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What is the causative organism in typical TB?

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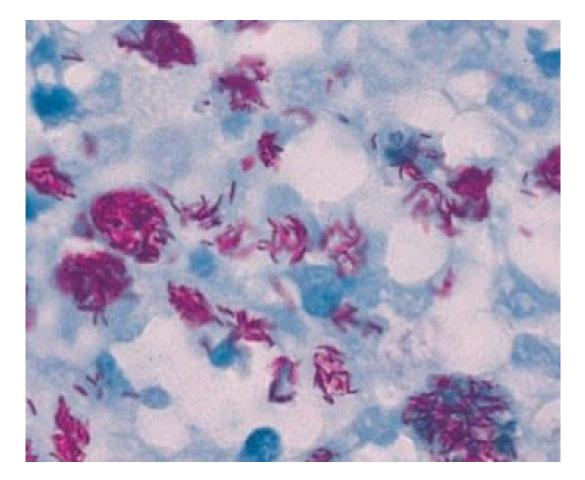
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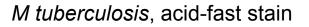
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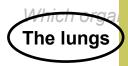
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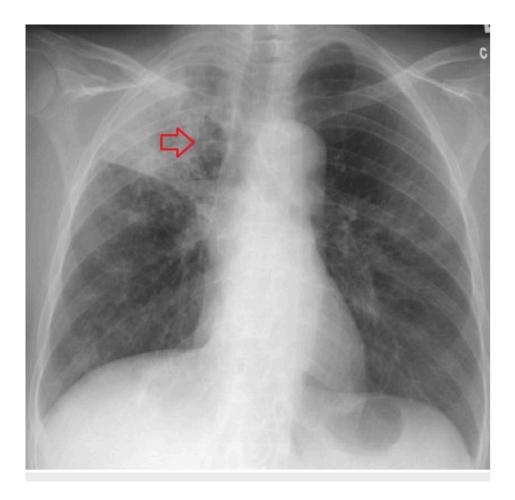
The lungs

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TB has a special affinity for what portion of the lungs?

The apices





TB: Cavity in the right lung apex with evidence of consolidation



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Why the apices? TB thrives under conditions of high O_2 tension, and pulmonary O_2 levels are highest at the apices



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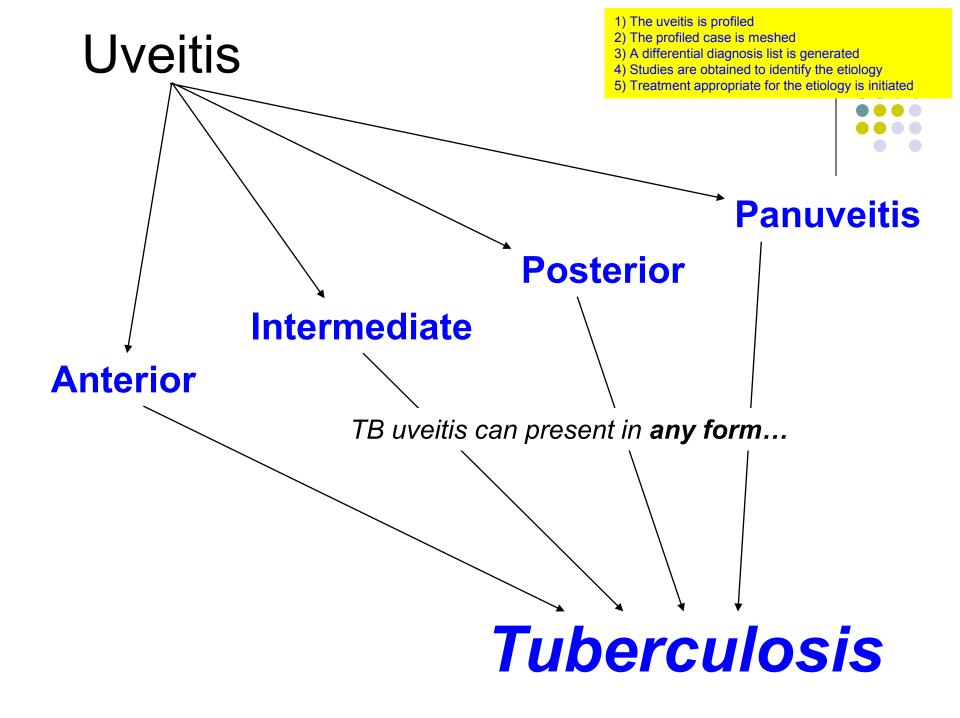
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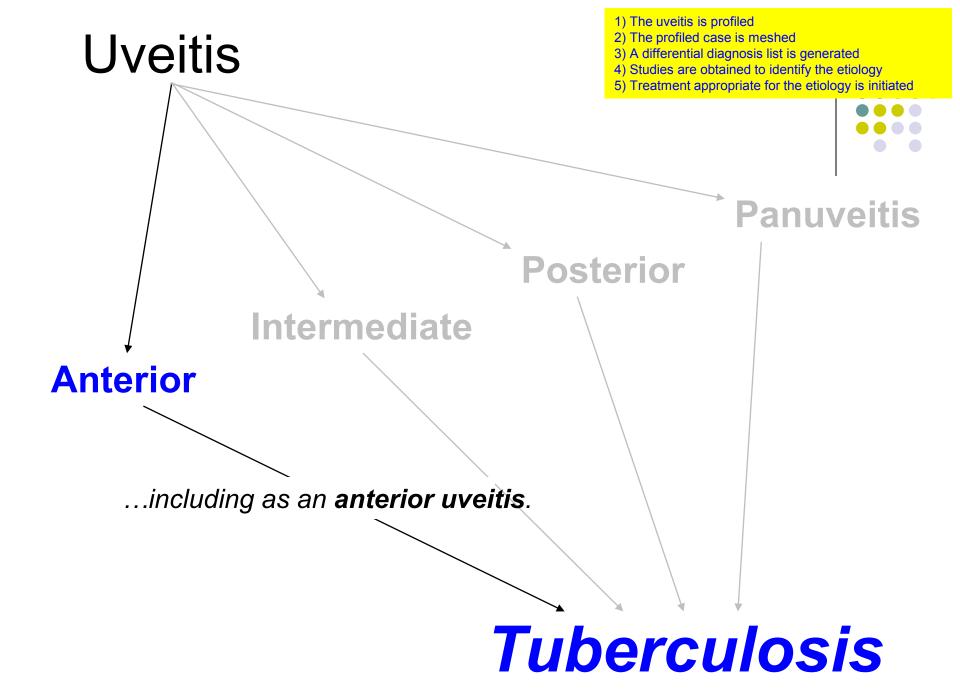
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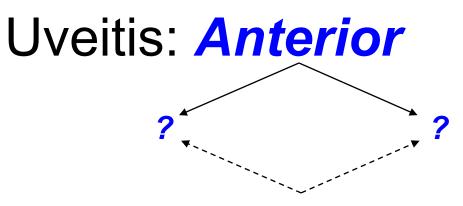
Which organ is most likely to be affected? The lungs

What are the three classic constitutional signs/symptoms? Fever, night sweats and weight loss









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(Start here, with the first distinction the book makes)

Uveitis: Anterior

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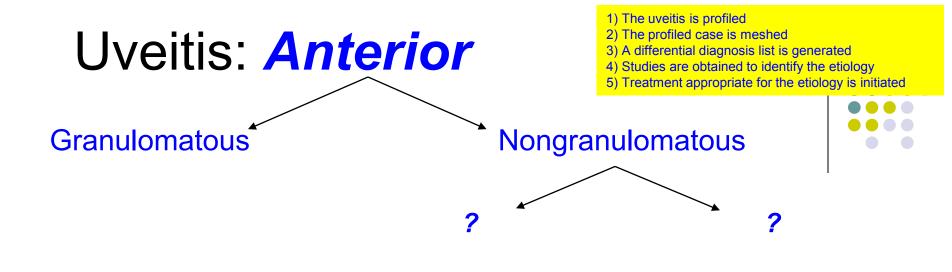
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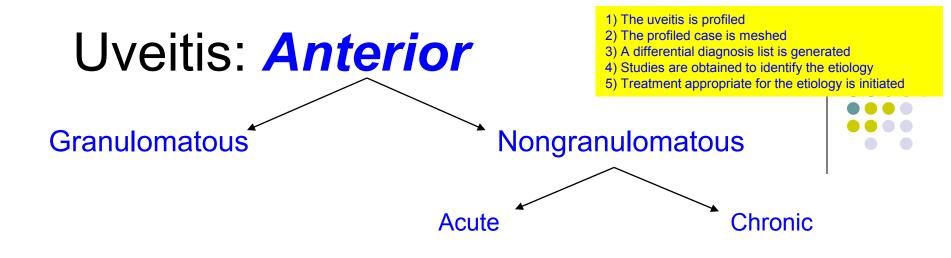
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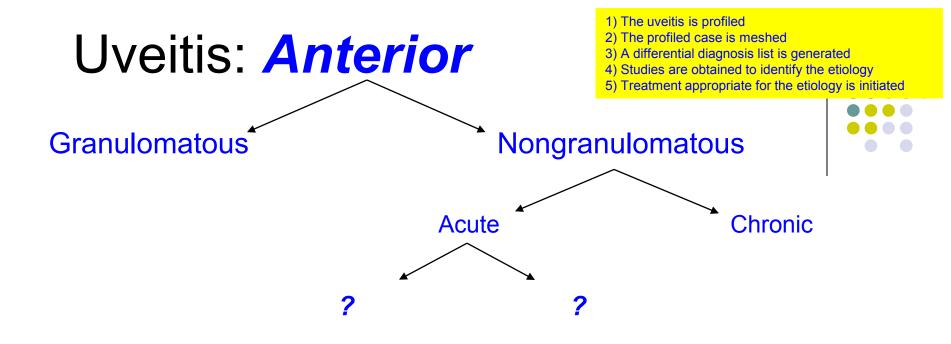
Granulomatous

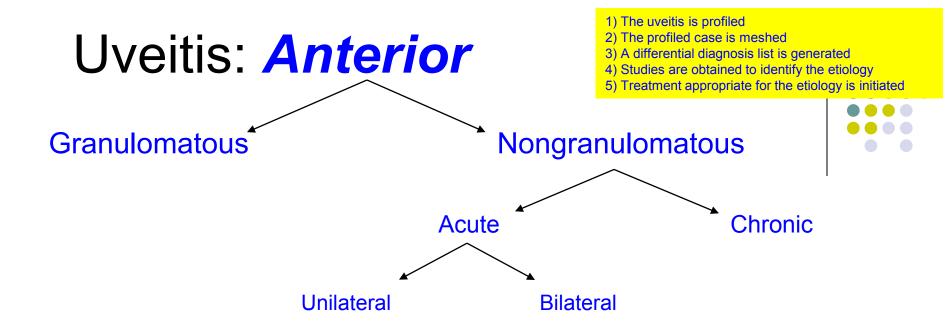
Nongranulomatous

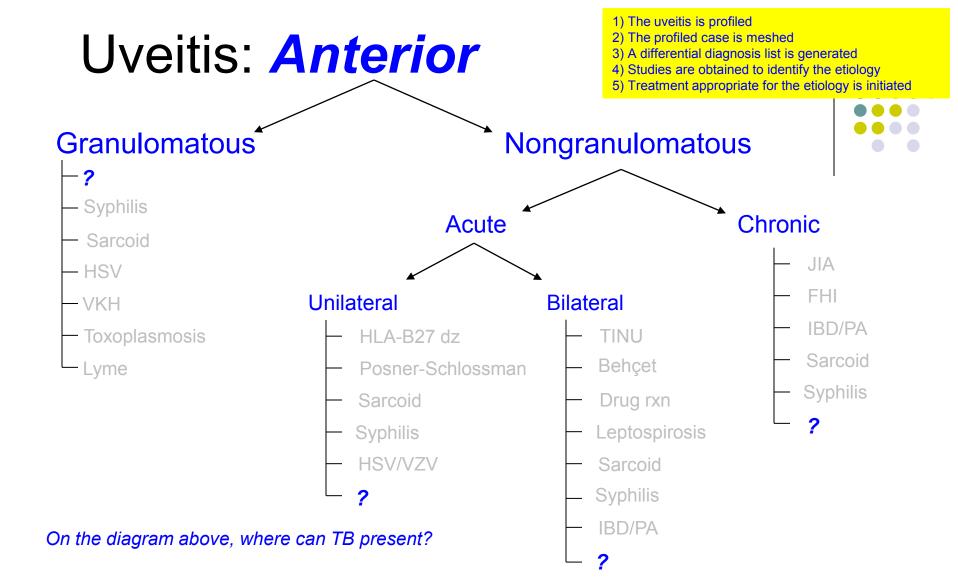


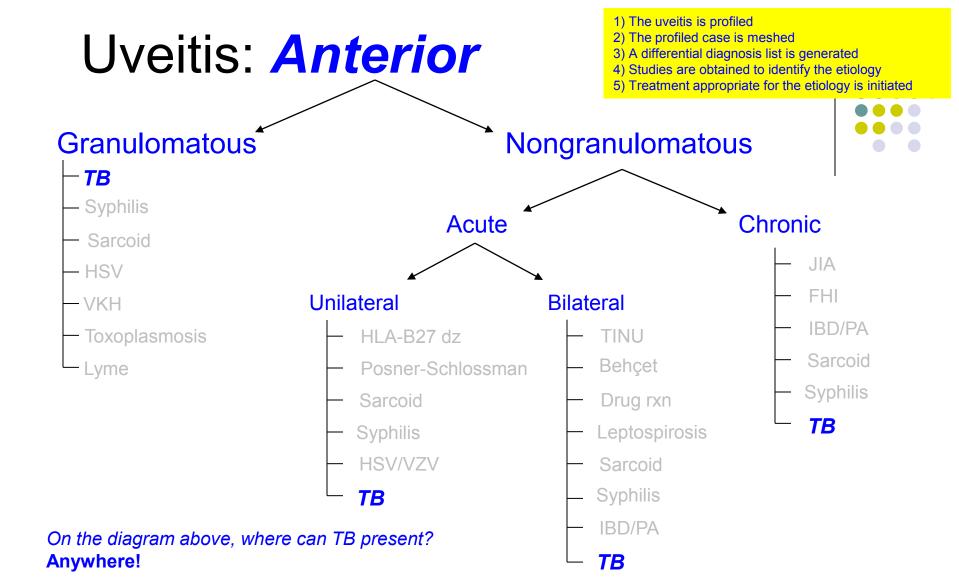


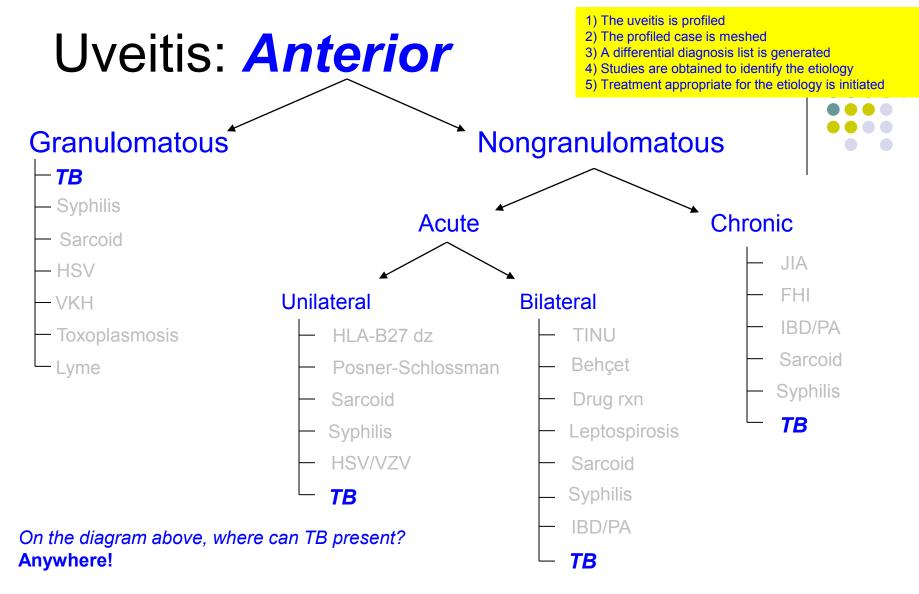




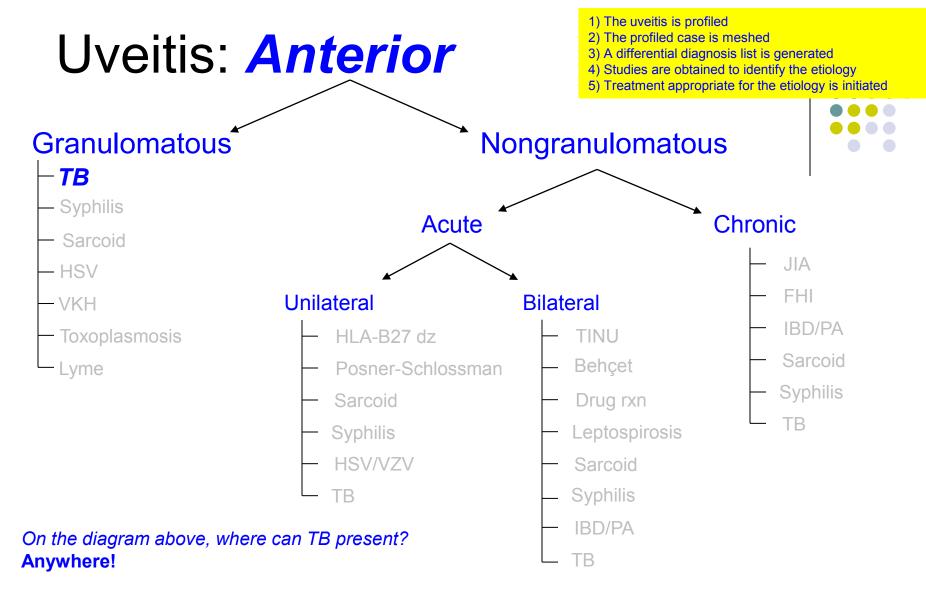




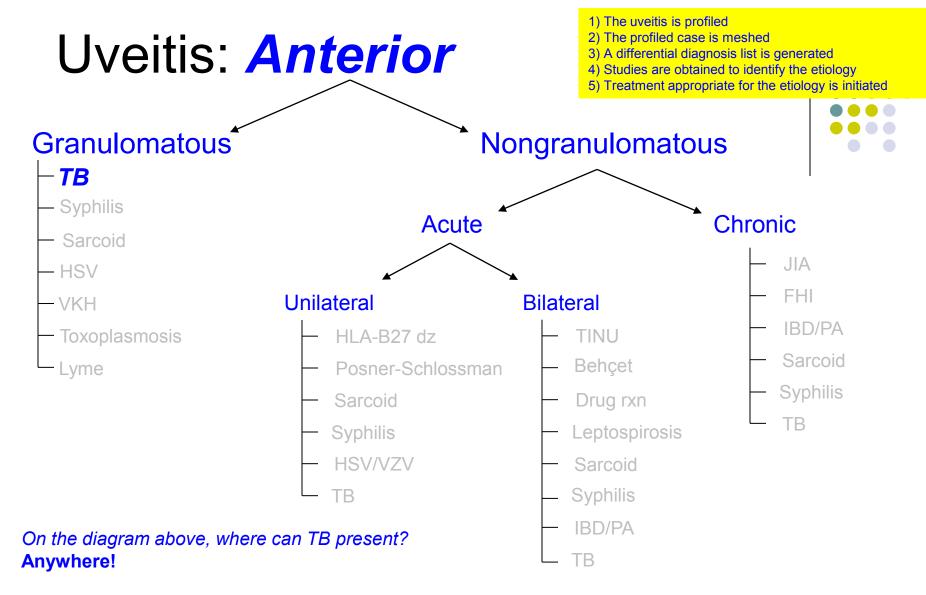




OK, but when TB presents as an anterior uveitis, in which form is it most likely to occur?

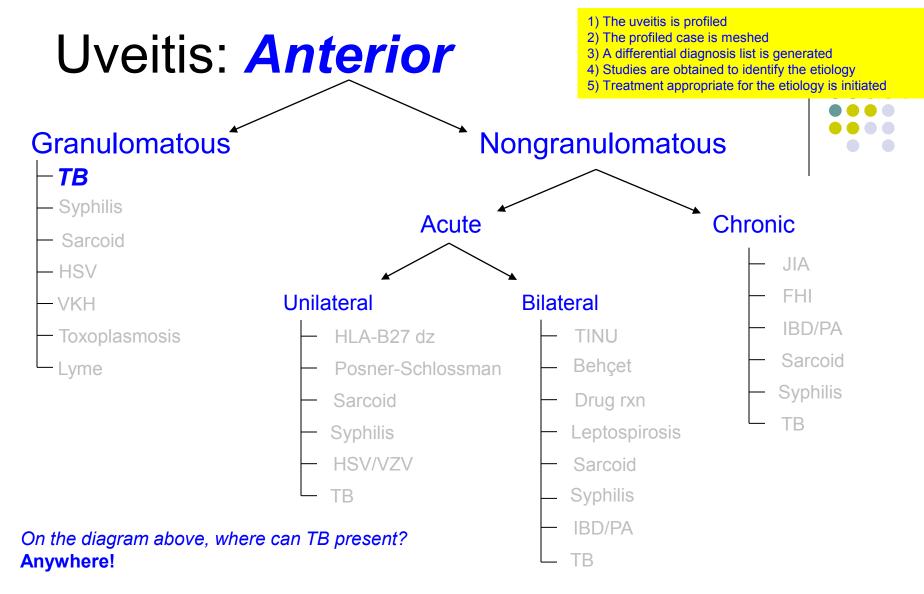


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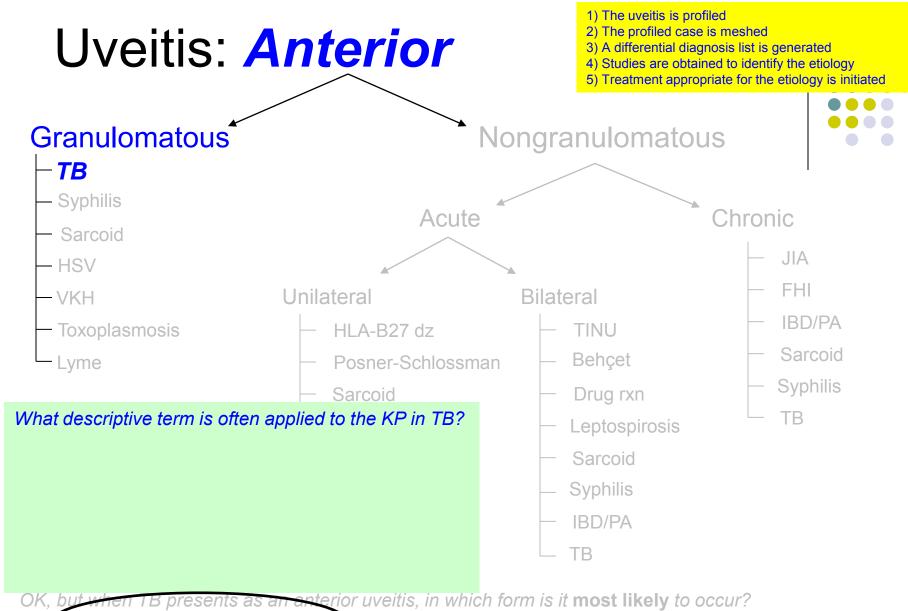
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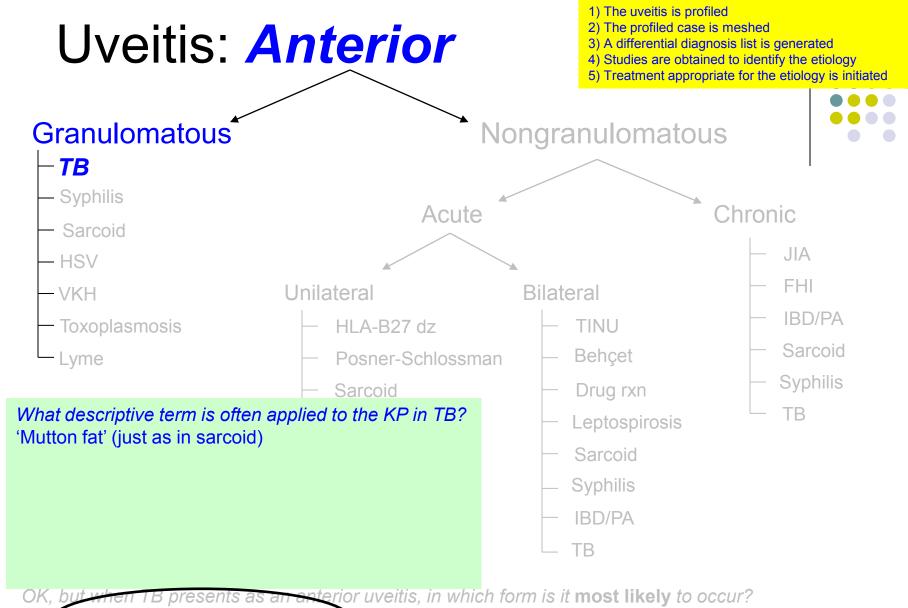
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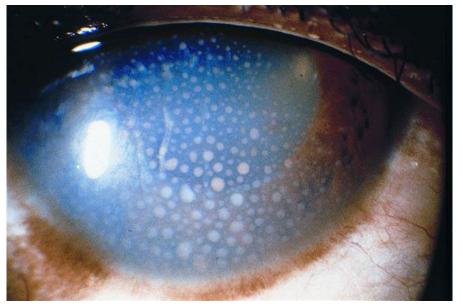


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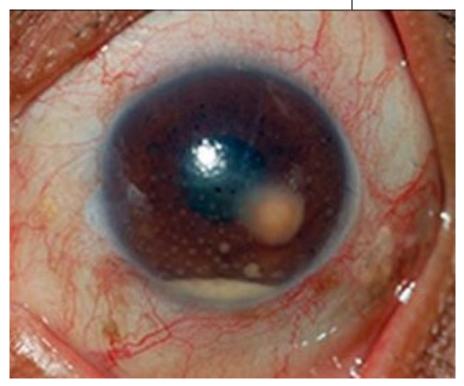
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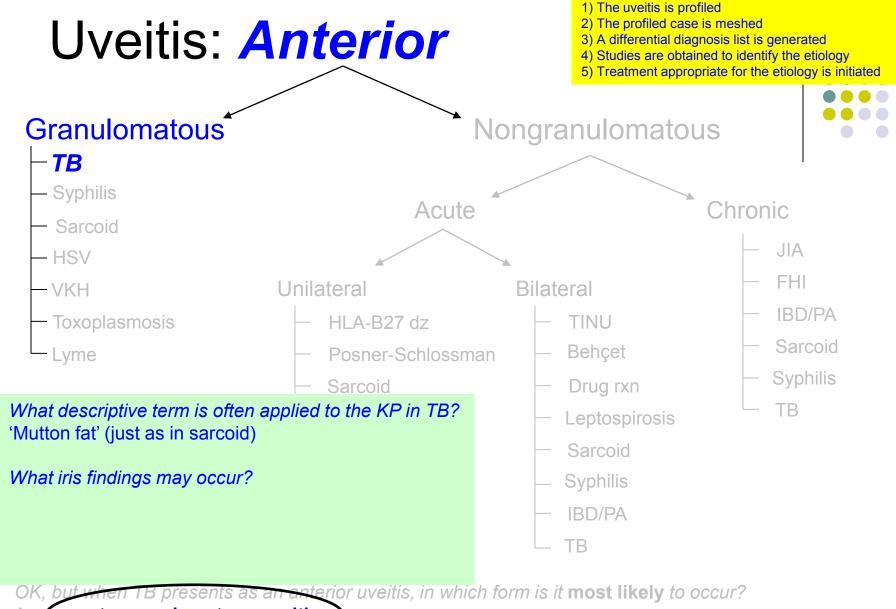




Sarcoid: Mutton-fat KP

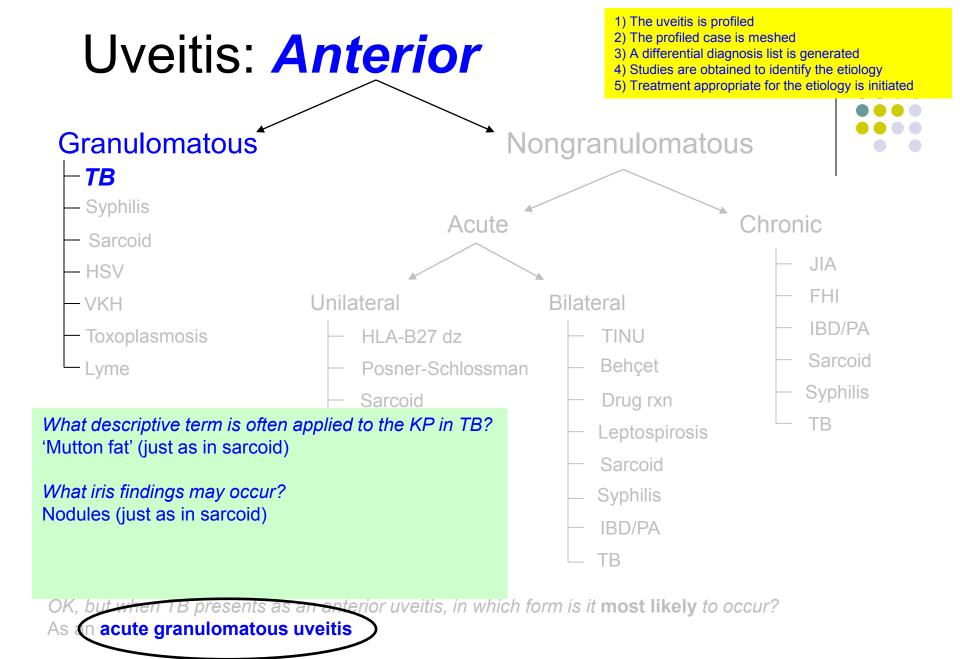


TB: Mutton-fat KP (note also the AC granuloma)



As in acute granulomatous uveitis

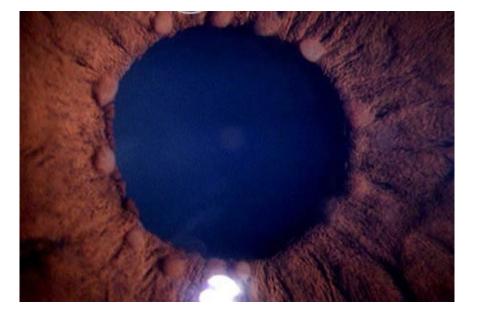
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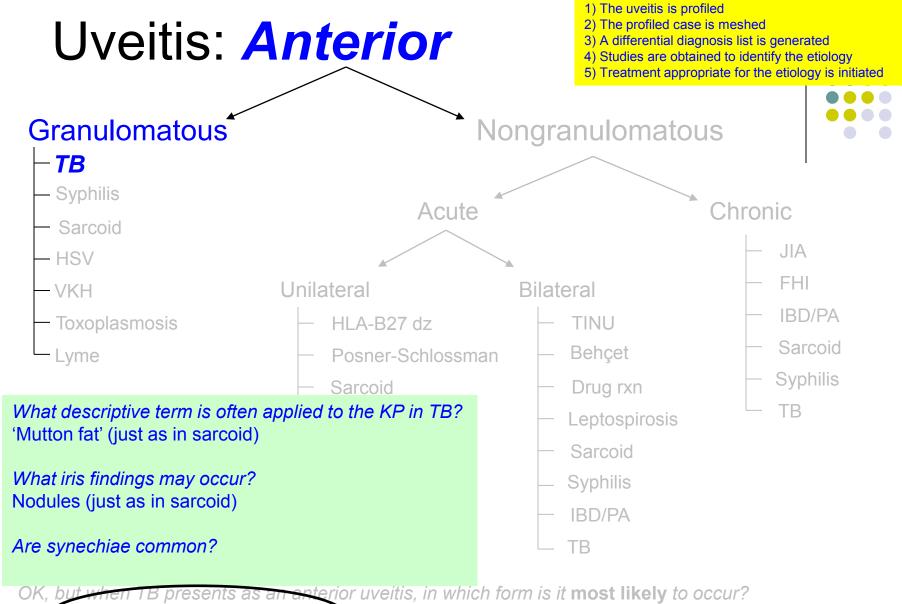




Sarcoid: Iris nodules

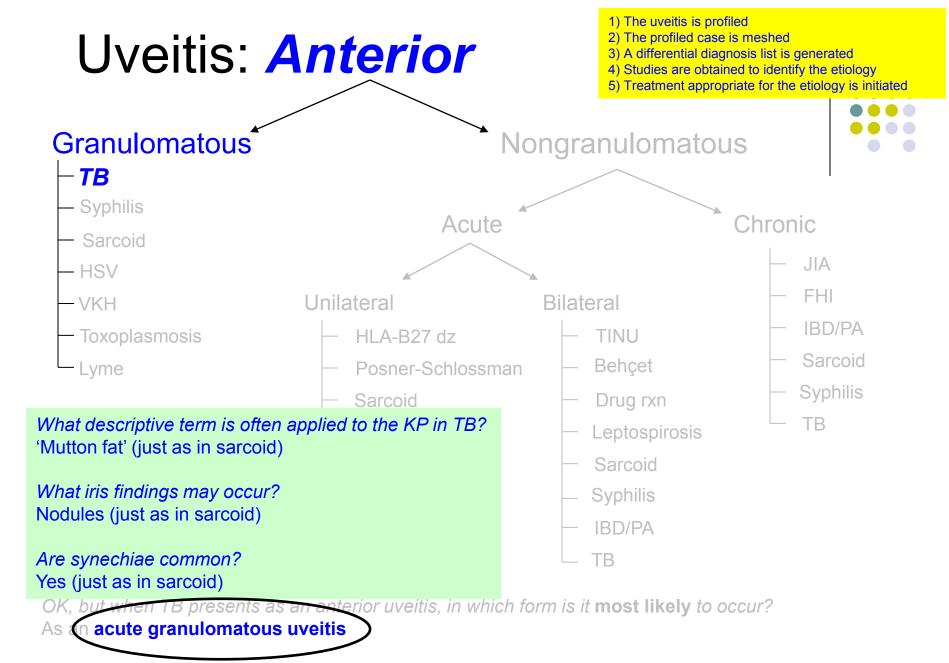
TB: Iris nodules

(I couldn't find any pics, but they should look like the sarcoid ones)



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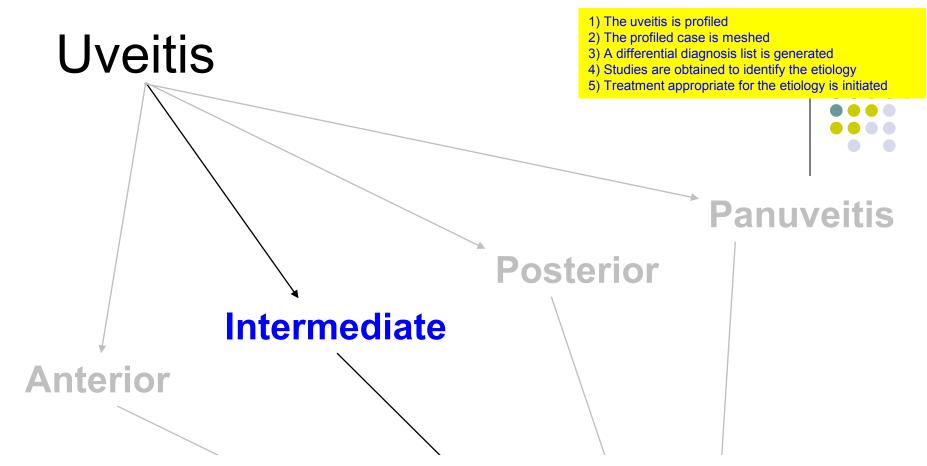
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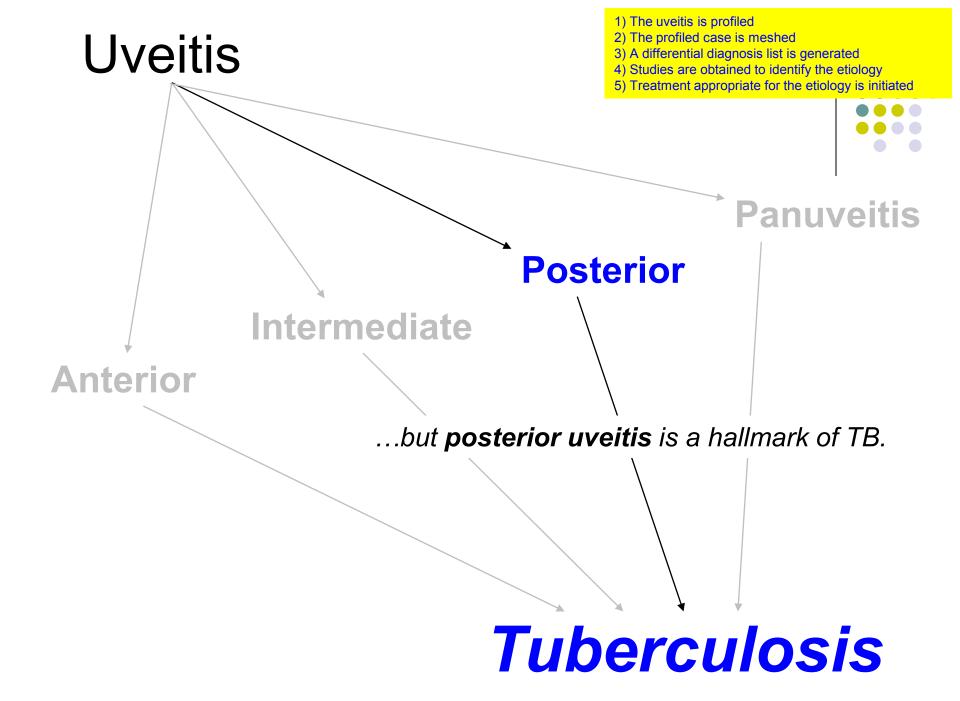


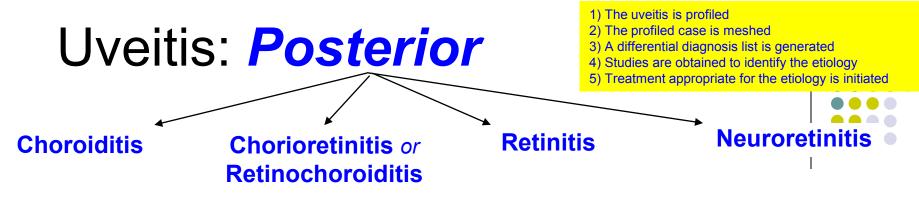
Sarcoid: Posterior synechiae (and the world's largest Busacca nodule) TB: Posterior synechiae



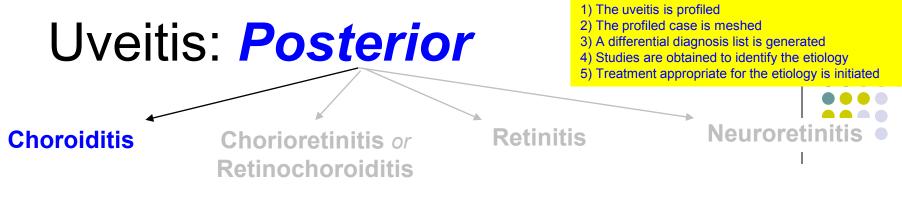
Isolated intermediate uveitis would be an unexpected presentation in TB...

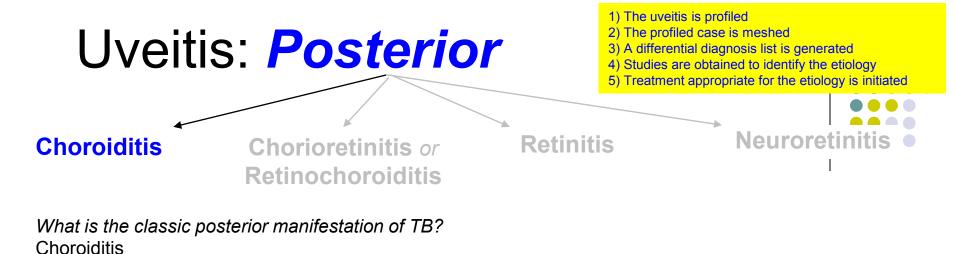
Tuberculosis



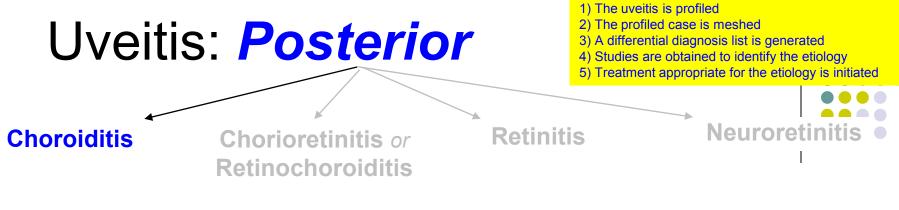


What is the classic posterior manifestation of TB?





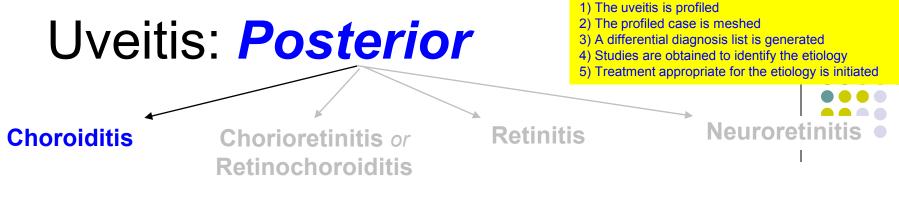
Why does TB have a special affinity for the choroid?



Foreshadowing alert payoff!

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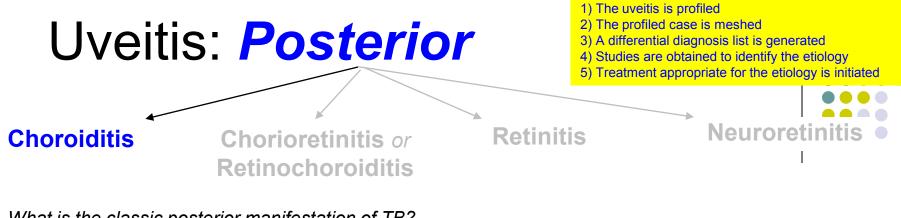
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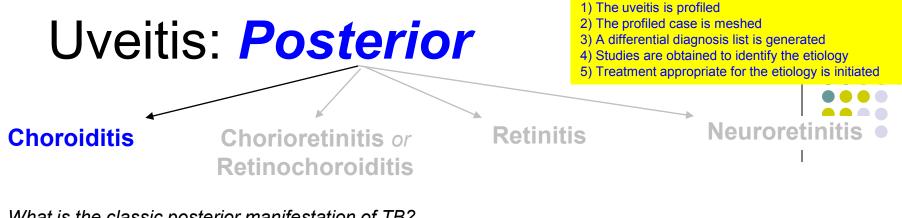
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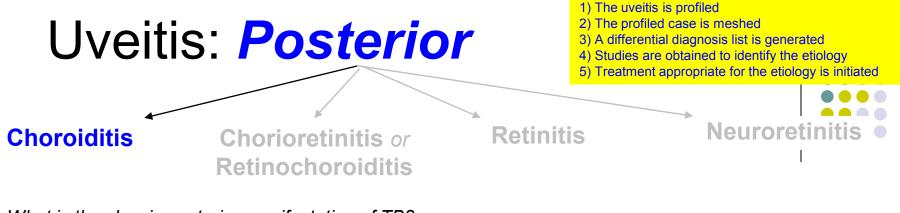


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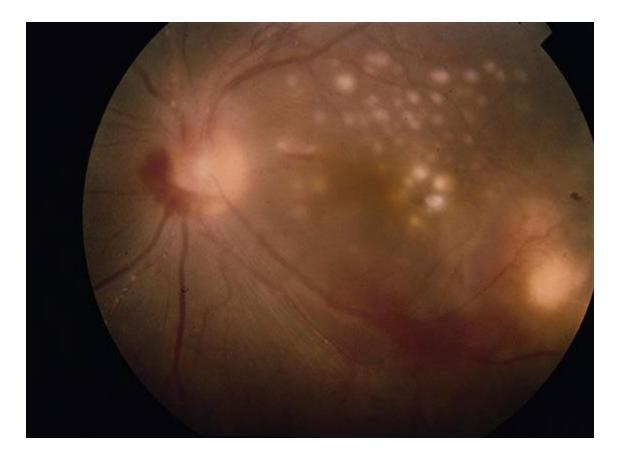
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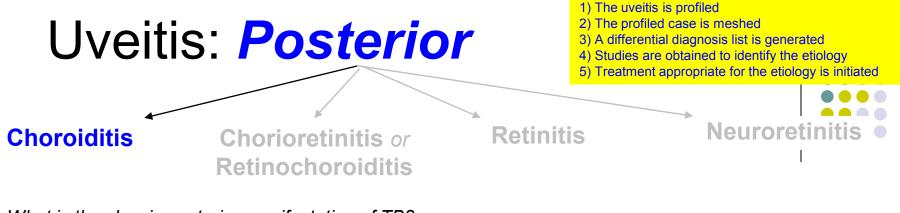
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Choroidal tubercles





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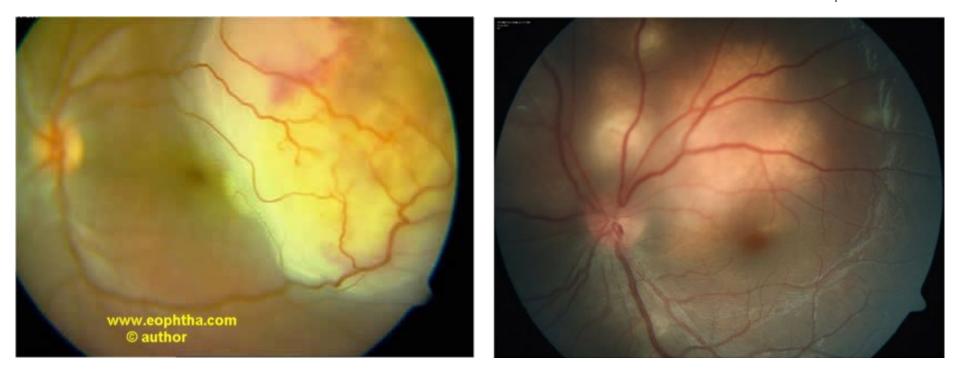
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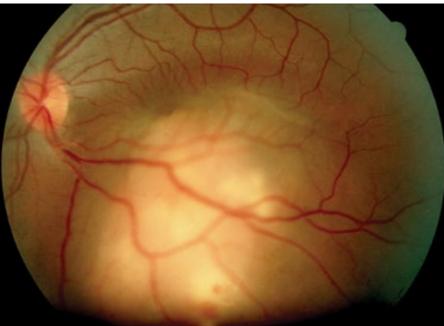
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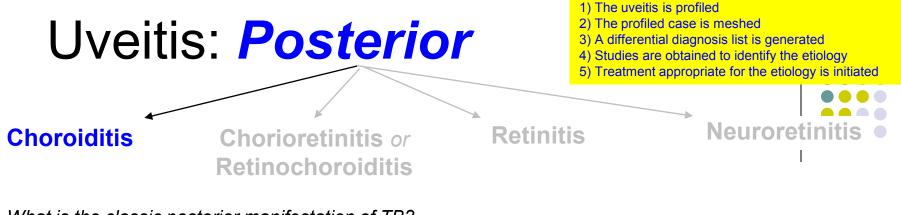
Large choroidal tubercles







TB choroiditis: Single large tubercle pre- and post-tx

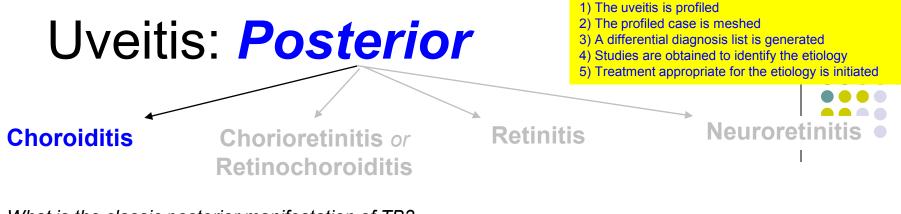


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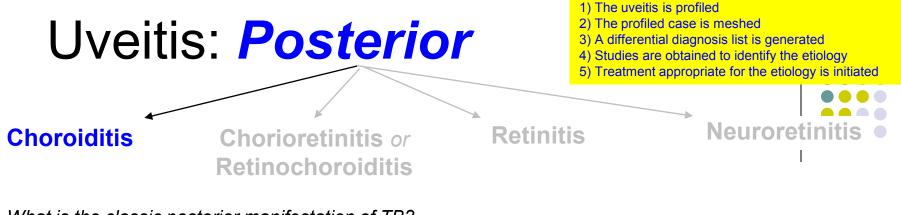


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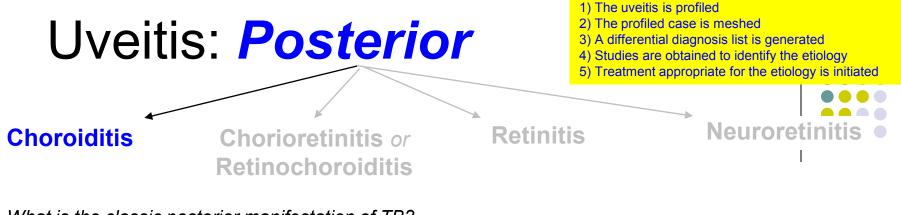
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Is the overlying retina affected?



Why does TB have a special affinity for the choroid?

Recall TB has an affinity for those areas of the body with especially high O_2 tension (eg, the lung apices). The choroid has the highest blood flow in the entire body, and thus is extremely well oxygenated.

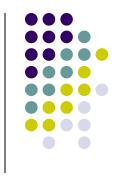
How does TB choroiditis present? Usually as multiple (up to hundreds) small (1/3 - 2 DD) yellowish lesions known as **tubercles**. Occasionally, only one large (2 - 10 DD) tubercle will be present.

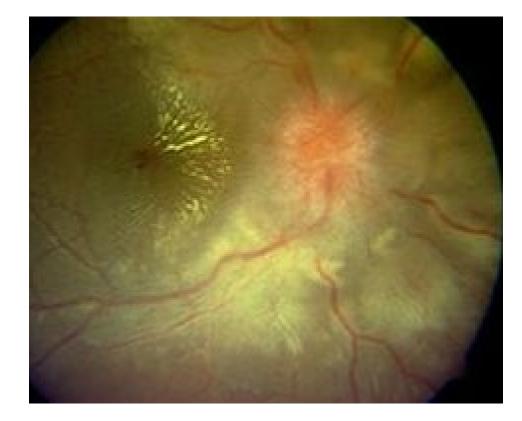
Do these tubercles tend to be found in the posterior pole, or more peripherally? The posterior pole

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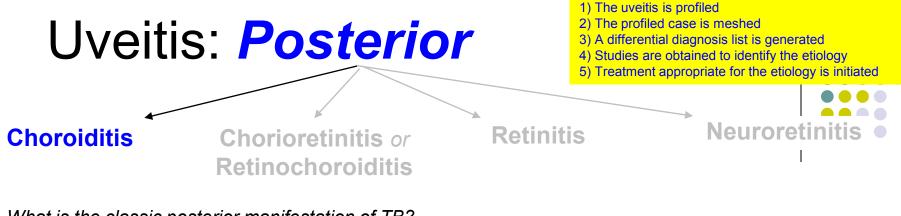
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Macular star 2ndry to TB chorioretinitis



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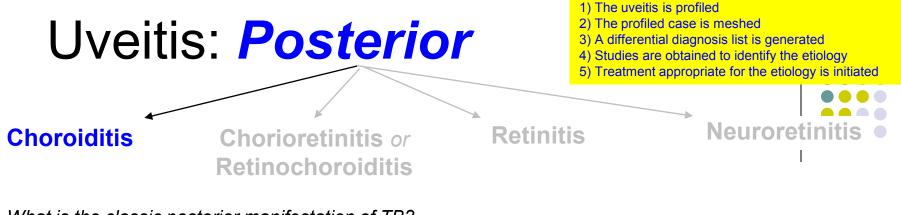
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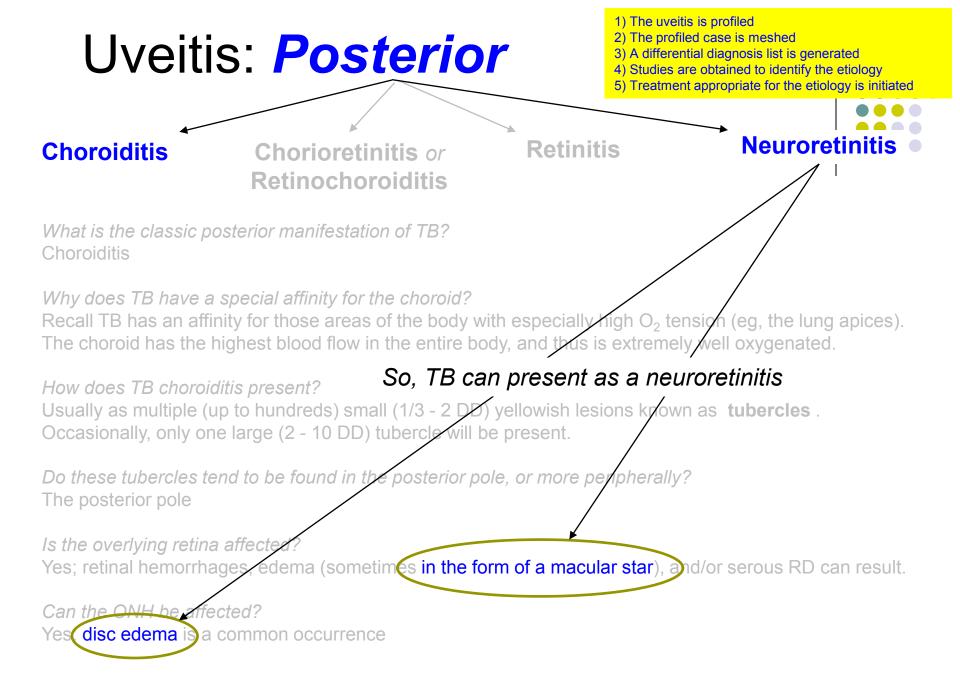
Can the ONH be affected? Yes; disc edema is a common occurrence

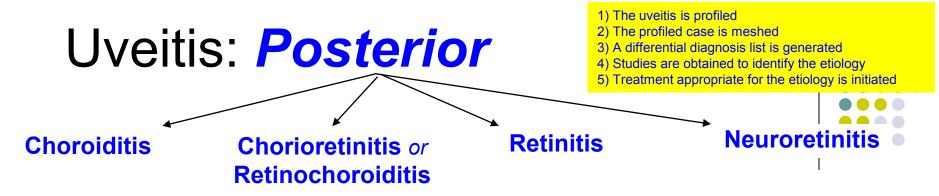




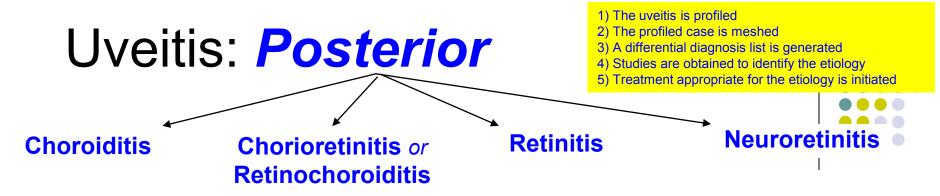


Dis edema in TB

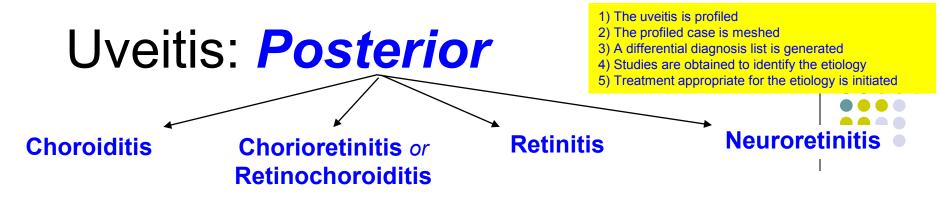




There is another classic posterior manifestation that involves the retina. What is its eponymous name?

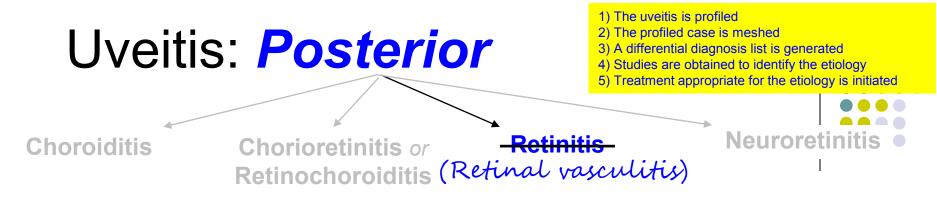


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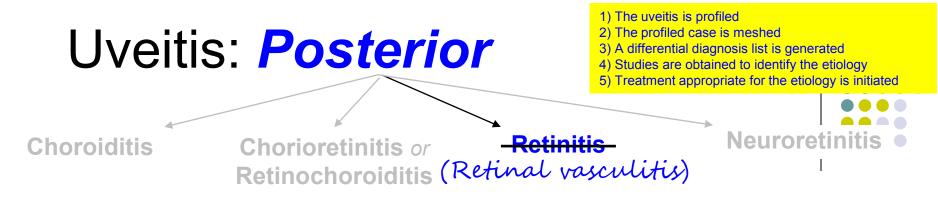
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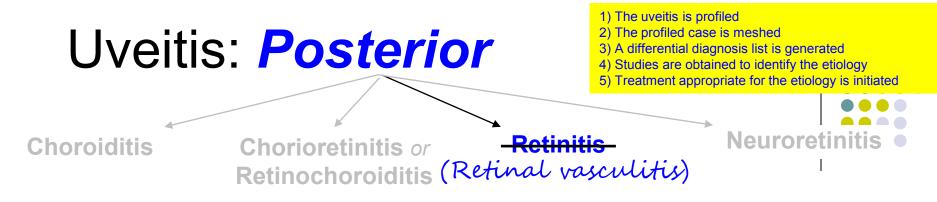
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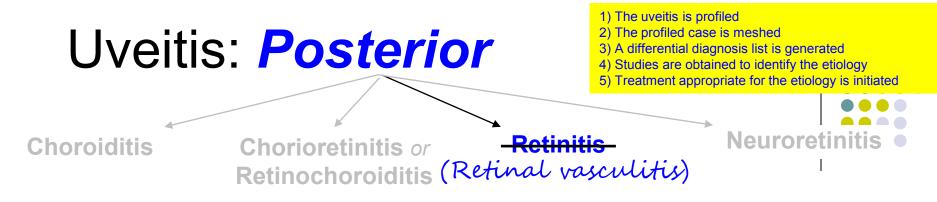
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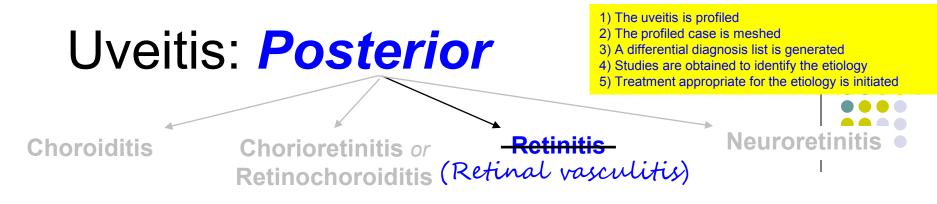
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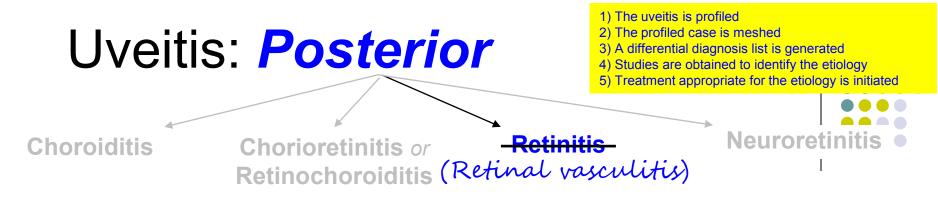
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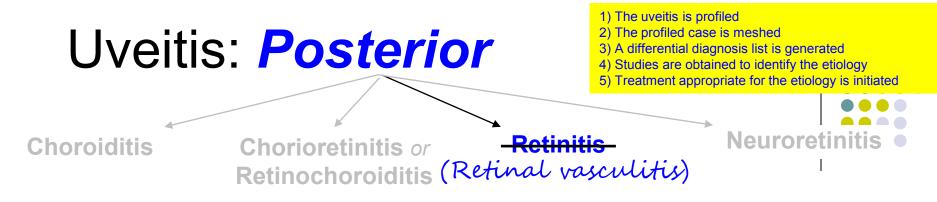
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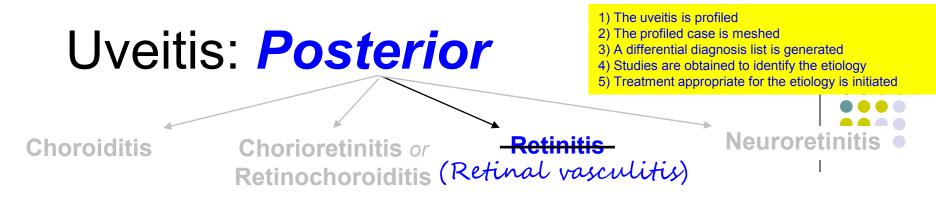


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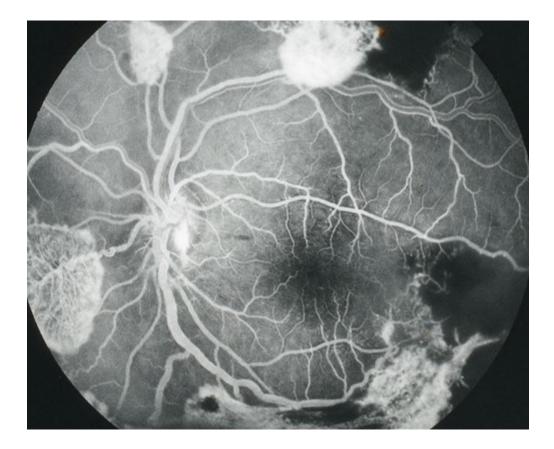
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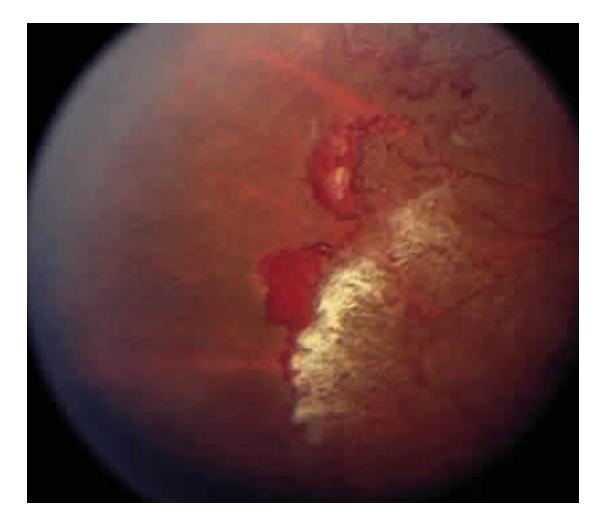
How does Eales dz present?

As a peripheral vascular occlusive disease with retinal hemorrhages. In time, retinal nonperfusion can lead to neovascularization and tractional RD



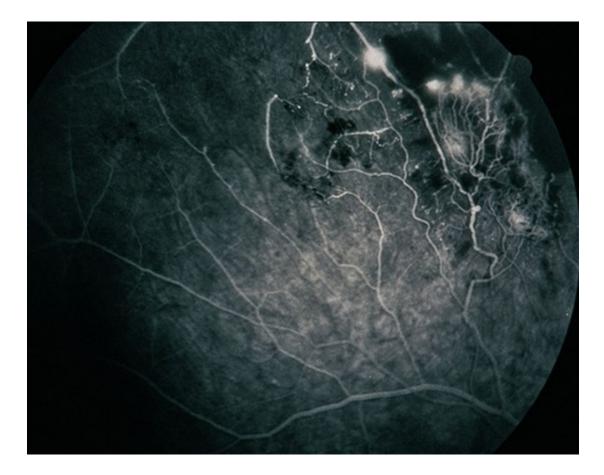


Eales disease: Peripheral neo



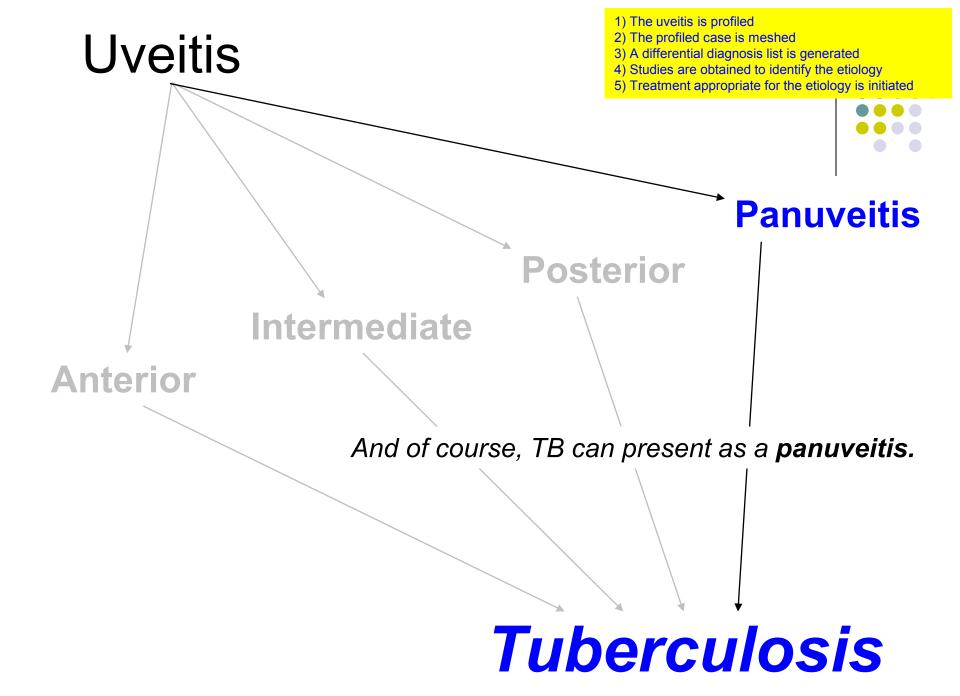


Eales disease: Peripheral neo





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2) The profiled case is meshed

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Note that the characteristics that increase the risk of a false-negative PPD are the same as those that put someone at risk of having TB in the first place!



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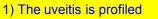
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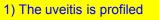
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--Chest imaging
--PET scanning
--Culture and staining of sputum, urine, and gastric samples
--Lymph node biopsy for microbiologic analysis

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1) The uveitis is profiled 2) The profiled case is meshed



Diagnosis

How is the diagnosis of TB made?

Definitively, only via observation of the organism on a specimen. More commonly, the diagnosis is made presumptively on other, indirect evidence.

What 'presumptive evidence' tests are commonly employed?

--PPD

--QuantiFERON Gold

Does a positive PPD and/or QuantiFERON test prove the pt has active TB? No—it only proves they have been infected by/exposed to it

The PPD has a high false-negative rate. What characteristics put a TB-positive individual at risk for a false-negative PPD?

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Treatment

What two overarching principles guide TB treatment?

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- 2) The profiled case is meshed
- 3) A differential diagnosis list is generated
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What two overarching principles guide TB treatment? --Multidrug regimen is employed --Directly-observed therapy (DOT) is utilized 1) The uveitis is profiled

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