

# Programme Performance Report Template

Version 1.2 / 15<sup>th</sup> May 2015

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# About the NHS Diabetic Eye Screening Programme

The NHS Diabetic Eye Screening (DES) Programme aims to reduce the risk of sight loss for people with diabetes through the early detection, appropriate monitoring and treatment of diabetic retinopathy, which is one of the biggest causes of blindness among people of working age.

Public Health England (PHE) is responsible for the NHS Screening Programmes. PHE is an executive agency of the Department of Health and works to protect and improve the nation's health and wellbeing, and reduce health inequalities.

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Published Month 20XX

PHE publications gateway number: XXXXXX [this line can be deleted if not required]



## About this publication

<b>Project / Category</b>	Reporting
<b>Document title</b>	Programme Performance Report Template
<b>Version / Date</b>	Version 1.2 15/05/2015
<b>Release Status</b>	Final
<b>Author</b>	Donna Prentis, Kristin Bash, David Taylor
<b>Owner</b>	Donna Prentis
<b>Type</b>	Report Specification
<b>Authorised By</b>	NHS NDESP National Programme Team
<b>Valid From</b>	15/05/2015
<b>Review Date</b>	15/06/2016
<b>Audience</b>	NHS DESP, DESP software providers, commissioners, screening leads, DE screening providers, GPs.

### **Distribution**

Name / Group	Responsibility

### **Amendment history**

Version	Date	Author	Description
0.1	20 Aug 2012	KB/DP	Final draft
1.0	02 Nov 2012	DP	Final release
1.1	15 July 2013	AA/DP	Addition of KPI references
1.2	15 May 2015	DP	Amendments (see table page 8)

### **Review / approval**

Version	Date	Requirement	Signed
1.1	02/11/12	Approved	Donna Prentis
1.2	15/05/15	Approved	Donna Prentis

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# Executive summary

## Introduction

From 2006 and annually thereafter, diabetic retinopathy screening programmes have been required to submit to the National Screening Programme an annual report, containing general information about the service offered and information to support an assessment against the Performance Objectives and Quality Assurance Standards for the programme.

Many of these same data are useful to programmes for monitoring programme performance and internal QA reviews throughout the year. A new Programme Performance Report has therefore been designed to provide detailed information to programmes when they require it, and to provide a basis for reporting back to the National Screening Programme within the annual report requirement.

This template provides a report structure which all programmes will be required to use, in order to facilitate the collation and comparison of data for the submission of the annual report. Each of the terms in this report and the Performance Objectives have been defined so as to be unambiguous and consistent with the targets, standards, and software which define systematic screening for diabetic retinopathy.

Updates to the report have been made to reflect changes in the national pathway, including new reporting data for the Digital Surveillance (previously the OPDR) and slit lamp biomicroscopy (SLB) Surveillance pathways.

The template is divided into two columns: the first states the return required, and the second provides the detail of how this should be measured and how it relates to the Quality Standards and Performance Objectives (v1.11).

The report should be run over a 12 calendar month time period to ensure the data produced for each field fulfils the description provided for each field. Report date ranges selected are recommended to end a minimum of 90 days prior to the date the report is run to allow for the majority of grading, referral and treatment data to be captured (although seven months is required for a formal annual report submission – see below).

## Annual report submission

Where this report is being run for the annual report submission, the report will cover one complete financial year (1 April - 31 March), and must be returned to the National Screening Programme Office by 31 October following the end of each report period. Returns are generally based on attendance for a retinopathy screening appointment during the reporting period, with seven months being required before the report is due to follow these appointments through the grading, assessment and treatment process.

In cases where a snapshot of information is required, information should usually be reported as at the last day of the reporting period. Programmes are encouraged to supplement unavailable,

unusual or out-of-tolerance returns with an explanatory note, particularly where data have been affected by significant changes during the reporting period (for example, new management software or a change in programme boundaries).

## Scope

This report covers each aspect of programme operation necessary to evaluate performance against the NHS Diabetic Eye Screening Programme (NHS DESP) Quality Standards and Performance Objectives (v1.11). All returns relating to retinopathy grading apply to pathology recorded using the National Grading Standard (retinopathy, maculopathy, photocoagulation, assessability).

## Reporting requirements

The software must provide the capability of producing this report on the following basis:

- Per programme
- Per individual Region within the defined boundaries of the programme
- Per individual Local Area (LA) within the defined boundaries of the programme
- Per individual Clinical Commissioning Group (CCG) within the defined boundaries of the programme.

## Key to explanatory marks

<u>broken underline</u>	term is further defined and explained in the glossary of terms
asterisk (*)	return will require the collation of data which will not usually be collected by a screening service, such as ophthalmology treatment information
[square brackets]	indicate headers to provide context and grouping information regarding subcategories: no return required

## Report section summary

The report is divided into ten sections and, in general, is designed to follow the patient pathway as the patient moves through the different stages of screening:

Section heading	Summary description
1. Programme information	Contact and programme boundary details.
2. Delivery model	Programme model and software.
3. Patient throughput	Total number of patients, number eligible, suspended, invited, screened, removed.
4. Routine Digital Screening (RDS) outcomes by grade	Outcomes of RDS events that occurred during the reported time period.
5. Grading process	Grader activity and comparison.
6. Ophthalmology referrals/outcomes	Referrals, consultation times, laser treatment times resulting from RDS and surveillance

	events that occurred during the reported time period.
7. Quality assurance processes	Participation in EQA.
8. Reducing new blindness	S/SSI certifications and VA measurements.
9. Surveillance activity – Outcomes from SLB surveillance	Outcomes of SLB surveillance events that occurred during the reported time period..
10. Surveillance activity – Outcomes from Digital Surveillance (DS)	Outcomes of DS surveillance events that occurred during the reported time period..
Definitions table	
Appendices A - H	

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## Summary of key changes from v1.1

The following table summarises the key changes in the PPR from version 1.1 (15-07-2013). The changes are mostly minor corrections to the original document, and are denoted in **red** throughout the document.

Report field	Change	Notes
3.7.3	Added to guidance note.	
Footnote 17	Corrected field reference.	
6.2.b	Added 'RD' to clarify type of screening encounter.	
6.4.6	Corrected to R1M1.	
9.1.3	Aligned with Performance Objective 10.	
10.1.3.1	Corrected headings to align with 10.1.1.1.	
10.2.8, 10.2.9	Corrected to R3A.	
10.3	Added additional outcomes of 1, 2, 4, 5, 7 8, 10 and 11 month recall to number of patients retained in DS pathway.	
Multiple fields	Corrected lowercase 'a' and 's' to uppercase for all instances of R3A and R3S.	
Multiple fields	Updated references to QA Standards and Performance Objectives, including terminology (not in red).	
Section 2 – definitions	Clarified definition of positive test.	



# Programme Performance Report

Name	Description	Guidance
<b>1. Programme information</b>		
<b>1.1. Programme name</b>	Unique name <sup>1</sup> for this diabetic eye screening programme.	
<b>1.1.1 Programme Region</b>	Region that the programme is located in, or lead region if the programme lies within the boundaries of one or more region.	
<b>1.2a. CCG units that commission the programme</b>	List of CCG Units <sup>2</sup> that commission the programme denoting the lead CCG where applicable,	
<b>1.3a Local areas wholly covered</b>	List of Local Areas (LAs) <sup>3</sup> falling wholly within the defined boundaries of this programme.	
<b>1.3b. Local areas covered in part</b>	List of Local Areas (LAs) <sup>4</sup> falling partly within the defined boundaries of this programme.	
<b>1.4. Programme Manager</b>	Name, job title and contact details for the programme lead / manager.	
<b>1.5. Accountable Clinical Lead</b>	Name, title, job title and contact details for the accountable clinical lead	
<b>1.6. Location</b>	Address, contact name, contact e-mail and contact telephone for the administrative centre for the programme.	
<b>1.7. Referral and Treatment Centres</b>	A list of the acute Trust(s) and hospitals into which patients are referred for assessment and/or treatment following a <u>positive test</u> , and the name, title, and job title of the lead ophthalmologist based at each location.	

<sup>1</sup> Should identify the screening programme and not just the Clinical Commissioning Group (CCG) areas that it covers; for example 'Gloucestershire Diabetic Eye Screening Service'.

<sup>2</sup> Term 'CCG Units' to denote relationship of commissioning organisations (Clinical Commissioning Groups) to the area of registered populations within and between which the DESP screening populations will be defined. Note that these will reflect registered populations (as per GP registrations).

<sup>3</sup> Term 'Administrative Units' to denote area of resident populations (e.g., Local Authorities) which fall within the defined boundaries of the programme. Note that these will reflect where populations live and where they are registered with a GP practice.

<sup>4</sup> *ibid.*

<b>1.8 GP practice participation</b>	<p>1.8.a. Number of GP practices within the defined boundaries of the programme referring in to the programme.</p> <p>1.8.b. Number of GP practices within the defined boundaries of the programme.</p> <p><i>Performance Objective 1.3</i></p>	
<b>2. Delivery model</b>		
<b>2.1. Programme structure / model</b>	<p>Brief summary of how screening is delivered, including whether the programme issues invitations for screening from a single location, plus:</p> <ul style="list-style-type: none"> <li>• number of static sites</li> <li>• number of mobile sites</li> <li>• number of optometric sites, and</li> <li>• whether any independent/external provider is used.</li> </ul>	
<b>2.2. Cameras used</b>	<ul style="list-style-type: none"> <li>• number of static cameras in non optometric sites</li> <li>• number of mobile cameras</li> <li>• number of static cameras on optometric sites</li> </ul>	
<b>2.3. Management software used</b>	<p>Supplier, product and version</p>	
<b>3. Patient throughput</b>		
<b>3.1.0. Patients seen in different DESP</b>	<p>[These patients are <u>off-register</u> and do not appear within any other fields.]</p> <ul style="list-style-type: none"> <li>a) Number of living people aged 12 and above within catchment area of DESP who have chosen to have screening at a different DESP at final day of reporting period.</li> <li>b) List of DESP names which are providing screening to the patients in [3.1.0.a] above.</li> </ul>	

<b>3.1. Programme size</b>	The number of living people aged 12 and above on the programme register <sup>5</sup> at final day of reporting period <i>Performance Objective 16</i>	Programme size [3.1] should equal patients eligible [3.1.1] plus patients ineligible [3.1.2]
<b>3.1.1. Patients eligible for screening</b>	Number of people eligible for screening by this programme: at final day of reporting period  <i>Performance Objective 2.1</i>	This will include patients that are excluded and suspended.
<b>3.1.2. Patients ineligible for screening – NPL</b>	Number of people ineligible for screening by this programme at final day of reporting period, due to having no perception of light (NPL) in both eyes	
<b>3.1.3. Patients excluded from screening</b>	Number of people excluded: a) at final day of reporting period; b) within the reporting period <sup>6</sup> .  <i>Performance Objective 2.1 [3.1.3a]</i>	Patients excluded at final day [3.1.3.a] should equal patients excluded categorised as informed opt-out [3.1.4.a] plus medically unfit [3.1.4.b]
<b>3.1.4. Patients excluded from screening according to category</b>	Number of people excluded at final day of reporting period, categorised as <sup>7</sup> : a) Informed opt-out b) Medically unfit	
<b>3.1.5. Patients suspended from screening</b>	Number of people suspended a) At final day of reporting period b) Within reporting period  <i>Performance Objective 2.1 [3.1.5a]</i>	Patients suspended at final day [3.1.5.a] should equal patients suspended categorised as SLBS [3.1.6.a] plus DS [3.1.6.b] plus HES [3.1.6.c]
<b>3.1.6. Patients suspended from screening according to category</b>	Number of people suspended at final day of reporting period according to category: a) Slit Lamp Biomicroscopy Surveillance (SLBS) b) Digital Surveillance (DS) c) Hospital Eye Service (HES)	

<sup>5</sup> [3.1] should be the total of all patients listed on the Register and will include patients who fall into the following categories; categories: eligible, ineligible, excluded and suspended.

<sup>6</sup> The circumstances under which a patient can be marked as either Suspended or Excluded are detailed in the 'Suspensions and Exclusions paper,' *Exclusions and suspensions and management of ungradable images*. Patients who are Excluded continue to count within the Eligible category.

<sup>7</sup> *ibid*

<b>3.2. Number of people invited for Routine Digital Screening (RDS)</b>	Number of people invited for a RDS screening event <sup>8</sup> : a) during the reported time period <sup>9</sup> ; and b) which was due to take place within the reported time period <sup>10</sup> . <i>Performance Objective 2.1 [3.2.a]</i> <i>Performance Objective 3, KPI DE1 [3.2.b]</i>	Please see Appendix B for rules regarding counting open invitations.
<b>3.2.1. Invitations made for first screening<sup>11</sup></b>	Number of new additions to the register [3.5] <sup>12</sup> who were issued a first invitation for first RDS event within the reported time period.  <del><i>Performance Objective</i></del>	
<b>3.2.2 Invitations made for first screening within 3 months</b>	Number of new additions to the register [3.5] <sup>13</sup> who were issued a first invitation for first RDS event, within 3 months of the programme being notified of their diagnosis.  <i>Performance Objective 2.2</i>	
<b>3.2.3 Newly registered patients who DNADNR following first invitation to first screening</b>	Number of new additions to the register [3.5] <sup>14</sup> who were issued a first invitation for first RDS event within the reported time period who DNA first booked appointment or DNR to first invitation for first RDS event.	
<b>3.3 DNADNR patients</b>	Patients who have received final reminder/invite letter within the reported time period, without attending any RDS appointment: a) Total number within reported time period b) Total number within [3.3.a] above, aged between 12 and 44 years at final day of reported time period.	

<sup>8</sup> Note that this return should represent the number of people who have received an invitation, rather than the number of invitations sent: if more than one invitation was issued for screening events within the reported time period, only the initial invitation should be counted. Patients attending for routine screening without a prior appointment or invitation should be deemed as receiving an invitation on the date of screening.

<sup>9</sup> i.e. the invitation was issued within the reporting period, but the proposed appointment date might fall outside the reporting period.

<sup>10</sup> Counts invitations that were issued at any time for a proposed appointment date within the reporting period. Programmes with partial booking systems which offer a range of dates during which the patient can arrange an appointment should use the first date in this range as the proposed appointment date. For open appointment models (where no proposed date is offered to the patient), where a realisable invitation is not taken up, see Appendix B.

<sup>11</sup> First Screening refers to new patients' first screening event within the DESP. See definitions in glossary for 'first screening' and 'new registrations' for further detail.

<sup>12</sup> Note that this is a subset of new additions to the register within the reported time period (field 3.5)

<sup>13</sup> *ibid*

<sup>14</sup> Note that this is a subset of new additions to the register within the reported time period (field 3.5)

	c) Total number within [3.3.a] above, aged 45 years or over at final day of reported time period.	
<b>3.4. Patients screened</b>	Number of people who have attended a successful <u>RDS event</u> during the reported time period <sup>15</sup> .  <i>Performance Objective 3, KPI DE1 Performance Objective 4, Performance Objective 6</i>	Patients screened [3.4] should equal the sum of RDS outcomes by grade [4.1.1] to [4.1.10]
<b>3.4.1. Patients screened while in HES</b>	Number (out of 3.4) who received screening for DR while in <u>HES</u> for a non-DR condition. <sup>16</sup>	
<b>3.4.2. Annual screening</b>	Of the people who attended a RDS event during the 12 months previous to the current reported time period; a) Number of people who subsequently attended a RDS event during the reported time period. b) Number of people who subsequently attended a RDS event during the reported time period, falling within 12 months of previous RDS.  <i>Performance Objective 17</i>	
<b>3.5. New registrations</b>	Number of new additions to the <u>register</u> within the reported time period. <i>Performance Objective 2.2</i>	
<b>3.6. Moved off-register</b>	Number of people with diabetes who moved <u>off-register</u> within the reported time period.	
<b>3.7 Cohort-based Performance Measures</b>	[Reporting measures within section 3.7 are new and reflect the performance of only the cohort of patients who are eligible for screening and not <u>suspended</u> on the final day of the reporting period.]	
<b>3.7.1. Number <u>eligible</u> and not <u>suspended</u></b>	Number of patients <u>eligible</u> and not <u>suspended</u> on the final day of the report period <sup>17</sup> .	

<sup>15</sup> Section [3.4] should not include patients who are recorded as exceptions [4.2] unless they have subsequently attended RDS and a gradeable or U digital image has been taken.

<sup>16</sup> Patients who are seen in HES for a non-DR lesion may have their DR screening while in hospital under agreement between HES and DESP; further detail available in 'Exclusions, Suspensions and Management of Ungradables'.

<sup>17</sup> This is equivalent to field [3.1.1.] minus [3.1.5.a].

<b>3.7.2. Cohort performance measure – number invited</b>	Number of patients <u>eligible</u> and not <u>suspended</u> on the final day of the report period [3.7.1.] who were <u>invited</u> for an <u>RDS event</u> during the reported time period <sup>18</sup> .	This count will exclude any patients who were made eligible near the end of the reported time period but were not invited until after the reported time period.
<b>3.7.3. Cohort performance measure - number screened</b>	Number of patients <u>eligible</u> and not <u>suspended</u> on the final day of the report period [3.7.1.] who were <u>invited</u> for an <u>RDS event</u> [3.7.2.] that subsequently attended a <u>RDS event</u> during the 15 month period that starts from the first day of the reported time period <sup>19</sup> .	This count allows 3 months after the final day of the reporting period, for patients who were invited at the end of the reported time period, to attend for screening. This assumes all invitations are for a 'realisable appointment' for a date within 3 months of the date of issue. <b>This count will only be accurate if the report period is a full year.</b>
<b>3.7.4. Cohort performance measure – percentage invited</b>	Percentage of patients eligible and not suspended on the final day of the report period [3.7.1.] who were invited for an <u>RDS event</u> during the reported time period	
<b>3.7.5. Cohort performance measure – percentage screened</b>	Percentage of patients eligible and not suspended on the final day of the report period [3.7.1.] who were invited for an <u>RDS event</u> [3.7.2.] that subsequently attended a <u>RDS event</u> during the 15 month period that starts from the first day of the reported time period	
<b>4. Routine Digital Screening (RDS) outcomes by grade</b>		
<b>[4.1. RDS outcomes by grade:]<sup>20</sup></b>	[The aggregate outcomes within each grading category should relate to <u>Routine Digital Screening (RDS) screening events</u> within the reported time period. <sup>21</sup> The category should represent the <u>final grading outcome</u> for the eye for which action is most urgently required. <sup>22</sup> ]	

<sup>18</sup> This measure will therefore not include patients that became eligible near the end of the report period and were sent an invitation after the final day of the report period.

<sup>19</sup> Extending the reported time period by 3 months allows programmes 3 months for the patients to attend a RDS event arising from a realisable appointment.

<sup>20</sup> Note that the numbers of grading outcomes falling within each grading category [4.1.1 to 4.1.10] should sum to exactly the number of patients screened [3.4]. Patients attending for photography and subsequently referred for slit-lamp biomicroscopy during the reported time period should be counted in this section *and* section 6. It is recommended that all image sets are graded to completion, regardless of any change to the patient status occurring after the digital screening encounter.

<sup>21</sup> Therefore these figures will relate to grading activity outside the reporting period for patients screened near the end of the financial year. Where a patient attends a RDS encounter on more than one occasion during the reported time period, only the final grading outcome of the final RDS encounter should be reported.

<sup>22</sup> The agreed hierarchy for 'eye for which action is most urgently required' is given in Appendix C along with the inferred outcomes for that grade. It is recommended that all image sets are graded to completion regardless of the status of the patient (for example if a patient status changes to 'deceased' during the grading process).

<b>4.1.1. Grade: R0M0</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R0 No retinopathy, M0 No maculopathy'.	
<b>4.1.2. Grade: R1M0</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R1 Background retinopathy, M0 No maculopathy'.	
<b>4.1.3. Grade: R1M1</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R1 Background retinopathy, M1 Maculopathy'.	
<b>4.1.4. Grade: R2M0</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R2 Pre-proliferative retinopathy, M0 No maculopathy'.	
<b>4.1.5. Grade: R2M1</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R2 Pre-proliferative retinopathy, M1 Maculopathy'.	
<b>4.1.6. Grade: R3SM0</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R3S - Stable Proliferative retinopathy, M0 - No maculopathy'.	
<b>4.1.7. Grade: R3SM1</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R3S - Stable Proliferative retinopathy, M1 - Maculopathy'.	
<b>4.1. 8. Grade: R3AM0</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R3A - Active Proliferative retinopathy, M0 - No maculopathy'.	
<b>4.1.9. Grade: R3AM1</b>	Number of patients, according to [4.1] above, with a final grading outcome of 'R3A - Active Proliferative retinopathy, M1 - Maculopathy'.	
<b>4.1. 10. Grade: U</b>	Number of patients, according to [4.1] above, deemed Ungradable. <i>Performance Objective 4</i>	
<b>4.2 Image Capture Exceptions</b>	Number of patients for whom no photograph could be taken at time of appointment <sup>23</sup>	Exceptions do not close out a screening event and the designation of 'exception' is

Drill down should be available from numbered totals into patient identified lists. This facility is required at the programme only for the purpose of checking submissions and is not required within the report for submission to EARS.

An additional management report is required for the programmes internal use as described in Appendix F

<sup>23</sup> Exceptions do not close out a screening event and the designation of 'exception' is not a grading outcome; patients whose appointments end in exceptions are re-invited to RDS for screening event and will be included in both [4.1] and [4.2].

		not a grading outcome; patients whose appointments end in exceptions are re-invited to RDS for screening event and will be included in both [4.1] and [4.2].
<b>4.3 [RDS Outcomes by Action]</b>	[This section should relate to patients for which completed actionable referral outcome grades (ROG) were assigned during the reported time period. Therefore this section will relate to some RDS events that occurred outside of the reported time period.]	
<b>4.3.1. RDS Outcomes by Action/inferred grade</b>	<ul style="list-style-type: none"> <li>a) Number of patients returned to RDS annual recall (no referral to surveillance or HES required), within reported time period.</li> <li>b) Number of patients referred from RDS into DS within reported time period</li> <li>c) Number of patients referred from RDS into SLBS within reported time period</li> <li>d) Number of routine DR referrals made to HES within reported time period.</li> <li>e) Number of urgent DR referrals made to HES within reported time period.</li> <li>f) Number of routine referrals made for non-DR lesions within reported time period<sup>24</sup></li> <li>g) Number of urgent referrals made for non-DR lesions within reported time period<sup>25</sup></li> <li>h) Number of patients excluded or removed<sup>26</sup> from the register within the reported time period.</li> </ul>	This section describes patient numbers into the various components of the screening service (HES, DS, SLBS) during the reported time period and will be a useful summary for commissioners.
<b>4.3.8 Outcome changes made at ROG</b>	<p>Report (table format) to compare final grading outcomes from RDS encounters that took place during the reported time period against action outcomes determined at ROG.</p> <p>Please see Appendix D for full description.</p>	

<sup>24</sup> For further information on non-DR referrals please refer to the document 'Operational Guidance for Feature Based Grading Forms in NHS Diabetic Eye Screening Programme'.

<sup>25</sup> *ibid*

<sup>26</sup> Please note that 'removed from register' is not a ROG outcome, but an administrative outcome that may occur between the date of the final grade being assigned and the ROG being assigned. This has been included to ensure the sum of digital screening outcomes equals the sum of ROG outcomes.



<b>5. Grading process</b>		
<b>5.1. Grader workload</b>	For each retinopathy grader in the service, provide a pseudonymised <sup>27</sup> report (table format) of activity relating to all <u>full grading</u> carried out within the reported time period. <sup>28</sup> Please see Appendix E for full description.	
<b>5.2. Individual Grader Tables – Comparison of grading with final grade: Kappa Table</b>	Please see Appendix F for full description.	
<b>5.3. Summary of Individual grader tables.</b>	Please see Appendix F for full description.	
<b>5.4. Result notification times</b>	Number of <u>result letter notifications</u> issued following a <u>RDS screening encounter</u> within the reported period <sup>29</sup> : a) within 3 weeks of <u>RDS screening encounter</u> b) within 6 weeks of <u>RDS screening encounter</u> <i>Performance Objective 6, KPI DE2 [5.4.a]</i>	
<b>6. Ophthalmology (HES) referrals / outcomes</b>	[Note that this section should be used to report ophthalmology outcomes that result from <u>RDS screening or surveillance encounters</u> from all DESP pathways ( <u>RDS, SLBS or DS</u> ) within the reported time period.]	
<b>6.1. Urgent referral times -</b>	Number of patients marked as ‘R3AM0/R3AM1’ referred to an ophthalmology clinic in relation to a <u>screening or surveillance event</u> that took place within the reported time period, within:	

<sup>27</sup> For example, ‘Grader A’, ‘Grader B’, etc. This should allow problems with individual graders to be traced back if necessary without compromising workforce confidentiality.

<sup>28</sup> The assessment of grading workload does not therefore relate to digital screening encounters within the reported time period; often, grading carried out near the start of the financial year will relate to digital screening encounters from the previous financial year. Please refer to appendix 2 of this report for guidance on how to calculate grader workload.

<sup>29</sup> Issuing of results letters must be to both GP and patient for the count to be included in this section.

	<p>a) 1 week of <u>screening or surveillance event</u><sup>30</sup></p> <p>b) 2 weeks of <u>screening or surveillance event</u></p> <p><i>Performance Objective 7 [6.1b]</i></p>	
<b>6.2. Ophthalmology referrals: all patients</b>	<p>Number of patients referred to an ophthalmology clinic following a <u>positive test</u> relating to:</p> <p>a) a <u>screening or surveillance event</u> that took place within the reported time period</p> <p>b) a <b>RD</b> <u>screening event</u> that took place within the reported time period.<sup>31</sup></p> <p>c) a <u>DS event</u> that took place within the reported time period</p> <p>d) a <u>SLBS event</u> that took place within the reported time period</p>	Total referrals [6.2.a] should equal the sum of referrals from RDS [6.2.b], DS [6.2.c] and SLBS [6.2.d]
<b>6.2.1. Ophthalmology referrals: by category</b>	<p>Number of patients referred to an ophthalmology clinic following a <u>positive test</u> relating to a <u>screening or surveillance event</u> that took place within the reported time period with:</p> <p>a) a final grading outcome<sup>32</sup> of 'R3AM0 proliferative retinopathy without maculopathy'</p> <p>b) a final grading outcome<sup>33</sup> of 'R3AM1 Proliferative retinopathy with maculopathy'</p> <p>c) a final grading outcome of 'R3SM0' stable proliferative retinopathy without maculopathy.</p> <p>d) a final grading outcome of 'R3SM1' stable proliferative retinopathy with maculopathy</p> <p>e) a final grading outcome of 'R2M0 Pre-proliferative retinopathy'</p> <p>f) a final grading outcome of 'R2M1'</p> <p>g) a final grading outcome of 'R1M1'</p>	Total referrals [6.2.a] should equal the sum of referrals by category [6.2.1.a] to [6.2.1.h]

<sup>30</sup> i.e. grading completed and appropriate referral made within 1 week of screening encounter.

<sup>31</sup> This refers to patients who are referred to HES as determined by ROG outcome; screening encounters that end in referable grade but sent to another DESP pathway (e.g., DS) are not included in this category.

<sup>32</sup> Final grading outcome should be measured on the eye for which action is most urgently required. The agreed hierarchy for 'eye for which action is most urgently required' is:

R3aM1 > R3aM0 > R3sM1 > R2M1 > R1M1 > R2M0 > U > R3sM0 > R1M0 > R0M0, see Appendix C for further details.

<sup>33</sup> *ibid.*

	<p>h) any other final grading outcome (R1M0, R0M0, U) – excluding referrals for eye diseases other than diabetic retinopathy.</p> <p><i>Performance Objective 7, Performance Objective 8, KPI DE3 [6.2.1 a and 6.2.1.b]</i></p>	
<p><b>6.3. Consultation times: by category *</b></p>	<p>Number of patients within [6.2.1] above with:</p> <ul style="list-style-type: none"> <li>a) a final grading outcome of 'R3AM0/R3AM1 Proliferative retinopathy' receiving <u>consultation</u> within 2 weeks of <u>notification of positive test</u></li> <li>b) a final grading outcome of 'R3AM0/R3AM1 Proliferative retinopathy' receiving <u>consultation</u> within 4 weeks of <u>notification of positive test</u></li> <li>c) a final grading outcome of 'R2M0/R2M1 Pre-proliferative retinopathy' receiving <u>consultation</u> within 13 weeks of <u>notification of positive test</u></li> <li>d) a final grading outcome of 'R2M0/R2M1 Pre-proliferative retinopathy' receiving <u>consultation</u> within 18 weeks of <u>notification of positive test</u></li> <li>e) a final grading outcome of 'R1M1 Maculopathy' receiving <u>consultation</u> within 13 weeks of <u>notification of positive test</u></li> <li>f) a final grading outcome of 'R1M1' receiving <u>consultation</u> within 18 weeks of <u>notification of positive test</u></li> </ul> <p><i>Performance Objective 8, KPI DE3 [6.3 b]</i></p>	
<p><b>6.4. <u>Patients listed for first laser treatment at first visit *</u></b></p>	<ul style="list-style-type: none"> <li>a) Number of patients <u>listed at first visit for first laser treatment</u> for 'R3AM0 Proliferative retinopathy' following a <u>positive test</u> relating to a <u>screening event</u> that took place within the reported time period.</li> <li>b) Number of patients <u>listed at first visit for first laser treatment</u> for 'R3AM1 Proliferative retinopathy' following a <u>positive test</u> relating to a <u>screening event</u> that took place within the reported time period.</li> <li>c) Number of patients <u>listed at first visit for first laser treatment</u> for 'R2M0 Pre-proliferative retinopathy'</li> </ul>	

	<p>following a <u>positive test</u> relating to a <u>screening event</u> that took place within the reported time period.</p> <p>d) Number of patients <u>listed at first visit for first laser treatment</u> for 'R2M1 Pre-proliferative retinopathy' following a <u>positive test</u> relating to a <u>screening event</u> that took place within the reported time period.</p> <p>e) Number of patients <u>listed at first visit for first laser treatment</u> for 'R1M1 Maculopathy' following a <u>positive test</u> relating to a <u>screening event</u> that took place within the reported time period.</p> <p><i>Performance Objective 11, Performance Objective 12</i></p>	
<b>6.4.1. Laser treatment waiting times from screening for R3AM0/R3AM1</b>	<p>Number of patients within [6.4.] above, having received <u>first laser treatment</u> for R3A Proliferative retinopathy:</p> <p>a) within 4 weeks of <u>screening or surveillance event</u>  b) within 6 weeks of <u>screening or surveillance event</u></p> <p><i>Performance Objective 12 [6.4.1b]</i></p>	
<b>6.4.2. Laser treatment waiting times from screening for R2M0/R2M1</b>	<p>Number of patients within [6.4.] above, having received <u>first laser treatment</u> for R2 pre-proliferative retinopathy:</p> <p>a) within 15 weeks of <u>screening or surveillance event</u>  b) within 18 weeks of <u>screening or surveillance event</u></p> <p><i>Performance Objective 12</i></p>	
<b>6.4.3. Laser treatment waiting times from screening for R1M1</b>	<p>Number of patients within [6.4.] above, having received <u>first laser treatment</u> for R1M1 maculopathy:</p> <p>a) within 15 weeks of <u>screening or surveillance event</u>  b) within 18 weeks of <u>screening or surveillance event</u></p> <p><i>Performance Objective 12</i></p>	
<b>6.4.4. Laser treatment waiting times from listing for R3AM0/R3AM1*</b>	<p>Number of patients within [6.4.] above, having received <u>first laser treatment</u> for R3A Proliferative retinopathy: within 2 weeks of <u>listing</u>.</p>	

	<i>Performance Objective 11</i>	
<b>6.4.5. Laser treatment waiting times from listing for R2M0/R2M1*</b>	Number of patients within [6.4.] above, having received first laser treatment for R2 pre-proliferative retinopathy within 10 weeks of listing.  <i>Performance Objective 11</i>	
<b>6.4.6. Laser treatment waiting times from listing for R1M1*</b>	Number of patients within [6.4.] above, having received first laser treatment for R1M1 Maculopathy <del>R2 pre-proliferative retinopathy</del> within 10 weeks of listing.  <i>Performance Objective 11</i>	
<b>7. Quality assurance processes</b>		
<b>7.1. Evidence of external quality assurance</b>	Date of participation in most recent a peer-review EQA visit programme <i>Performance Objective 19</i>	
<b>7.2. Report submission date</b>	Date of submission of current report. <i>Performance Objective 18</i>	
<b>8. Reducing new blindness</b>		
<b>8.1. New certifications of severe sight impairment*</b>	Number of new certifications of severe sight impairment within the reported time period amongst current patients, which are predominantly due to diabetic retinopathy. <i>Performance Objective 13</i>	
<b>8.2. New certifications of sight impairment*</b>	Number of new certifications of sight impairment within the reported time period amongst current patients, which are predominantly due to diabetic retinopathy. <i>Performance Objective 13</i>	
<b>8.3. Incident visual acuity: 6/60 or worse</b>	Number of current patients with visual acuity of 6/60 <sup>34</sup> or worse in the better seeing eye being recorded for the first time within the reporting period. <i>Performance Objective</i>	
<b>8.4. Incident visual acuity: 6/18 or worse</b>	Number of current patients with visual acuity of 6/18 <sup>34</sup> or worse in the better seeing eye being recorded for the first time within the reporting period.	

<sup>34</sup> log MAR equivalent: +1.0. This should be the most recent best corrected VA measurement.

	<i>Performance Objective</i>	
<b>8.5 Number of patients with a concurrent visual acuity measurement recorded</b>	Number of <u>current patients</u> attending a screening encounter in the reporting period with a concurrent visual acuity measurement recorded for at least one eye	
<b>8.6. Incident visual acuity: 6/60 or worse predominantly due to diabetic retinopathy</b>	Number of <u>current patients</u> referred with visual acuity of 6/60 <sup>34</sup> or worse in the better seeing eye being recorded for the first time within the reporting period, which is <u>predominantly due to diabetic retinopathy</u> .  <i>Performance Objective 13</i>	
<b>8.7. Incident visual acuity: 6/18 or worse predominantly due to diabetic retinopathy</b>	Number of <u>current patients</u> referred with visual acuity of 6/18 <sup>34</sup> or worse in the better seeing eye being recorded for the first time within the reporting period, which is <u>predominantly due to diabetic retinopathy</u> .  <i>Performance Objective</i>	
<b>Surveillance activity</b>		
<b>9. Outcomes from SLB Surveillance</b>		
<b>9.1.1. <u>SLB surveillance patients</u></b>	Total number of patients within the <u>SLBS</u> pathway on the final day of the reporting period.	
<b>9.1.2. <u>SLB surveillance assessments</u></b>	a) Number of <u>SLBS</u> assessments carried out during the reported time period. b) Number of patients who have attended a <u>SLBS event</u> during the reported time period	
<b>9.1.3. <u>New SLB surveillance referrals</u></b>	Number of patients referred into <u>SLB surveillance</u> within the reported time period. <sup>35</sup> <i>Performance Objective 10</i>	
<b>9.1.4. <u>New SLB surveillance referrals seen &lt; 14 weeks</u></b>	Number of patients referred into <u>SLB surveillance</u> within the reported time period [9.1.3], who attended a <u>SLB surveillance event</u> within 14 weeks of date of <b>referral into pathway RD screening event</b> . <i>Performance Objective 10</i>	

<sup>35</sup> Each referral counted separately; if a patient referred >1 in reporting period, this would count as >1 within this reporting measure. This should be measured from the data at which the patient status was changed on the screening programme register to 'suspended – SLBS'.

[9.2. SLBS assessment outcomes by grade:] <sup>36</sup>	[The aggregate outcomes within each grading category should relate to slit lamp biomicroscopy surveillance (SLBS) events that take place within the reported time period. <sup>37</sup> The category should represent the final grading outcome for the eye for which action is most urgently required. <sup>38</sup> ]	
<b>9.2.1. Grade: R0M0</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R0 No retinopathy, M0 No maculopathy'.	
<b>9.2.2. Grade: R1M0</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R1 Background retinopathy, M0 No maculopathy'.	
<b>9.2.3. Grade: R1M1</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R1 Background retinopathy, M1 Maculopathy'.	
<b>9.2.4. Grade: R2M0</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R2 Pre-proliferative retinopathy, M0 No maculopathy'.	
<b>9.2.5. Grade: R2M1</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R2 Pre-proliferative retinopathy, M1 Maculopathy'.	
<b>9.2.6. Grade: R3SM0</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R3S - Stable Proliferative retinopathy, M0 No maculopathy'.	
<b>9.2.7. Grade: R3SM1</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R3S - Stable Proliferative retinopathy, M1 Maculopathy'.	
<b>9.2.8. Grade: R3AM0</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R3A - Active Proliferative retinopathy, M0 No maculopathy'.	
<b>9.2.9. Grade: R3AM1</b>	Number of patients, according to [9.2] above, with a final grading outcome of 'R3A - Active Proliferative retinopathy, M1 Maculopathy'.	

<sup>36</sup> Note that this section should be used to report biomicroscopy assessments which take place in the SLB Surveillance pathway.

<sup>37</sup> Where a patient attends a slit lamp biomicroscopy screening encounter on more than one occasion during the reported time period, only the final grading outcome of the final screening encounter should be reported.

<sup>38</sup> The agreed hierarchy for 'eye for which action is most urgently required' is given in Appendix C.

9.2.10. Grade: U	Number of patients, according to [9.2] above, deemed <u>ungradable</u> following biomicroscopy examination.	
[9.3 SLBS Outcomes by Action]		
9.3. SLBS Outcomes by Action	<p>[This section should relate to patients for which completed <u>actionable outcomes</u> were assigned during the reported time period. Therefore this section will relate to some <u>SLBS events</u> that occurred outside of the reported time period.]</p> <ul style="list-style-type: none"> <li>a) Number of patients retained in <u>SLBS</u> pathway, no referral to <u>HES</u> or <u>DS</u> required, patient not returned to <u>RDS</u>.</li> <li>b) Number of patients retained in <u>SLBS</u> pathway for 6 month recall.</li> <li>c) Number of patients retained in <u>SLBS</u> pathway for 12 month recall.</li> <li>d) Number of patients returned to <u>RDS</u> annual recall within reported time period.</li> <li>e) Number of patients referred to <u>DS</u> within reported time period</li> <li>f) Number of routine DR referrals made to <u>HES</u> within reported time period.</li> <li>g) Number of urgent DR referrals made to <u>HES</u> within reported time period.</li> <li>h) Number of routine referrals made for non-DR lesions within reported time period<sup>39</sup></li> <li>i) Number of urgent referrals made for non-DR lesions within reported time period<sup>40</sup></li> <li>j) Number of patients <u>excluded</u> whilst in <u>SLBS</u> pathway within reported time period.</li> </ul>	This section describes patient numbers into the various components of the screening service (RDS, HES, DS) during the reported time period and will be a useful summary for commissioners.
10. Outcomes from Digital Surveillance (DS) <sup>41</sup>		

<sup>39</sup> For further information on non-DR referrals please refer to the document 'Operational Guidance for Feature Based Grading Forms in NHS Diabetic Eye Screening Programme'.

<sup>40</sup> *ibid*

<sup>41</sup> Note that this section should be used to report Digital Surveillance assessments which form part of the DESP screening process.



<b>10.1.1.. Digital surveillance patients</b>	Total number of patients within the <u>DS</u> pathway on the final day of the reported time period.	
<b>10.1.1.1. Digital surveillance patients by category</b>	Total number of patients within the <u>DS</u> pathway on the final day of the reported time period [10.1.1] according to category: a) Pregnant b) Maculopathy (R1M1, R2M1, R3SM1) c) Pre-proliferative, no maculopathy (R2M0) d) Stable proliferative (R3SM0) e) Other	
<b>10.1.2. Digital surveillance assessments</b>	a) Number of <u>DS</u> assessments carried out during the reported time period. b) Number of patients who have attended a <u>DS</u> event during the reported time period.	
<b>10.1.3. New <u>DS</u> referrals</b>	Number of patients referred into <u>DS</u> within the reported time period. <sup>42</sup>	
<b>10.1.3.1 New <u>DS</u> referrals by category</b>	Number of patients referred into <u>DS</u> within the reported time period [10.1.3] referred according to category: a) Pregnant b) Maculopathy (R1M, R2M1, R3SM1) c) Pre-proliferative, no maculopathy (R2M0/ <del>R2M1</del> ) d) Stable proliferative <del>R3</del> (R3SM0/ <del>R3sM1</del> ) e) Other	
<b>10.2. Digital surveillance assessment by grade:]</b>	[The aggregate outcomes within each grading category should relate to <u>DS</u> screening encounters that take place within the reported time period. The category should represent the final grading outcome for the eye for which action is most urgently required. <sup>43</sup> ]	
<b>10.2.1. Grade: R0M0</b>	Number of patients, according to [10.2] above, with a final grading outcome of 'R0 No retinopathy, M0 No maculopathy'.	

<sup>42</sup> Each referral counted separately; if a patient referred >1 in reporting period, this would count as >1 within this reporting measure. This should be measured from the data at which the patient status was changed on the screening programme register to 'suspended – DS'.

<sup>43</sup> The agreed hierarchy for 'eye for which action is most urgently required' is given in Appendix C

<b>10.2.2. Grade: R1M0</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R1 Background retinopathy, M0 No maculopathy'.	
<b>10.2.3. Grade: R1M1</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R1 Background retinopathy, M1 Maculopathy'.	
<b>10.2.4. Grade: R2M0</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R2 Pre-proliferative retinopathy, M0 No maculopathy'.	
<b>10.2.5. Grade: R2M1</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R2 Pre-proliferative retinopathy, M1 Maculopathy'.	
<b>10.2.6 Grade: R3SM0</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R3S - Stable Proliferative retinopathy, M0 No maculopathy'.	
<b>10.2.7 Grade: R3SM1</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R3S - Stable Proliferative retinopathy, M1 Maculopathy'.	
<b>10.2.8. Grade: R3AM0</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R3A - Active Proliferative retinopathy, M0 No maculopathy'.	
<b>10.2.9 Grade: R3AM1</b>	Number of patients, according to [10.2] above, with a <u>final grading outcome</u> of 'R3A - Active Proliferative retinopathy, M1 Maculopathy'.	
<b>10.2.10. Grade: U</b>	Number of patients, according to [10.2] above, deemed <u>ungradable following digital surveillance examination</u> .	
<b>[10.3 DS Outcomes by Action]</b>	[This section should relate to patients for which completed <u>actionable outcomes</u> were assigned during the reported time period. Therefore this section will relate to some <u>DS events</u> that occurred outside of the reported time period.]	
<b>10.3. DS Outcomes by Action</b>	<ul style="list-style-type: none"> <li>a) Number of patients retained in <u>DS</u> pathway, no referral to <u>HES</u> or <u>SLBS</u> required, patient not returned to <u>RDS</u>.</li> <li>b) <b>Number of patients retained in <u>DS</u> pathway for 1 month recall.</b></li> </ul>	This section describes patient numbers into the various components of the screening service (RDS, HES, SLBS) during the reported time period and will be a useful summary for commissioners.

- c) Number of patients retained in DS pathway for 2 month recall.
- d) Number of patients retained in DS pathway for 3 month recall.
- e) Number of patients retained in DS pathway for 4 month recall.
- f) Number of patients retained in DS pathway for 5 month recall.
- g) Number of patients retained in DS pathway for 6 month recall.
- h) Number of patients retained in DS pathway for 7 month recall.
- i) Number of patients retained in DS pathway for 8 month recall.
- j) Number of patients retained in DS pathway for 9 month recall.
- k) Number of patients retained in DS pathway for 10 month recall.
- l) Number of patients retained in DS pathway for 11 month recall.
- m) Number of patients retained in DS pathway for 12 month recall.
- n) Number of patients returned to RDS annual recall within reported time period.
- o) Number of patients referred to SLBS within reported time period
- p) Number of routine DR referrals made to HES within reported time period.
- q) Number of urgent DR referrals made to HES within reported time period.
- r) Number of routine referrals made for non-DR lesions within reported time period<sup>44</sup>
- s) Number of urgent referrals made for non-DR lesions within reported time period<sup>45</sup>

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<sup>44</sup> For further information on non-DR referrals please refer to the document 'Operational Guidance for Feature Based Grading Forms in NHS Diabetic Eye Screening Programme'.

<sup>45</sup> *ibid*

	t) Number of patients excluded from the DS pathway within reported time period.	
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## Section 2 – Definitions

Definition	Explanation
<b>actionable outcome</b>	See <u>actionable referral outcome grade</u>
<b>actionable referral outcome grade</b>	The referral outcome (as opposed to the grading outcome) that determines the next step in the screening and treatment pathway for the patient once their imagesets have been graded.
<b>certifications of severe/sight impairment</b>	evidenced by data from CVI certificate (or equivalent) from hospital ophthalmology department for better seeing eye
<b>communication</b>	an interchange that the patient is capable of understanding and acting upon
<b>consultation</b>	attendance at a hospital eye service for assessment of retinopathy and/or maculopathy
<b>current patients</b>	those <u>eligible</u> but not <u>excluded</u> for screening by this programme
<b>digital surveillance</b>	The pathway under which patients are managed between <u>RDS</u> and referral to <u>HES</u> , where more frequent or specialised supervision is required, but referral to <u>HES</u> is not yet indicated.
<b>digital surveillance event</b>	Patient attendance for a <u>digital surveillance appointment</u>
<b>DNA</b>	Did not attend (applies to appointments where a fixed date was assigned).
<b>DNR</b>	Did not respond. Applies to open or partial invitations where the patient is required to contact the screening provider to arrange a fixed appointment date.
<b>DS</b>	See <u>digital surveillance</u>
<b>eligible</b>	on the programme <u>register</u> and either <u>excluded</u> , <u>suspended</u> or under <u>routine digital screening</u>
<b>exception</b>	When a digital image cannot be taken due to e.g. technical failure, operator error or administration discrepancies.
<b>excluded</b>	Patients who are on the <u>register</u> and <u>eligible</u> for screening but not <u>invited</u> due to having opted-out of screening or being classed as medically unfit

<b>final grading outcome</b>	following internal quality assurance procedures, the assessment of a level of diabetic retinopathy from the evidence as presented
<b>first invitation</b>	when the patient has not been previously invited since being added to the screening programme register.
<b>first laser treatment</b>	the date at which laser treatment for diabetic retinopathy was first carried out following <u>listing</u>
<b>first RDS event</b>	when the patient has not previously attended a <u>RDS event</u> , since being added to the screening programme <u>register</u>
<b>first screening</b>	See first <u>RDS event</u>
<b>first visit</b>	an appointment with a specialist directly resulting from a referral from a screening service
<b>full grading</b>	a determination by a grader of the level of diabetic retinopathy
<b>HES</b>	Hospital Eye Service
<b>imageset</b>	the set of images which are captured for a single patient during screening. Usually, a patient imageset consists of four images – one macular and one nasal for each eye.
<b>ineligible</b>	Patients who are on the <u>register</u> but are not <u>eligible</u> for screening due to having no perception of light in both eyes.
<b>invitation</b>	See <u>invited</u> . Must be a realisable appointment within three months of invitation being sent
<b>invited</b>	formal <u>communication</u> made by the screening service for a <u>routine digital screening event</u> to take place within the reported time period
<b>listed</b>	the date at which a decision to treat by laser was recorded by the specialist
<b>off-register</b>	Patients who are not on the screening programme <u>register</u> due to being categorised as either; deceased, moved out of area, not diabetic, under 12, seen in another programme or refused demographic transfer.
<b>participation</b>	any GP practice with which <u>eligible</u> patients of this programme are registered
<b>positive test</b>	any disease outcome <b>relating to diabetic retinopathy</b> (i.e. presence of retinopathy and/or maculopathy, or ungradeable
<b>predominantly</b>	'the major cause', as determined by the ophthalmologist
<b>RDS</b>	See <u>routine digital screening</u>
<b>referred</b>	an appropriate referral request was made
<b>register</b>	collated list of patients under this screening programme who are either <u>eligible</u> or <u>ineligible</u> for screening.

<b>result letter notifications</b>	an appropriate indication to an entitled party (minimum of patient and patient's GP), being issued/printed of: a. the date at which the patient was screened b. the final outcome of grading the patient imagesets c. the action recommended
<b>routine digital screening</b>	the first stage of the patient screening pathway where digital images are obtained, graded and a referral outcome is decided.
<b>routine digital screening encounter</b>	patient attendance for <u>RDS</u> where images were obtained
<b>routine digital screening event</b>	see <u>routine digital screening encounter</u>
<b>SLBS</b>	See <u>slit lamp biomicroscopy surveillance</u>
<b>slit lamp biomicroscopy surveillance</b>	The pathway under which patients are managed following <u>RDS</u> , where patients for whom adequate retinal examination cannot be obtained by retinal photography, are examined by <u>SLB</u> .
<b>slit lamp biomicroscopy surveillance event</b>	Patient attendance for a <u>SLBS</u> appointment
<b>surveillance</b>	See <u>digital surveillance</u> and <u>slit lamp biomicroscopy surveillance</u>
<b>suspended</b>	Patients who are on the <u>register</u> and <u>eligible</u> for screening but not <u>invited</u> for <u>RDS</u> due to receiving screening in either <u>HES</u> , <u>DR</u> or <u>SLBS</u> .

# Appendices

## Appendix A – Patient register

Please refer to 'Diabetic Eye Screening Programme Cohort Management Overview' document.

## Appendix B – Calculating 'appointments due to take place within reported time period' [3.2.b] when using open invitations

As each open invitation is generated, this will count as being due to take place 3 months (89 calendar days\*) from the date generated, until one of the following occurs:

- 1) Patient contacts programme centre to make appointment → appointment is now counted as due on the new appointment date
- 2) Patient DNR by 89 calendar days → appointment continues to be counted as due to take place 89 calendar days from the date generated

\*365 days per year, minus 8 public holidays equals 29.8 days per month, which approximates to 89 days in 3 months.



## Appendix C - Hierarchy of grades with their inferred outcomes

Grade	Inferred Outcome
R3aM1	Urgent Refer - Treatable
R3aM0	
R3sM1	Refer - Treatable
R2M1	
R1M1	
R2M0	Refer – Not Treatable
U	Refer – Further Investigation
R3sM0	Not Referable
R1M0	
R0M0	

**Table C.** Hierarchy of grades with their inferred outcomes. The agreed hierarchy for 'eye for which action is most urgently required' is R3aM1 > R3aM0 > R3sM1 > R2M1 > R1M1 > R2M0 > U > R3sM0 > R1M0 > R0M0

## Appendix D - Referral Outcome Grader Performance Monitoring Report

All grade stages should have a calculated “inferred” outcome based on the table in Appendix A above. E.g. if primary grade is R3M0, the inferred outcome is Urgent Referral. This will allow comparison based on outcomes for each patient as well as grade comparisons. This report should be generated for the annual report submission, but also be available to be run at any time covering a programme specified time period, for the purpose of resource planning.

The following tables should be generated, for all ROG grades within the reported time period, for:

1. Each individual ROG grader, and:
2. Aggregated activity for all ROG graders in a single table

Inferred Outcomes	Total	Percentage of Total
Not Referable	A	
Ungradable	B	
Referable not Treatable	C	
Total Referable not Treatable	B+C	
Referable Treatable	D	
Urgent Referable	E	
Total Referable	D+E	

Table D.1. Total and percentage inferred outcomes of ROG

ROG Actual Outcomes	Total	Percentage of Total
Not Referred	A	
Ungradable Referred SLB	B	
Referred to Digital Surveillance	C	
Total Referred Surveillance	B+C	
Referred	D	
Urgent Referred	E	
Total Referred	D+E	
Referred Other Non DR lesions		
Urgent Referral for Non DR		

No of Patients Excluded		
-------------------------	--	--

Table D.2. Total and percentage actual outcomes of ROG

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## Appendix E - Revised Content in Grader Activity report and Arbitration reports

The following table should be generated relating to all full grading carried out within the reported time period showing activity for all graders, in the following formats:

1. Showing grader identification for internal programme use
2. Pseudonymised for DESP EQA use

A	B	C	D	E	F	G	H	J	I
Grader Id	Grader status	No Of Sessions	Imagesets Graded	Ave N per session	Max No Per Session	Ave time mins per Imageset	%U	%Ref	%Agree With Final
X53	Primary		2567	137		4.2			
X53	Secondary								
X217	ROG		459			5.3			

Table E. Grader activity and arbitration table

D= Number of imagesets full graded by each grader during the reported time period

E= Average number of imagesets graded per grading session

F= Maximum number of imagesets graded per grading session

G= Average time taken to grade an imageset in minutes

**Arbitration report.** This is already available in a number of softwares and is a table of agreement /disagreement between the grader and the arbitration grade stage and which is presented as a truth table with hyperlinked drill down so that cases of disagreement can be inspected to allow a detailed feedback to the grader of the actual cases involved. The report should be selectable to run from date to date and for an individual grader and grade stage.

## Appendix F - Updated Inter Grader Agreement specifications

### For general report sections 5.2, 5.3

[Please note the tables for sections 1.a, 2.a and 3.a have been replaced with a more comprehensive 3-section table, the requirement for the bar charts in sections 1.e, 1.f, 2.c, 2.d, 3.b and 3.c has been removed, and where relevant all tables have been updated to reflect the new R3a/R3s grade.]

National grading protocols advise that most imagesets (all those with any disease and at least 10% of those with no disease) should be examined by at least two independent graders, neither having knowledge of the grade suggested by the other. Where programmes are of sufficient size (over 12,000 people with diabetes), it is therefore possible to gain some understanding of grader performance by comparing full grading outcomes across graders who have examined the same images. A high level of agreement will indicate that graders are working consistently, whereas large numbers of discrepancies could indicate a problem with the performance or training of a particular grader.

In time, providing programmes are using software that records comparable data based on the Diabetic Retinopathy Screening Dataset (supplemented by the Quality Assurance Standards and Performance Objectives and the related definitions and explanatory notes), it will be possible to compare local inter-grader performance with national trends.

It is important to recognise that inter-grader agreement is a measure of consistency of grading but not necessarily of objective high standard. In order to ensure a consistently high standard of grading, it is necessary to supplement this method with standardised accreditation (for all of the workforce in every programme) and external quality assurance using gold-standard test imagesets and expert assessment.

### Explanation

Inter-grader agreement is measured on patient imagesets which have been seen by the grader being evaluated and at least one other grader. Imagesets graded anything other than R0 should be examined by at least two graders, as should at least 10% of imagesets graded R0.

The tables below show only imagesets for which a final grading outcome has been determined and relates to screening episodes (as opposed to grading completion) which occurred during the reporting period. A grading outcome may relate to a first full grade or second full grade by the grader in question.

### Report format

For ease of analysis, it is required that the inter-grader agreement report be exportable either directly to EARS or to Microsoft Excel in the format specified below. An option should be provided to identify each grader for internal quality assurance and where possible each grader listed in section 5.1 should be included, with the same grader ID.

The row and column content/formats in the configuration specified above must be used. One worksheet (Excel) or section (EARS) should be used per grading type (in the order: primary, secondary and arbitration). Where Excel is used directly (for programmes using any other type of software) the tables above must be produced twice – once including the percentage rows and once excluding them, as per the attachment below.

EARS must allow the column and row headers and the numbers (not the percentages) to be either exported to Excel, (and for the worksheet to contain no merged cells and one header row as specified).

### **A) Report summary**

**The required grading accuracy and inter-grader agreement outputs for sections 5.2 and 5.3 of the annual reports are summarised below, and are best produced as either a pdf or Word document.**

1. For graders performing primary grading, relating only to those imagesets they have primary graded:
  - a. One table (that is exportable to Excel, with the row and column content/formats in the configuration specified in B.1. below) per pseudo-anonymised grader showing a breakdown of primary grades (in RxMx format), with percentage of each grade and totals of both numbers and percentages.
  - b. One agreement table per pseudo-anonymised grader showing the level of agreement between the primary grader and the final grade, including total agreements, proportion agreements and Cohen's Kappa.
  - c. One two-way table per pseudo-anonymised grader displaying, for the worst eye, agreement between their primary retinopathy grade and the final retinopathy grade, total number of agreements and Cohen's Kappa.
  - d. One two-way table per pseudo-anonymised grader displaying, for the worst eye, agreement between their primary maculopathy grade and the final maculopathy grade, total number of agreements and Cohen's Kappa.
2. For graders performing secondary grading, relating only to those imagesets they have secondary graded:
  - a. One table (that is exportable to Excel, with the row and column content/formats in the configuration specified in B.1. below) per pseudo-anonymised grader showing a breakdown of secondary grades (in RxMx format), with percentage of each grade and totals of both numbers and percentages.
  - b. One agreement table per pseudo-anonymised grader showing the level of agreement between the secondary grader and the final grade, including total agreements, proportion agreements and Cohen's Kappa.
3. For graders performing arbitration grading, relating only to those imagesets they have arbitrated:
  - a. One table (that is exportable to Excel, with the row and column content/formats in the configuration specified in B.1. below) per pseudo-anonymised grader showing a breakdown of arbitration grades (in RxMx format), with percentage of each grade and totals of both numbers and percentages.

4. An additional table should be provided in the annual report of worst R value and worst M value per eye. Plus % i.e. Retinopathy per eye at final grade

	R0	R1	R3S	R2	R3A	M0	M1	U	Total
N									
%									

Table F.1.

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**B) Report description and examples:**

Required formats and examples of data for each output described are:

Table a.:

**Summary of grader results**

Summary Table of all graders (Section 1)

ID	Level	Sets Graded	U	R0	R1M0	R3sM0	R1M1	R3sM1	R2M0	R2M1	R3aM0	R3aM1
12	Primary	K1	A	B	C	D	E	F	G	H	I	J
	%		A / K1%	B / X%	C / X%	D / X%	E / X%	F / X%	G / X%	H / X%	I / X%	J / X%
13	Primary	K2										
	%											
26	Primary	K3										
	%											
13	Secondary	K4										
	%											
26	Secondary											
	%											
26	Arbitration											
	%											
205	Arbitration											
	%											
etc												

Kn = SUM (An:Jn)

X = All Assessable SUM( B:J)

Summary Table of all Graders (section 2)



ID	Level	Unassessable	Any DR	Referable	Referable	Fast Track R3a	Fast Track R3a	Maculopathy
		of all sets graded	Of assessable image sets	of assessable image sets	of assessable image sets with DR	of assessable image sets	of assessable image sets with DR	of assessable image sets with DR
12	Primary	L	M	N	O	P	Q	R
13	Primary							
26	Primary							
13	Secondary							
26	Secondary							
26	Arbitration							
205	Arbitration							

Cell Calculations

$$L_n = A_n / \text{SUM}(A_n:J_n)$$

$$M_n = \text{SUM}(C_n:J_n) / \text{SUM}(B_n:J_n)$$

$$N_n = M_n = \text{SUM}(E_n:J_n) / \text{SUM}(B_n:J_n)$$

$$O_n = \text{SUM}(E_n:J_n) / \text{SUM}(C_n:J_n)$$

$$P_n = (I_n+J_n) / \text{SUM}(B_n:J_n)$$

$$Q_n = (I_n+J_n) / \text{SUM}(C_n:J_n)$$

$$R_n = (E+F+H+J) / \text{SUM}(C_n:J_n)$$

Summary Table All Graders Section 3

Grader identifier	Level of grading	Cohen's Kappa statistic vs final grade over 8 grading outcomes	Cohen's Kappa statistic vs final grade over R grades	Cohen's Kappa statistic vs final grades over M grades

12	Primary	From 2 way tables all grades	From 2 way table retinopathy	From 2 way table maculopathy
34	Primary	<b>S</b>	<b>T</b>	<b>U</b>
56	Primary			
12	Secondary			
56	Secondary			
36	Arbitration			
56	Arbitration			

Calculating proportion graded imagesets with any DR:

This calculation is modified in this release by the addition of new R3/S Grade  
 Any Retinopathy = (R1M0+R3SM0 + R1M1 +R3SM1+ R2M0 + R2M1 + R3AM0 + R3AM1)  
 Proportion with any DR = (Any Retinopathy / R0 + Any Retinopathy)\*100

Table b:

Total agreement: 656/857  
 Proportion agreement: 76.50%  
 Cohen's Kappa: 0.603  
 Confidence interval: 0.47 to 0.71

Primary	Arbitration grader >>										
	R0M0	R1M0	R3sM0	R1M1	R3sM1	R2M0	R2M1	R3AM0	R3AM1	U	Total
R0M0	254	87	0	2	0	0	1	6	0	0	350
R1M0	24	369	1	4	0	2	0	0	0	0	400
R3sM0	0	0	0	0	0	0	0	0	0	0	0
R1M1	0	16	0	8	0	1	0	1	0	0	26
R3sM1	1	2	2	0	0	3	1	0	0	0	9
R2M0	1	16	0	1	0	4	0	0	0	0	22
R2M1	0	0	0	0	0	0	0	0	0	0	0
R3AM0	1	14	0	0	0	0	1	21	0	0	37
R3AM1	1	3	0	0	0	0	0	0	0	0	4
U	9	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	291	507	3	15	0	10	3	28	0	0	857

**Comments for table b:**

**Updates to this version:**

Table b is replaced in this release by a larger table accommodating new R3A/S Grades and removing "Other"

As before the table is accompanied by cells reporting the kappa values and confidence intervals

**Description:**

This report shows the level of agreement between a Grader (could be primary or secondary or arbitration), and the final grade. The 'final' grade can be at either Secondary, Arbitration or ROG grading, as appropriate. Where the ROG grader doubles as the arbitration grader the system should not take account of that grade stage in these tables.

The grading recorded by the Primary Grader is shown along the top (the horizontal X axis) and the final grade is shown on the left (the vertical Y axis). The name of the Primary Grader is not shown, and a pseudo-anonymised grader number (e.g. Grader1) is shown instead.

Where the numbers appear, this shows the intersection between the Primary Grader, and the final grade. In the example above the Primary Grader allocated R0 to 291 imagesets, 254 of which had a final grade of R0, hence agreed. Of those allocated to R0 by the Primary Grader which did not get a final grade of R0, 24 were allocated R1M0, 1 to R2M0, 1 to R3SM1, 1 to R3AM0, 1 to R3AM1, and 9 were unassessable

- The areas highlighted in blue are where the Primary Grader final has recorded a more serious level of pathology than the final grade;
- The areas highlighted in red are where the Primary Grader final has recorded a level of pathology lower than the final grade; and
- The areas highlighted in green are where the Primary Grader and the final grade agree.

If there was perfect agreement between the Primary Grader and the final grade, then all the numbers would be on the diagonal (green background).

A summary count of the total ratio of agreement (Total agreement) is given, and this expressed as a percentage (Proportion agreement). Row and column counts and totals are also included in the grid.

Also included in the report above is a value for Cohen's Kappa. This is a weighted value for the agreement between the grader and the final grade, and is primarily useful in aiding statistical analysis at a national level. (A value of 0 (zero) would imply that the data agreed no better than if the grader allocated grades at random, and a value of 1 implies that there is perfect agreement. Higher values imply better agreement, values above 0.8 may be considered to be excellent, but the value cannot be considered in isolation, and a value of 0.8 would not indicate good performance if all the disagreements are where the grader allocates a non referable level and the final grader is R3)

Table c:

for those photosets where primary grading is regraded

		Grader A→						
Final Grade ↓		R0	R1	R3s	R2	U	other	Total
R0		84	10	6	8	5	0	113
R1		8	594	0	5	16	5	628
R3s		0	18	6	3	21	3	51
R2		2	31	17	48	20	0	118
U		0	9	0	0	16	1	26
other	other	4	0	0	7	0	0	11
Cohen's Kappa	0.xxx	weighted kappa		0.tt				
95% CI	(0.zzz to 0.yyy)	95% CI		(0.zzz to 0.yyy)				

### Updates to this version:

Table c is replaced in this release by a larger table accommodating new R3/S Grades

Cell R3S is inserted between R1 and R2 in both rows and columns

The column and row for "Other" is removed

The intersecting cells are colour formatted as above:-

- where a non referable is overgraded to referable the intersect colour is blue
- Where a referable is undergraded the intersect colour is pink.

As before the table is accompanied by cells reporting the kappa values and confidence intervals

Table d:

Final Grade ↓	Grader A →			Total
	M0	M1	U	
<b>M0</b>	613	73	45	731
<b>M1</b>	55	99	17	171
<b>U</b>	2	7	16	25
<b>other</b>	11	0	0	11
<b>Total</b>	681	179	78	938
Cohen's Kappa	0.xxx	weighted kappa		0.tt
95% CI	(0.zzz to 0.yyy)	95% CI		(0.zzz to 0.yyy)

**Updates to this version:**

In this table the Row "Other" is no longer required.

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### C) Report calculations:

This section illustrates the Kappa calculation for Modified Table b

The first part of the table here shows the cell references (blue) and the second part has some example actual values (green) – these are used in the illustrative calculation (grey) below to show how the Kappa value is derived.

The same calculation method is used for tables c and d

The three tables in this appendix should be available to be run between given dates for the programme. In providing the annual report the summary table in appendix F should be used to show the three Kappa values from this section.

		Grader grade®										
<b>Grader 34</b>	<b>CALC S for summary table</b>	Unassessable	R0	R1M0	R1M1	R2M0	R2M1	R3sM0	R3sM1	R3aM0	R3aM1	
Final grade <sup>-</sup>	Unassessable	n11	n12	n13	n14	n15	n16	n17	n18	n19	n20	T1
	R0	n21	n22	n23	n24	n25	n26	n27	n28	n29	n30	T2
	R1M0	n31	n32	n33	n34	n35	n36	n37	n38	n39	n40	T3
	R1M1	n41	n42	n43	n44	n45	n46	n47	n48	n49	n50	T4
	R2M0	n51	n52	n53	n54	n55	n56	n57	n58	n59	n60	T5
	R2M1	n61	n62	n63	n64	n65	n66	n67	n68	n69	n70	T6
	R3sM0	n71	n72	n73	n74	n75	n76	n77	n78	n79	n80	T7
	R3sM1	n81	n82	n83	n84	n85	n86	n87	n88	n89	n90	T8
	R3aM0	n91	n92	n93	n94	n95	n96	n97	n98	n99	n100	T9
	R3aM1	n101	n102	n103	n104	n105	n106	n107	n108	n109	n110	T10
		V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	Total

Grader 34 example values	Calc Cell S Value	Grader grade®										
		Unassessable	R0	R1M0	R1M1	R2M0	R2M1	R3sM0	R3sM1	R3aM0	R3aM1	
Final grade <sup>-</sup>	Unassessable	30	0	0	0	0	0	0	0	0	0	30
	R0	0	10	0	0	0	0	0	0	0	0	10
	R1M0	0	0	52	0	0	0	0	0	0	0	52
	R1M1	0	0	0	520	0	0	0	0	0	0	520
	R2M0	0	0	0	0	98	0	0	0	0	0	98
	R2M1	0	0	0	0	0	1	0	0	0	0	1
	R3sM0	0	0	0	0	0	0	1	0	0	0	1
	R3sM1	0	0	0	0	0	0	0	8	0	0	8
	R3aM0	0	0	0	0	0	0	0	0	3	0	3
	R3aM1	0	0	0	0	0	0	0	0	0	5	5
		30	10	52	520	98	1	1	8	3	5	728

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to calculate Cohen's kappa need proportion of agreements	number of image sets that agree	$n_{11}+n_{22}+n_{33}+n_{44}+n_{55}+n_{66}+n_{77}+n_{88}+n_{99}+n_{110}$
	Proportion that agree	$(n_{11}+n_{22}+n_{33}+n_{44}+n_{55}+n_{66}+n_{77}+n_{88}+n_{99}+n_{110})/\text{Total}$
Expected agreements	$T_1*V_1/(\text{total}*\text{total})+$	0.001698164
	$T_2*V_2/(\text{total}*\text{total})+$	0.000188685
	$T_3*V_3/(\text{total}*\text{total})+$	0.005102041
	$T_4*V_4/(\text{total}*\text{total})+$	0.510204082
	$T_5*V_5/(\text{total}*\text{total})+$	0.018121302
	$T_6*V_6/(\text{total}*\text{total})+$	1.88685E-06
	$T_7*V_7/(\text{total}*\text{total})+$	1.88685E-06
	$T_8*V_8/(\text{total}*\text{total})+$	0.000120758
	$T_9*V_9/(\text{total}*\text{total})+$	1.69816E-05
	$T_{10}*V_{10}/(\text{total}*\text{total})$	4.71712E-05
Expected total proportion agreements	sum of above	0.535502959
Proportion agreements (sum diagonals/total)	$\text{SUM}(B_{19},C_{20},D_{21},E_{22},F_{23},G_{24},H_{25},I_{26},J_{27},K_{28})/L_{29}$	1
(proportion that agree-expected agreements)/	0.464497041	

(1-expected  
agreements)

0.464497041

Kappa =  $\frac{\text{propn that agree-expected}}{1-\text{expected}}$   
 $= \frac{0.464}{0.464}$

**1**

Kappa values from the table All retinopathy = Value S

Kappa values from the table R Values = Value T

Kappa values from the table M Values = Value U

These values are transferred to the summary report of grader performance in appendix F

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## Appendix G - Grading Queue Aging report

This report is intended to be used by programmes to help them manage their grading queues, and will not be required as part of the annual report submission.

The report should present number of image sets within each grading queue, categorised by the length of time the imagesets have been awaiting grading at each level from the date of screening event. Each number should have hyperlinked drill-down to see the details of each patient represented within the report.

This report should be produced separately for both routine digital screen image sets and digital surveillance image sets.

An example table is shown below:

### **Table G**

**Name of**

**DESP:**

**Date of report: Monday, 23rd**

**April**

<b>Grading Queue</b>	<b>0-2 days*</b>	<b>3-5 days*</b>	<b>6-10 days*</b>	<b>11-14 days*</b>	<b>16 - 21 days*</b>	<b>22-28 days*</b>	<b>29 + days*</b>	<b>Totals</b>
<b>Primary</b>	35	19	11	7	5	0	1	<b>78</b>
<b>Secondary</b>	3	15	22	9	3	7	0	<b>59</b>
<b>Arbitration</b>	0	8	15	7	3	1	0	<b>34</b>
<b>ROG</b>	6	2	1	0	0	0	0	<b>9</b>
<b>Totals</b>	<b>44</b>	<b>44</b>	<b>49</b>	<b>23</b>	<b>11</b>	<b>8</b>	<b>1</b>	<b>180</b>

*\*Days indicate days since date of photography - show total time within grading process.*

*Additional functionality would allow drill down within any box to show patients who are within each queue and timeframe.*

## Appendix H – DS appointment aging report

This report is intended to be used by programmes to help them manage their surveillance pathway queues, and will not be required as part of the annual report submission.

The report should present, in percentage format, the days past which attendance at SLBS or DS was scheduled to take place. This will apply to patients who are already under the SLBS or DS pathway and therefore have attended at least one DS or SLBS encounter and been assigned an outcome from that assessment (e.g. DS review in 3 months). This report should not include patients who have been assigned an outcome of 'refer back to routine digital screening' as these patients will no longer form part of the surveillance pathways.

In all cases the start point (scheduled recall date) will be outcome assigned from DS or SLBS, and the end point will be patient attendance at assigned outcome.

Numerator = at the date the report is run, the total number of days past the scheduled recall date

Denominator = days between previous surveillance event and scheduled recall date

Each number should have hyperlinked drill-down to see the details of each patient represented within the report.

An example table is shown below:

**Table H**

**Name of DESP - Surveillance Aging Report**

**Date of report: Monday, 23rd April**

Surveillance pathway	0-75%	76-100%	101-125%	126-150%	151-200%	200+%	Totals
SLB	20	10	10	5	0	5	50
OPDR	15	20	10	5	5	0	55
<b>Totals</b>	<b>35</b>	<b>30</b>	<b>20</b>	<b>10</b>	<b>5</b>	<b>5</b>	<b>105</b>

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