Systemic Diagnoses & Their Medications Effecting Your Eye Examination

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Review of History

- Often incomplete
- Poor patient knowledge & understanding
  - Diagnoses
  - Medications
  - Effects on the eyes
- Prescription & OTC medications

Effect on YOUR Eye Exam

- Investigate for side effects
  - Looking with an educated eye
- Extra testing
  - Visual field
  - Color vision
  - OCT

Ocular Toxicity

- Rich blood supply & small mass
- Eye is protected by:
  - Blood aqueous barrier
  - Blood retinal barrier
- RPE & retinal capillary endothelial tight junctions
  - May act as drug depots
  - Role in pathogenesis of toxicity
- Lipophilic drugs more likely to pass through
- Genetic variability can play a role
  - Cytochrome P-450 system enzymes

51 y.o. BM

- Needs new glasses
- POHx: Dry eye
- FOHx: + diabetic retinopathy – mother
- PMHx:
  - HTN
  - Type 2 DM x 3 years
  - Hepatitis C
  - Hyperlipidemia
- NKMA

51 y.o. BM

- BVA: 20/20 OD & OS
- Pupils, EOMs, CVF : normal OD & OS
- Slit Lamp:
  - poor tear film with debris OU
  - Inspissated Meibomian Glands OU
  - Arcus OU
- IOP: 15 mmHg OD & OS