Crash Course in Ophthalmic Pathology

Morton E. Smith, MD
Professor Emeritus
Associate Dean Emeritus
Washington University in St. Louis
What is your path diagnosis in the case depicted in the next 2 slides?
What are the histopathologic criteria which predict prognosis in a case of primary intraocular melanoma in which the eye has been enucleated?
Healthy 40 y/o referred to you because of this “thing” on the eye. Your assessment and plan for management?
50 Wt: Your assessment and plan?
What is your clinical diagnosis in this 60 year old woman who has been referred to you by her internal medicine doctor (an oncologist) (next slide)
62 y/o referred to you with a history chronic uveitis/vitritis. Your workup?
What procedure was done? 
Your diagnosis?
What is your clinical diagnosis in this 1 year old
( next 2 slides )
The next 5 slides pertain to the pathology of the enucleated globe of this 1 year old. What is your path diagnosis?
What is different about the next case (2 slides) from the previous case?
What is the differential diagnosis of leucocoria in a child?
45 y/o pain behind RE for a week. The pain is exacerbated with movement of the globe.
Incisional biopsy. Diagnosis?
Next case:
3 slides
Yeah, Yeah, I know; it’s the wrong side.

Just pretend it’s the other side.
next case

2 slides
35 y/o woman complains of appearing “bug eyed”
Next case:
3 slides
Next case:
4 slides
75 y/o with progressive painless unilateral visual loss
Next case:
2 slides
12 y/o with painless progressive visual loss with +APD
Next case:
4 slides
45 y/o with pain in the brow area for 6 months
What is the point of this slide?
19 year old woman with discomfort behind both eyes for weeks. Vision OK.
8 y/o with unilateral exophthalmos for 3 weeks. Your workup?
Match the next 4 slides with these diagnoses:
A. normal angle
B. P.A.S.
C. recessed angle
D. phacolytic glaucoma
Next case
2 slides
What is diagnosis?
Match the next 4 slides with these diagnoses:

A. Glaucomatous cupping
B. Schnable’s optic atrophy
C. Papilledema
D. Normal
Match the next 6 slides with these diagnoses:

A. Drusen on Bruch's
B. Disciform scar from ARMD
C. CNM in ARMD
D. CRVO
E. Cytoid body in NFL (CWS)
F. NPDR
( this empty space is artifact )
Match the next 4 slides with these diagnoses:
A. Epithelial downgrowth
B. Phacoantigenic
C. Sympathetic ophthalmia
D. Proliferative DR
Next case
2 slides
Next case
2 slides
Next case
2 slides
Next case
2 slides
Next case
2 slides
This 50 year old white man says that he noticed unilateral pigmentation on the surface of his eye last year.

( the patient is caucasian, even though his skin looks dark. That is merely photographic artifact )
Diagnosis ?
This 75 year old woman needed a corneal transplant because of chronic corneal edema.
next case
one slide
Diagnosis?
Next case
2 slides
Patient had PKP
Diagnosis?