 1.83 |      |          |                  |            |      |
| The Stoneygate Eye Hospital                           | 158              |      |        |                  | 0.00    | 0.00 |      |          |                  |            | 3.46 |
| Newmedica Community Ophthalmology (Wakefield)         | 159              |      |        |                  |         | 0.00 |      |          |                  |            |      |
| Optegra Eye Health Care (Central London Eye Hospital) | 160              | 0.78 | 0.00   | 1.58             | 2.32    | *    |      |          |                  |            | *    |
| Overall for all centres                               | N/A              | 0.86 | 0.82   | 0.75             | 0.71    | 0.67 | 0.54 | 0.51     | 0.52             | 0.47       | 0.36 |

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\*These centres supplied data for <50 eligible operations in the relevant audit year.

|  |                  |                                     |               | Preoperative VA |               |               |                                     | I             | Postoperative VA | Ą             |               |
|--|------------------|-------------------------------------|---------------|-----------------|---------------|---------------|-------------------------------------|---------------|------------------|---------------|---------------|
| Centre name  | Centre<br>number | Number<br>of eligible<br>operations | 6 months<br>% | 5 months<br>%   | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>% | 4 months<br>%    | 5 months<br>% | 6 months<br>% |
| Moorfields Eye Hospital NHS Foundation Trust                     | 1                | 7,760                               | 70.3          | 67.6            | 65.0          | 60.2          | 6,337                               | 66.6          | 69.2             | 71.0          | 71.8          |
| The Newcastle upon Tyne Hospitals NHS Foundation Trust           | 2                | 3,428                               | 36.8          | 33.7            | 29.9          | 26.1          | 3,142                               | 41.8          | 43.0             | 43.6          | 44.0          |
| Norfolk and Norwich University Hospitals NHS Foundation<br>Trust | 3                | 942                                 | 77.2          | 73.1            | 70.3          | 68.2          | 891                                 | 15.5          | 16.5             | 16.9          | 17.2          |
| Leeds Teaching Hospitals NHS Trust                               | 4                | 688                                 | 83.1          | 76.0            | 71.9          | 70.3          | 610                                 | 76.7          | 77.4             | 78.4          | 78.9          |
| York and Scarborough Teaching Hospitals NHS Foundation<br>Trust  | 5                | 2,720                               | 36.3          | 35.1            | 33.8          | 31.2          | 2,091                               | 26.4          | 30.0             | 31.9          | 32.9          |
| Oxford University Hospitals NHS Foundation Trust                 | 6                | 2,065                               | 62.8          | 57.5            | 53.2          | 48.6          | 1,834                               | 35.6          | 37.4             | 38.2          | 39.3          |
| University Hospitals Bristol and Weston NHS Foundation Trust     | 7                | 1,084                               | 62.4          | 57.5            | 53.3          | 50.3          | 996                                 | 56.5          | 59.7             | 62.1          | 64.2          |
| Gloucestershire Hospitals NHS Foundation Trust                   | 8                | 1,214                               | 59.1          | 55.0            | 51.0          | 46.3          | 1,003                               | 71.1          | 73.4             | 74.6          | 75.9          |
| Sandwell and West Birmingham Hospitals NHS Trust                 | 10               | 966                                 | 80.2          | 72.3            | 67.9          | 61.4          | 938                                 | 87.0          | 88.4             | 88.9          | 89.7          |
| University Hospital Southampton NHS Foundation Trust             | 11               | 1,458                               | 84.9          | 81.0            | 75.0          | 66.0          | 1,207                               | 87.9          | 90.1             | 91.1          | 91.6          |
| Mid Cheshire Hospitals NHS Foundation Trust                      | 14               | 984                                 | 85.4          | 83.1            | 81.3          | 79.7          | 940                                 | 68.9          | 71.1             | 71.6          | 71.7          |
| The Mid Yorkshire Hospitals NHS Trust                            | 15               | 942                                 | 77.2          | 72.4            | 70.5          | 67.7          | 773                                 | 74.9          | 76.3             | 77.5          | 78.7          |
| Cardiff & Vale University Local Health Board                     | 16               | 803                                 | 84.1          | 83.7            | 83.4          | 82.7          | 605                                 | 38.5          | 41.2             | 42.6          | 43.5          |
| Epsom and St Helier University Hospitals NHS Trust               | 17               | 1,635                               | 79.9          | 70.4            | 63.7          | 59.6          | 1,551                               | 57.5          | 59.8             | 61.1          | 61.8          |
| Barts Health NHS Trust   | 18               | 1,134                               | 61.9          | 56.3            | 52.6          | 48.9          | 1,106                               | 62.0          | 64.8             | 67.0          | 68.4          |
| Frimley Health NHS Foundation Trust                              | 19               | 1,702                               | 91.4          | 90.3            | 88.1          | 86.1          | 1,595                               | 49.6          | 54.0             | 56.8          | 57.7          |
| Bradford Teaching Hospitals NHS Foundation Trust                 | 20               | 418                                 | 49.8          | 43.5            | 41.6          | 39.5          | 402                                 | 44.3          | 47.3             | 49.3          | 51.2          |
| University Hospitals Plymouth NHS Trust                          | 22               | 1,569                               | 68.4          | 62.7            | 57.1          | 51.9          | 1,282                               | 60.4          | 65.1             | 68.6          | 71.6          |
| University Hospitals Birmingham NHS Foundation Trust             | 23               | 1,378                               | 71.9          | 67.2            | 63.3          | 58.1          | 1,113                               | 82.1          | 82.9             | 83.3          | 83.6          |
| Hampshire Hospitals NHS Foundation Trust                         | 24               | 1,830                               | 72.2          | 69.5            | 67.7          | 65.4          | 1,401                               | 42.9          | 43.3             | 43.6          | 44.0          |
| Royal Cornwall Hospitals NHS Trust                               | 25               | 2,478                               | 80.8          | 77.2            | 73.9          | 68.8          | 1,892                               | 53.5          | 56.2             | 57.2          | 57.6          |

|   |                  | Preoperative VA Centre Number 6 months 5 months 4 months 3 months Number 3 mon |               |               |               |               | I                                   | Postoperative VA | Ą             |               |               |
|---|------------------|--|---------------|---------------|---------------|---------------|-------------------------------------|------------------|---------------|---------------|---------------|
| Centre name   | Centre<br>number | Number<br>of eligible<br>operations  | 6 months<br>% | 5 months<br>% | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>%    | 4 months<br>% | 5 months<br>% | 6 months<br>% |
| Manchester University NHS Foundation Trust                        | 26               | 650  | 84.3          | 82.2          | 80.5          | 80.3          | 650                                 | 26.9             | 28.3          | 28.6          | 28.9          |
| King's College Hospital NHS Foundation Trust                      | 27               | 2,403  | 89.2          | 83.9          | 78.5          | 73.4          | 2,129                               | 84.5             | 86.0          | 86.5          | 86.8          |
| The Shrewsbury and Telford Hospital NHS Trust                     | 28               | 728  | 67.0          | 63.9          | 62.6          | 60.9          | 537                                 | 58.1             | 58.1          | 59.4          | 60.1          |
| The Hillingdon Hospitals NHS Foundation Trust                     | 30               | 640  | 76.3          | 70.3          | 64.2          | 62.3          | 533                                 | 31.9             | 35.5          | 38.8          | 40.9          |
| Liverpool University Hospitals NHS Foundation Trust               | 31               | 1,072  | 39.2          | 35.7          | 33.6          | 29.8          | 992                                 | 75.5             | 77.6          | 79.4          | 79.8          |
| Royal United Hospitals Bath NHS Foundation Trust                  | 32               | 979  | 72.1          | 67.4          | 60.7          | 54.6          | 814                                 | 43.2             | 44.0          | 44.6          | 45.7          |
| Chesterfield Royal Hospital NHS Foundation Trust                  | 33               | 509  | 59.7          | 52.5          | 50.5          | 48.5          | 397                                 | 96.7             | 96.7          | 96.7          | 96.7          |
| Mid and South Essex NHS Foundation Trust                          | 34               | 1,378  | 36.4          | 33.2          | 31.5          | 29.7          | 1,199                               | 6.1              | 6.5           | 6.7           | 7.0           |
| Harrogate and District NHS Foundation Trust                       | 35               | 291  | 79.7          | 79.7          | 79.7          | 79.7          | 277                                 | 14.4             | 15.5          | 17.0          | 17.0          |
| North West Anglia NHS Foundation Trust                            | 36               | 625  | 82.9          | 79.4          | 76.8          | 76.0          | 524                                 | 67.0             | 68.3          | 69.5          | 69.7          |
| Northern Devon Healthcare NHS Trust                               | 37               | 942  | 96.6          | 95.6          | 94.1          | 92.8          | 711                                 | 76.1             | 79.3          | 79.9          | 80.5          |
| Wirral University Teaching Hospital NHS Foundation Trust          | 39               | 462  | 74.0          | 69.9          | 67.5          | 64.5          | 426                                 | 82.6             | 84.7          | 85.2          | 86.4          |
| South Warwickshire NHS Foundation Trust                           | 40               | 1,004  | 85.3          | 79.3          | 76.2          | 73.8          | 834                                 | 56.0             | 66.1          | 69.2          | 70.6          |
| Isle of Wight NHS Trust   | 41               | 1,020  | 68.0          | 63.0          | 58.7          | 52.4          | 865                                 | 84.9             | 85.3          | 85.4          | 85.8          |
| St Helens and Knowsley Teaching Hospitals NHS Trust               | 42               | 745  | 79.6          | 77.3          | 75.6          | 73.6          | 674                                 | 50.3             | 51.5          | 52.4          | 53.7          |
| Wrightington, Wigan and Leigh NHS Foundation Trust                | 43               | 357  | 78.7          | 72.8          | 72.5          | 71.7          | 326                                 | 85.6             | 89.6          | 90.2          | 90.5          |
| Warrington and Halton Teaching Hospitals NHS Foundation<br>Trust  | 44               | 458  | 37.3          | 32.8          | 26.9          | 24.2          | 305                                 | 96.1             | 96.1          | 96.1          | 96.4          |
| South Tees Hospitals NHS Foundation Trust                         | 45               | 1,249  | 30.3          | 27.5          | 24.3          | 20.7          | 1,116                               | 29.3             | 32.8          | 35.6          | 37.7          |
| University Hospitals Dorset NHS Foundation Trust                  | 46               | 2,885  | 82.0          | 78.1          | 72.7          | 67.3          | 2,415                               | 57.8             | 59.5          | 60.0          | 60.5          |
| Barking, Havering and Redbridge University Hospitals NHS<br>Trust | 47               | 717  | 92.9          | 90.9          | 88.7          | 87.6          | 559                                 | 39.0             | 43.1          | 46.2          | 47.0          |
| Royal Free London NHS Foundation Trust                            | 48               | 1,591  | 42.3          | 38.3          | 34.8          | 32.9          | 1,411                               | 46.6             | 50.5          | 53.2          | 55.9          |
| University Hospitals Coventry and Warwickshire NHS Trust          | 49               | 990  | 59.5          | 56.5          | 52.7          | 48.8          | 916                                 | 84.4             | 87.9          | 89.0          | 89.2          |
| Salisbury NHS Foundation Trust                                    | 51               | 455  | 37.6          | 35.2          | 33.6          | 32.1          | 411                                 | 75.9             | 76.6          | 76.6          | 76.6          |
| Nottingham University Hospitals NHS Trust                         | 55               | 1,134  | 48.9          | 39.9          | 31.7          | 24.1          | 970                                 | 87.7             | 88.8          | 89.1          | 89.4          |

|   |                  | Preoperative VA                     |               |               |               |               | Postoperative VA                    |               |               |               |               |  |
|---|------------------|-------------------------------------|---------------|---------------|---------------|---------------|-------------------------------------|---------------|---------------|---------------|---------------|--|
| Centre name   | Centre<br>number | Number<br>of eligible<br>operations | 6 months<br>% | 5 months<br>% | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>% | 4 months<br>% | 5 months<br>% | 6 months<br>% |  |
| Yeovil District Hospital NHS Foundation Trust         | 56               | 971                                 | 98.7          | 98.4          | 97.8          | 97.3          | 757                                 | 88.6          | 90.1          | 91.4          | 91.8          |  |
| SpaMedica – Manchester                                | 57               | 3,591                               | 95.7          | 92.3          | 88.8          | 84.3          | 2,618                               | 75.0          | 78.0          | 79.5          | 80.3          |  |
| SpaMedica – Wakefield                                 | 58               | 3,310                               | 98.0          | 96.1          | 93.2          | 89.4          | 2,490                               | 75.4          | 77.8          | 79.0          | 79.6          |  |
| East Sussex Healthcare NHS Trust                      | 59               | 2,172                               | 71.8          | 69.0          | 65.5          | 61.0          | 1,781                               | 63.8          | 67.5          | 71.0          | 73.8          |  |
| Imperial College Healthcare NHS Trust                 | 60               | 1,274                               | 78.0          | 71.8          | 66.3          | 62.9          | 1,173                               | 74.7          | 75.4          | 76.4          | 77.1          |  |
| Portsmouth Hospitals University NHS Trust             | 61               | 911                                 | 93.2          | 92.4          | 91.9          | 90.0          | 573                                 | 90.8          | 91.1          | 91.3          | 91.3          |  |
| Cambridge University Hospitals NHS Foundation Trust   | 63               | 985                                 | 70.4          | 67.7          | 64.8          | 58.9          | 701                                 | 65.8          | 70.3          | 73.2          | 75.9          |  |
| East Kent Hospitals University NHS Foundation Trust   | 64               | 167                                 | 38.3          | 34.7          | 30.5          | 26.9          | 163                                 | 41.7          | 44.2          | 46.0          | 50.3          |  |
| East Suffolk and North Essex NHS Foundation Trust     | 65               | 2,993                               | 72.8          | 69.7          | 64.8          | 57.9          | 2,526                               | 47.9          | 54.0          | 61.1          | 62.4          |  |
| SpaMedica – Birkenhead                                | 66               | 2,057                               | 96.0          | 93.3          | 90.5          | 86.3          | 1,514                               | 84.3          | 86.2          | 87.6          | 87.8          |  |
| County Durham and Darlington NHS Foundation Trust     | 67               | 925                                 | 42.8          | 37.0          | 32.4          | 28.4          | 784                                 | 44.3          | 46.8          | 47.7          | 48.6          |  |
| United Lincolnshire Hospitals NHS Trust               | 68               | 337                                 | 51.9          | 51.3          | 49.3          | 46.0          | 337                                 | 29.1          | 32.9          | 35.0          | 36.2          |  |
| Northampton General Hospital NHS Trust                | 70               | 420                                 | 27.6          | 21.0          | 17.9          | 16.0          | 272                                 | 7.7           | 8.1           | 8.1           | 8.1           |  |
| SpaMedica – Liverpool                                 | 71               | 1,292                               | 96.4          | 93.0          | 90.3          | 88.8          | 707                                 | 81.9          | 83.9          | 84.7          | 85.9          |  |
| James Paget University Hospitals NHS Foundation Trust | 72               | 1,333                               | 68.8          | 61.4          | 57.5          | 53.0          | 1,061                               | 78.1          | 78.9          | 79.0          | 79.5          |  |
| Bolton NHS Foundation Trust                           | 73               | 904                                 | 95.8          | 92.9          | 87.7          | 81.2          | 620                                 | 81.5          | 83.5          | 85.5          | 86.1          |  |
| Kingston Hospital NHS Foundation Trust                | 74               | 1,215                               | 5.4           | 5.4           | 5.3           | 4.8           | 889                                 | 0.1           | 0.1           | 0.1           | 0.1           |  |
| Torbay and South Devon NHS Foundation Trust           | 77               | 1,048                               | 71.2          | 69.8          | 67.7          | 64.5          | 711                                 | 30.4          | 35.9          | 47.5          | 48.9          |  |
| Great Western Hospitals NHS Foundation Trust          | 78               | 738                                 | 92.3          | 86.2          | 82.5          | 76.8          | 638                                 | 83.4          | 85.3          | 87.0          | 87.6          |  |
| SpaMedica – Bolton                                    | 79               | 2,997                               | 97.2          | 95.2          | 91.9          | 87.4          | 2,210                               | 84.7          | 87.0          | 88.0          | 88.4          |  |
| Cwm Taf Morgannwg University Local Health Board       | 82               | 137                                 | 51.1          | 49.6          | 46.7          | 41.6          | 109                                 | 51.4          | 51.4          | 52.3          | 52.3          |  |
| Sherwood Forest Hospitals NHS Foundation Trust        | 83               | 672                                 | 61.0          | 56.8          | 51.5          | 50.0          | 584                                 | 46.1          | 46.9          | 48.3          | 48.3          |  |
| Southport and Ormskirk Hospital NHS Trust             | 86               | 257                                 | 97.7          | 96.5          | 95.7          | 94.9          | 222                                 | 68.0          | 69.4          | 70.3          | 71.2          |  |
| Practice Plus Group Hospital, Shepton Mallet          | 88               | 923                                 | 65.0          | 64.5          | 64.0          | 62.9          | 661                                 | 96.1          | 96.1          | 96.1          | 96.2          |  |

|  |                  | Preoperative VA                     |               |               |               |               | Postoperative VA                    |               |               |               |               |  |
|--|------------------|-------------------------------------|---------------|---------------|---------------|---------------|-------------------------------------|---------------|---------------|---------------|---------------|--|
| Centre name  | Centre<br>number | Number<br>of eligible<br>operations | 6 months<br>% | 5 months<br>% | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>% | 4 months<br>% | 5 months<br>% | 6 months<br>% |  |
| Practice Plus Group Surgical Centre, St. Mary's Portsmouth | 89               | 1,397                               | 63.5          | 61.1          | 59.0          | 57.1          | 1,189                               | 27.7          | 28.7          | 29.5          | 29.9          |  |
| Practice Plus Group Hospital, Emersons Green               | 90               | 893                                 | 82.3          | 80.3          | 79.2          | 76.1          | 634                                 | 70.5          | 70.7          | 70.8          | 70.8          |  |
| Practice Plus Group Surgical Centre, Gillingham            | 91               | 1,053                               | 70.5          | 69.3          | 68.5          | 64.6          | 648                                 | 64.0          | 65.3          | 65.3          | 65.3          |  |
| SpaMedica – Sheffield                                      | 92               | 3,128                               | 94.8          | 91.8          | 88.0          | 85.1          | 2,247                               | 66.9          | 70.1          | 71.7          | 72.5          |  |
| Practice Plus Group Hospital, Plymouth                     | 93               | 560                                 | 35.5          | 33.4          | 29.3          | 24.3          | 351                                 | 15.4          | 16.8          | 16.8          | 16.8          |  |
| Practice Plus Group Ophthalmology, Rochdale                | 95               | 971                                 | 97.8          | 97.4          | 96.2          | 94.4          | 642                                 | 79.4          | 82.4          | 85.2          | 86.3          |  |
| Practice Plus Group Hospital, Ilford                       | 97               | 466                                 | 65.7          | 62.7          | 61.2          | 59.0          | 392                                 | 16.3          | 19.9          | 21.2          | 21.7          |  |
| North Middlesex University Hospital NHS Trust              | 98               | 418                                 | 53.1          | 49.8          | 43.5          | 35.9          | 386                                 | 89.6          | 90.9          | 92.5          | 92.7          |  |
| University Hospitals Sussex NHS Foundation Trust           | 99               | 1,345                               | 61.7          | 60.0          | 57.1          | 52.1          | 1,124                               | 2.3           | 2.8           | 3.2           | 3.4           |  |
| Practice Plus Group Surgical Centre, Devizes               | 100              | 272                                 | 88.2          | 88.2          | 87.9          | 83.8          | 151                                 | 97.4          | 97.4          | 97.4          | 97.4          |  |
| Surrey and Sussex Healthcare NHS Trust                     | 101              | 692                                 | 94.5          | 94.5          | 93.6          | 92.2          | 343                                 | 39.4          | 42.3          | 44.3          | 45.5          |  |
| Aneurin Bevan University Local Health Board                | 102              | 146                                 | 97.9          | 97.9          | 97.3          | 93.8          | 126                                 | 96.0          | 96.8          | 96.8          | 96.8          |  |
| Practice Plus Group Hospital, Southampton                  | 103              | 220                                 | 26.4          | 25.0          | 23.2          | 21.4          | 202                                 | 32.7          | 35.1          | 35.1          | 35.1          |  |
| SpaMedica – Birmingham                                     | 104              | 3,599                               | 96.7          | 95.4          | 92.6          | 88.5          | 2,565                               | 77.2          | 81.1          | 83.1          | 83.9          |  |
| St. Stephens Gate Medical Practice                         | 105              | 129                                 | 92.2          | 86.0          | 85.3          | 85.3          | 93                                  | 36.6          | 36.6          | 36.6          | 36.6          |  |
| The Dudley Group NHS Foundation Trust                      | 106              | 288                                 | 43.1          | 41.7          | 40.6          | 39.9          | 211                                 | 66.8          | 72.0          | 73.9          | 74.9          |  |
| East Cheshire NHS Trust                                    | 108              | 683                                 | 69.0          | 59.9          | 53.7          | 48.9          | 576                                 | 51.7          | 52.8          | 54.9          | 55.4          |  |
| Guy's and St Thomas' NHS Foundation Trust                  | 110              | 747                                 | 89.0          | 84.3          | 79.9          | 76.7          | 735                                 | 93.7          | 93.9          | 94.1          | 94.3          |  |
| Buckinghamshire Healthcare NHS Trust                       | 111              | 3,173                               | 31.8          | 29.3          | 26.9          | 24.7          | 2,477                               | 6.7           | 7.4           | 8.0           | 8.6           |  |
| SpaMedica – Bradford                                       | 112              | 1,251                               | 96.6          | 95.8          | 92.6          | 88.6          | 852                                 | 72.5          | 73.0          | 74.2          | 74.5          |  |
| SpaMedica – West Lancashire                                | 113              | 843                                 | 92.6          | 90.5          | 88.3          | 85.2          | 560                                 | 84.8          | 88.6          | 89.5          | 90.0          |  |
| Somerset NHS Foundation Trust                              | 114              | 1,101                               | 41.6          | 38.1          | 35.2          | 31.4          | 1,013                               | 62.8          | 68.8          | 72.1          | 73.2          |  |
| Medical specialists group Guernsey                         | 115              | 342                                 | 80.1          | 75.7          | 72.2          | 67.8          | 310                                 | 66.1          | 67.7          | 68.7          | 69.7          |  |
| Hywel Dda University Local Health Board                    | 116              | 56                                  | 23.2          | 23.2          | 23.2          | 23.2          | 38                                  | *             | *             | *             | *             |  |

|  |                  | Preoperative VA                     |               |               |               |               | Postoperative VA                    |               |               |               |               |  |
|--|------------------|-------------------------------------|---------------|---------------|---------------|---------------|-------------------------------------|---------------|---------------|---------------|---------------|--|
| Centre name  | Centre<br>number | Number<br>of eligible<br>operations | 6 months<br>% | 5 months<br>% | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>% | 4 months<br>% | 5 months<br>% | 6 months<br>% |  |
| George Eliot Hospital NHS Trust                        | 117              | 548                                 | 29.7          | 29.2          | 27.7          | 27.6          | 498                                 | 95.6          | 95.6          | 95.8          | 95.8          |  |
| SpaMedica - Newcastle Under Lyme                       | 118              | 1,893                               | 96.2          | 94.0          | 90.6          | 87.0          | 1,415                               | 85.6          | 88.1          | 89.4          | 90.0          |  |
| SpaMedica - Widnes                                     | 119              | 1,499                               | 97.4          | 94.7          | 90.8          | 88.2          | 1,062                               | 79.7          | 81.1          | 81.7          | 82.1          |  |
| Kettering General Hospital NHS Foundation Trust        | 120              | 172                                 | 30.2          | 27.3          | 25.6          | 25.0          | 156                                 | 5.1           | 5.8           | 6.4           | 7.7           |  |
| SpaMedica - Chelmsford                                 | 121              | 3,468                               | 97.6          | 95.9          | 93.1          | 88.8          | 2,413                               | 73.5          | 76.5          | 78.0          | 78.9          |  |
| Newmedica Community Ophthalmology (Teesside)           | 124              | 4,767                               | 0.0           | 0.0           | 0.0           | 0.0           | 3,545                               | 0.0           | 0.0           | 0.0           | 0.0           |  |
| SpaMedica - Preston                                    | 125              | 2,760                               | 94.4          | 92.3          | 89.8          | 86.5          | 1,969                               | 82.5          | 84.9          | 86.1          | 86.7          |  |
| Newmedica Community Ophthalmology (Gloucester – Aspen) | 126              | 2,616                               | 20.4          | 19.6          | 18.2          | 9.2           | 1,994                               | 5.1           | 5.5           | 6.0           | 6.1           |  |
| SpaMedica - Wolverhampton                              | 127              | 2,594                               | 97.6          | 95.3          | 91.7          | 87.9          | 1,746                               | 83.2          | 85.9          | 87.2          | 87.8          |  |
| Community Health and Eyecare Ltd (Blackpool)           | 128              | 2,464                               | 97.6          | 96.8          | 95.5          | 92.5          | 1,821                               | 54.4          | 54.8          | 55.1          | 55.2          |  |
| Community Health and Eyecare Ltd (Watford)             | 129              | 2,344                               | 80.7          | 77.4          | 71.8          | 60.9          | 1,608                               | 40.3          | 40.6          | 40.7          | 40.8          |  |
| SpaMedica - Hull                                       | 130              | 2,234                               | 96.6          | 94.6          | 90.5          | 86.2          | 1,567                               | 84.2          | 86.0          | 86.9          | 87.5          |  |
| Optegra Eye Health Care (Manchester Eye Hospital)      | 131              | 2,027                               | 96.8          | 95.6          | 94.4          | 93.3          | 1,447                               | 67.9          | 69.2          | 69.8          | 70.1          |  |
| Newmedica Community Ophthalmology (Grimsby)            | 132              | 2,009                               | 6.6           | 6.6           | 6.6           | 6.4           | 1,545                               | 2.1           | 2.2           | 2.2           | 2.2           |  |
| Newmedica Community Ophthalmology (Bristol)            | 133              | 1,985                               | 26.8          | 26.3          | 24.9          | 19.7          | 1,492                               | 7.1           | 7.4           | 7.6           | 7.6           |  |
| Optegra Eye Health Care (Yorkshire Eye Hospital)       | 134              | 1,906                               | 90.1          | 89.2          | 88.6          | 85.8          | 1,188                               | 58.3          | 59.0          | 59.8          | 59.8          |  |
| Worcestershire Acute Hospitals NHS Trust               | 135              | 1,852                               | 51.7          | 50.2          | 42.8          | 34.6          | 1,605                               | 24.3          | 27.0          | 28.7          | 30.6          |  |
| Community Health and Eyecare Ltd (Stoke)               | 136              | 1,836                               | 90.3          | 87.1          | 84.2          | 79.6          | 1,412                               | 8.9           | 9.1           | 9.1           | 9.1           |  |
| SpaMedica - Bedford                                    | 137              | 1,805                               | 95.2          | 92.7          | 90.0          | 86.3          | 1,049                               | 76.5          | 78.9          | 80.7          | 82.1          |  |
| Newmedica Community Ophthalmology (Leeds)              | 138              | 1,767                               | 6.9           | 6.8           | 6.6           | 5.9           | 1,287                               | 0.6           | 0.6           | 0.6           | 0.6           |  |
| Optegra Eye Health Care (Surrey Eye Hospital)          | 139              | 1,765                               | 92.7          | 92.2          | 91.1          | 88.4          | 1,163                               | 67.7          | 70.0          | 70.7          | 71.8          |  |
| SpaMedica - Coventry                                   | 140              | 1,564                               | 98.8          | 98.6          | 98.1          | 94.9          | 886                                 | 82.8          | 85.0          | 86.2          | 86.8          |  |
| Optegra Eye Health Care (Hampshire Eye Hospital)       | 141              | 1,508                               | 98.9          | 98.5          | 96.9          | 93.4          | 893                                 | 77.0          | 77.6          | 78.2          | 78.4          |  |
| Optegra Eye Health Care (North London Eye Hospital)    | 142              | 1,418                               | 86.0          | 81.7          | 76.9          | 68.8          | 847                                 | 70.5          | 72.6          | 73.4          | 73.9          |  |

|   |                  | Preoperative VA                     |               |               |               |               | Postoperative VA                    |               |               |               |               |
|---|------------------|-------------------------------------|---------------|---------------|---------------|---------------|-------------------------------------|---------------|---------------|---------------|---------------|
| Centre name                                       | Centre<br>number | Number<br>of eligible<br>operations | 6 months<br>% | 5 months<br>% | 4 months<br>% | 3 months<br>% | Number<br>of eligible<br>operations | 3 months<br>% | 4 months<br>% | 5 months<br>% | 6 months<br>% |
| Optegra Eye Health Care (Birmingham Eye Hospital) | 143              | 1,155                               | 90.0          | 89.2          | 87.9          | 85.1          | 915                                 | 59.2          | 61.9          | 62.3          | 62.4          |
| Newmedica Community Ophthalmology (Ipswich)       | 144              | 972                                 | 0.0           | 0.0           | 0.0           | 0.0           | 510                                 | 0.0           | 0.0           | 0.0           | 0.0           |
| Newmedica Community Ophthalmology (Barlborough)   | 145              | 969                                 | 52.0          | 51.4          | 39.4          | 17.8          | 674                                 | 51.3          | 51.6          | 51.6          | 51.6          |
| Newmedica Community Ophthalmology (Exeter)        | 146              | 724                                 | 28.0          | 27.8          | 26.9          | 25.3          | 444                                 | 11.9          | 12.4          | 12.6          | 12.6          |
| SpaMedica – Derby                                 | 147              | 711                                 | 99.4          | 99.3          | 98.3          | 94.7          | 271                                 | 80.1          | 83.4          | 84.1          | 84.1          |
| Exeter Eye  | 148              | 688                                 | 87.1          | 82.1          | 76.7          | 67.0          | 504                                 | 71.8          | 73.2          | 73.4          | 73.6          |
| SpaMedica – Bromley                               | 149              | 473                                 | 99.4          | 99.4          | 99.4          | 99.2          | 80                                  | 77.5          | 78.8          | 80.0          | 80.0          |
| SpaMedica – Wokingham                             | 150              | 397                                 | 99.7          | 99.7          | 99.7          | 99.5          | 107                                 | 88.8          | 90.7          | 90.7          | 90.7          |
| SpaMedica – Stockton-on-Tees                      | 151              | 284                                 | 100.0         | 100.0         | 100.0         | 98.2          | 105                                 | 83.8          | 87.6          | 88.6          | 90.5          |
| Tetbury Hospital                                  | 152              | 251                                 | 63.3          | 62.2          | 50.6          | 22.3          | 251                                 | 90.4          | 92.0          | 94.0          | 94.4          |
| Newmedica Community Ophthalmology (Brigg)         | 153              | 249                                 | 42.2          | 41.0          | 40.6          | 39.8          | 0                                   | *             | *             | *             | *             |
| West Suffolk NHS Foundation Trust                 | 154              | 168                                 | 83.3          | 82.7          | 82.7          | 80.4          | 112                                 | 69.6          | 69.6          | 69.6          | 69.6          |
| Northern Care Alliance NHS Foundation Trust       | 155              | 148                                 | 43.9          | 39.2          | 28.4          | 19.6          | 12                                  | *             | *             | *             | *             |
| Newmedica Community Ophthalmology (Frome)         | 156              | 128                                 | 65.6          | 65.6          | 64.8          | 64.1          | 33                                  | *             | *             | *             | *             |
| Community Health and Eyecare Ltd (Preston)        | 157              | 127                                 | 98.4          | 97.6          | 96.9          | 96.1          | 0                                   | *             | *             | *             | *             |
| The Stoneygate Eye Hospital                       | 158              | 114                                 | 95.6          | 93.0          | 89.5          | 76.3          | 113                                 | 98.2          | 98.2          | 98.2          | 98.2          |
| Newmedica Community Ophthalmology (Wakefield)     | 159              | 77                                  | 0.0           | 0.0           | 0.0           | 0.0           | 10                                  | *             | *             | *             | *             |
| Overall for all centres                           | N/A              | 172,320                             | 71.0          | 68.3          | 65.4          | 61.5          | 132,322                             | 55.9          | 57.9          | 59.2          | 59.9          |

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\*No estimate is produced for centres with <50 eligible operations in the postoperative qualifying time period.

# Appendix 17: Operative procedures combined with phacoemulsification ± IOL

| Operative procedure  | Frequency |
|--|-----------|
| Insertion of pupil ring expander                             | 2,610     |
| Insertion of Iris hooks                                      | 984       |
| Automated anterior vitrectomy                                | 975       |
| Capsular tension ring  | 733       |
| Limbal relaxing incisions / Opposite clear corneal incisions | 648       |
| Intravitreal injection                                       | 608       |
| Intraoperative phenylephrine                                 | 524       |
| Synaechiolysis   | 321       |
| Stretching of the Iris                                       | 226       |
| Injection of bleb (antimetabolite)                           | 195       |
| Pars plana vitrectomy  | 119       |
| Injection into anterior chamber                              | 70        |
| I/C Miochol  | 61        |
| Anterior chamber of eye and/or lens operations               | 43        |
| Suture of Cornea   | 40        |
| Removal of retained lens fragments                           | 19        |
| Examination under anaesthesia                                | 17        |
| IOL exchange   | 15        |
| Sub-conjunctival injection                                   | 15        |
| Peripheral iridectomy  | 12        |
| Sphincterotomy   | 12        |
| Removal Cornea sutures                                       | 11        |
| IOL removal  | 10        |
| Washout of anterior chamber                                  | 7         |
| Fragmatone lensectomy  | 6         |
| Orbital floor injection                                      | 6         |
| Photocoagulation of ciliary body                             | 6         |

## Appendix 17 table continued: Operative procedures combined with phacoemuls if ication $\pm$ IOL

| Operative procedure                  | Frequency |
|--------------------------------------|-----------|
| Scleral-fixed IOL                    | 5         |
| Other operation on iris              | 3         |
| Removal of stent from Baerveldt tube | 3         |
| Punctual cautery                     | 2         |
| Pupilloplasty                        | 2         |
| Capsulectomy                         | 1         |
| Diathermy                            | 1         |
| Excision of lesion of Cornea         | 1         |
| Incision of Conjunctiva              | 1         |
| Insertion of punctal plug            | 1         |
| Lacrimal punctoplasty                | 1         |
| Perfect capsule                      | 1         |
| Removal of IOL from vitreous cavity  | 1         |
| Removal of retained lens nucleus     | 1         |
| Repair of Conjunctiva                | 1         |

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