First report of a *new initiative* collecting national long-term data from patients with neovascular glaucoma (NVG) in the UK

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AIM

1. Report baseline data from a <u>new</u> initiative to <u>track the occurrence and long-term clinical courses</u> of NVG in the UK.
2. Building on the registry data presented, we aim to develop a national database → inform NHS guidelines on the management of NVG.

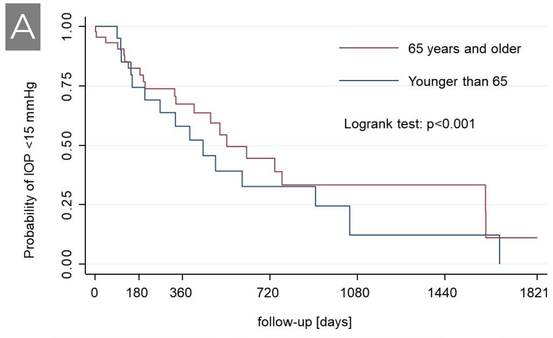
Introduction

- Neovascular glaucoma (NVG) constitutes 5-7% of glaucoma, 75,000–113,000 patients affected in Europe
- Despite its low prevalence, its associated systemic vasculopathy and potential to cause severe irreversible sight loss necessitate optimum management [a]
- Management is challenging. High quality real-world data on long-term outcomes are scarce

Results

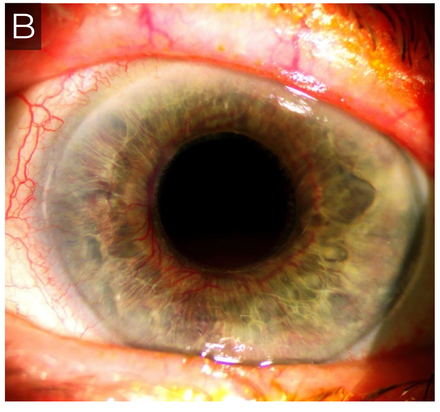
- All cases of NVG patients diagnosed between 2013-2022
- In 3 institutions under King's College Hospital NHS Foundation Trust
- Treatment given: 123 PRPs; 43 intravitreal injections
- Mean IOP reduction post-management: 1.8mmHg

148 eyes Of 129 patients	**69.5 years** Mean age
67 (51.9%) Diabetes	**35.6mmHg** Mean IOP

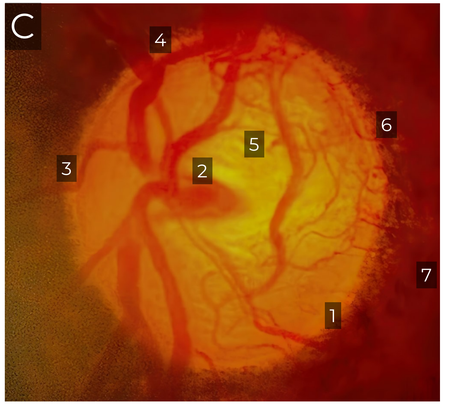


<u>Figure A:</u>

- Survival analysis using successful drop of IOP below 15mmHg – 67 eyes
- Median follow up of 185 days [IQR 56 to 428 days]
- Older age group reaches success later than the younger group (p<0.001)
- Learning point: more time required to manage older age group



<u>Figure B:</u>
iris rubeosis



<u>Figure C:</u>

[1] 100% cup:disc ratio
[2] Nasalisation of vessels
[3] Bayonetting of vessels
[4] Circumlinear vessel
[5] Lamina cribosa
[6] Neovascularisation of disc
[7] Beta peripupillary atrophy

What next

Systematic registration of patients with NVG

Draw conclusions about:

1. Clinical background
2. Treatment modalities
3. Clinical course

Initiatives will be started to extend this data across the NHS

Requires steering committee to ensure sustainability of this initiative