Case 70:
SP17-2574

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Clinical History

- 10-year-old, castrated male, Shih Tzu
- 1-week history of hyphema and suspected secondary glaucoma OS
- 38mmHg OS compared to 14mmHg OD
- Chronic cataract
- Enucleation of OS was elected
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Diagnoses

• **Morphologic Diagnoses:**
  – Vitreous degeneration, retinal detachment, and peripheral circumferential retinal dehiscence
  – Diffuse outer retinal atrophy and segmental inner retinal atrophy
  – Marked cortical cataractous change
  – Preiridal fibrovascular membrane with peripheral anterior synechiae and entropion uveae
  – Mild lymphoplasmacytic anterior uveitis
  – Hemophthalmos and pigment dispersion
  – Mild diffuse corneal neovascularization, superficial fibrosis, and epithelial pigmentation

• **Bottom Line**
  – *Shih Tzu vitreoretinopathy*
  – *Chronic cataract*
  – *Neovascular glaucoma*
  – *Chronic keratitis, superficial*

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Shih Tzu Ocular Problems

- Chronic keratitis
  - Exophthalmos
  - Large palpebral fissure
  - Entropion
  - Trichiasis
  - Distichiasis
  - Ectopic cilia
  - Keratoconjunctivitis sicca
- Progressive retinal atrophy
- Vitreous syneresis


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Shih Tzu Vitreoretinopathy

- Middle aged to older Shih Tzu
- Vitreous:
  - Central liquefaction
  - Regions of condensation
  - Spindle cell infiltrate
  - Collagen deposition in vitreous
- Retina:
  - Rehematogenous retinal detachment
  - Large tears or dehisence
  - Muller cell proliferation

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  - Collagen deposition in vitreous
- Retina:
  - Rehematogenous retinal detachment
  - Large tears or dehisencse
  - Muller cell proliferation
- Pathogenesis is unclear
  - Age related change
  - Oxidative stress
  - Primary peripheral retinal degeneration
  - Cataract
- Concurrent changes
  - Preiridal fibrovascular membranes
  - Neovascular glaucoma
  - Hemophthalmos
  - Goniodysgenesis

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Questions?

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References


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