Visual Outcomes Committee

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- Peter de Blank
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Initial REiNS Recommendations

- Primary Outcome Measure
  - VA using Teller Acuity Cards
  - Don’t switch formats
  - Report in logMAR
  - Account for age-specific acuity norms
- Secondary Outcome Measures
  - VA using HOTV
  - Visual QOL using CVFQ
- Contributing Variable
  - Optic Pallor

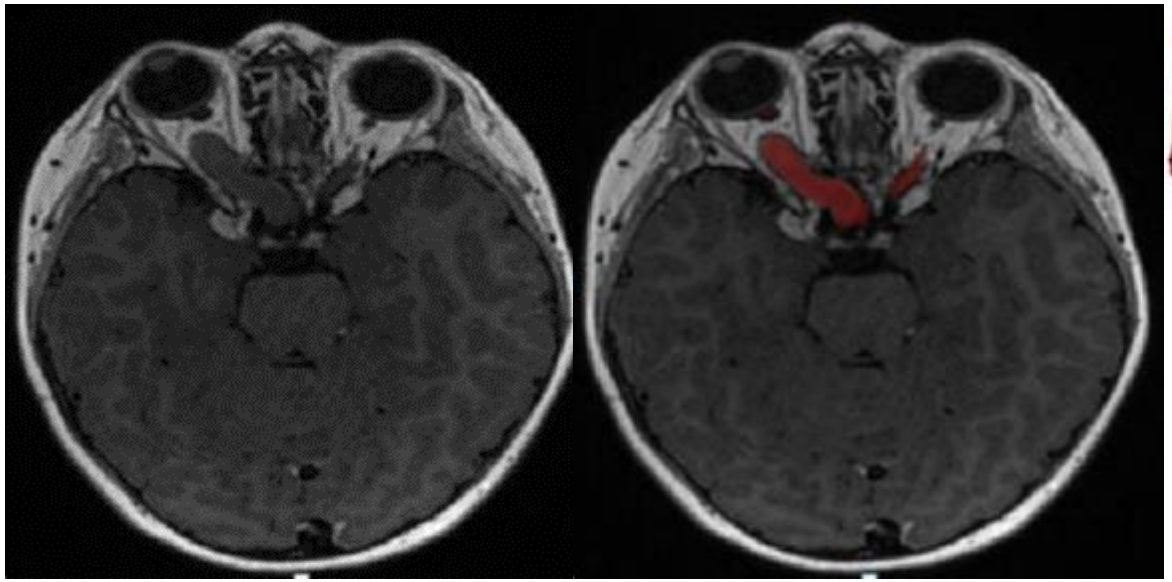
Fisher et al, Neurol 2013; 81(Suppl 1):S15

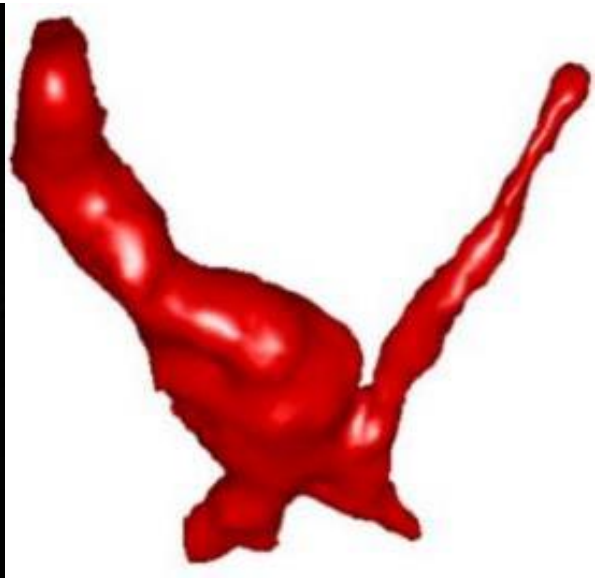
Ongoing Work / Future Directions

- An improved understanding of Visual Fields in OPG
- How to best measure OPGs
  - 2D vs 3D measurements
  - How do you evaluate tumor extent in the setting of UBOs?
- What constitutes an OPG?
  - How thick must the nerve be?
- Biomarkers of Vision
  - OCT
  - DTI

Automated MRI Segmentation of the Anterior Visual Pathway

- Algorithm developed for the optic nerve

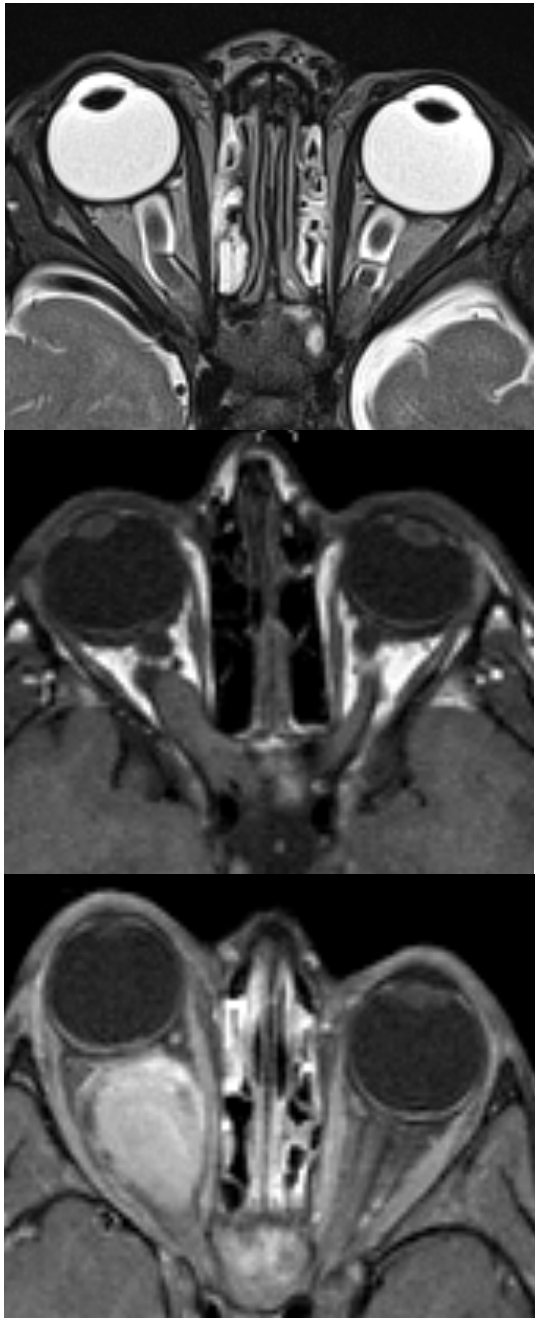




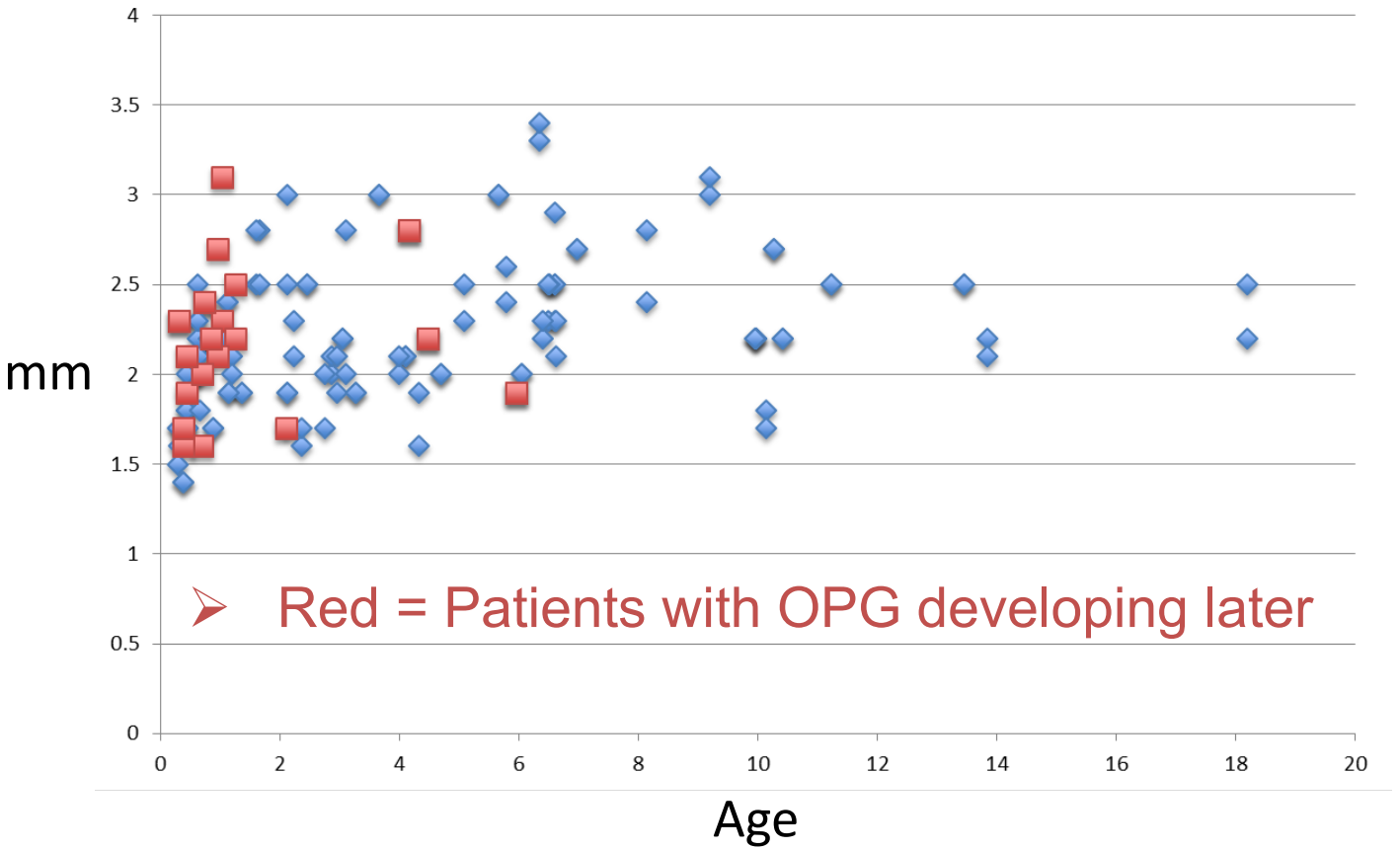
- Limitation: Segmentation beyond the optic chiasm is problematic
  - Irregular shape of tumors
  - Unidentified bright objects

A Mansoor, R Idress, RJ Packer, MG Linguraru, RA Avery

What constitutes an OPG?



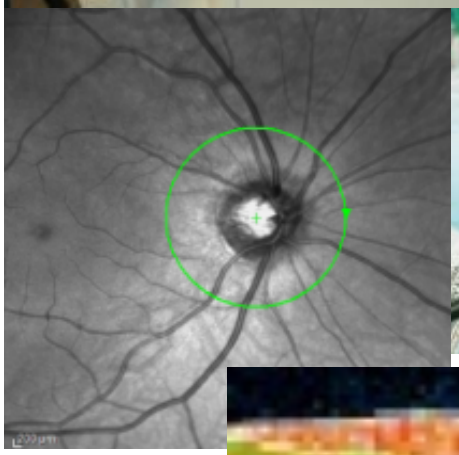
How thick does the nerve need to be?

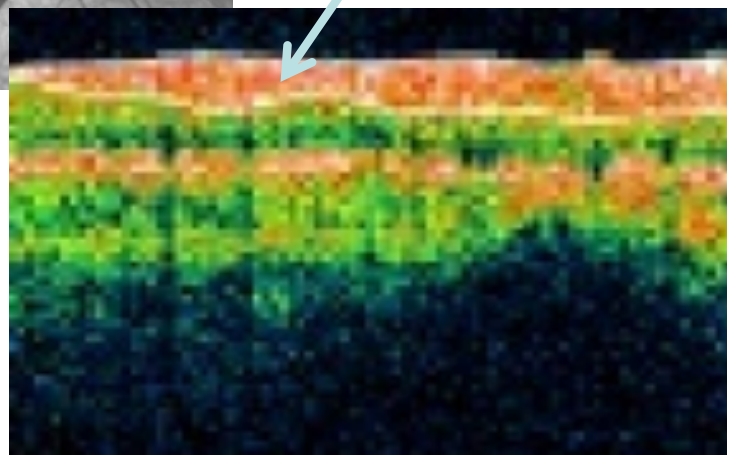
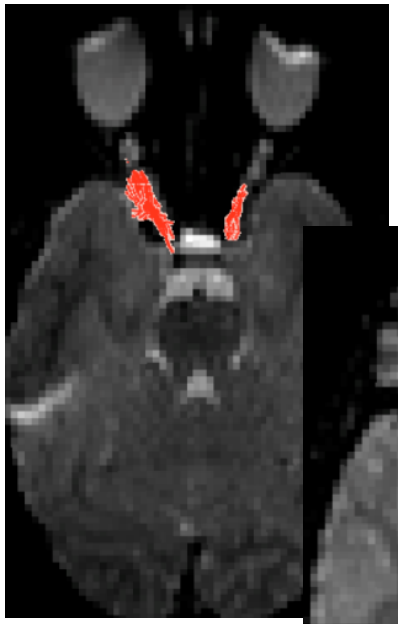
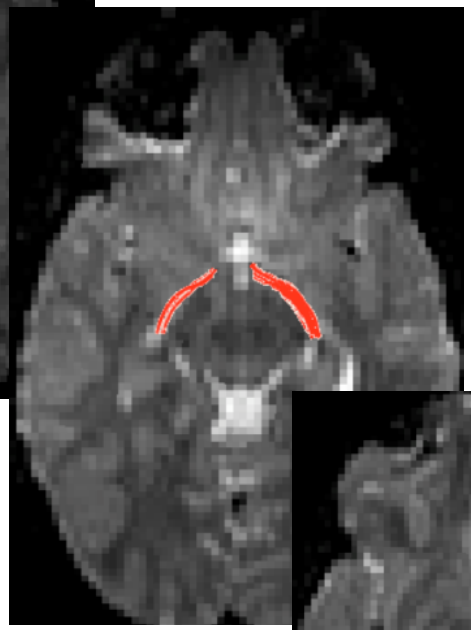
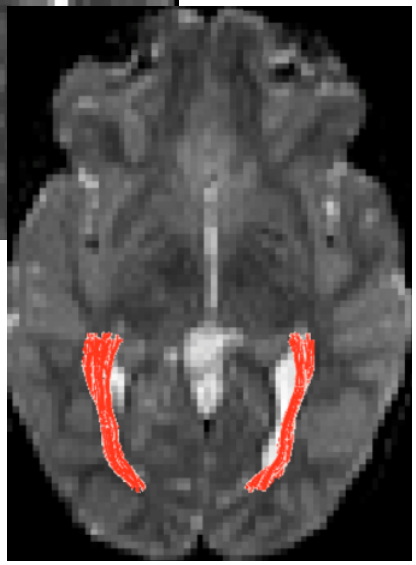


M Levin, T Feygin, G Liu, M Fisher

Is there a marker that can predict or is associated with vision loss?

OCT





DTI