

The English Diabetic Eye Screening Programme

training, accreditation and maintaining grading standards

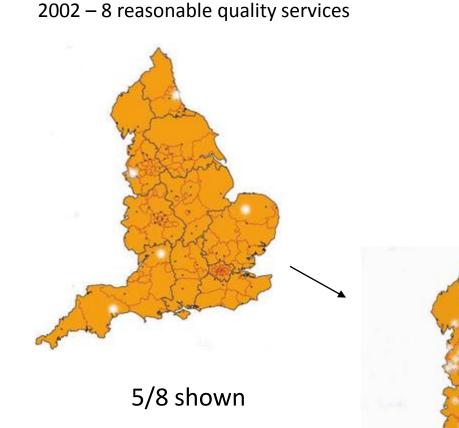
Prof. Peter Scanlon MD FRCOphth FRCP DCH

Programme Director

English National Programme



English National DR Screening Programme



2012

84 centres

2.6 million with diabetes

2.4 million offered

1.9 million actually screened

Increase 121,000 in 12 months

Annual cost approx 90 million US dollars

84

Outcome measure: Presence of lesions that are 2-D photographic markers

Retinopathy progresses with increasing ischaemia

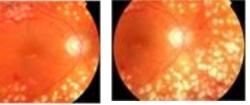
R grade

M grade

Leaks occur in the macular area

The treated patient is more difficult to grade Presence of photocoagulation scars P grade







Current English Programme referrals Screening 1.9 million

- Referred from the English DESP: 7.6%
- 5.6% M1 Macular lesions (not the same as Maculopathy or CSMO.
 100,800 ref in England per annum.
 - Estimates 20 40% = CSMO
- 0.74% R3 proliferative (PDR) 14,000 ref in England per annum
- 1.2% R2 pre-proliferative
- 3.6% ungradable require slit lamp biomicroscopy

Quality Assurance

- 1. Reduce the probability of error and risk
- 2. Ensure that errors are dealt with competently and sensitively
- 3. Help professionals and organisations improve year on year
- 4. Set and keep under review national standards;
- 5. Manage these processes.

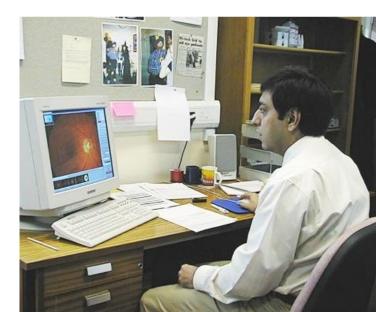


Staff

To ensure that whole screening programme is provided by a trained and competent workforce

1. Staff accreditation

2. Evidence of ongoing CPD and EQA test sets

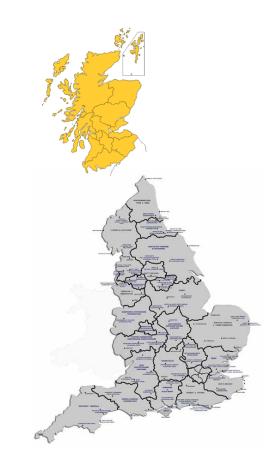


Qualifications in diabetic retinopathy screening

Competence framework National Occupational Standards Qualifications in Diabetic Retinopathy Screening Accreditation / awarded by City & Guilds



- Choice of 5 qualifications (2 Diplomas, 2 Certificates & 1 Award), dependant on candidate's professional role
- 9 modules, mixed selection to create the various qualifications



Standardising the grading of retinopathy

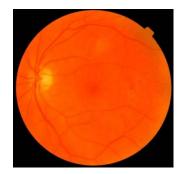
In 2009/10, English DESP introduced:

Monthly QA test sets for all (1500+) graders in 84 local screening sites

Latest version provides 20 image sets per month.

The grading is lesion based it also provides feedback with more of a training element

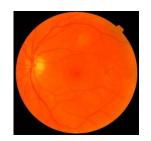
We have approximately 1100 graders per month taking this in the English programme



Accessed via the internet



Accessed via the internet at their own place of work or from home



		Gra	der: 73	4 Blo	ck O			
	RO	R1M0	R1M1	R2M0	R2M1	R3M0	R3M1	
RO	41	5	1	0	0	0	0	
R1M0	3	78	11	2	0	1	1	
R1M1	0	2	38	0	2	0	0	
R2M0	0	5	0	31	0	4	0	
R2M1	0	2	8	0	8	0	0	
R3M0	0	2	0	4	0	17	1	
R3M1	0	0	0	4	3	2	24	
No	ot re	ferre	d:					Exa 235/300

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News and Newsletters	Please enter your username and password below	
Contact Us	Username Password Login »	
Further Information	Please note: If you have forgotten your password, or your details are not recognised, please use the link at the bottom of this screen to reset your password.	
Before you start	you password.	2
	Please read the blog! Last updated : Wednesday July 24th 2013 09:15	
Scheduled System Downtime		
	Reset Your Password Reset Your Password >>	
The system will be closed for 2 hours	Passwords are encrypted on this system	
between 8 p.m. and 10 pm on the first	This means that the administrators are not able to retrieve them for you.	
Wednesday of every month in order to carry	If you have forgotten your password, please click the link above, enter your email address and username, and a new password will be sent to your email address. You may use this to login then you are free to change it to anything you prefer once you have logged in.	
out essential maintenance.	If you cannot remember your username, or you need any other assistance, please contact helpdesk@netsima.co.uk	J

→ ② ▲ http://www.drseqa.org/default.asp P · B C @ drseqa.org × ① ☆ ☆ ③

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Further Information

Before you start

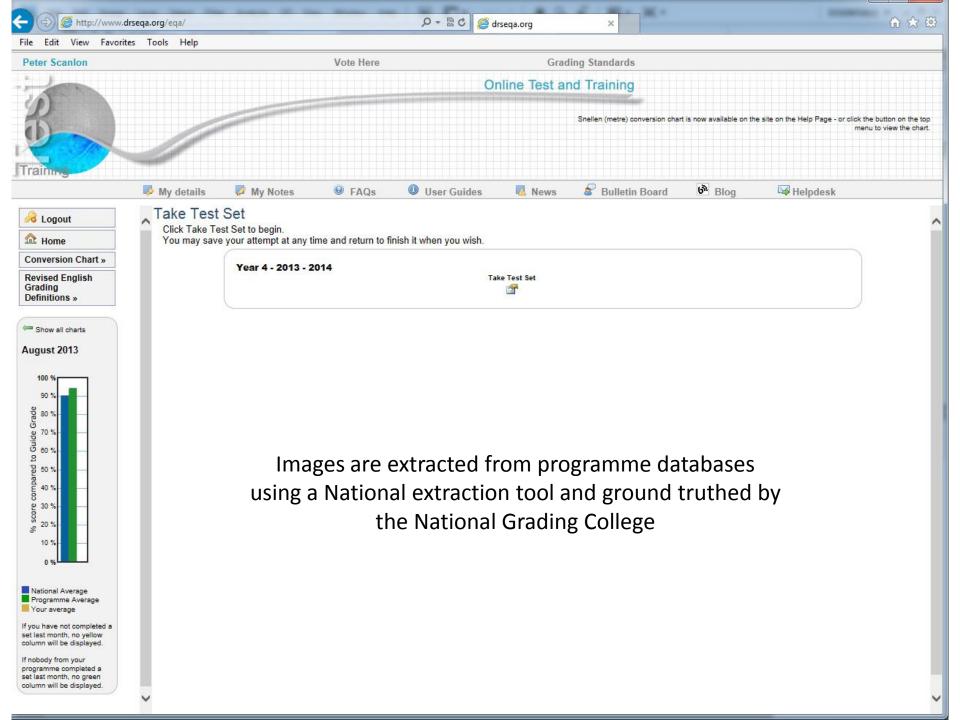
Scheduled System Downtime

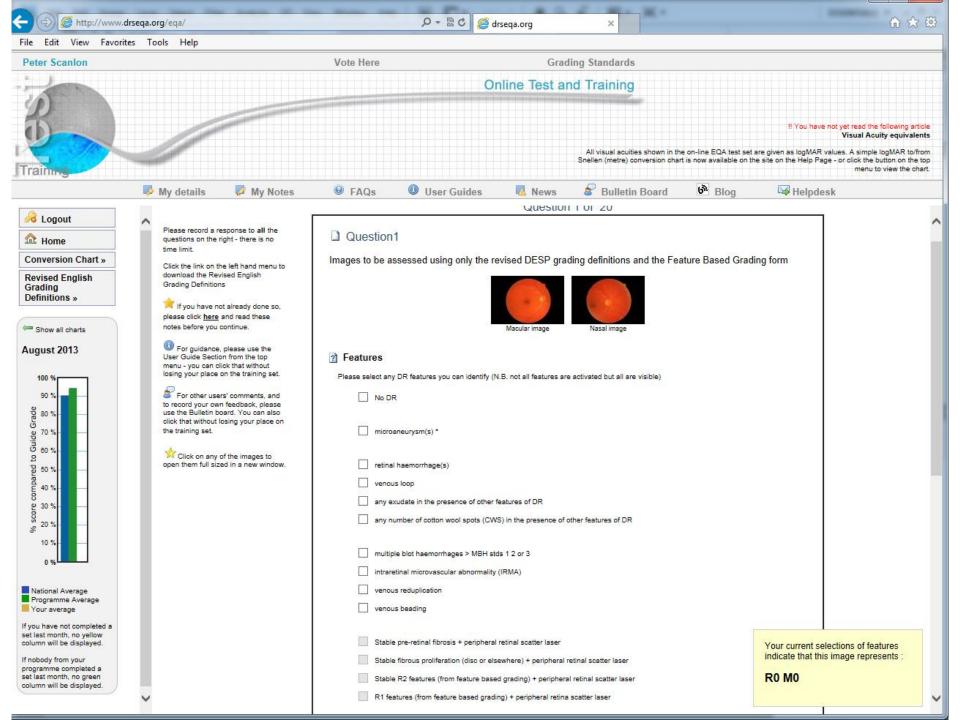
The system will be closed for 2 hours between 8 p.m. and 10 pm on the first Wednesday of every month in order to carry out essential maintenance. lesse select from below

Please select from below the access level under which you would like to be logged in. If the Programme or access level you expected to see is not on this list, please first contact your Manager to check they have registered you to your programme, and confirmed you as a member of your programme.

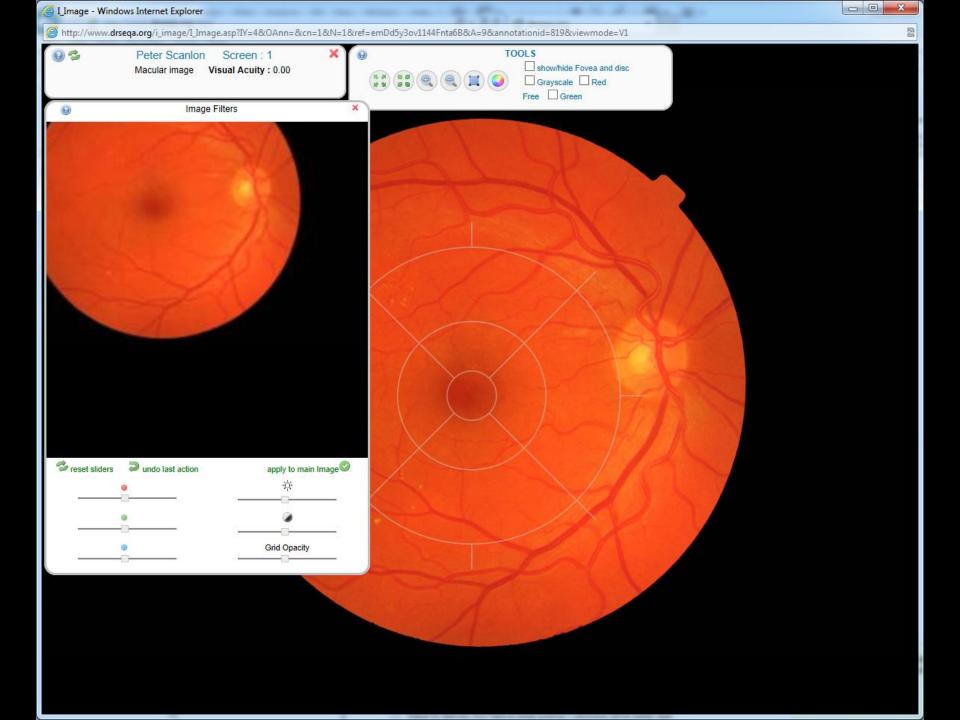
Alternatively, please click here to email the System Administration team for assistance.

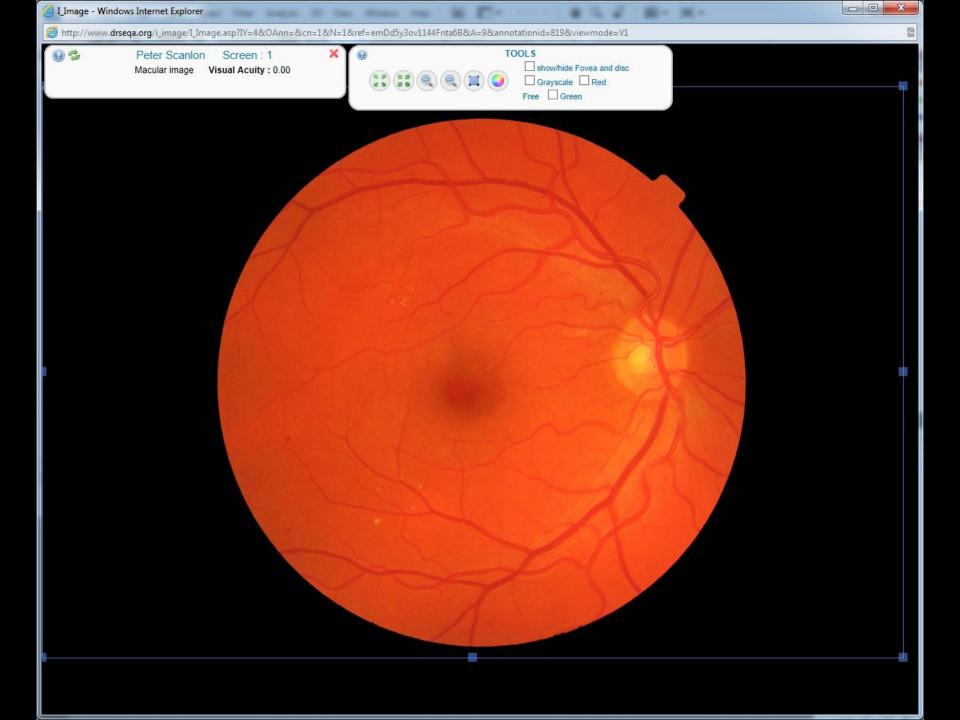
O Full disease grader	
O Arbitration grader	
O Gloucestershire ACL	
O Oxfordshire ACL	





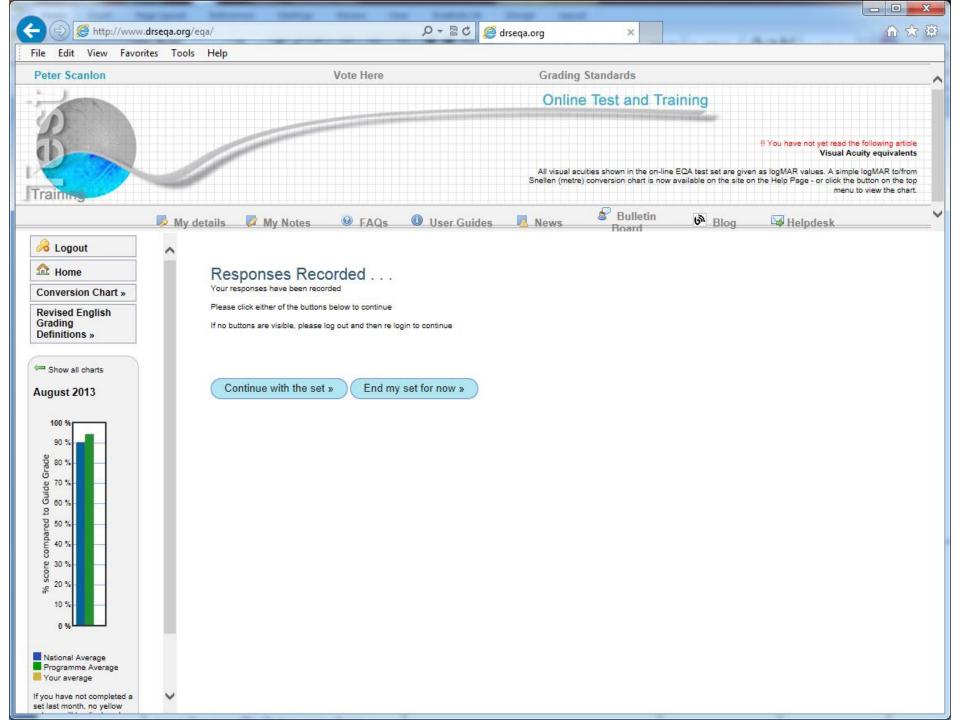
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Peter Scanlon			Vote Here	0	Grad nline Test ar	ding Standards				
-Q						Since start of year 2012-13, all TA	.T cases have been se		t the National Grading Colley agreement by members of the National Grading Colleg	the
Training	My details	🖉 My Notes	9 FAQs	User Guides	News	🗟 Bulletin Board	හි Blog	"You have "	not yet read the following artic sk	icle
Logout Meme Conversion Chart » Revised English Grading Definitions » Show all charts August 2013			R1 fe	etic macular oedema late within 1DD of the centre of th p of exudates >=1/2 DA within the microaneurysm or haemorrhage v VA of <= 6/12 (0.30 logMAR) (If r al thickening within 1DD of the ce widence of previous photocoagula widence of previous photocoagula	ing) + peripheral retina e eye within 1 disc diameter where the cause of the he fovea we macula within 1DD of the centr no stereo) entre of the fovea (if ste lation	a scatter laser (1DD) of the centre of the foves if a reduced vision is known and not re of the foves only if associated with	ha			
Your average If you have not completed a set last month, no yellow column will be displayed. If nobody from your programme completed a set last month, no green column will be displayed.	,			Record m	ny responses »	End my set for now »			lections of features s image represents :	



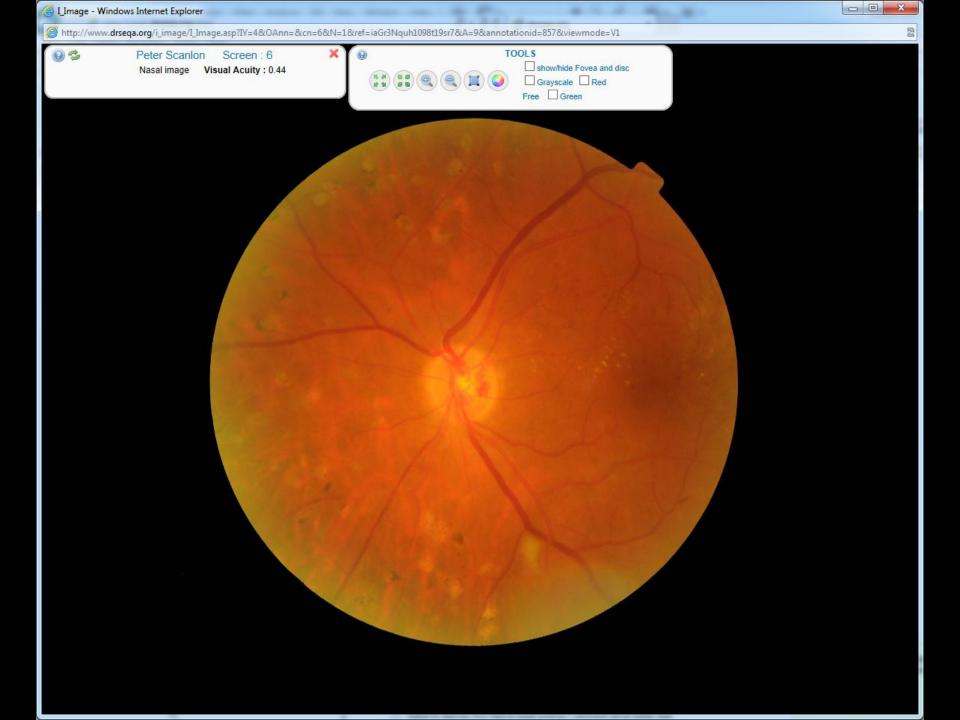




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Peter Scanlon			Vote Here	Or	Grad	ing Standards			
Training								TAT cases an	not yet read the following article d the National Grading College
	🦻 My details	😺 My Notes	9 FAQs	User Guides	🔼 News	🗧 Bulletin Board	හී Blog	🕞 Helpde	sk
Conversion Chart » Conversion Chart » Revised English Grading Definitions » Conversion Charts Revised English Grading Definitions % Conversion Charts Revised English Grading Definitions % Conversion Charts Revised English Grading Definition Charts Revised English Grading Definition Charts Revised English Grading Definition Charts Revised English Revised English Revised English Revised English Revised English Revised English Revised English Revised English Revised English Revised English Revised English Revised English R			sny i mult mult intra venc venc Stab Stab Stab Stab new new pre-r pre-r tract	sus loop exudate in the presence of other finumber of cotton wool spots (CW3 iple blot haemorrhages > MBH storetinal microvascular abnormality sus reduplication sus beading le pre-retinal fibrosis + peripheral le fibrous proliferation (disc or else le R2 features (from feature based eatures (from feature based gradin vessels elsewhere (NVE) vessels on disc (NVD) retinal or vitreous haemorrhage retinal fibrosis ional retinal detaohment ctivation in a previous stable R3s of	 in the presence of or s 1 2 or 3 IRMA) retinal scatter laser eventere) + peripheral retination of grading) + peripheral retination peripheral retination 	etinal soatter laser I retinal soatter laser			
National Average Programme Average Your average If you have not completed a set last month, no yellow column will be displayed. If nobody from your programme completed a set last month, no green column will be displayed.	,		any i asso diabu v exud grou best	eferable Maculopathy microaneurysm or haemorrhage w cisted with a best VA of <= 6/12 v etic macular oedems late within 1DD of the centre of the p of exudates >=1/2 DA within the microaneurysm or haemorrhage w VA of <= 6/12 (0.30 logMAR) ((fn al thickening within 1DD of the center	where the cause of the e fovea macula ithin 1DD of the centr o stereo)	reduced vision is known and not e of the foves only if associated w	ith a		lections of features s image represents :

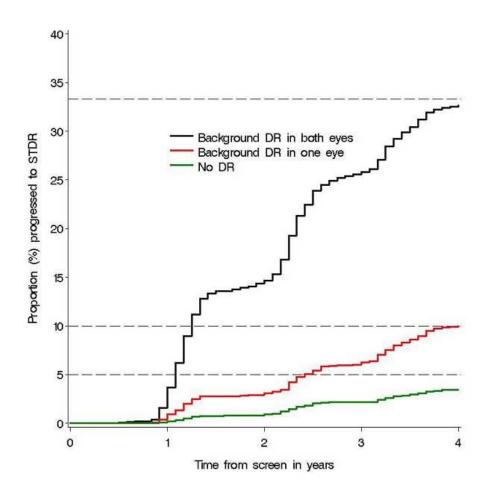






Scanlon P.H. Stratton I.M. Histed. M. Chave S.J. Aldington S.J. The influence of background diabetic retinopathy in the second eye on rates of progression of diabetic retinopathy between 2005 and 2010. *Acta Ophthalmol.* 2013 Apr 1. doi: 10.1111/aos.12074. [Epub ahead of print]

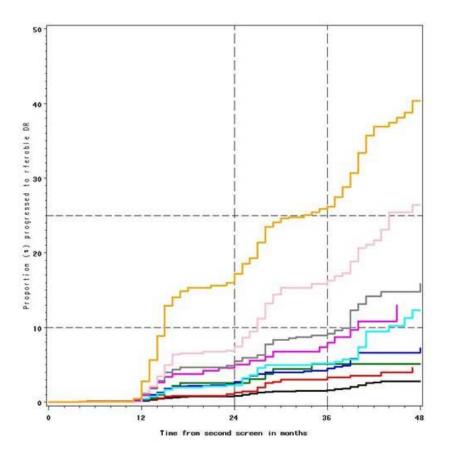
Time to referable DR from screen with no referable DR following one screening episode

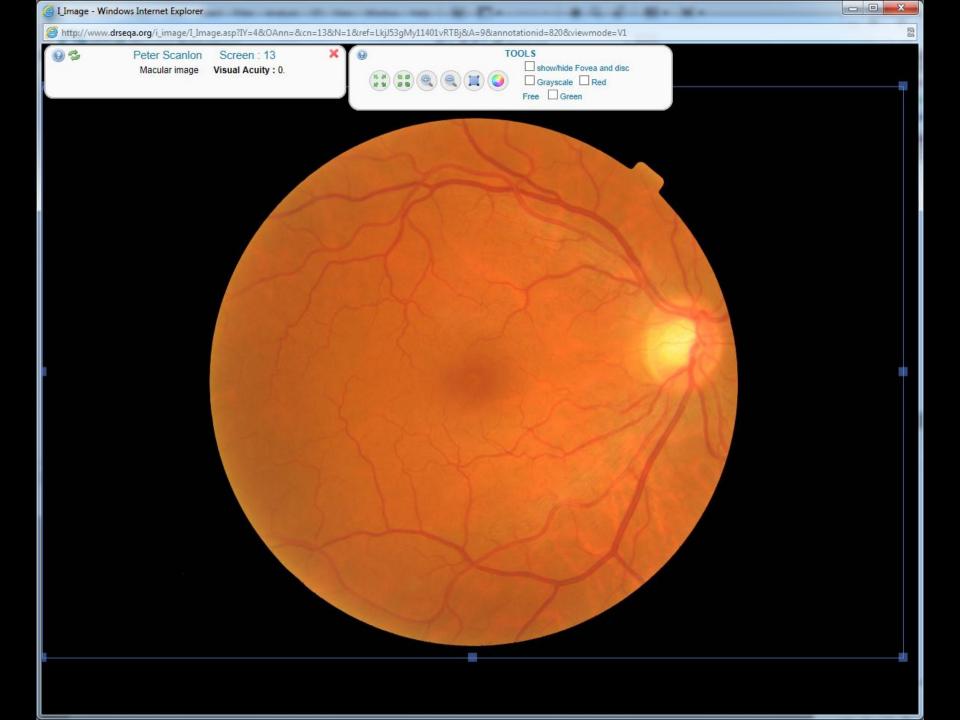


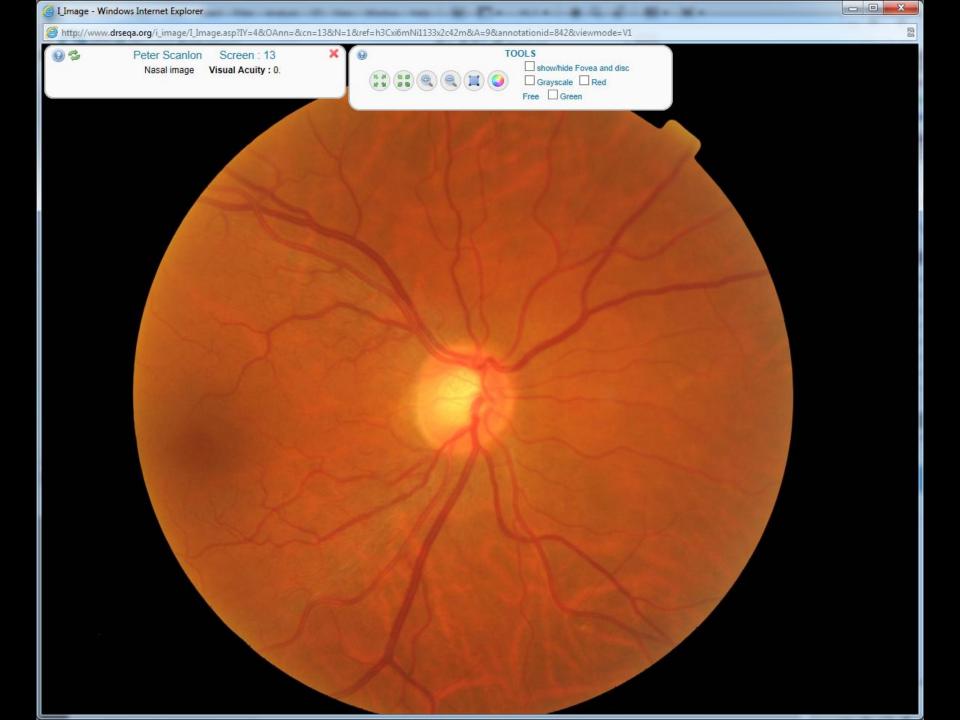
Stratton IM, Aldington SJ, Taylor DJ, Adler AI, Scanlon PH. A simple risk stratification for time to development of sight threatening diabetic retinopathy. *Diabetes Care*. 2013 Mar;36(3):580-5.

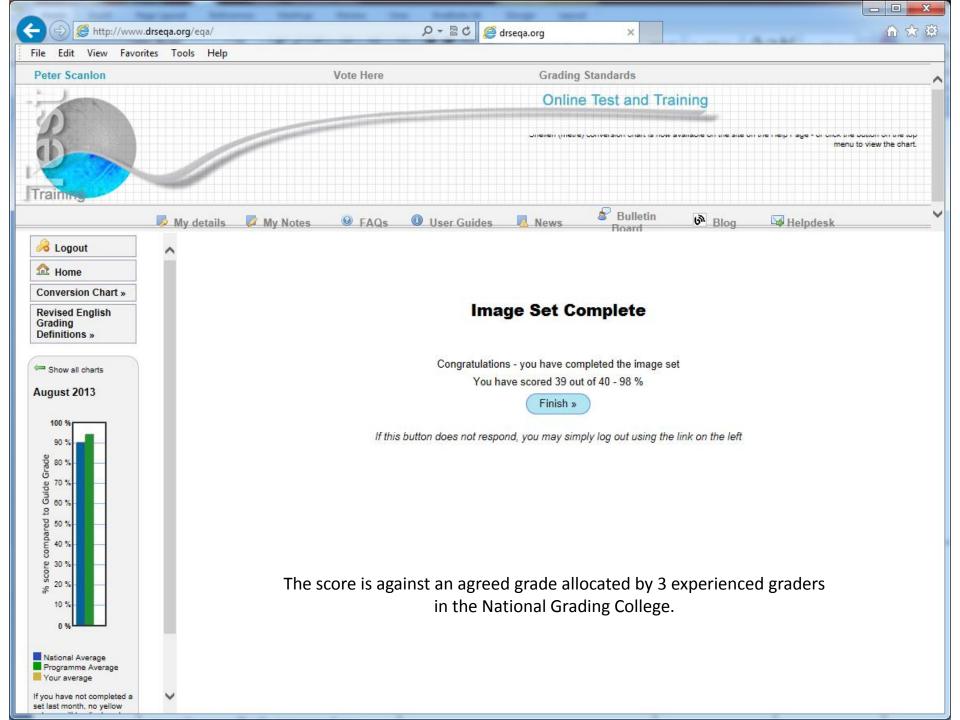
time to referable DR from background or no DR

after two consecutive screening episodes









http://www.drseqa.org/eqa/MyCharts.asp?U=24&P=770&Mode=G&MC=1 - Windows Internet Explorer

http://www.drseqa.org/eqa/MyCharts.asp?U=24&P=770&Mode=G&MC=1



1

The notes below summarise your responses when compared to the Guide Grade.

Of the 3 urgent referrals, you recorded 3 (100 %) as urgent referral

Of the 8 routine referral cases, you recorded 8 (100 %) as routine referral

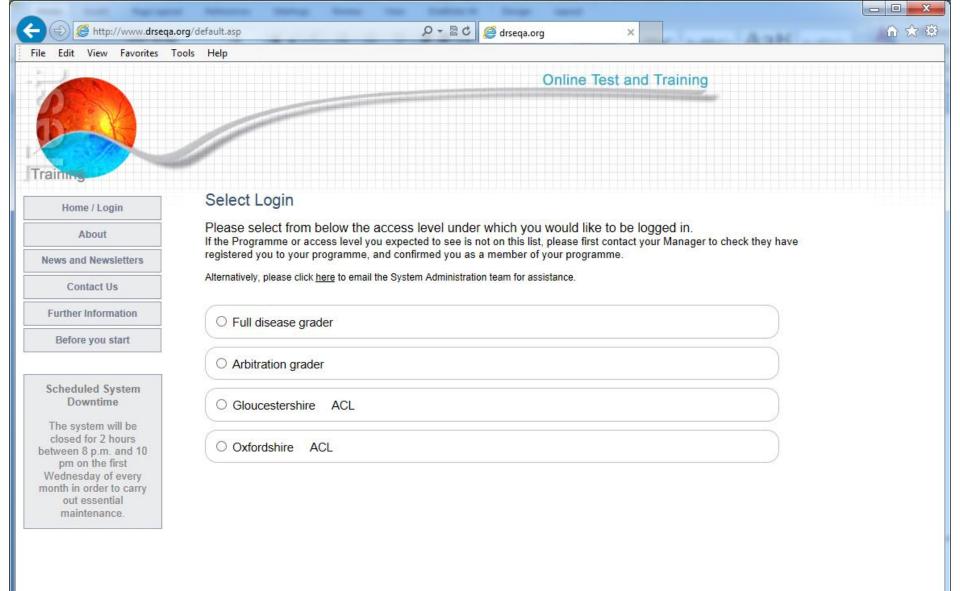
Of the 9 annual rescreen cases, you recorded9 (100 %) as annual rescreen

Level of agreement Chart : Comparison with Guide Grade Peter Scanlon 08/09/2013 : 17:39:43

			Grad	er: Pet	er Sca	nlon				
Gui		R0	R1M0	R1M1	R2M0	R2M1	R3M0	R3M1	R3aM0	R3aM1
de G	R0	4	0	0	0	0	0	0	0	0
Guide Grade	R1M0	0	5	0	0	0	0	0	0	0
	R1M1	0	0	5	0	1	0	0	0	0
	R2M0	0	0	0	0	0	0	0	0	0
	R2M1	0	0	0	0	2	0	0	0	0
	R3M0	0	0	0	0	0	0	0	0	0
	R3M1	0	0	0	0	0	0	0	0	0
	R3aM0	0	0	0	0	0	0	0	1	0
	R3aM1	0	0	0	0	0	0	0	0	2

Guide Grade Level of Agreement

The above chart includes only responses for Test sets you have completed The chart displays how you responded when compared to the Guide Grade.



Gloucestershire

Year 4 2013 - 2014	*
Show completed sets only	~
Test Set	~

Show names on reports

Please note: Although ticking this box will display the names on screen, for security reasons they will NOT be included in the excel spreadhseets.

All periods	~	Select a Grader from below	×
01/04/2013 - 30/04/2013 01/05/2013 - 31/05/2013 01/06/2013 - 30/06/2013 01/07/2013 - 31/07/2013 01/08/2013 - 31/08/2013		 Display ONLY non-Trainee scores Display Trainee and non-trainee scores 	ores
		O Display ONLY Trainee scores	

Attempt Diary	Grader Participation »	Attempts Summary »	Programme Overview »	Administration:
	Grader Participation (Advanced) »			
Guide Grade Level of Agreement	Lesion statistics >	Statistics chart (Guide Grade) »	Table of responses »	Statistical Information
National Level of Agreement	Lesion report »	Statistics chart (National peers) >	ſ	
Programme Level of Agreement	[Statistics chart (Programme peers)	[

Programme Level of Agreement

Year 4 - 2013 - 2014

Programme Level of Agreement

			Gra	der: Al	II Grad	ers				
		R0	R1M0	R1M1	R2M0	R2M1	R3M0	R3M1	R3aM0	R3aM1
	R0	327	21	1	0	0	0	0	0	0
qe	R1M0	33	391	9	13	2	0	0	2	0
Grade	R1M1	0	7	101	0	7	0	0	0	2
Peer	R2M0	1	18	0	62	7	0	0	4	0
	R2M1	0	1	18	1	88	0	0	0	3
Programme	R3M0	0	0	0	0	0	0	0	0	0
Б.	R3M1	0	0	0	0	0	0	0	0	0
	R3aM0	0	7	0	8	0	0	0	106	10
	R3aM1	0	0	3	0	6	0	0	3	38

Oxfordshire



Show names on reports

Please note: Although ticking this box will display the names on screen, for security reasons they will NOT be included in the excel spreadhseets.

All periods	~	Select a Grader from below
01/04/2013 - 30/04/2013 01/05/2013 - 31/05/2013 01/06/2013 - 30/06/2013 01/07/2013 - 31/07/2013 01/08/2013 - 31/08/2013		Display ONLY non-Trainee scores Display Trainee and non-trainee scores
101/08/2013 - 31/08/2013		 Display Trainee and non-trainee score Display ONLY Trainee scores

Attempt Diary	Grader Participation »	Attempts Summary »	Programme Overview »	Administration:
	Grader Participation (Advanced) »			
Guide Grade Level of Agreement	Lesion statistics >	Statistics chart (Guide Grade) »	Table of responses »	Statistical Information
National Level of Agreement	Lesion report >	Statistics chart (National peers) >		
Programme Level of Agreement		Statistics chart (Programme peers)		

Guide Grade Level of Agreement

Year 4 - 2013 - 2014

Guide Grade Level of Agreement

			Gra	der: Al	II Grad	ers				
Guide Grade		R0	R1M0	R1M1	R2M0	R2M1	R3M0	R3M1	R3aM0	R3aM1
	R0	182	17	0	5	0	0	0	1	0
	R1M0	17	212	2	13	2	0	0	3	0
	R1M1	1	6	77	0	5	0	0	0	1
	R2M0	0	3	0	15	1	0	0	2	0
	R2M1	0	1	9	3	46	0	0	1	10
	R3M0	0	0	0	0	0	0	0	0	0
	R3M1	0	0	0	0	0	0	0	0	0
	R3aM0	0	4	0	8	0	0	0	59	6
	R3aM1	0	0	1	0	1	0	0	5	21

Gloucestershire Diabetic Eye Screening Programme

Grader Feed Back

Grader 320



Reporting Period Quarter 1 2012 (1st April 2012 to 30th June)

During this quarter you completed the test and training set 3 times and within the time period your average score was 94% This score is only a small part of the equation as a grader could potentially down grade an R3 image to R0 and still achieve a score of 98%.

Whilst no patients are placed at risk within the test and training system, this type occurrence could, within a real life screening scenario, place a patient's eye sight at risk. Therefore it is important that the finer detail, included below is analysed as it will highlight any areas of weakness and with the assistance of the clinical lead, programme manager or other suitably trained individual, further training can be performed.

The scores for each retinopathy and maculopathy grade for the entire quarter is as follows:-

R0

You correctly identified 11 out of a total number of 12 this equates to a score of 89%

R1

You have correctly identified 25 out of a total 28 this equates to a score of 89%

R2

You have correctly identified 13 out of a total 13 this equates to a score of 85%

R3

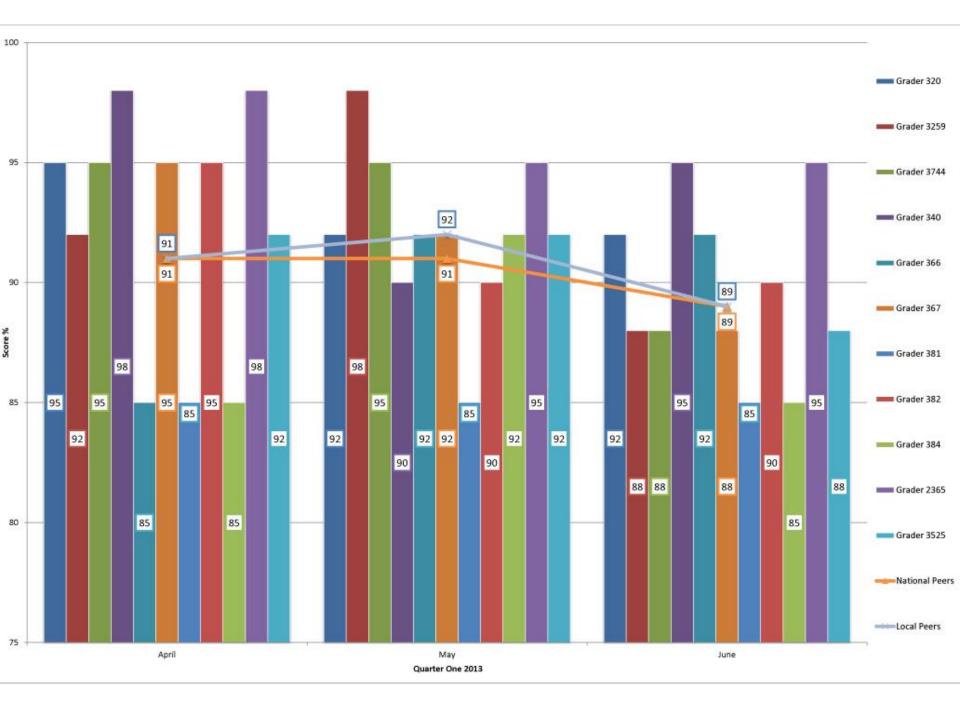
You have correctly identified 5 out of a total 7 this equates to a score of 71%

M0

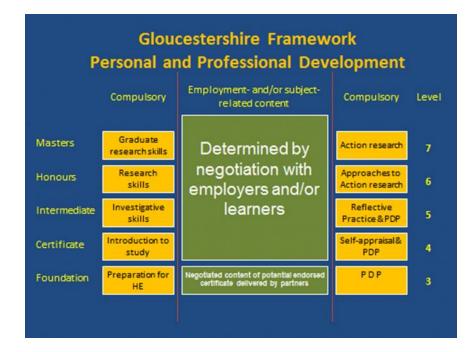
You have correctly identified 40 out of a total 40 this equates to a score of 100.00%

M1

You have correctly identified 20 out of a total 20 this equates to a score of 100.00%



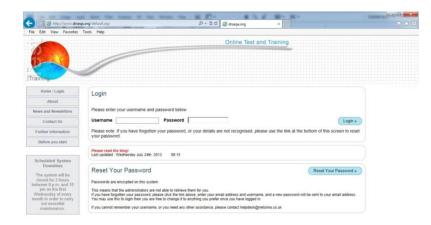
International Undergraduate Certificate in Diabetic Retinopathy Screening



University of Gloucestershire

- On line distance learning
- Have developed the learning outcomes.
- Currently going through the University approval process

International Version of Test and Training



- International domain site to support all international TAT access.
- Support and provide on-line / email access helpdesk
- Develop training packages that is targeted on the results.
- Ascertain whether there is a necessity to translate user manuals into languages other than English.