

# 4.11.10. Retina & Retinal pigment epithelium (X): Neoplasia (II)

## Fuchs Adenoma

acquired tumor of nonpigmented ciliary body epithelium  
 may cause sectoral cataract  
 hyperplastic nonpigmented ciliary epithelium  
 arranged in sheets and tubules  
 alternating areas of PAS-positive basement membrane material  
 histology

## Combined hamartoma of the retina and retinal pigment epithelium

often diagnosed in childhood  
 slightly elevated variably pigmented mass  
 distorts the tumor inner retinal surface  
 preretinal membrane  
 thickening of optic nerve head and peripapillary retina  
 increased number of vessels  
 perivascular hyperplastic RPE  
 vitreous condensation and fibroglial proliferation  
 histology

## Adenoma/Adenocarcinoma of RPE

differentiates from RPE hyperplasia  
 uncommon  
 no history of prior trauma or eye disease  
 basement membrane  
 cell junctions  
 microvilli  
 retain characteristics of RPE cells  
 adenoma  
 greater anaplasia  
 mitotic activity  
 retinal or choroidal invasion  
 does not metastasize  
 adenocarcinoma

## Medulloepithelioma (Diktyoma)

congenital neuroepithelial tumor  
 arises from primitive medullary epithelium  
 sites  
 ciliary body most common  
 retina  
 optic nerve  
 clinical  
 non- or lightly pigmented cystic mass  
 ± iris/anterior chamber erosion  
 undifferentiated round-oval cells with little cytoplasm  
 cell nuclei are stratified in 3-5 layers  
 ribbonlike structure with distinct cellular polarity  
 lined on one side by thin basement membrane  
 secretes mucinous substance rich in hyaluronic acid  
 resembles primitive vitreous  
 mucinous cysts  
 histology  
 ± rosettes  
 Homer-Wright  
 Flexner-Wintersteiner

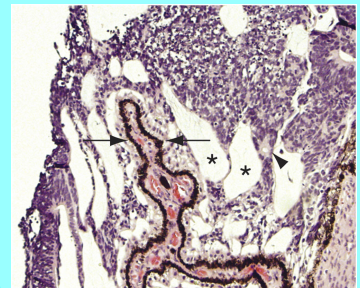


Figure 11-45 (© 2020 American Academy of Ophthalmology)