Basics

In one word, what sort of condition is Behçet disease (BD)?

1) The uveitis is profiled

2) The profiled case is meshed

3) A differential diagnosis list is generated

4) Studies are obtained to identify the etiology



Basics

In one word, what sort of condition is Behçet disease (BD)? A vasculitis

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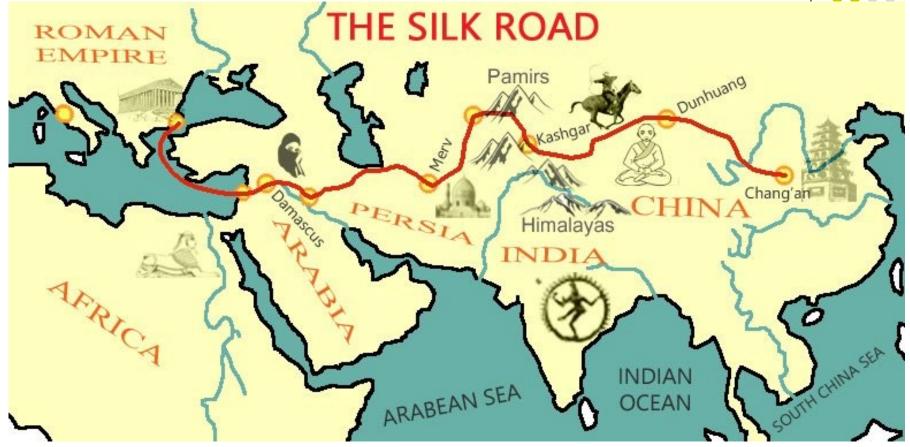
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Which specific country has the highest rate of BD? Turkey, in which the prevalence may be as high as 300 per 100,000 individuals

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Is BD common in the US? What is the prevalence here?

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Is BD common in the US? What is the prevalence here? It is an uncommon disease in the US, with a prevalence of about 0.4 per 100,000

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Is there a gender predilection? This is controversial. The literature seems to suggest a male preponderance; however, many researchers feel this represents sampling bias, and argue the prevalence is roughly equal between men and women. That said, men are more likely to present with ocular manifestations, and are more likely to suffer severe/sight-threatening ocular disease. Thus, thinking of BD as having a male preponderance *might* be useful when meshing a uveitis case for the OKAP and/or Boards.

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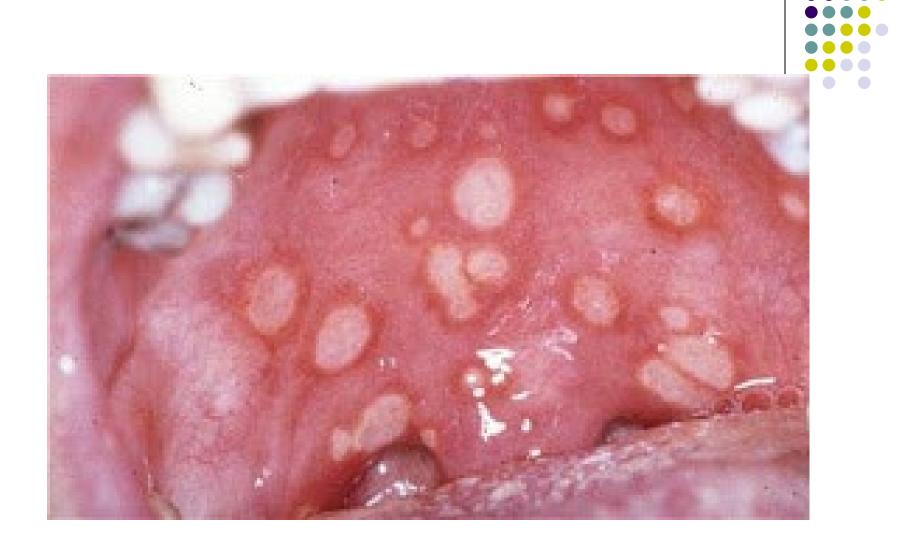
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Behçet, multiple oral aphthae



Behçet, single oral aphthus





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Are the oral ulcers painful?

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What is the classic rash?

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What is the classic rash? Erythema nodosum 1) The uveitis is profiled

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Where is the classic location in BD (and other diseases)?

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Where is the classic location in BD (and other diseases)? The pre-tibial region

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Erythema nodosum in Behçet

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What do the genital ulcers look like?

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What do the genital ulcers look like? Like the oral ulcers--small, with raised margins

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Behçet: Ulcer

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What joint is classically affected in BD?

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Besides the above-mentioned manifestations and ocular inflammation, what other organ systems can be involved?



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--GI

- --Lung
- --CNS

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Skin rash, genital ulcers and arthralgias

Besides the above-mentioned manifestations and ocular inflammation, what other organ systems can be involved? Any organ-system can be affected; however, involvement of the following systems is classic: --**Cardiac**: Inflammation of the coronary arteries and/or of cardiac tissue itself (eg, endocarditis; pericarditis) --**GI**: Ulcers (often multiple) of the pre-colonic GI tract --**Lung**: Pulmonary arteritis --**CNS**: (common manifestations?)

1) The uveitis is profiled

2) The profiled case is meshed

3) A differential diagnosis list is generated

4) Studies are obtained to identify the etiology



Basics

In one word, what sort of condition is Behçet disease (BD)? A **vasculitis**

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Of these, which is considered to be the most ominous? CNS (aka 'Neuro-BD') carries a significant mortality risk

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0/2

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What is the cause of BD?

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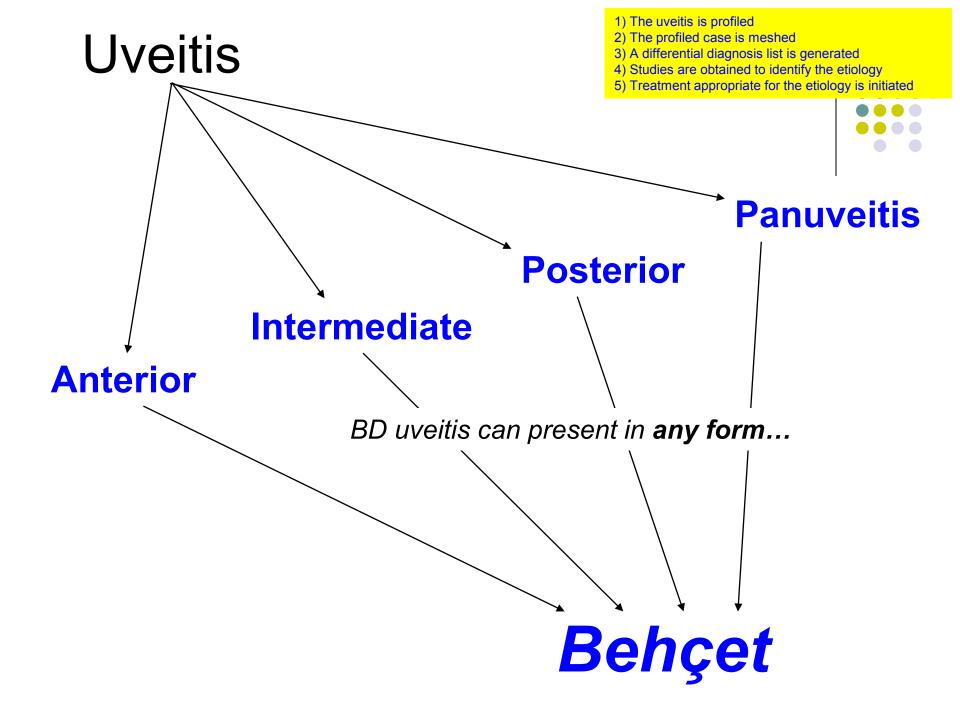
What is the cause of BD? It is unknown at this time 1) The uveitis is profiled

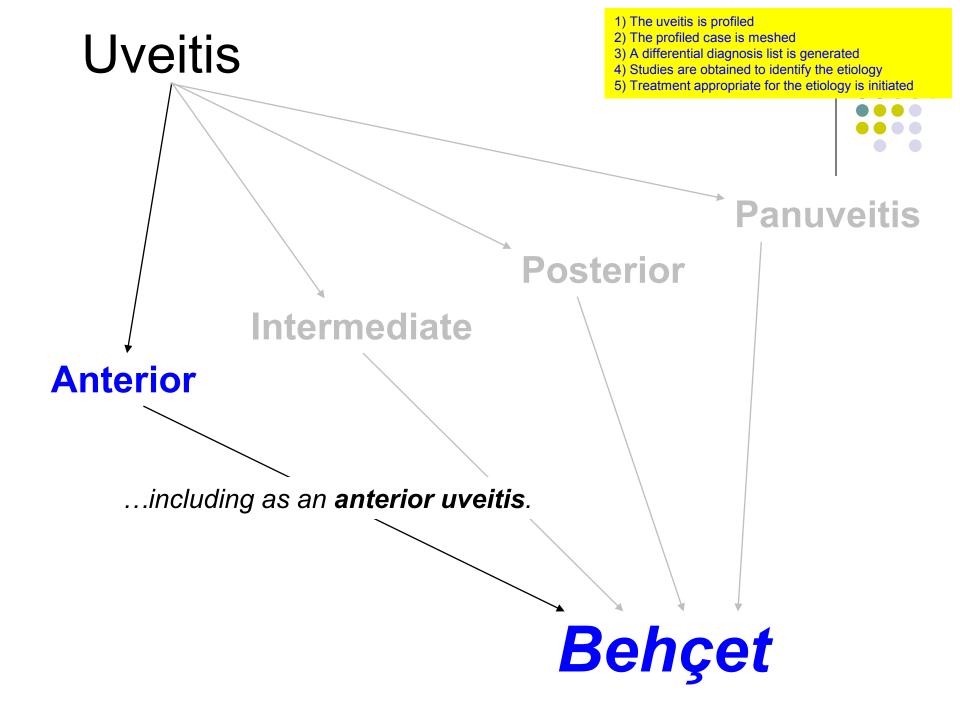
2) The profiled case is meshed

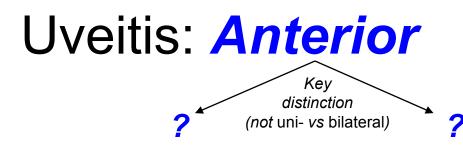
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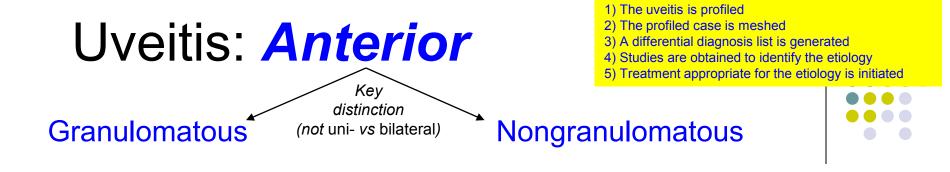




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Uveitis: Anterior

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3) A differential diagnosis list is generated

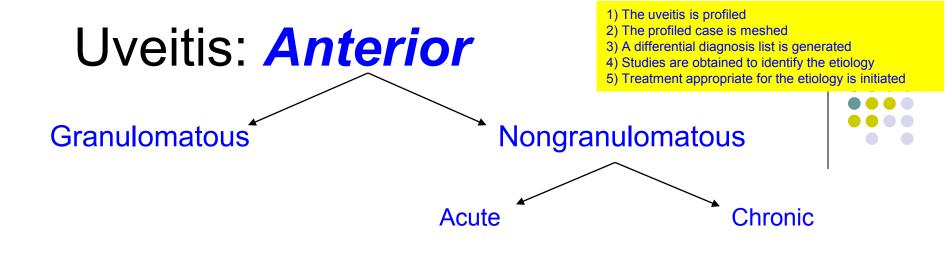
4) Studies are obtained to identify the etiology

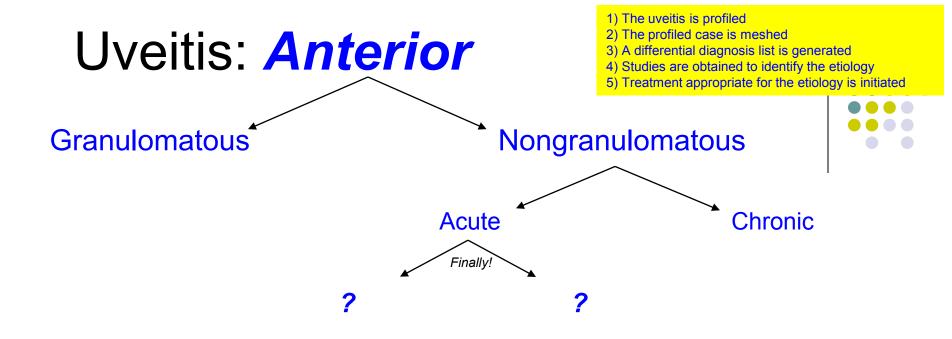
5) Treatment appropriate for the etiology is initiated

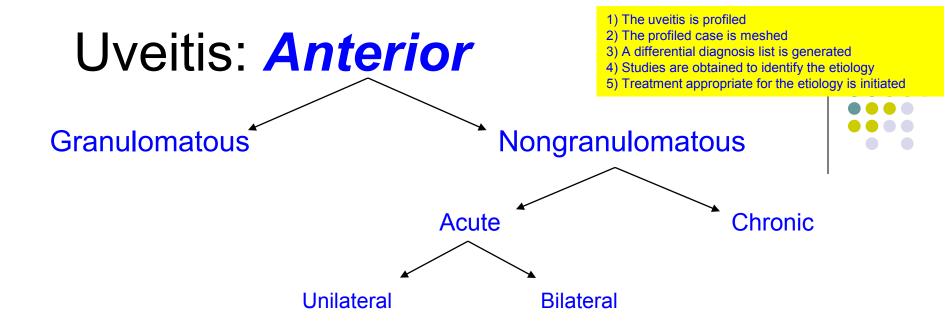
Granulomatous

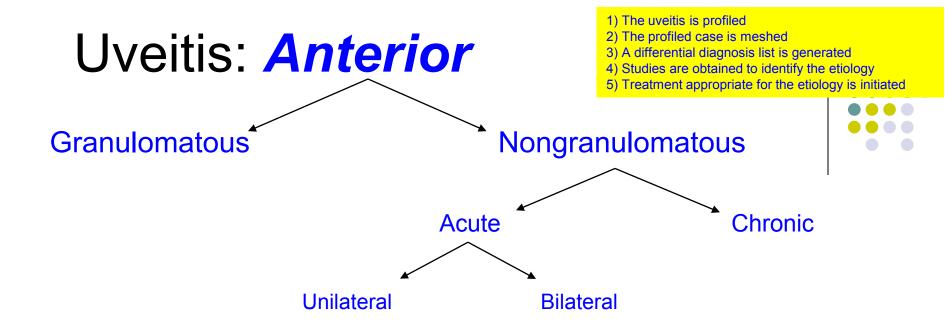
Nongranulomatous

Key distinction (not uni- vs bilateral) 2

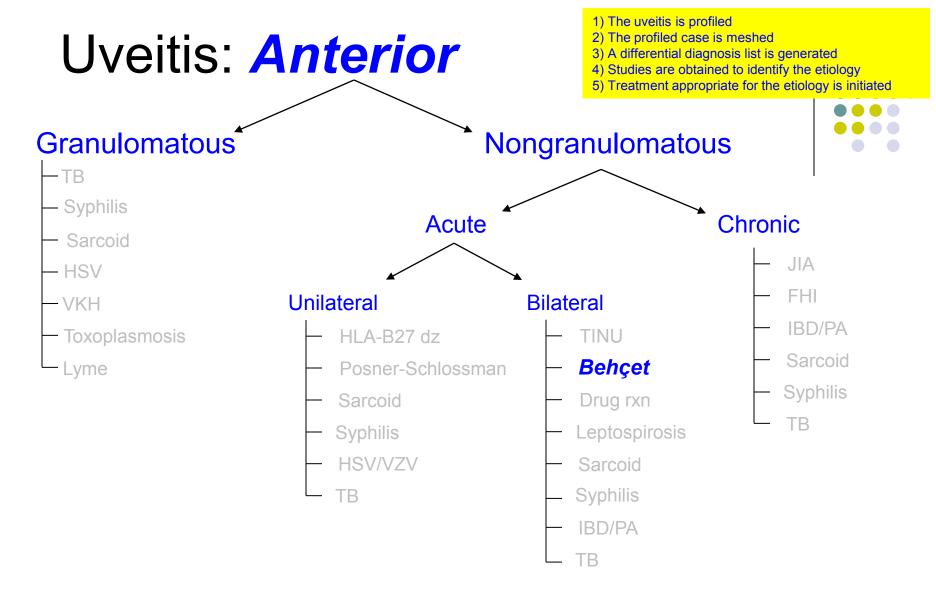




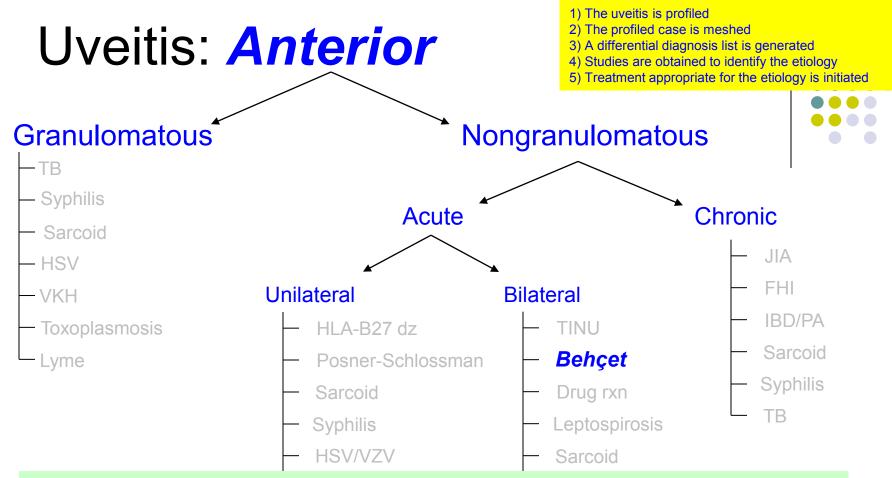




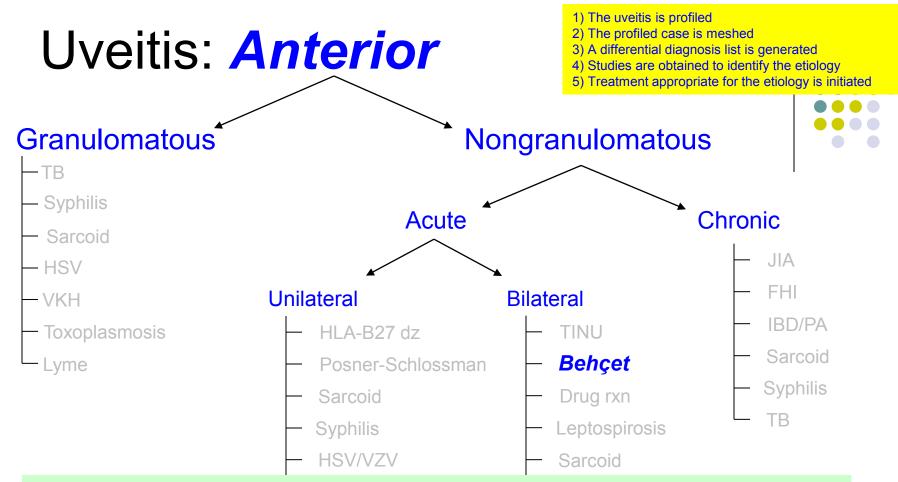
When BD presents as an anterior uveitis, in which form is it most likely to occur?

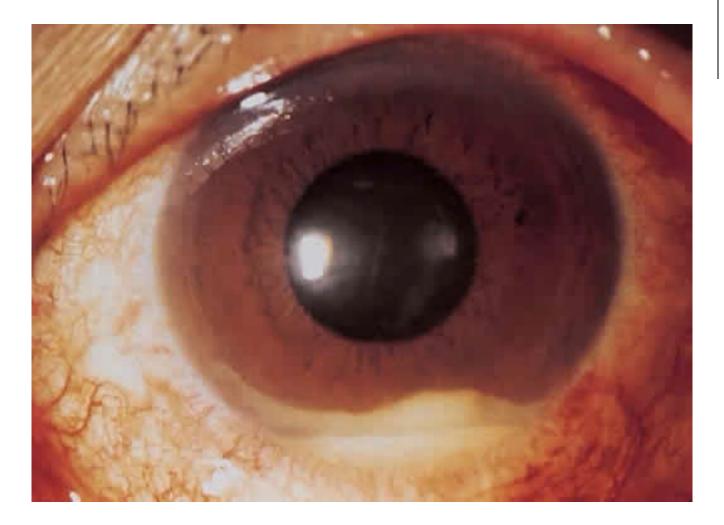


When BD presents as an anterior uveitis, in which form is it most likely to occur? As an **acute bilateral nongranulomatous uveitis**



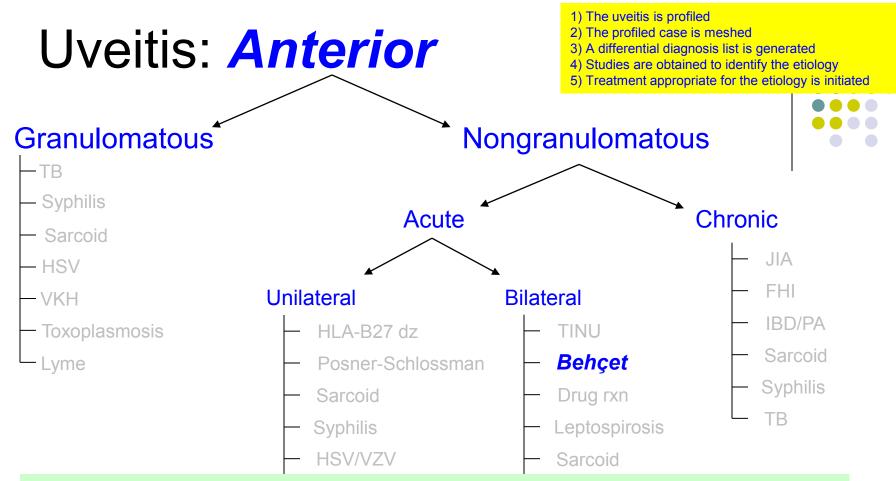
In those cases wherein BD presents as an acute anterior uveitis, what is the classic presentation?



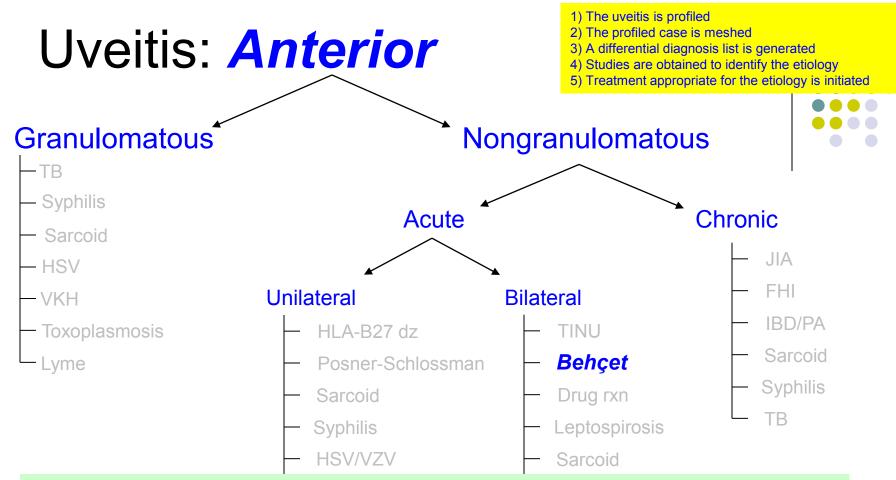




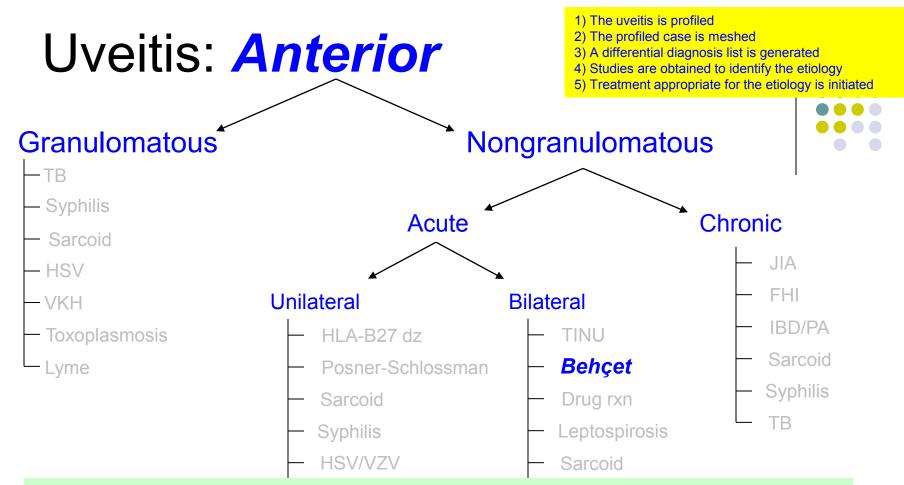
BD: Hypopyon



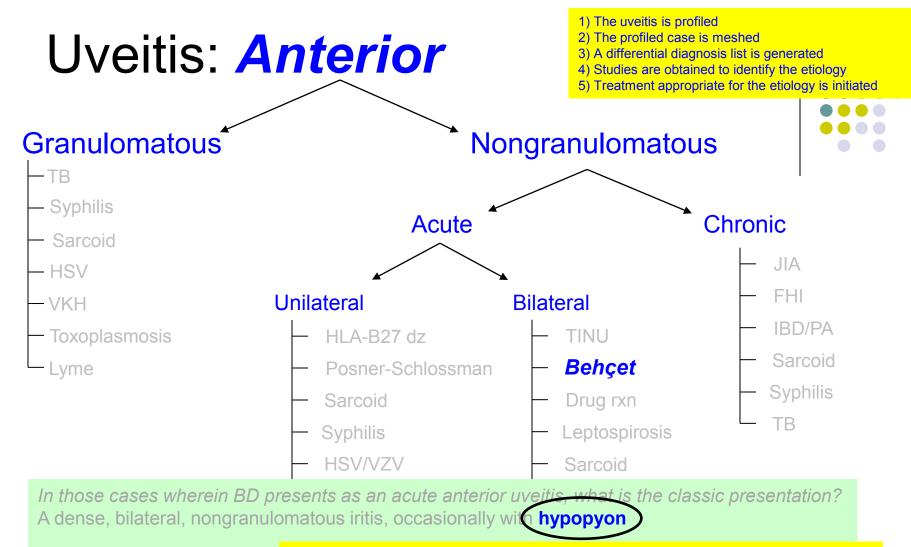
What percent of cases develop hypopyon?



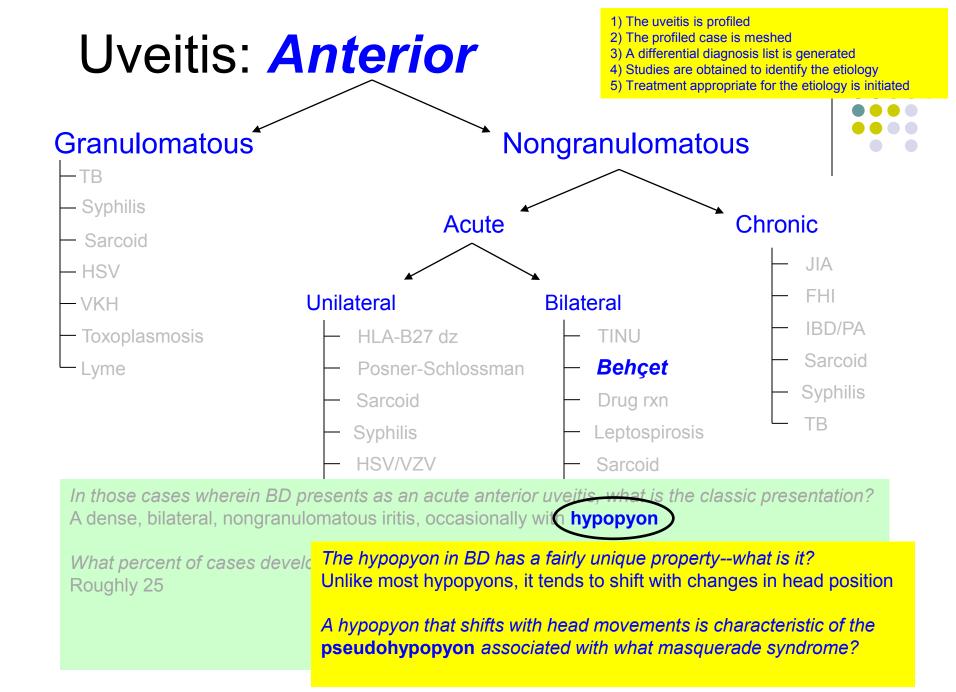
What percent of cases develop hypopyon? Roughly 25

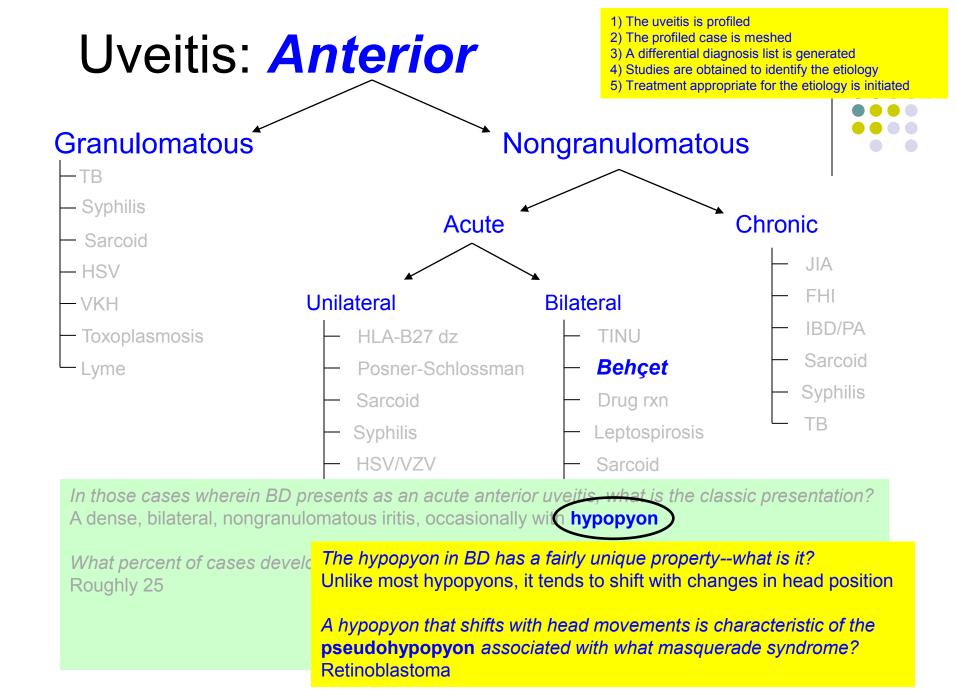


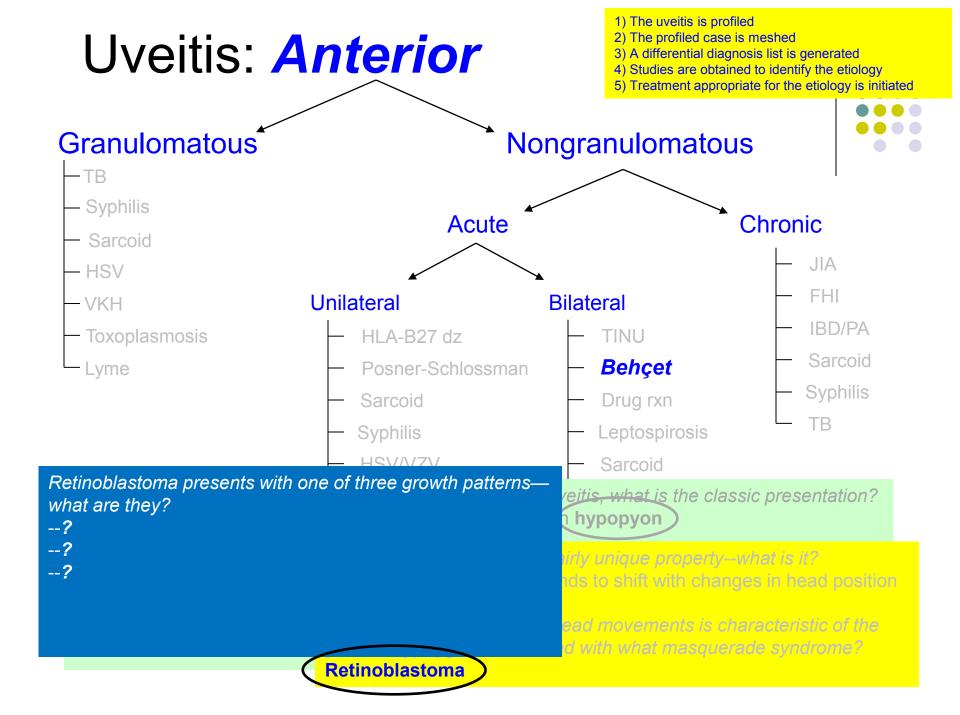
What percent of cases develoe **The hypopyon in BD has a fairly unique property--what is it?** Roughly 25

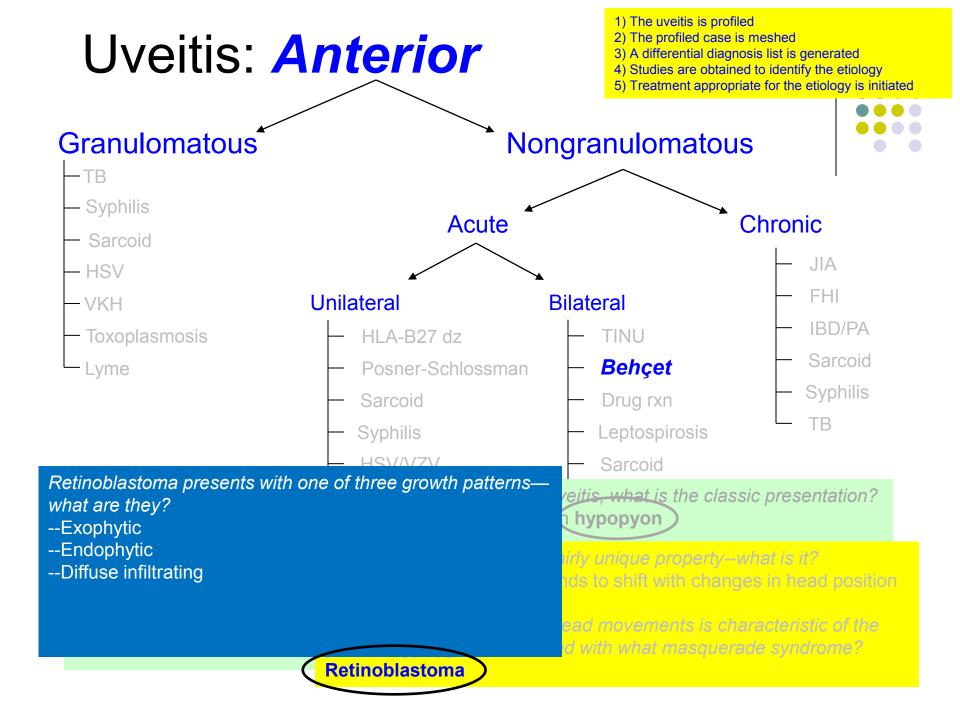


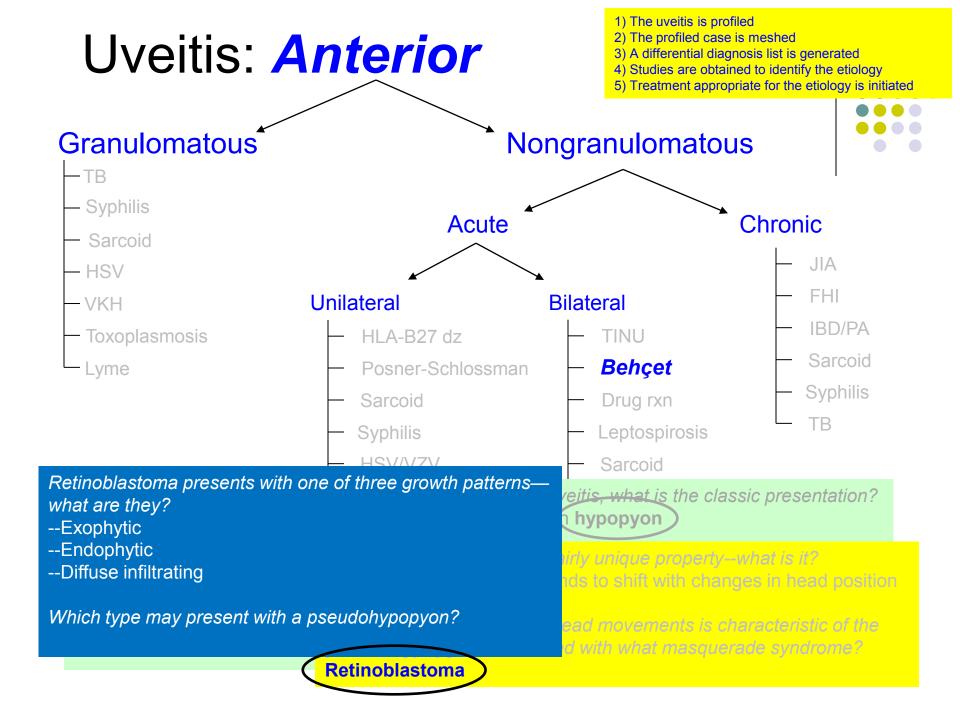
What percent of cases develoThe hypopyon in BD has a fairly unique property--what is it?Roughly 25Unlike most hypopyons, it tends to shift with changes in head position

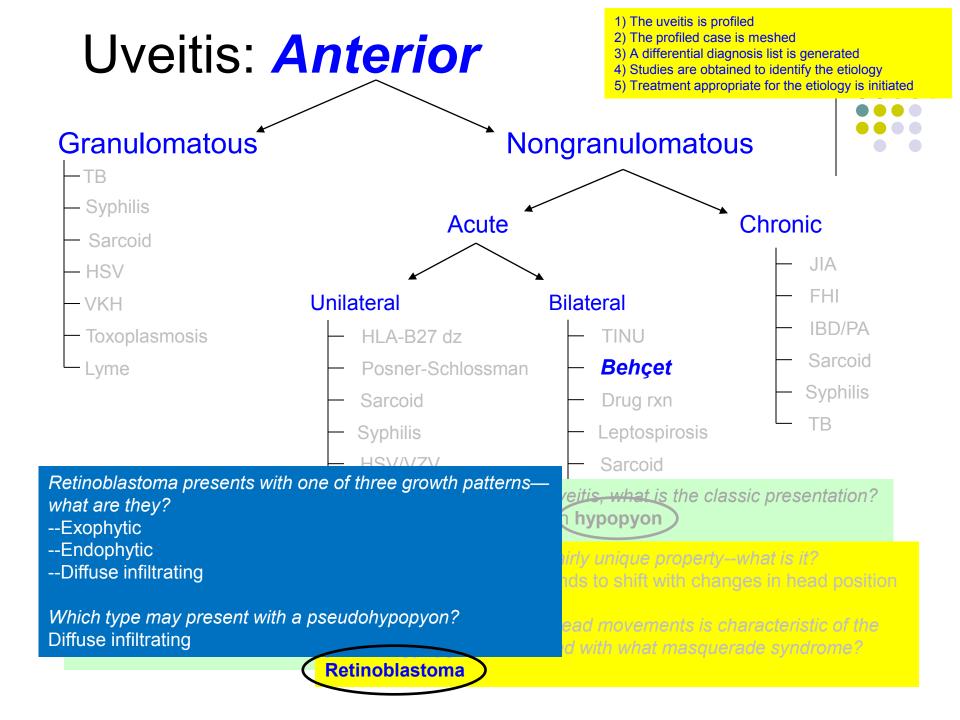


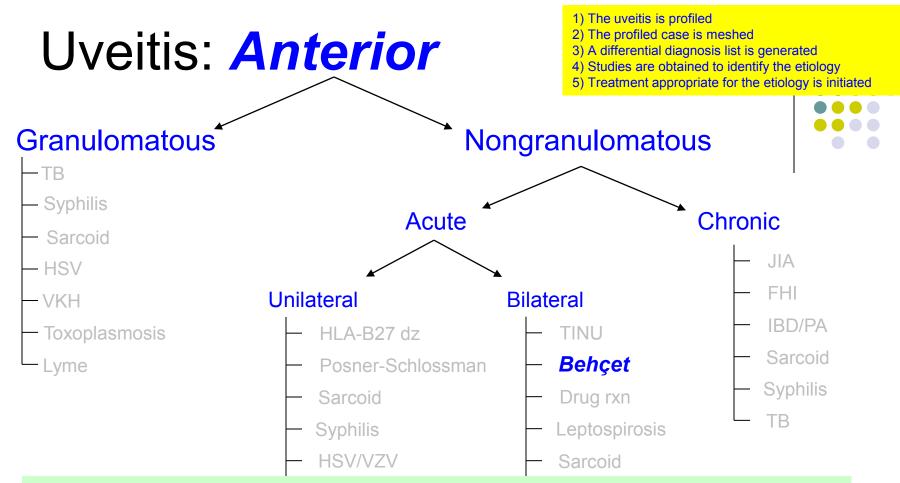






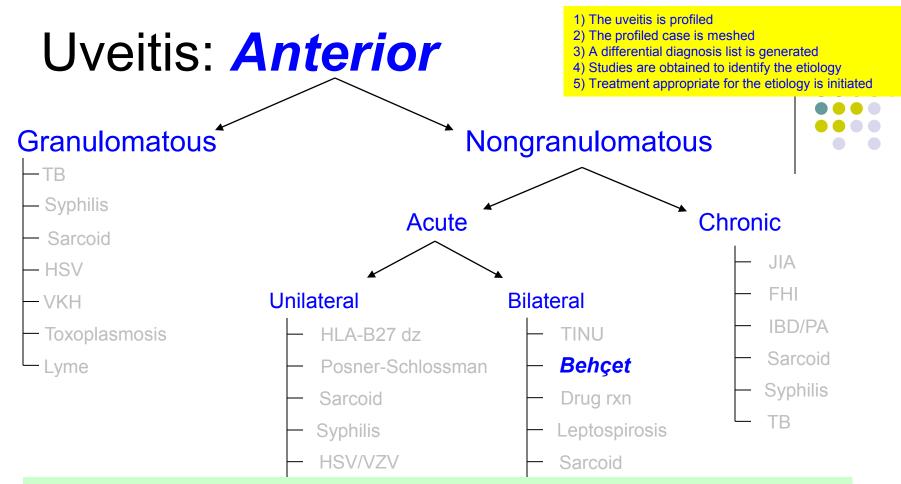






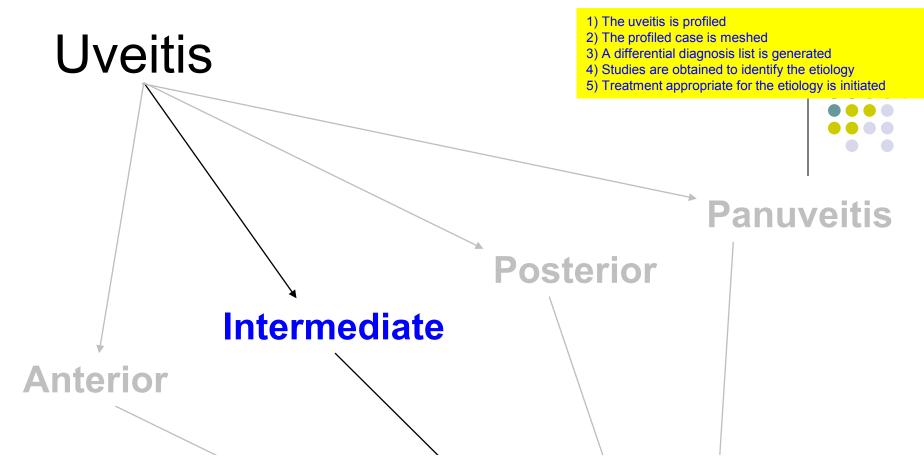
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What word is often used to characterize the onset of BD anterior uveitis?



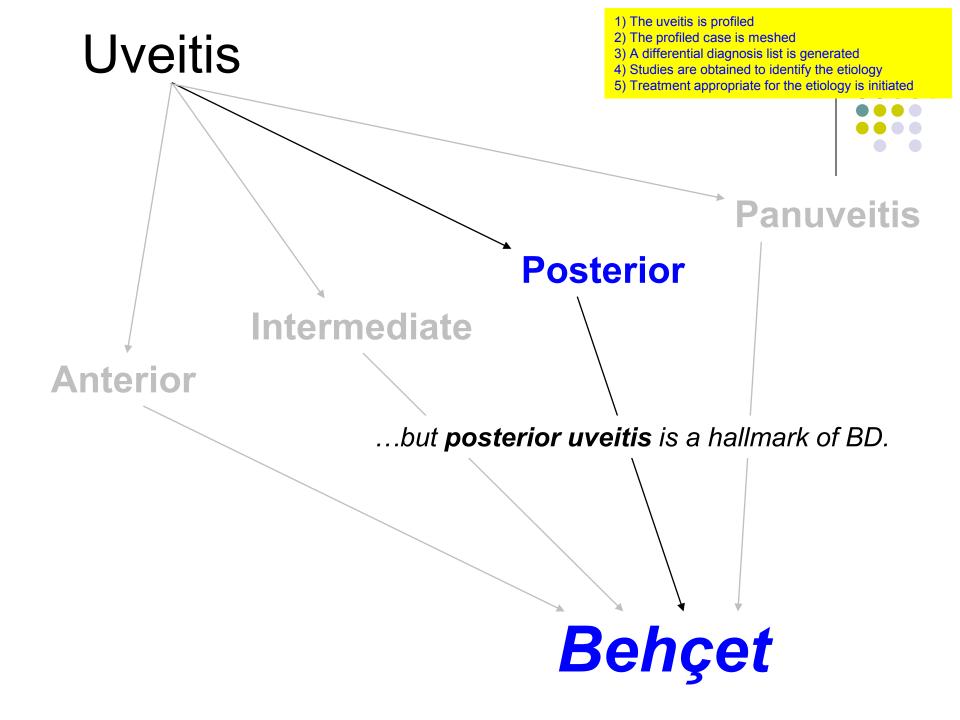
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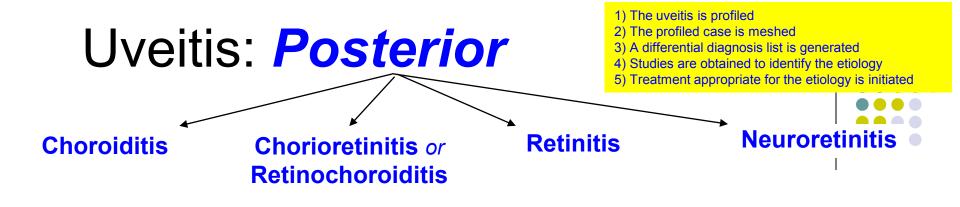
What word is often used to characterize the onset of BD anterior uveitis? Explosive! In BD, an eye can go from 'quiet' to severely inflamed in a matter of hours



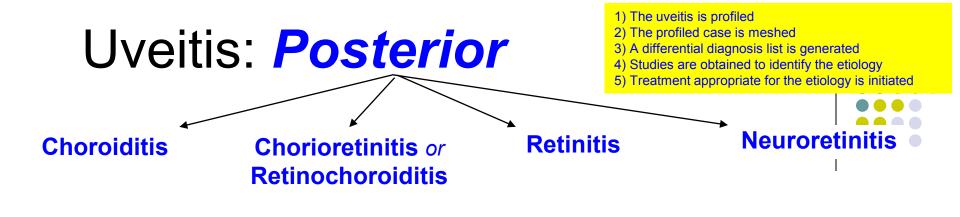
Isolated intermediate uveitis would be an unexpected presentation in BD...

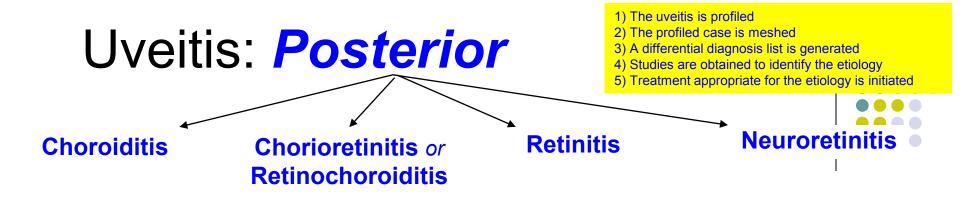




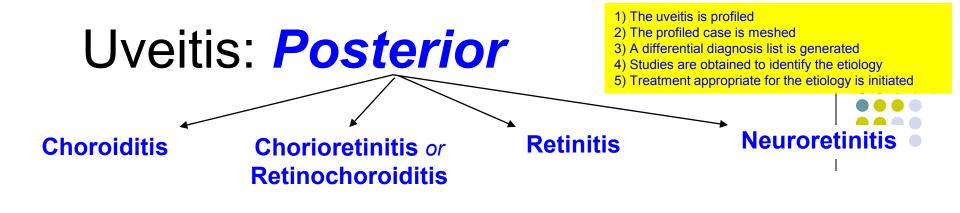


What is the classic posterior manifestation of BD?





Does it affect the arterioles, venules, or both?

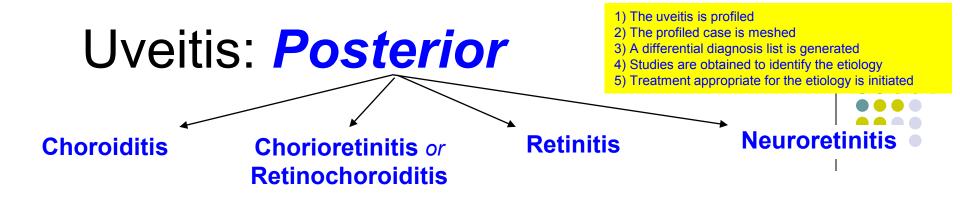


Does it affect the arterioles, venules, or both? Both



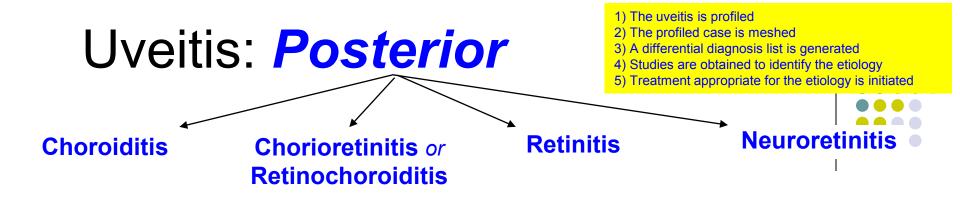


BD: Vasculitis



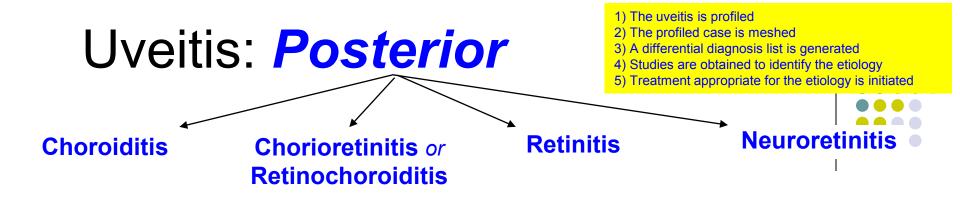
Does it affect the arterioles, venules, or both? Both

Can it affect the main arterioles and venules, leading to BRAOs and/or BRVOs?



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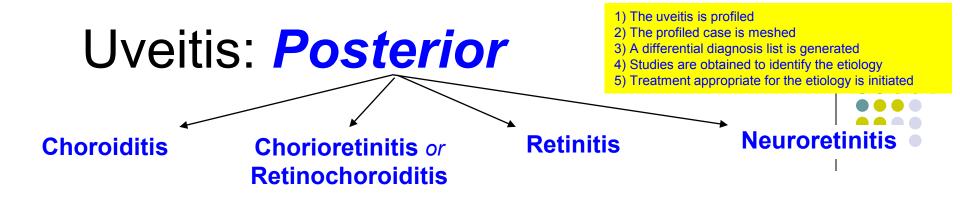
Can it affect the main arterioles and venules, leading to BRAOs and/or BRVOs? Yes. In fact, these can occur simultaneously



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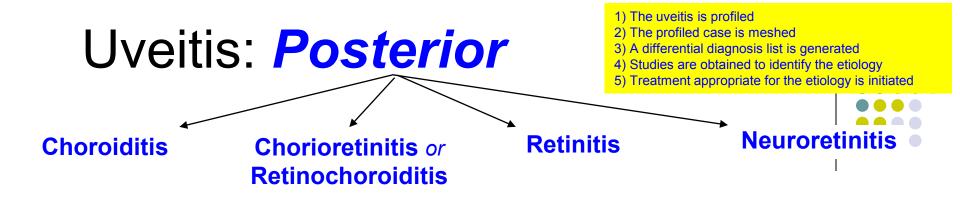
Is it necrotizing, or non-necrotizing?



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Is it necrotizing, or non-necrotizing? Necrotizing. BD retinal vasculitis can appear similar to acute retinal necrosis (ARN)

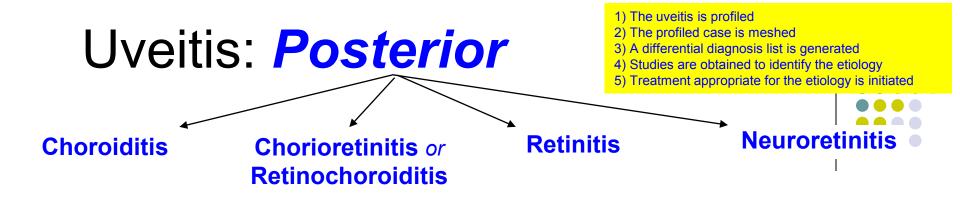


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Can BD retinal vasculitis lead to retinal ischemia with subsequent neovascularization?



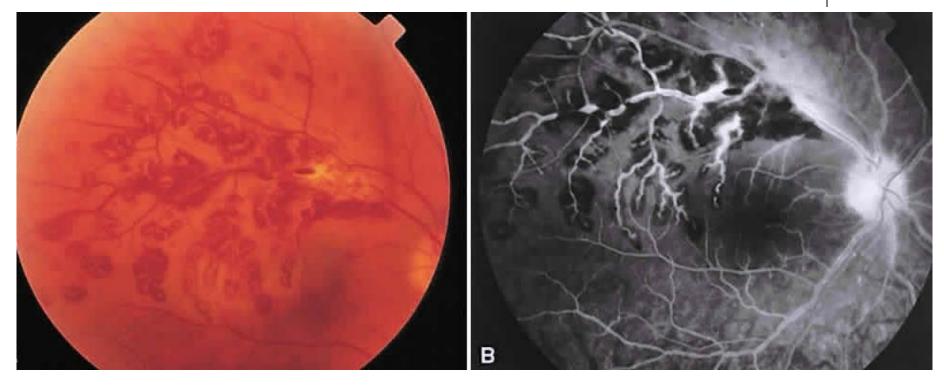
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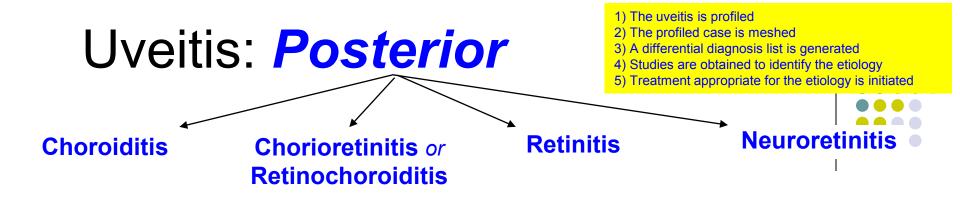
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Can BD retinal vasculitis lead to retinal ischemia with subsequent neovascularization? Yes--it is an occlusive vasculitis, so ischemia is a common occurrence





BD: Occlusive vasculitis



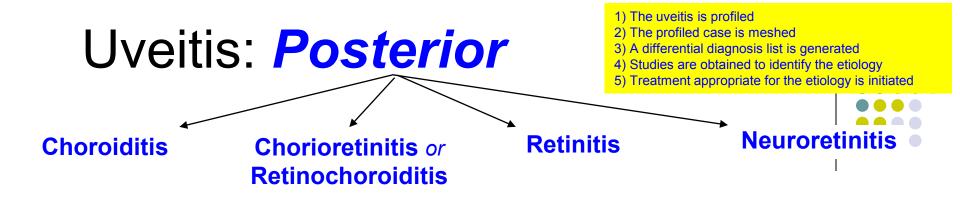
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Can the optic nerve be involved?



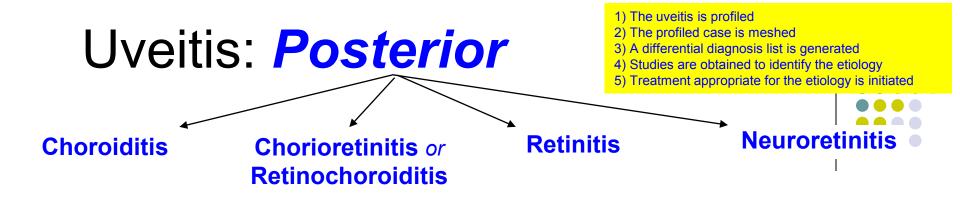
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Can the optic nerve be involved? Yes--in fact, it frequently is. Papillitis or optic atrophy occurs in about 6% of ocular BD pts



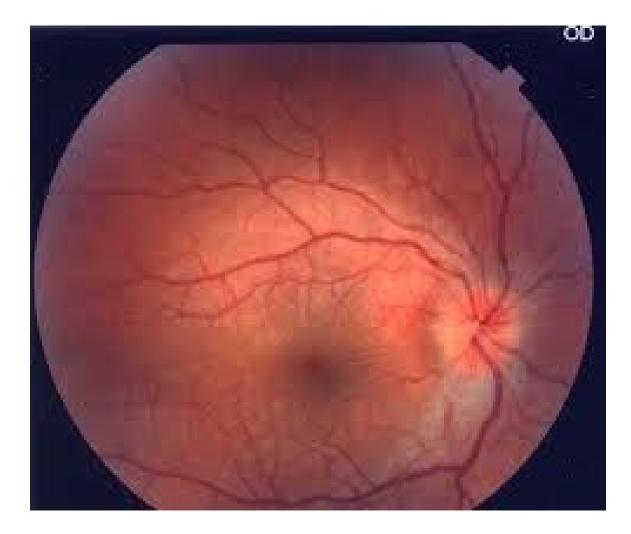
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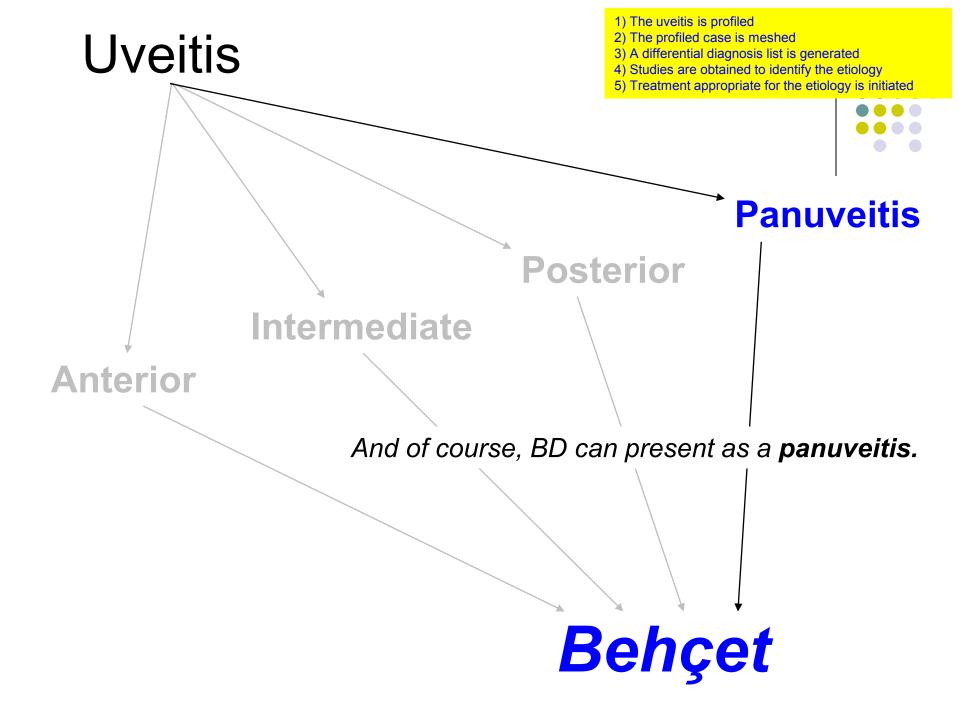
Can BD retinal vasculitis lead to retinal ischemia with subsequent neovascularization? Yes--it is an occlusive vasculitis, so ischemia is a common occurrence

Can the optic nerve be involved? Yes--in fact, it frequently is. Papillitis or optic atrophy occurs in about 25% of ocular BD pts





BD: Papillitis



Diagnosis

How is the diagnosis of BD made?

- 2) The profiled case is meshed
- 3) A differential diagnosis list is generated
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- 5) Treatment appropriate for the etiology is initiated



Diagnosis

How is the diagnosis of BD made? It is a clinical diagnosis—there are no specific tests for it

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Diagnosis

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What is the HLA association for BD?

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What is the HLA association for BD? There are several; HLA-B51 is associated with ocular BD

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So, is HLA testing helpful in diagnosing ocular BD?

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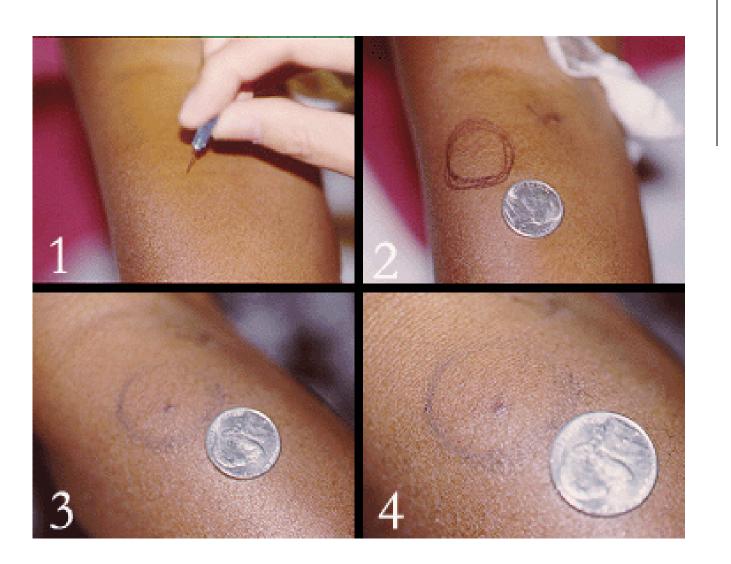
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How is the cutaneous pathergy test performed? A hypodermic needle is used to prick the skin. In some variations of the test, a small amount of isotonic saline is injected. The area is then assessed for the development of pustules.

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The pathergy test. 1) taken at the time when the patient was "stuck" with the sterile needle; 2) shows the area immediately after the stick; 3) & 4) show the area one day and two days after the needle stick, respectively.







Pathergy test: Positive results

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Is the pathergy response pathognomonic for BD?

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So, is cutaneous pathergy testing useful in diagnosing BD?

It's not clear whether the BCSC authors consider pathergy testing worthwhile. They say it is "of little value," but in the same paragraph, assert that BD should be diagnosed per one of two sets of clinical criteria, one of which incorporates pathergy testing!

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Treatment

What are the two goals in the management of BD?

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Treatment

What are the two goals in the management of BD?

- 1) Control/resolve acute inflammation
- 2) Suppress chronic inflammation/reduce the risk of recurrences

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Treatment

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What are the two goals in the management of BD? Broadly, how is each achieved?

1) Control/resolve acute inflammation with class of med

2) Suppress chronic inflammation/reduce the risk of recurrences

Treatment

1) The uveitis is profiled

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What are the two goals in the management of BD? Broadly, how is each achieved? 1) Control/resolve acute inflammation with corticosteroids

2) Suppress chronic inflammation/reduce the risk of recurrences

Treatment

1) The uveitis is profiled

2) The profiled case is meshed

3) A differential diagnosis list is generated

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What are the two goals in the management of BD? Broadly, how is each achieved?

- 1) Control/resolve acute inflammation with corticosteroids
- 2) Suppress chronic inflammation/reduce the risk of recurrences via

different class of meds

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What are the two goals in the management of BD? Broadly, how is each achieved?

1) Control/resolve acute inflammation with corticosteroids

2) Suppress chronic inflammation/reduce the risk of recurrences via immunomodulatory therapy (IMT).

Treatment

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What are the two goals in the management of BD? Broadly, how is each achieved?

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By what route are steroids administered?

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A number have been studied. ______(+ steroids) has been shown to be effective, and is probably the most widely accepted first-line treatment.

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A number have been studied. Azathioprine (+ steroids) has been shown to be effective, and is probably the most widely accepted first-line treatment. alkylating agent 1 and alkylating agent 2 are effective as well.

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What IMT meds are useful in BD?

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What advantage do the alkylating agents have over azathioprine?

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What advantage do the alkylating agents have over azathioprine? Pts can usually be tapered off steroids; ie, they are effective as single-agent regimens

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What side effect is a close second? Sterility. Pts wishing to have biological children should be encouraged to consider sperm/embryo banking.

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What about the biologics?

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Infliximab is effective, but its side-effect profile renders it best used as a short-term induction agent