

TEST AND TRAINING: HOW IMAGES ARE CHOSEN



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GLOUCESTERSHIRE HOSPITALS NHS FOUNDATION TRUST

(Prepare yourselves for excruciating 'death by PowerPoint')



TEST AND TRAINING (TAT) - OVERVIEW

- TAT is the monthly EQA and CPD system for all NDESP graders in England
- NHSE-mandated EQA activity against relevant Standards
- Continuously provided to PHE/NHSE for NDESP for 14 years
- Unique monthly 'Test' sets and expanding 'Training' set of previous cases
- Over 1000 Grading users & 100's of Admin users from about 50 programmes
- Owned and provided by Gloucestershire Hospitals NHS Trust



INTERNATIONAL TAT

- We also provide an International version of TAT, called iTAT
- Identical cases and presentation to TAT
- Is also the *de-facto* mandated EQA system for DESP graders in Republic of Ireland, Northern Ireland and (recently) Wales and Guernsey
- Also provided to about 20 other countries, worldwide (not mandatory)
- Content can be displayed in Chinese, Spanish, Indonesian or Vietnamese
- Results per screen displayed as NDESP or ETDRS-equivalent levels



BEFORE WE PROGRESS...

Let's be totally clear about something:

IT IS ALL MY FAULT

I saw the need for TAT, designed it, got it approved by DESP Quality Assurance Committee and have run it ever since.

Don't blame anyone else!



TAT IN THE PAST

- Steve conceived of TAT in 2007/8, whilst National Education Lead, to address the need for an external QA system for NDESP (then ENSPDR) graders
- Approval by ENSPDR QA Committee/programme management boards to pilot TAT
- Pilot phase in 2009 to 8 screening sites, resulting in improvements to delivery system and reduction in TAT monthly cases (from 30 to 20)
- Delivery by Netsima Ltd (Kath and Wayne Prescott) since inception
- Cases initially 'ground-truthed' by Steve A and David Taylor, until Grading College initiated in 2011



GRADING COLLEGE - COMPOSITION

- Grading College was formed in 2011 to help us to allocate TAT cases
- There are about 30 members at any one time
- Membership is by invitation only, after review of the previous year's TAT scores, for each 'membership refresh' – about every 3 years
- Independent Medical Statistician Irene Stratton is provided with an anonymised 'flat file' of data from the TAT year for review
- Irene sorts by agreement with Guide Grade and lowest variance
- Anonymised results are sent to us, to identify and invite the 'best of the best'



GRADING COLLEGE – SOURCE MATERIAL

- We are totally reliant on DESPs providing us with the raw material for GC/TAT
- Heartlands Hospital (Birmingham) and Gloucestershire DESPs have been the main contributors of new cases
- We ask for/get about 1000 to 5000 unique cases provided to us in a batch, with fully anonymised images along with their ‘outcome’ DESP RM grade
- Cases are only from DESP patients who have consented for research/teaching
- We ask for new batches every 18 months or so (entirely dependent)



HOW DO WE PROCESS UP TO 5000+ CASES?

- We review every case (both eyes) for quality, adherence to 'protocol' and potential suitability for inclusion in future TAT sets
- Eyes are placed into interim folders as 'YES', 'POSSIBLE' or 'NO', based on the quality etc. and RM grades provided by the supplying DESP
- As example - recent batch of 7682 eyes: 81% Yes, 12% Possible & 7% No
- When the next GC Project is required, we select a case-mix from the 'YES' files



GRADING COLLEGE - PROJECTS

- Grading College Projects generally consist of 4 to 6 Teams (of 3 members)
- Each Team is given (remote) access to a collection of 50 to 60 cases/eyes
- We build GC Projects of about 200-360 cases (single eyes)
- Each Team gets a similar case-mix of RM severities, for fairness and equity
- They (you?) grade these completely independently and with no results
- They assess quality, tick all features present and add detailed comments



BY THE WAY – WHO ARE THIS ‘WE’?

- Currently, the ‘WE’ I have mentioned is Karen Whitehouse & Steve Aldington
- Before Karen joined GHNHSFT in 2022, I was assisted by Gwen George
- Both Karen and Gwen are previous members of our Grading College, so are vastly experienced DR graders
- In the past, a few other people helped out, but were not specialist graders – EXCEPT David Taylor: vastly experienced, who held various roles in NDESP



OKAY – GRADING COLLEGE PROJECT BUILDING

Encounter ID	DR Level	Field 1	Field 2	Eye	Project 024 Team A	Project 024 Team B	Project 024 Team C	Project 024 Team D	Project 024 Team E	Project 024 Team F	All Projects Team A	All Projects Team B	All Projects Team C	All Projects Team D	All Projects Team E	All Projects Team F
CC_181904_1119474_Right	RO	1	5	Right							CC_181904_1119474_Right					CC_181904_1119474_Right
CC_97354_1120083_Left	RO	1	9	Left		1					CC_97354_1120083_Left					CC_97354_1120083_Left
CD_185423_1120071_Left	RO	1	17	Left			1					CD_185423_1120071_Left				CD_185423_1120071_Left
CD_185423_1120071_Right	RO	1	17	Right				1				CD_185423_1120071_Right				CD_185423_1120071_Right
CD_24301_1119005_Left	RO	1	9	Left					1			CD_24301_1119005_Left				CD_24301_1119005_Left
CE_139954_1119356_Left	RO	1	9	Left						1						CE_139954_1119356_Left
CE_139954_1119356_Right	RO	1	9	Right							CE_139954_1119356_Right					CE_139954_1119356_Right
CE_157302_1119164_Left	RO	1	9	Left		1					CE_157302_1119164_Left					CE_157302_1119164_Left
CE_157302_1119164_Right	RO	1	9	Right			1				CE_157302_1119164_Right					CE_157302_1119164_Right
CG_179614_1119937_Left	RO	1	9	Left				1				CG_179614_1119937_Left				CG_179614_1119937_Left
CG_179614_1119937_Right	RO	1	9	Right					1			CG_179614_1119937_Right				CG_179614_1119937_Right
CG_181797_1119343_Left	RO	1	9	Left						1						CG_181797_1119343_Left
CG_181797_1119343_Right	RO	1	9	Right							CG_181797_1119343_Right					CG_181797_1119343_Right
CG_92951_1118420_Right	RO	1	5	Right			1					CG_92951_1118420_Right				CG_92951_1118420_Right
CH_181841_1119003_Left	RO	1	17	Left			1					CH_181841_1119003_Left				CH_181841_1119003_Left
CH_181841_1119003_Right	RO	1	17	Right				1				CH_181841_1119003_Right				CH_181841_1119003_Right
CH_93648_1119339_Left	RO	1	9	Left					1			CH_93648_1119339_Left				CH_93648_1119339_Left
CH_93648_1119339_Right	RO	1	9	Right						1		CH_93648_1119339_Right				CH_93648_1119339_Right
CJ_150107_1119740_Right	RO	1	5	Right		1					CJ_150107_1119740_Right					CJ_150107_1119740_Right
CK_43776_1119597_Left	RO	1	9	Left			1					CK_43776_1119597_Left				CK_43776_1119597_Left
CK_43776_1119597_Right	RO	1	9	Right				1				CK_43776_1119597_Right				CK_43776_1119597_Right
CM_48138_1119018_Left	RO	1	9	Left				1				CM_48138_1119018_Left				CM_48138_1119018_Left
CM_48138_1119018_Right	RO	1	9	Right					1			CM_48138_1119018_Right				CM_48138_1119018_Right
CN_102863_1119054_Left	RO	1	5	Left			1					CN_102863_1119054_Left				CN_102863_1119054_Left
CN_102863_1119054_Right	RO	1	5	Right				1				CN_102863_1119054_Right				CN_102863_1119054_Right
CP_130057_1119848_Left	RO	1	9	Left			1					CP_130057_1119848_Left				CP_130057_1119848_Left
CP_130057_1119848_Right	RO	1	9	Right				1				CP_130057_1119848_Right				CP_130057_1119848_Right
CP_165804_1120129_Left	RO	1	9	Left					1			CP_165804_1120129_Left				CP_165804_1120129_Left
CP_183109_1119709_Left	RO	1	9	Left						1			CP_183109_1119709_Left			CP_183109_1119709_Left
CP_183109_1119709_Right	RO	1	9	Right							1					CP_183109_1119709_Right
CP_54999_1119495_Left	RO	1	9	Left			1					CP_54999_1119495_Left				CP_54999_1119495_Left
CP_54999_1119495_Right	RO	1	9	Right				1				CP_54999_1119495_Right				CP_54999_1119495_Right
CS_129501_1118924_Left	RO	1	9	Left					1			CS_129501_1118924_Left				CS_129501_1118924_Left
CS_129501_1118924_Right	RO	1	9	Right						1		CS_129501_1118924_Right				CS_129501_1118924_Right
CS_142950_1119020_Left	RO	1	9	Left						1			CS_142950_1119020_Left			CS_142950_1119020_Left
CS_142950_1119020_Right	RO	1	9	Right							1			CS_142950_1119020_Right		CS_142950_1119020_Right
CS_164517_1119540_Left	RO	1	9	Left			1					CS_164517_1119540_Left				CS_164517_1119540_Left
CS_164517_1119540_Right	RO	1	9	Right				1				CS_164517_1119540_Right				CS_164517_1119540_Right
CS_183557_1119569_Left	RO	1	17	Left				1				CS_183557_1119569_Left				CS_183557_1119569_Left
CT_141318_1119366_Left	RO	1	9	Left					1			CT_141318_1119366_Left				CT_141318_1119366_Left
CT_141318_1119366_Right	RO	1	9	Right						1		CT_141318_1119366_Right				CT_141318_1119366_Right
CW_76091_1118323_Left	RO	1	9	Left						1			CW_76091_1118323_Left			CW_76091_1118323_Left
CW_76091_1118323_Right	RO	1	9	Right							1					CW_76091_1118323_Right
CW_89530_1118996_Left	RO	1	17	Left			1					CW_89530_1118996_Left				CW_89530_1118996_Left
DA_137090_1119205_Right	RO	1	5	Right				1				DA_137090_1119205_Right				DA_137090_1119205_Right
DA_141579_1119705_Left	RO	1	9	Left					1			DA_141579_1119705_Left				DA_141579_1119705_Left
DA_141579_1119705_Right	RO	1	9	Right						1		DA_141579_1119705_Right				DA_141579_1119705_Right
DB_92491_1119704_Left	RO	1	9	Left							1					DB_92491_1119704_Left
DB_92491_1119704_Right	RO	1	9	Right								1				DB_92491_1119704_Right

CREATING THE PROJECT ON NETSIMA SITE

Once the entire Project is allocated:

- Images are uploaded to the Grading College site, managed by Netsima
- We create and 'build' the Project Teams' grading 360 screens, one at a time
- We apply the 'grid' overlay to each macular image
- We test each Team's set to ensure operation, then 'release' it to that Team
- ...we wait... (and then we pay them for their services, of course)



GRADING COLLEGE – PROJECTS (CONT..)

- We download the results into an active Project spreadsheet (..in a minute..)
- Only '3 of 3' agreement cases are eligible to be potentially used in TAT
- Disagreements are not adjudicated or used – we just ignore and move on
- Usually max of 50% of GC Project cases achieve '3 of 3' level agreement
- This varies considerably by the features in a case and severity/level
- We then make a 'pre-final' decision whether a case is eligible for TAT



GRADING COLLEGE – PROJECT RESULTS

The screenshot shows a Microsoft Excel spreadsheet titled "Project 024 working - Microsoft Excel". The spreadsheet is divided into several columns and rows. The columns are labeled "Team F", "Lookup & Level", and "Case eligibility & use". The rows contain data for various cases, including "Team F", "Lookup & Level", and "Case eligibility & use". A red box highlights a section of the spreadsheet, and a red arrow points to a cell with the text "Adding a 'Test set' screen number".

Team F	Lookup & Level	Case eligibility & use
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
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63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
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73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
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80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Adding a 'Test set' screen number

Team F Results

Lookup & Level

Case eligibility & use



HOW BORED ARE YOU ALREADY?



BARS Conference 2023



Gloucestershire Retinal Education Group
www.drscreening.org

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GRADING COLLEGE TO LIVE TAT

- Our TAT development software enables us to import '3 of 3' GC cases
- We select cases to meet the required monthly RxMx 'case mix'
- Monthly case mix varies (...) to meet agreed overall annual case-mix
- Some '3 of 3' cases are still rejected by us, if we feel they are too 'edgy'
- We then annotate important, indicative features on cases prior to TAT release
- Of course, we do this in time for every month's set



EXAMPLE MONTHLY ALLOCATION SHEET

Batch 4_2020_July TAT [Compatibility Mode] - Word

File Home Insert Design Layout References Mailings Review View Help Tell me what you want to do

Clipboard Paste Copy Format Painter

Calibri (Body) 14 A Aa Font Paragraph Styles

Year	Case ID	RM Grade	GC Features	Comments	0.06	Y		
2020-068	023_F007	R1M0	MA; Haem; CWS	GC Member 1 comments: MAs and haem (idiopathic) to disc, the appearance of vessels inferior to disc suggests there may have been a previous RVD				Cannot use – evidence of old inferior RVD
2020-068	023_F011	R1M0	MA; Haem		0.06	Y		
2020-069	023_F008	R1M0	MA		0.08	Y		
2020-070	023_F009	R1M0	MA		0.12	Y		
2020-071	023_F010	R1M0	Haem		0.06	Y		
2020-072	024_A038	R2M1	MA; Haem; Exudate; CWS; MBH; IRMA; VB; HE<1DD; HE-Group	GC Member 1 comments: scattered exudates inside 1DD, also outside 1DD but not half a disc area extensive MAs, dots, blot, CWS all over both images. Most veins beaded proximal to disc multiple blot spots	0.16	Y		
2020-076	024_B036	R2M0	MA; Haem; Exudate; CWS; MBH	GC Member 1 comments: Macula not fully assessable due to reflection, no obvious exudate	0.14	Y		Decided to go with no HE.
2020-077	024_B060	R3aM1	MA; Haem; Exudate; CWS; MBH; IRMA; Reduplication; VB; NVE; NVD; PRF; HE<1DD; HE-Group	GC Member 1 comments: Any MA/Haem <1DD with VA <6/12	0.34	Y	Y	Cannot see any definite redup. Unticked Group.

Year	Case ID	RM Grade	GC Features	Comments	0.08	Y		
2020-074	024_A060	R3aM1	MA; Haem; Exudate; HE<1DD	GC Member 1 comments: MA close to foveal centre. Not totally convinced of exudate, however in a 198 life grading situation I would at least want to review in digital surveillance. This case graded positive.	0.08	Y		I have decided there are not quite enough concentrated HE for 'Group'
2020-075	024_B019	R1M1	MA; Haem; Exudate; HE<1DD	GC Member 1 comments: MA close to foveal centre. Not totally convinced of exudate, however in a 198 life grading situation I would at least want to review in digital surveillance. This case graded positive.	0.06	Y		

ROM0	R1M0	R1M1	R2M0	R2M1	R3aM0	R3aM1
6	5	2	2	2	1	2

Created Test Sets: GG / PD / SA Date / Time: Set completed 25 / 06 / 2020 @ 11:30am

Reviewed by Peer: GG / PD / SA Date / Time: Set released 29 / 06 / 2020 @ 10:55

Final Check: SA / GG

Signed Off for Release: *[Signature]*

Netsima notified 29 / 06 / 2020 @ 11:05

Rejected case

Project reference and RM grade

GC features and comments

I have decided there are not quite enough concentrated HE for 'Group'

SJA's decision!

Monthly 'case-mix'

WHAT TAT LOOKS LIKE – TO YOU AS USERS

IMS - Online Test And Training v1.2

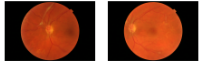
Online Test and Training

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Test Set : Year 11 - 2020 - 2021 Period November 2020 01/11/2020 - 30/11/2020

Question 1 of 20

Images to be assessed using only the revised DESP grading definitions and the Feature Based Grading form



Nasal view Macular view

Features

Please select any DR features you can identify (N.B. not all features are activated but all are visible)

- No DR
- microaneurysms) *
- retinal haemorrhage(s)
- venous loop
- any exudate in the presence of other features of DR
- any number of cotton wool spots (CWS) in the presence of other features of DR
- multiple blot haemorrhages > MBH std
- See example images and description for definition of MBH
- venous beading
- Stable pre-retinal fibrosis + peripheral retinal scatter laser
- Stable fibrous proliferation (disc or elsewhere) + perioheral retinal scatter laser

Information
Stephen Aldington
Macular view
Visual Acuity: 0.22

Tools
temporary enhance persistent enhance

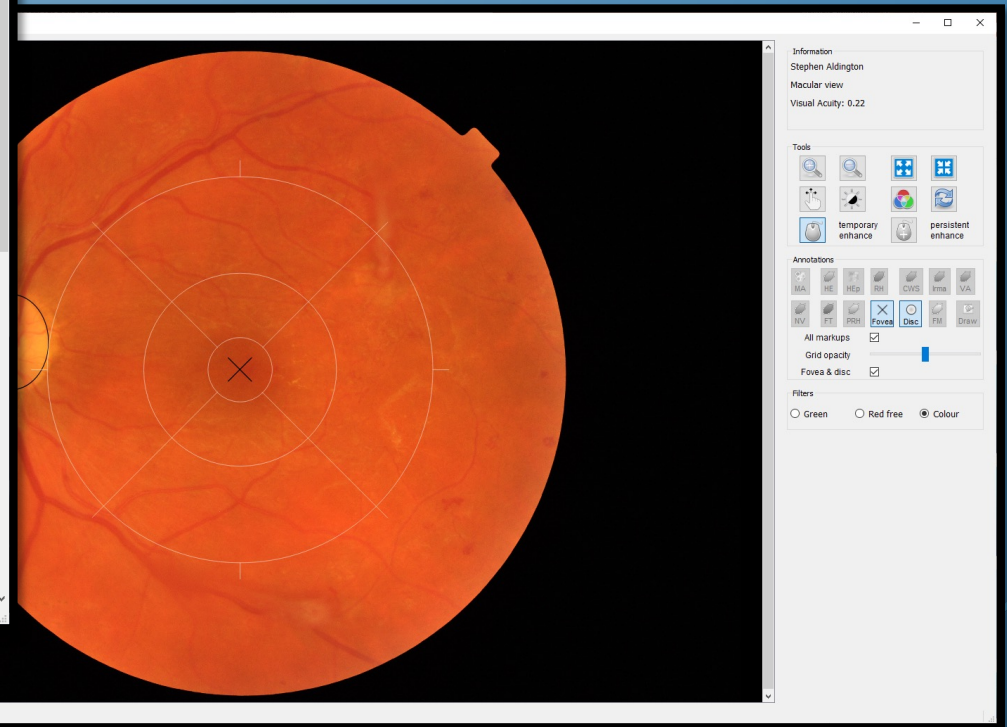
Annotations
MA, HE, HF, RH, CWS, HMA, VA, NV, FT, Fovea, Disc, PM, Draw

All markups
Grid opacity
Fovea & disc

Filters
 Green Red free Colour

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Your current selections of features indicate that this image represents :
R1 M0



Temporary enhance mode



WHAT TAT LOOKS LIKE TO 'US' – CREATE SCREEN

Online Test and Training

My Notes News Timeline Bulletin Board Helpdesk Upload Image/s »

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Logout Home My Details My security - GDPR System Test »

Manage Image Sets

Create Image Set Edit Image Set Order Image Sets Preview Image Set

Edit Image Set

Image Set: Year 11 - 2020 - 2021 Test set
Display name - Year 11 - 2020 - 2021

This Image Set is now locked

Image Set Locked
This Image Set is locked - you cannot therefore make any changes to it.

Create copy

Auto import Monthly screens

Image Set Screens: 2020 - 001

Import Screen from Grading College: Please select from below

BP_183515_1119993_Right_5.jpg
Choose number of images for this screen.
 1 2 3 4 5 6

BP_183515_1119993_Rigl
Title for image: Macular view

BP_183515_1119993_Rigl
Title for image: Nasal view

Email Helpdesk »

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WE SELECT FEATURES THAT ARE RECORDED BY THE GC

Online Test and Training | League Table | Who's Who | Period Diary | Attempt Diary | Visit Diary

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- Logout
- Home
- My Details
- My security - GDPR
- System Test »

2 Features Mark for this section: 0 Fix Mark

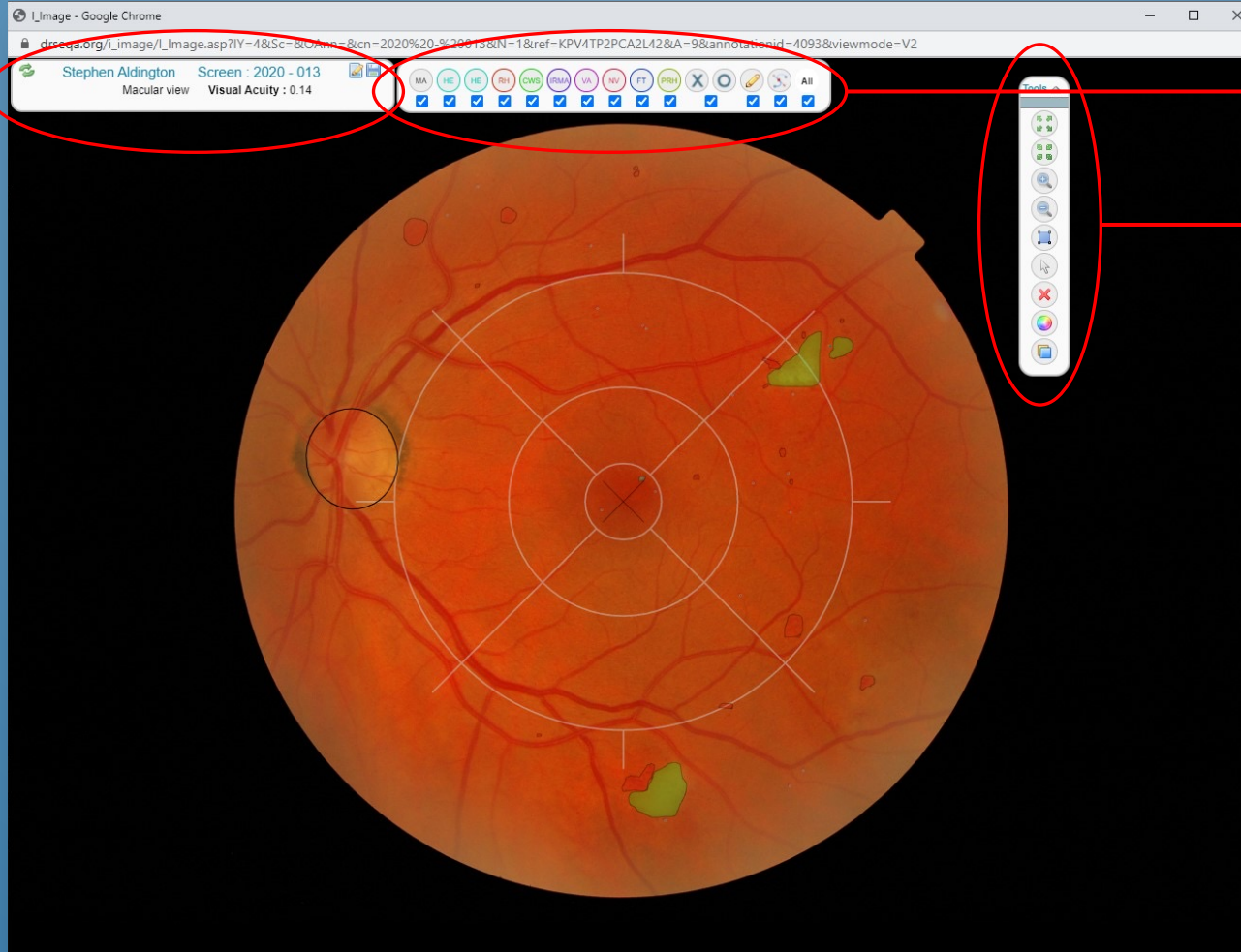
Please tick from below the options you wish to be displayed to the Grader, and those required for a pass
Also the text you wish to appear here:
Please select any DR features you can identify (N.B. not all features are activated but all are visible)

	Display to Grader	Use as match	Score if correct	Deduct if incorrect
Count of Microaneurysm(s) 1	<input type="checkbox"/>			
No DR (R0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
<input checked="" type="checkbox"/> Line Break microaneurysm(s)* (R1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input checked="" type="checkbox"/> Line Break retinal haemorrhage(s) (R1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input type="checkbox"/> Line Break venous loop (R1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
<input type="checkbox"/> Line Break any exudate in the presence of other features of DR (R1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input type="checkbox"/> Line Break any number of cotton wool spots (CWS) in the presence of other features of DR (R1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input checked="" type="checkbox"/> Line Break multiple blot haemorrhages > MBH std (R2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input type="checkbox"/> Line Break intraretinal microvascular abnormality (IRMA) (R2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0
<input type="checkbox"/> Line Break venous reduplication (R2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
<input type="checkbox"/> Line Break venous beading (R2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
<input checked="" type="checkbox"/> Line Break Stable pre-retinal fibrosis + peripheral retinal scatter laser (R3s)	<input type="checkbox"/>	<input type="checkbox"/>	0	0
<input type="checkbox"/> Line Break Stable fibrous proliferation (disc or elsewhere) + peripheral retinal scatter laser (R3s)	<input type="checkbox"/>	<input type="checkbox"/>	0	0
<input type="checkbox"/> Line Break				

'Tick' to select feature present

OUR IMAGE VIEWER/ANNOTATION SCREEN

File data box



Feature annotation toolbar

Image manipulation toolbar



WE BUILD THE MONTH'S SET OF 20 SCREENS...

Ref: 6830 As displayed in Image Set : Year 11 - 2020 - 2021

2020 - 008 [Save changes to title](#)

Category 03 (R1M0)

DE_90488_1119514_Left_9.jpg DE_90488_1119514_Left_13.jpg
Nasal view Macular view

[Open in Im Library >](#) [Open in Im Library >](#)

(w :3008 x h :2000) (w :3008 x h :2000)

4: Category 03 (R1M0) Retain this screen

Run: Year 11 2020 - 2021

Date Month 1 : 01 April 2020 to 30 April 2

[Full Statistics](#)

Ref: 6831 As displayed in Image Set : Year 11 - 2020 - 2021

2020 - 009 [Save changes to title](#)

Category 03 (R1M0)

EF_135047_1139924_Left_13.jpg EF_135047_1139924_Left_9.jpg
Nasal view Macular view

[Open in Im Library >](#) [Open in Im Library >](#)

(w :3008 x h :2000) (w :3008 x h :2000)

4: Category 03 (R1M0) Retain this screen

Run: Year 11 2020 - 2021

Date Month 1 : 01 April 2020 to 30 April 2

[Full Statistics](#)

Ref: 6832 As displayed in Image Set : Year 11 - 2020 - 2021

2020 - 010 [Save changes to title](#)

Category 06 (R2M1)

KH_95459_1135040_Left_13.jpg KH_95459_1135040_Left_9.jpg
Nasal view Macular view

[Open in Im Library >](#) [Open in Im Library >](#)

(w :3008 x h :2000) (w :3008 x h :2000)

8: Category 06 (R2M1) Retain this screen

Run: Year 11 2020 - 2021

Date Month 1 : 01 April 2020 to 30 April 2

[Full Statistics](#)

Ref: 6833 As displayed in Image Set : Year 11 - 2020 - 2021

2020 - 011 [Save changes to title](#)

Category 08a (R3aM1)

JL_229515_1145015_Right_1.jpg JL_229515_1145015_Right_5.jpg
Macular view Nasal view

[Open in Im Library >](#) [Open in Im Library >](#)

(w :3008 x h :2000) (w :3008 x h :2000)

23: Category 08a (R3aM1) Retain this screen

Run: Year 11 2020 - 2021

Date Month 1 : 01 April 2020 to 30 April 2

[Full Statistics](#)



...AS PART OF THE YEAR'S COLLECTION OF 12 SETS

Screen Administration

Screen Schedule » Search by category ▼

Order Screens » Search by Image Set (Live only) ▼

Show only where no period has been set

Show all unarchived screens

Search by screen reference/title: Search for match »

Show Screen selection boxes for all years »

Year 7 2016 - 2017	Year 8 2017 - 2018	Year 9 2018 - 2019	Year 10 2019 - 2020	Year 11 2020 - 2021
<input type="radio"/> 1 April 2016	<input type="radio"/> 1 April 2017	<input type="radio"/> 1 April 2018	<input type="radio"/> 1 April 2019	<input type="radio"/> 1 April 2020
<input type="radio"/> 2 May 2016	<input type="radio"/> 2 May 2017	<input type="radio"/> 2 May 2018	<input type="radio"/> 2 May 2019	<input type="radio"/> 2 May 2020
<input type="radio"/> 3 June 2016	<input type="radio"/> 3 June 2017	<input type="radio"/> 3 June 2018	<input type="radio"/> 3 June 2019	<input type="radio"/> 3 June 2020
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<input type="radio"/> 12 March 2017	<input type="radio"/> 12 March 2018	<input type="radio"/> 12 March 2019	<input type="radio"/> 12 March 2020	<input type="radio"/> 12 March 2021



TAT AT THE MOMENT

- The TAT system (and GC system) are using 10+ year-old software
- The User's Image Viewer software is relatively new (<5 years)
- But we get relatively few reports of software problems from Users
- Our own preparation processes (GC and TAT) however are very tedious
- TAT provision to NHSE currently subject to rolling 6-month contract extensions



NEXT STEPS FOR TAT

- NHSE Tender Process for TAT (or replacement) is due soon
- As software is very old, requires complete re-write/redevelopment
- We have funded Netsima to develop new software over the last year or so
- BUT - we must continue providing monthly TAT (and iTAT) without interruption
- As long as there is a need and contract, we will continue to provide TAT
(and Karen and Steve don't want to fully retire just yet!)



ACKNOWLEDGEMENTS

- TAT would not currently be possible without Karen Whitehouse, who:
 - Manages the Grading College and liaises with its members (incl. invoicing)
 - Helps to review all 'new' cases we receive
 - Creates much of the Grading College Project content
 - Assigns, creates and annotates much of the TAT monthly set content
- Danielle Meek administers payments to GC members
- Kath and Wayne Prescott (Netsima Ltd.) work with us to provide GC & TAT
- Professor Peter Scanlon supports us, but necessarily keeps at “arm’s length”





THANKS FOR YOUR TIME, YOU'VE BEEN MOST
ATTENTIVE

ANY FINAL QUESTIONS?

Incidentally, this entire talk on TAT contained only 2 retinal images! HA!

