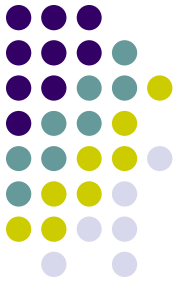


Scleritis

Scleritis

In a nutshell, what is scleritis?



Scleritis



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An inflammatory condition characterized by painful infiltrative scleral edema

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Is there a gender predilection?

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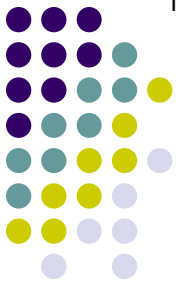
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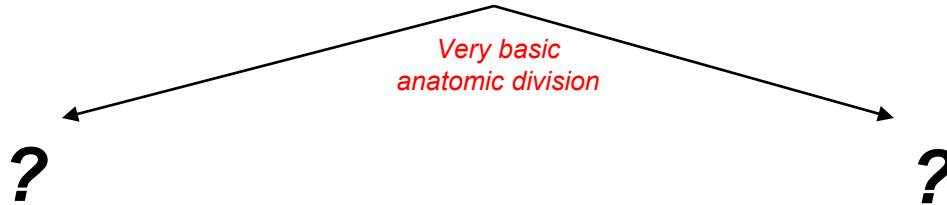
Is there a gender predilection?

Yes, men are less likely to be affected than women

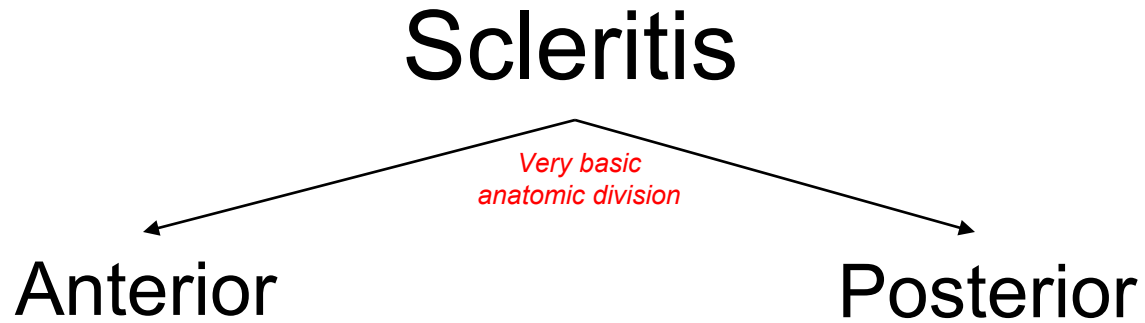
Scleritis



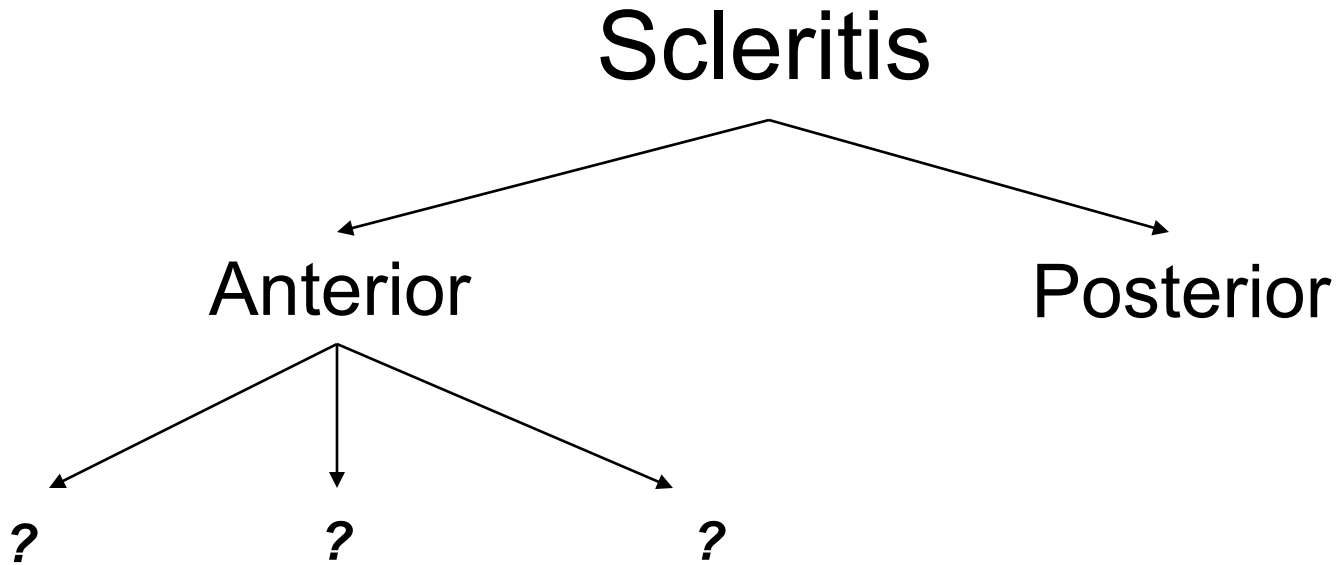
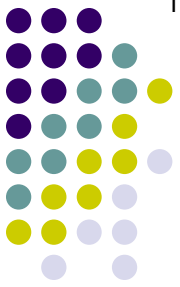
Scleritis



Scleritis



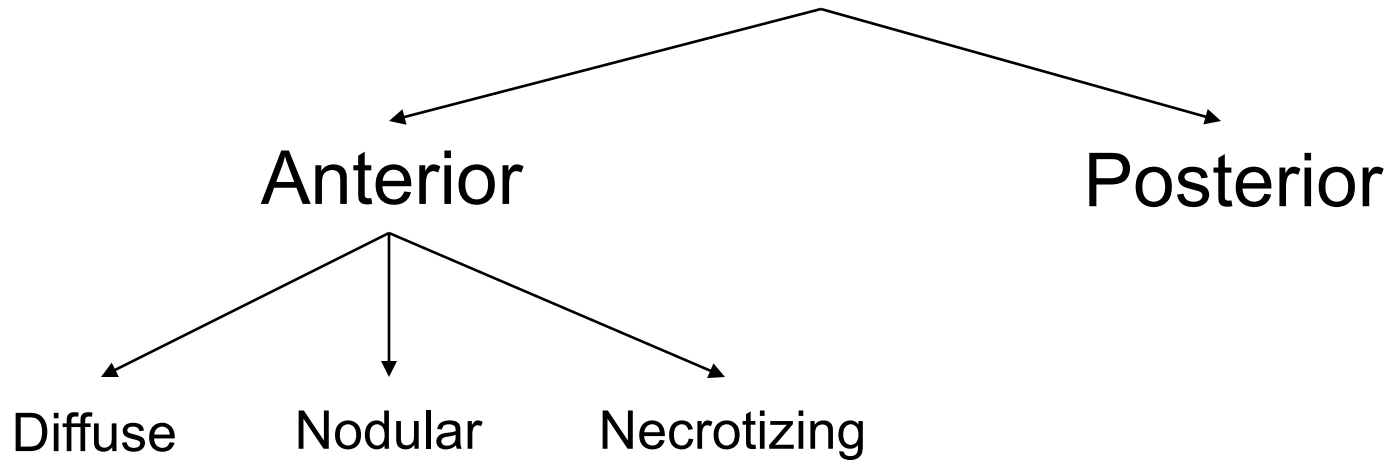
Scleritis



Scleritis



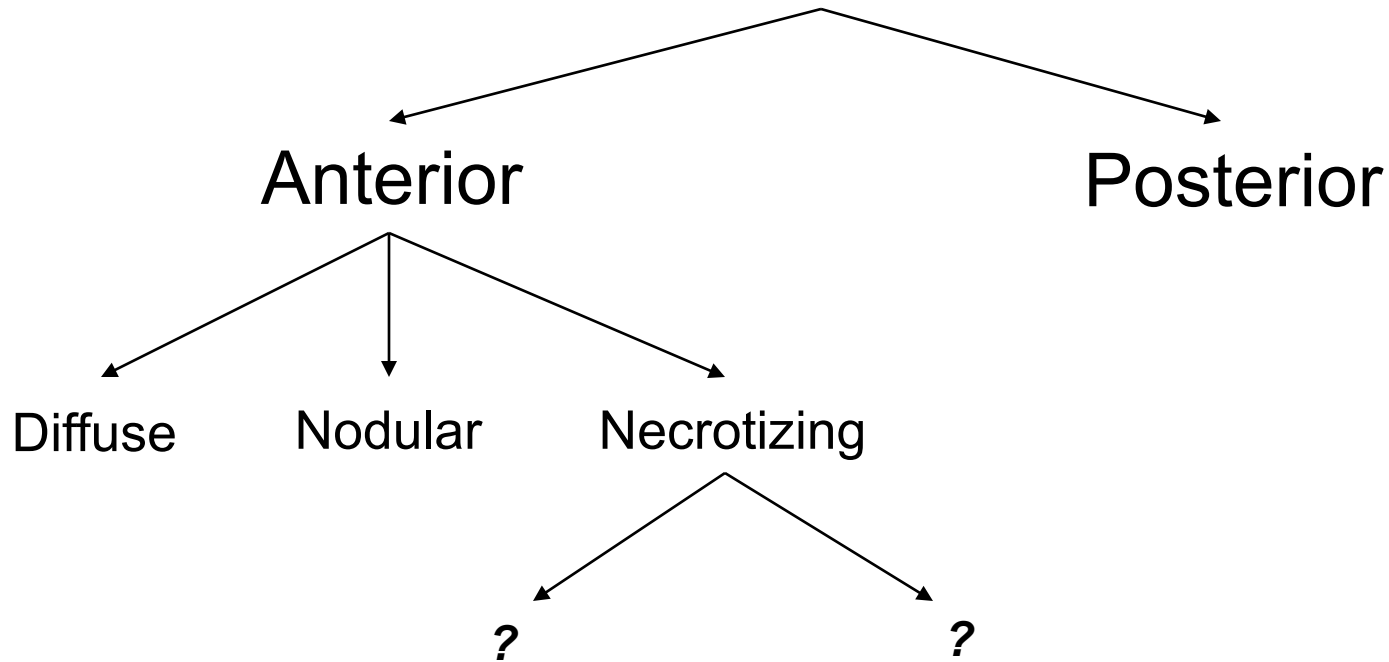
Scleritis



Scleritis



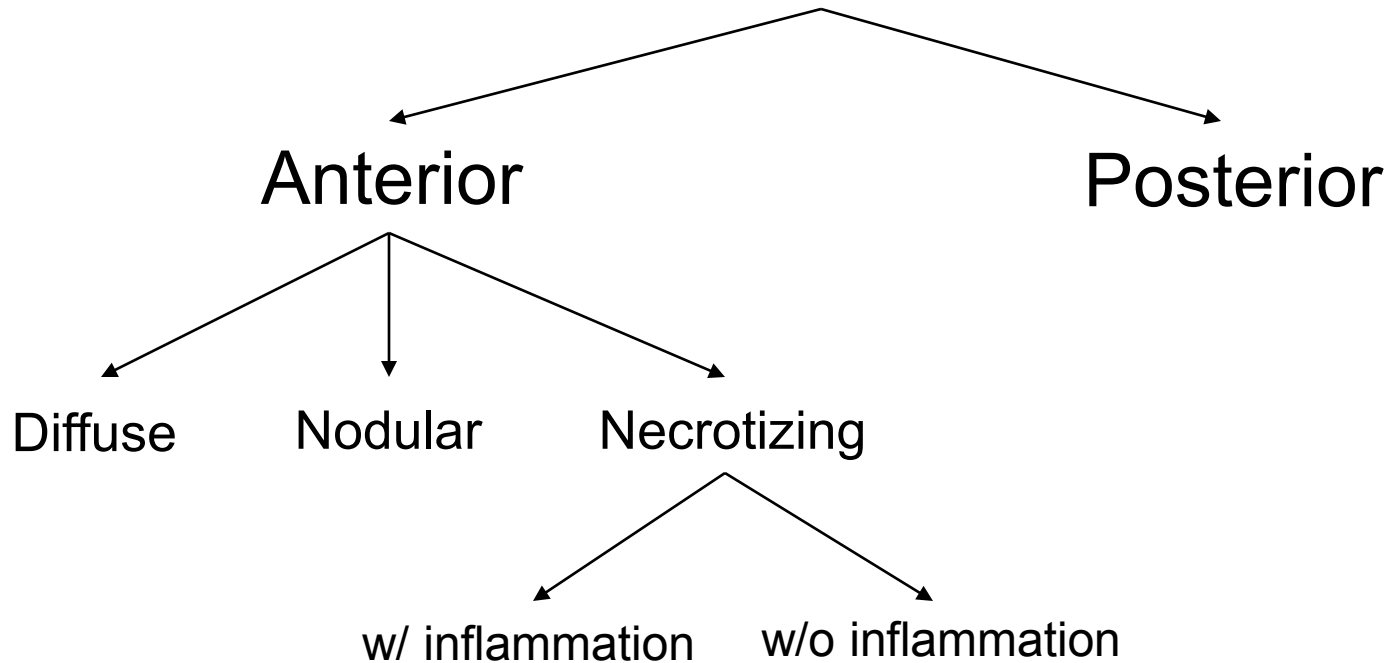
Scleritis

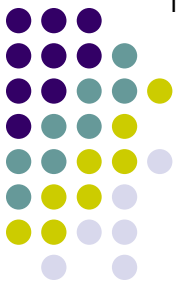


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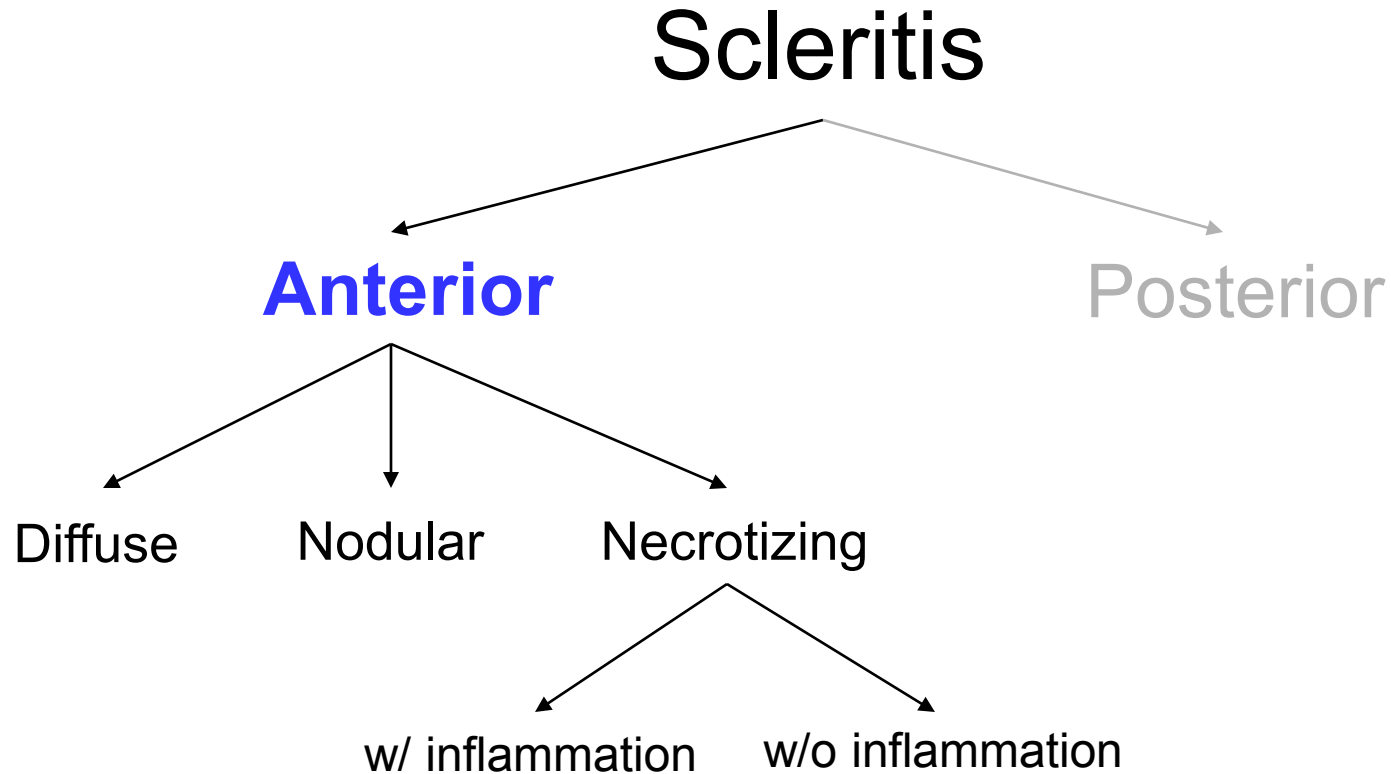


Scleritis





Scleritis

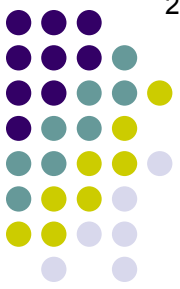


What are three classic signs of anterior scleritis?

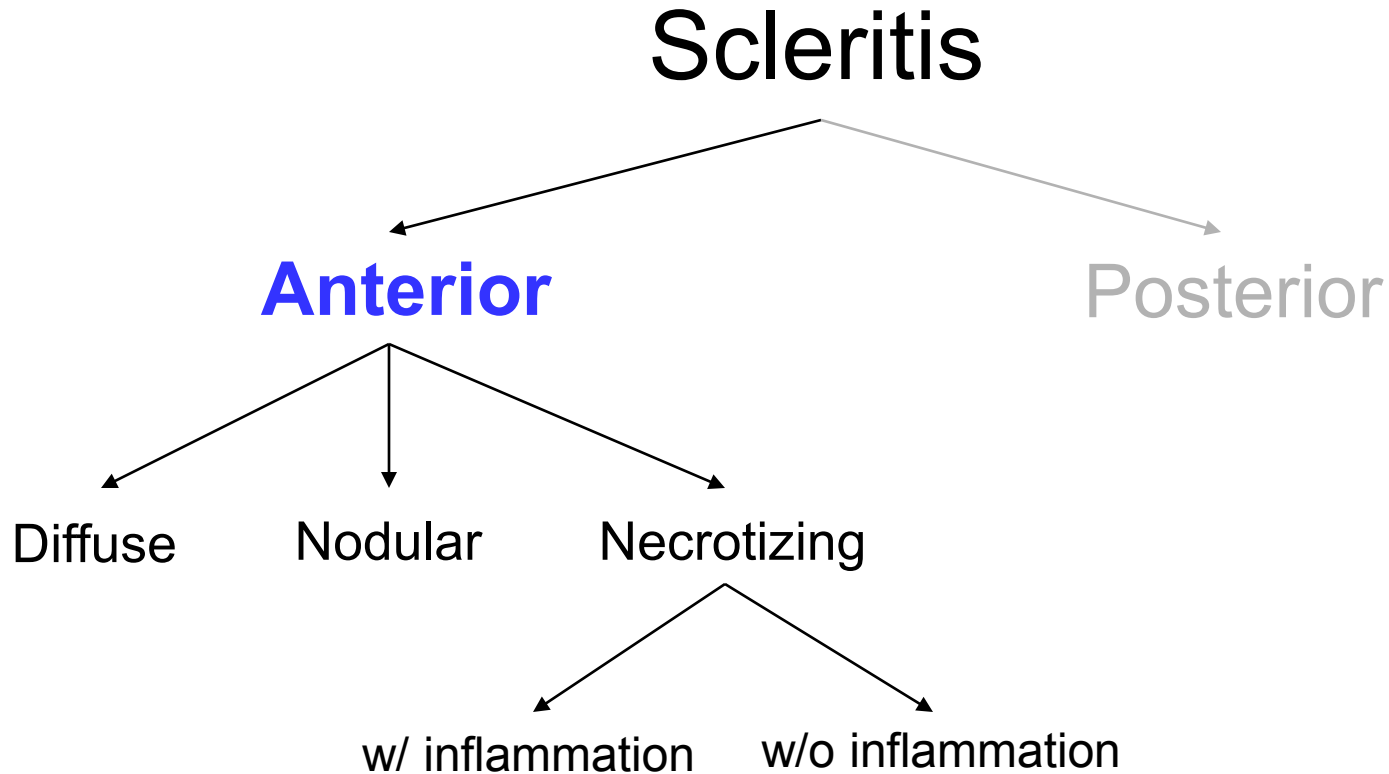
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Scleritis



What are three classic signs of anterior scleritis?

--Scleral

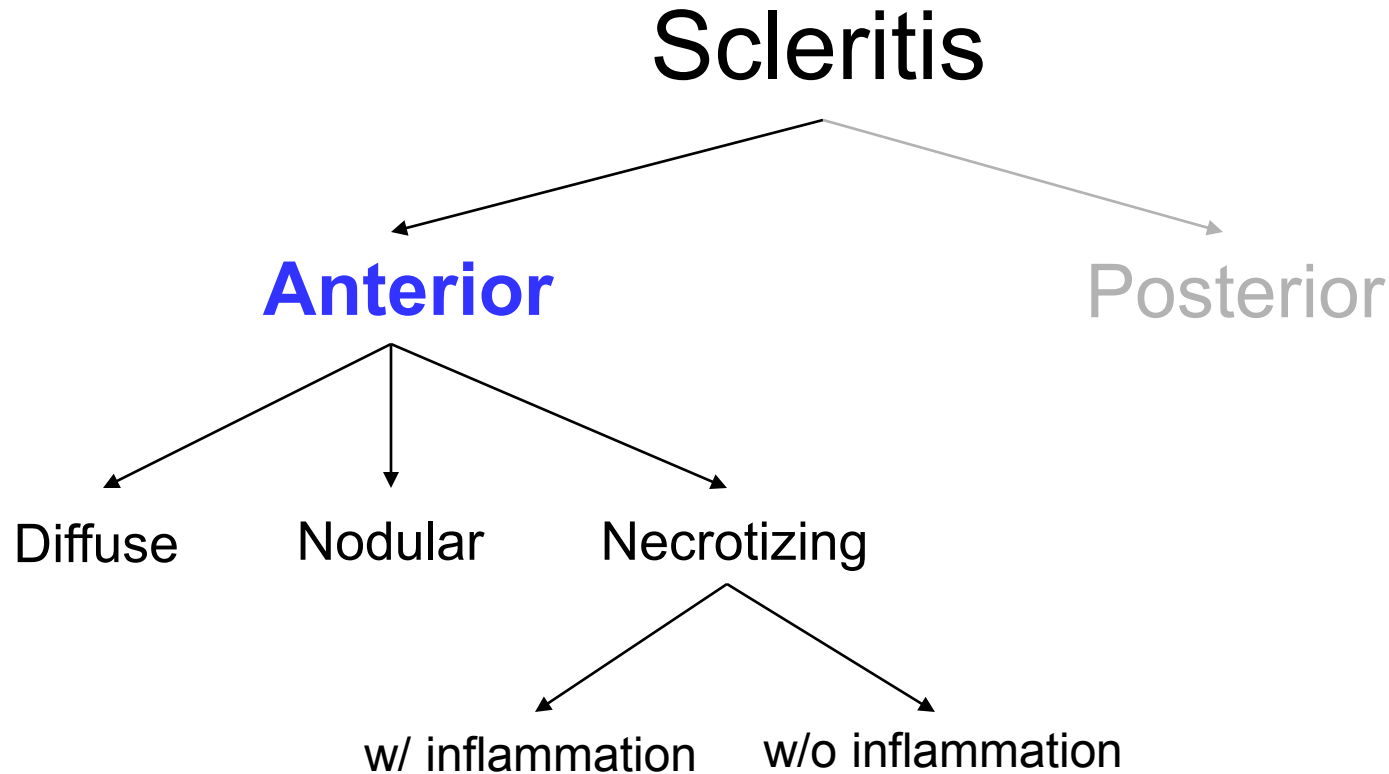


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Scleritis



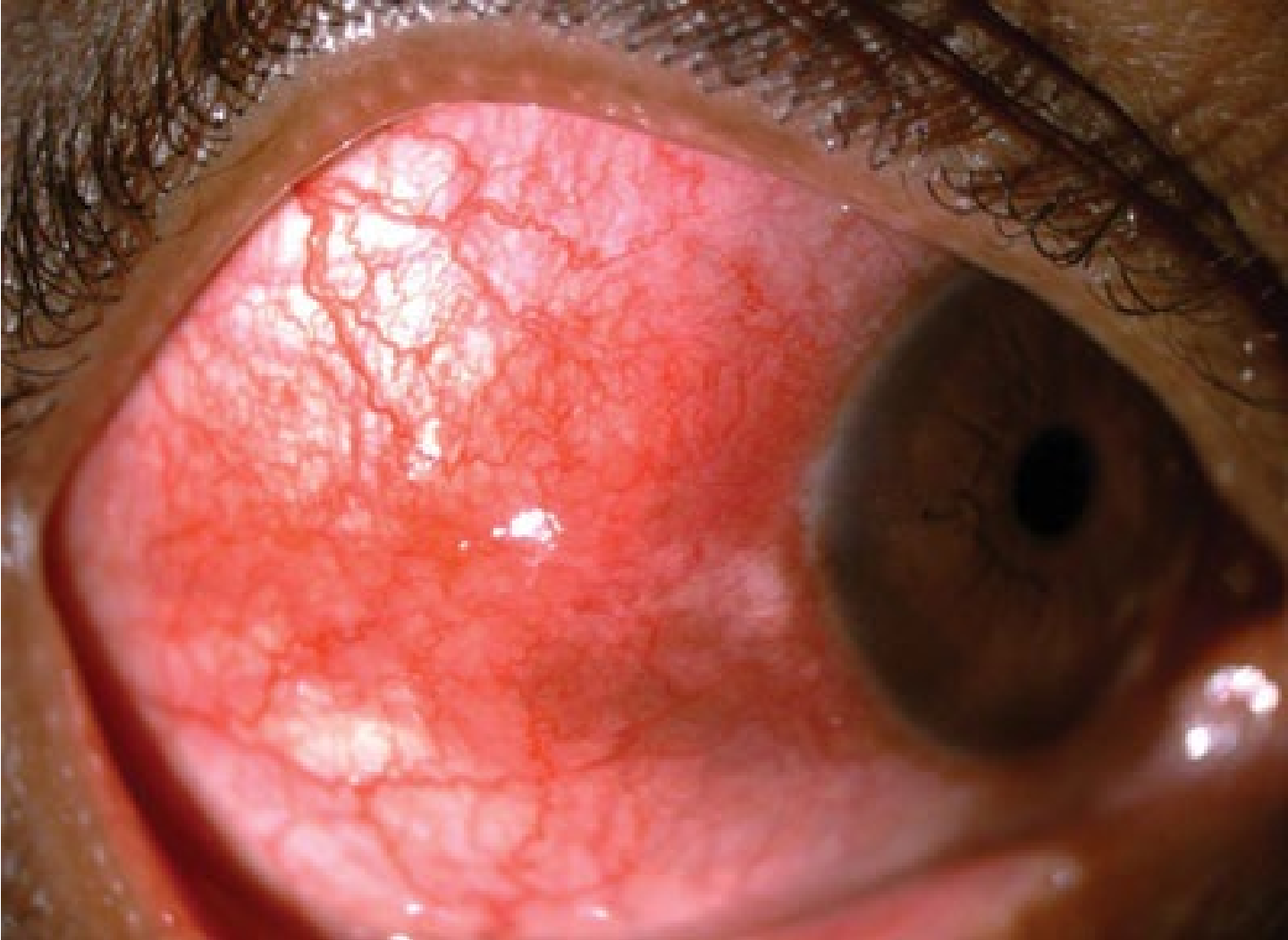
What are three classic signs of anterior scleritis?

--Scleral edema

--?

--?

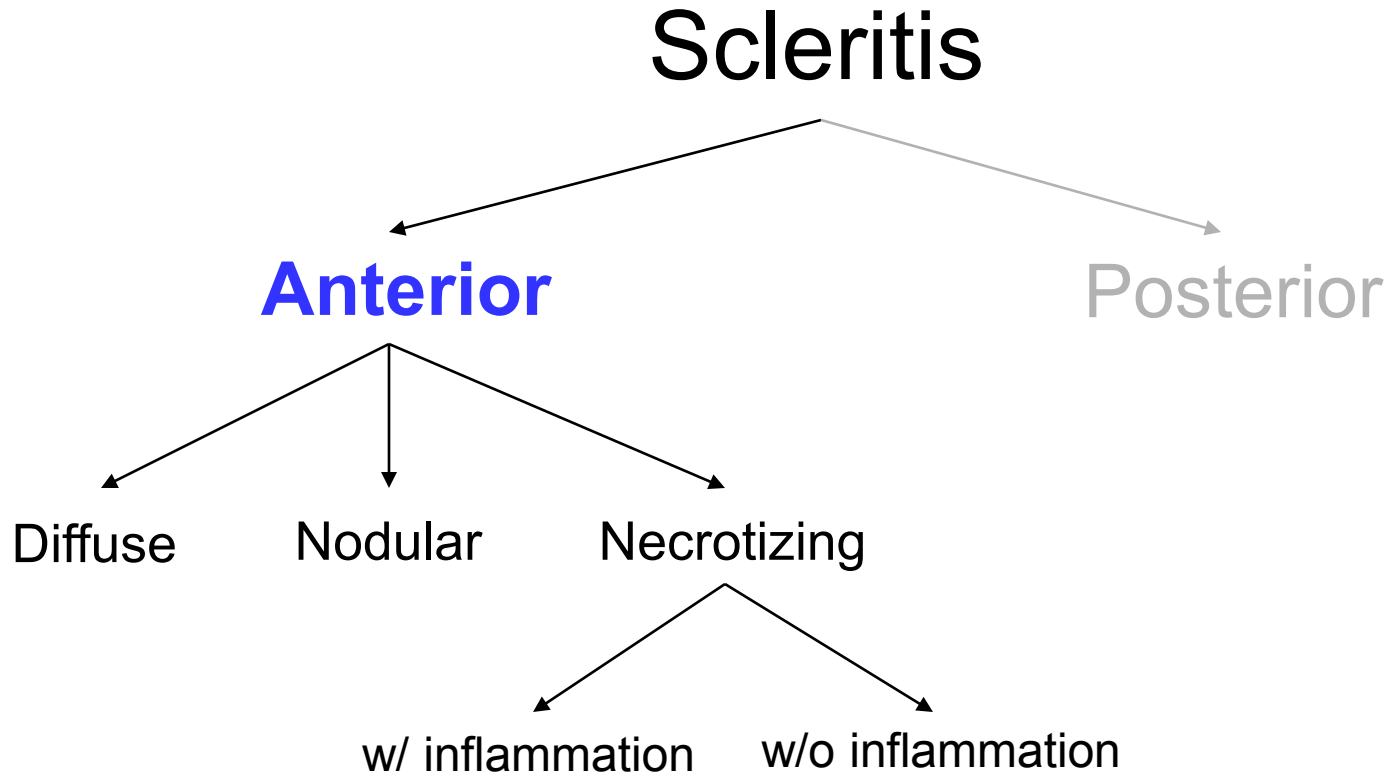
Scleritis



Scleral edema in nodular scleritis



Scleritis



What are three classic signs of anterior scleritis?

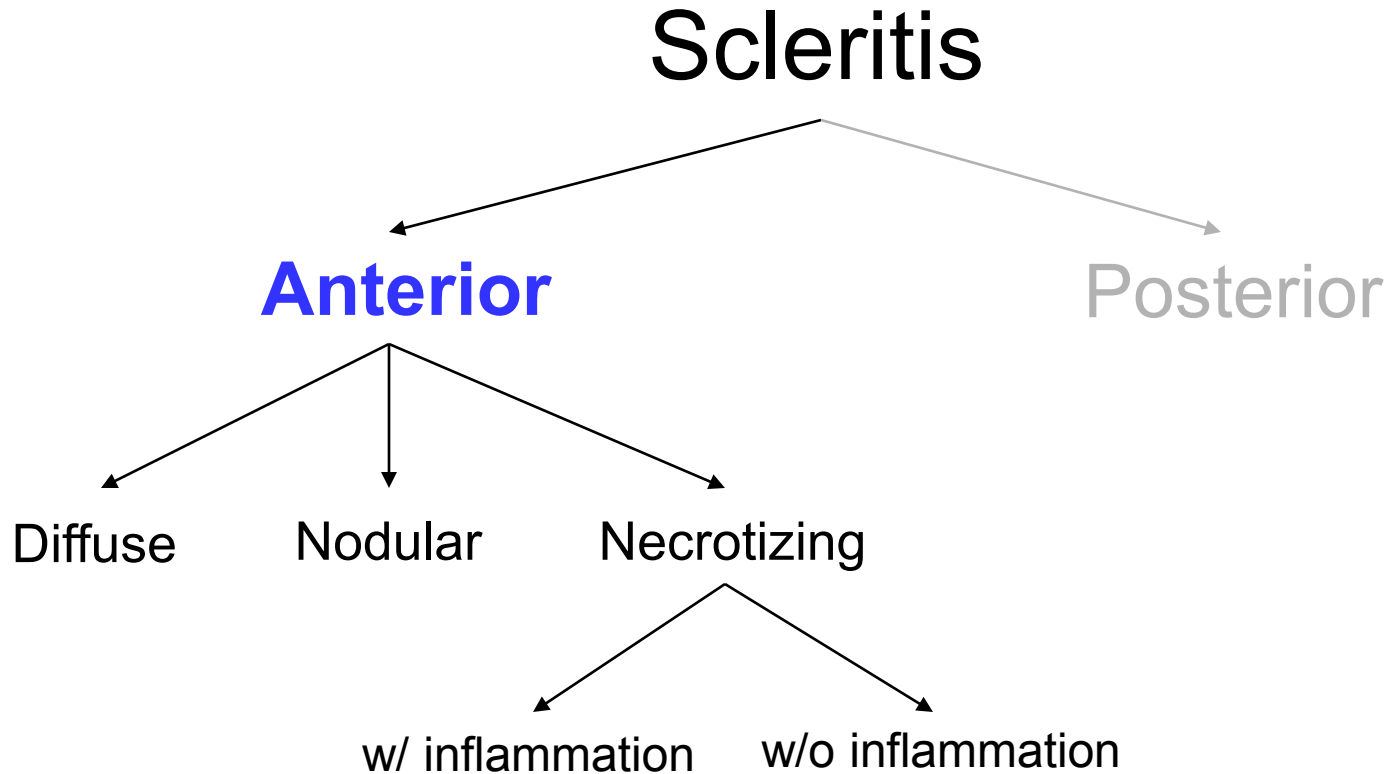
--Scleral edema

--Sclera has a Classic color description hue

--?



Scleritis



What are three classic signs of anterior scleritis?

--Scleral edema

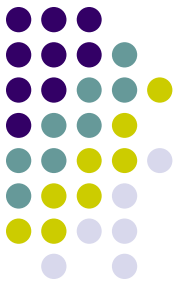
--Sclera has a violaceous hue

--?

Scleritis

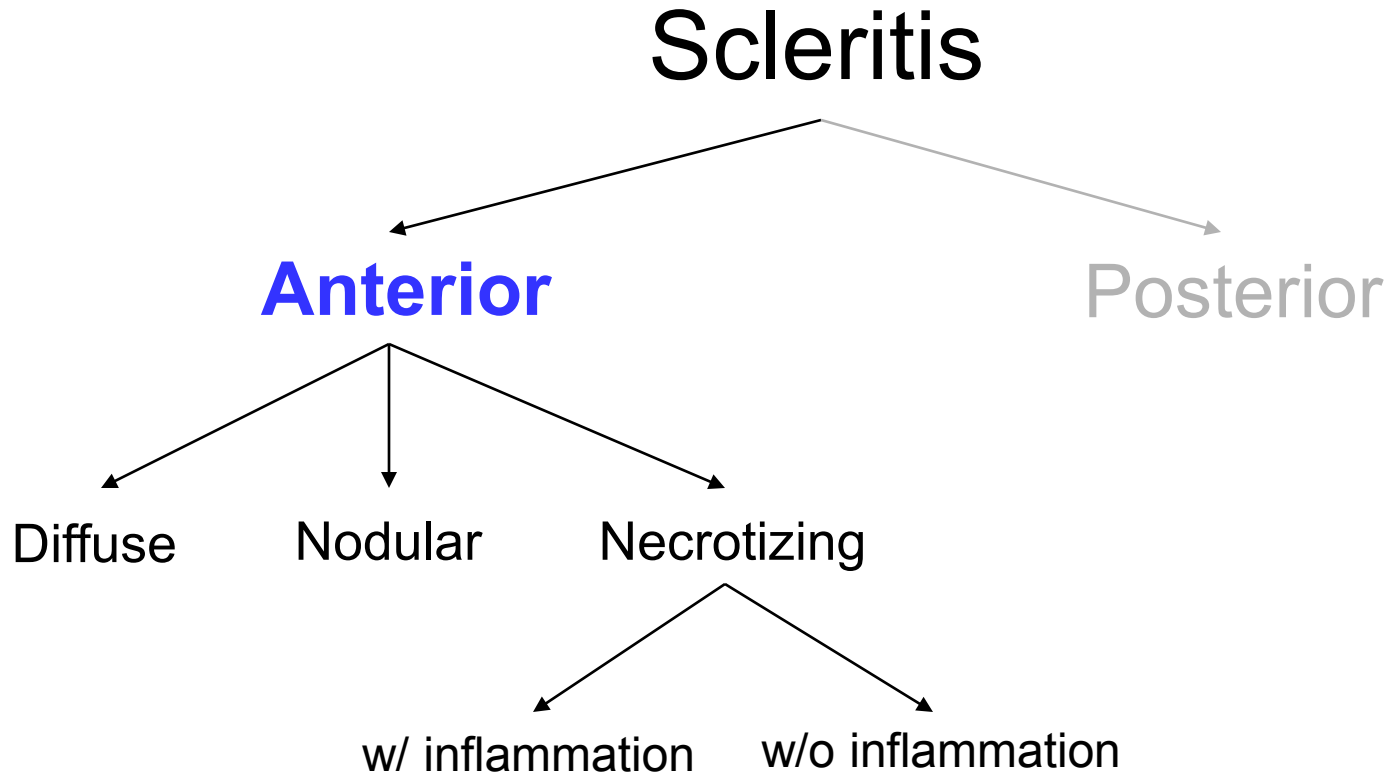


Violaceous hue in diffuse scleritis





Scleritis

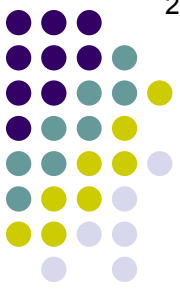


What are three classic signs of anterior scleritis?

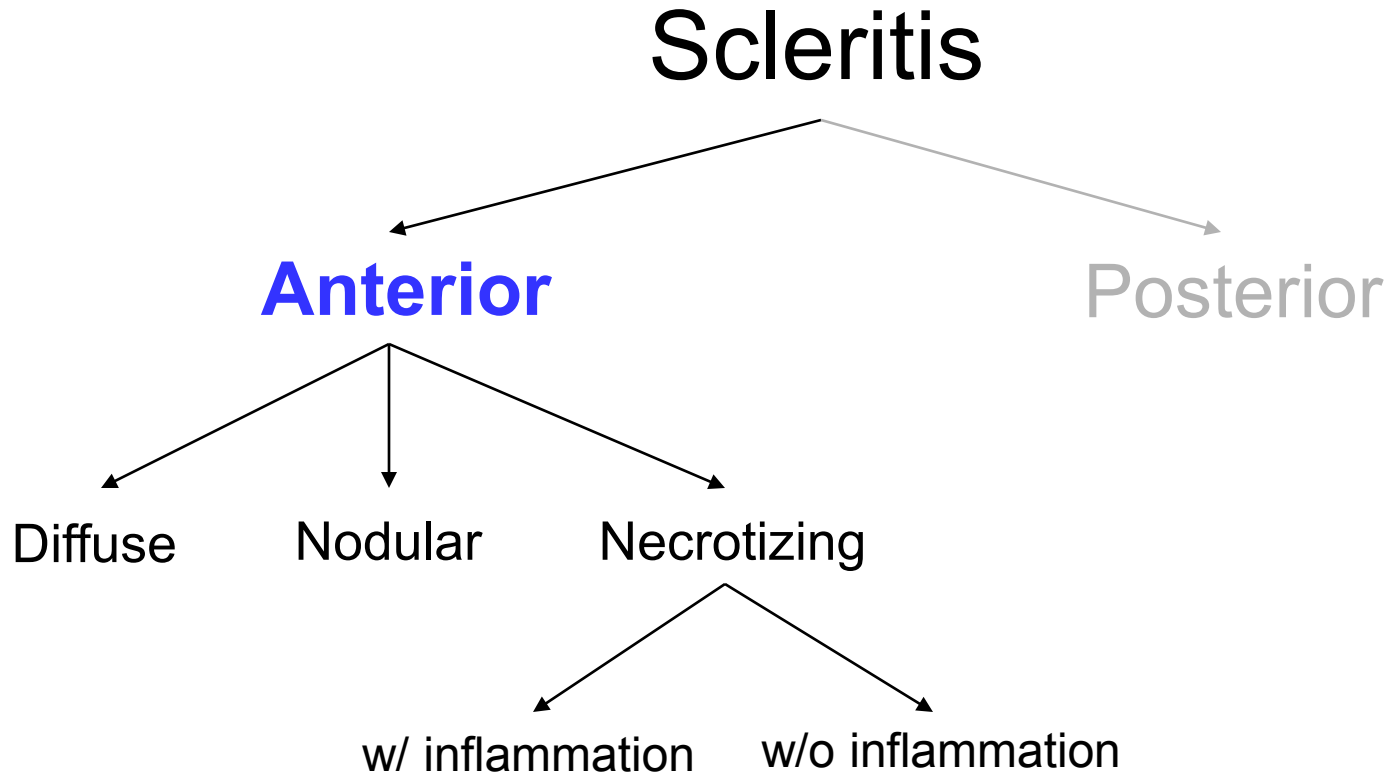
--Scleral edema

--Sclera has a **violaceous** hue

--Inflamed vasculature has a classic pattern description pattern



Scleritis



What are three classic signs of anterior scleritis?

--Scleral edema

--Sclera has a violaceous hue

--Inflamed vasculature has a criss-cross pattern

Scleritis

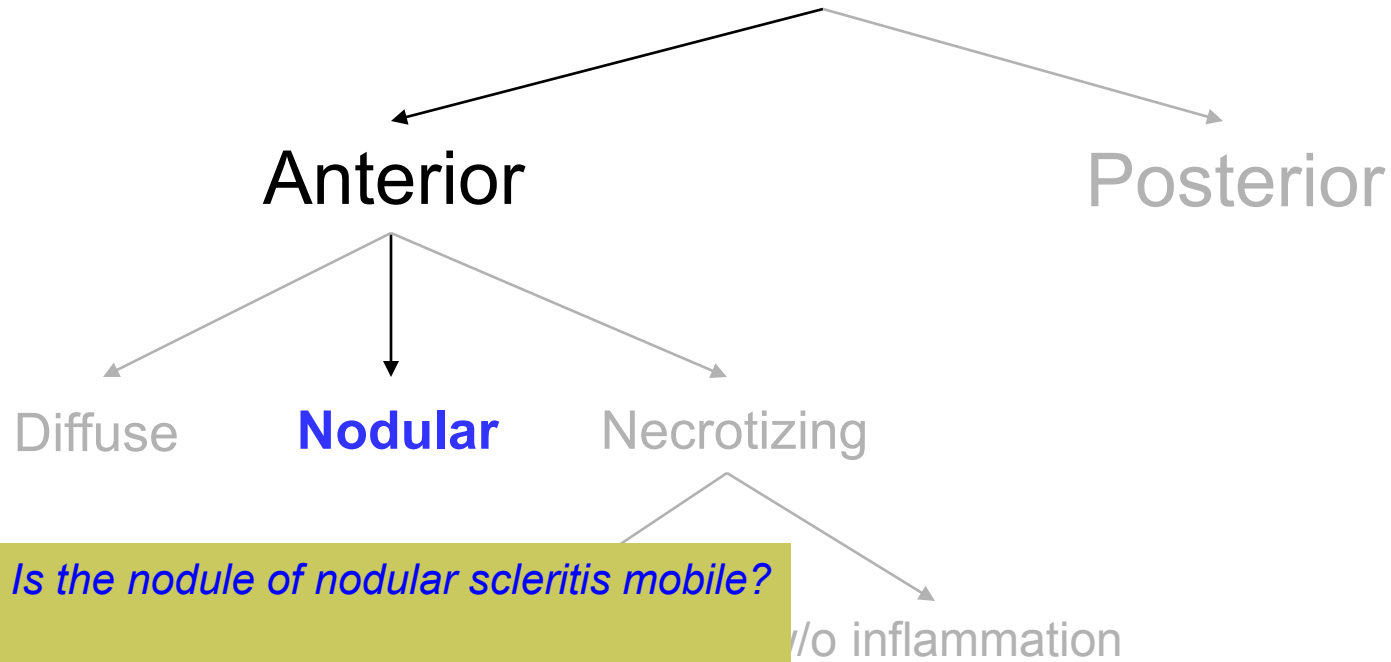


Criss-cross deep vasculature in scleritis (look for it until you see it)

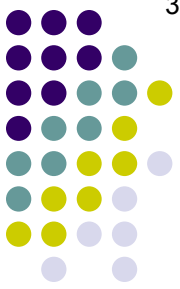


Scleritis

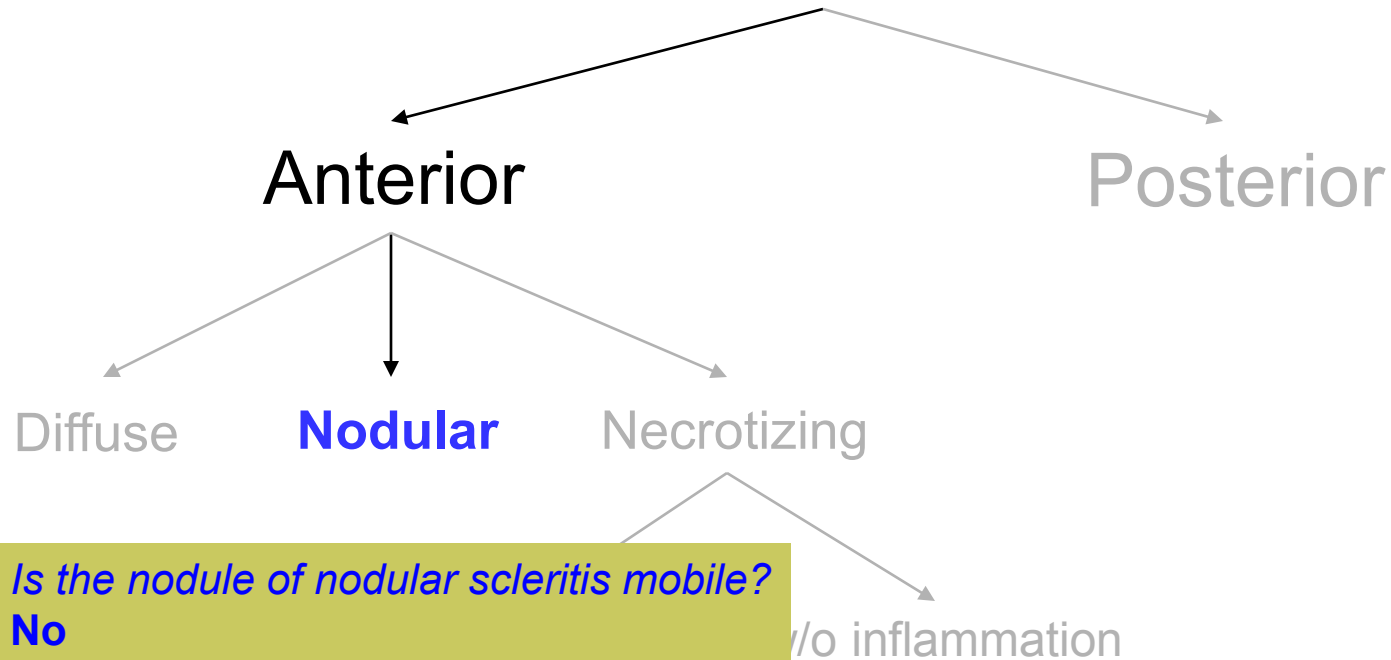
Scleritis



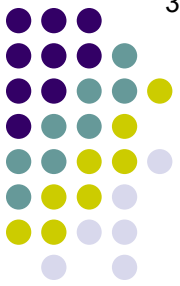
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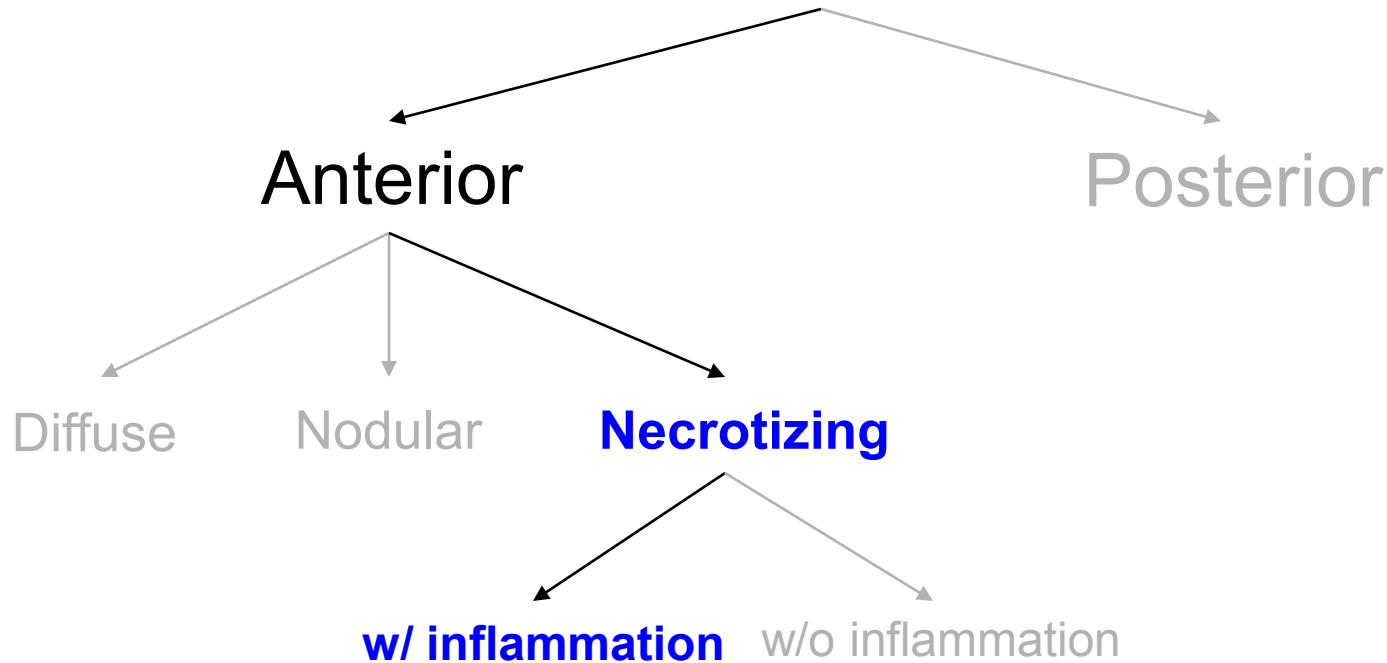
Scleritis



Scleritis

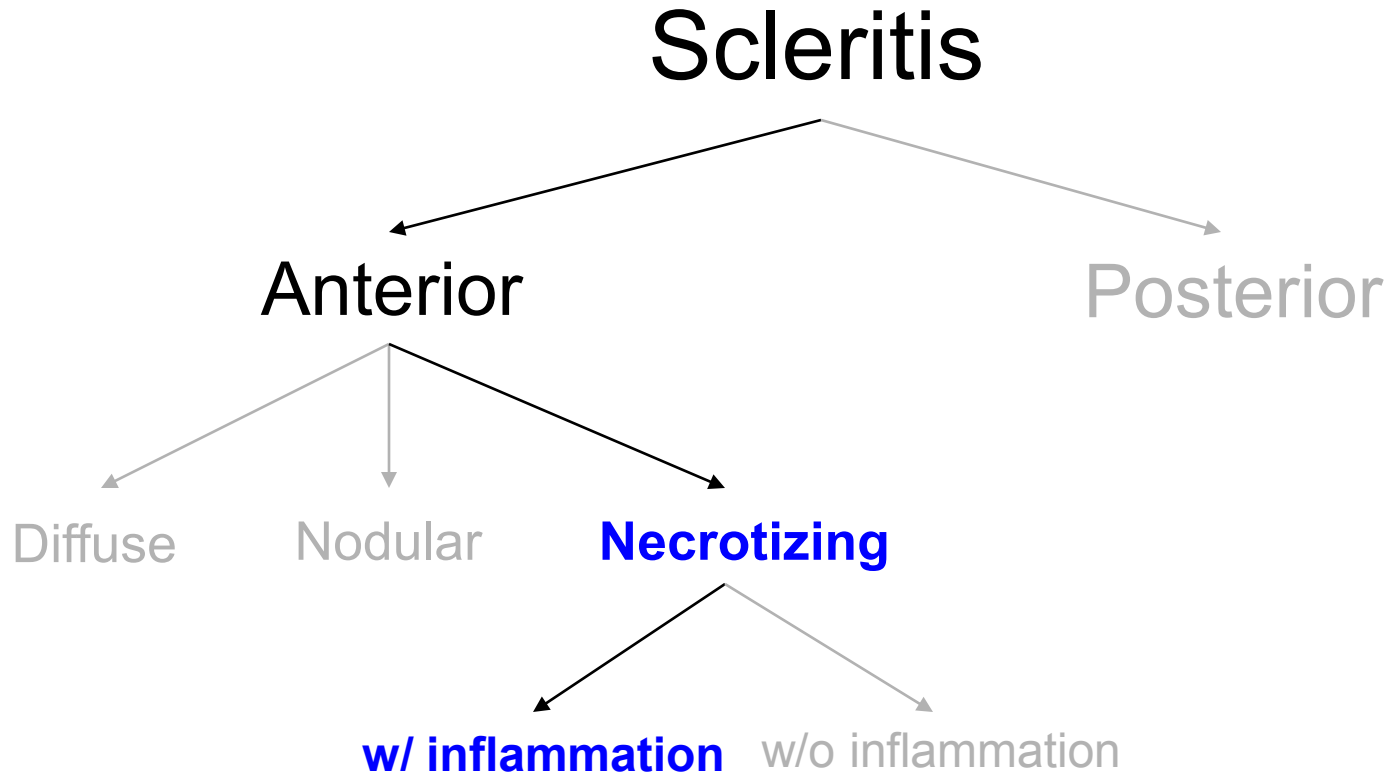
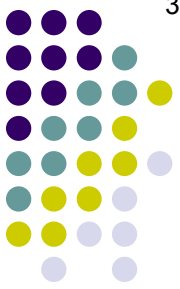


Scleritis



If a patient has a necrotizing scleritis w/ inflammation, it's a virtual lock that what sort of disease is the culprit?

Scleritis

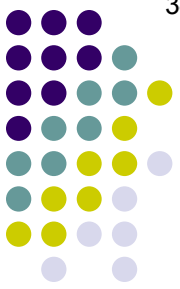


If a patient has a necrotizing scleritis w/ inflammation, it's a virtual lock that what sort of disease is the culprit?
A vasculitis

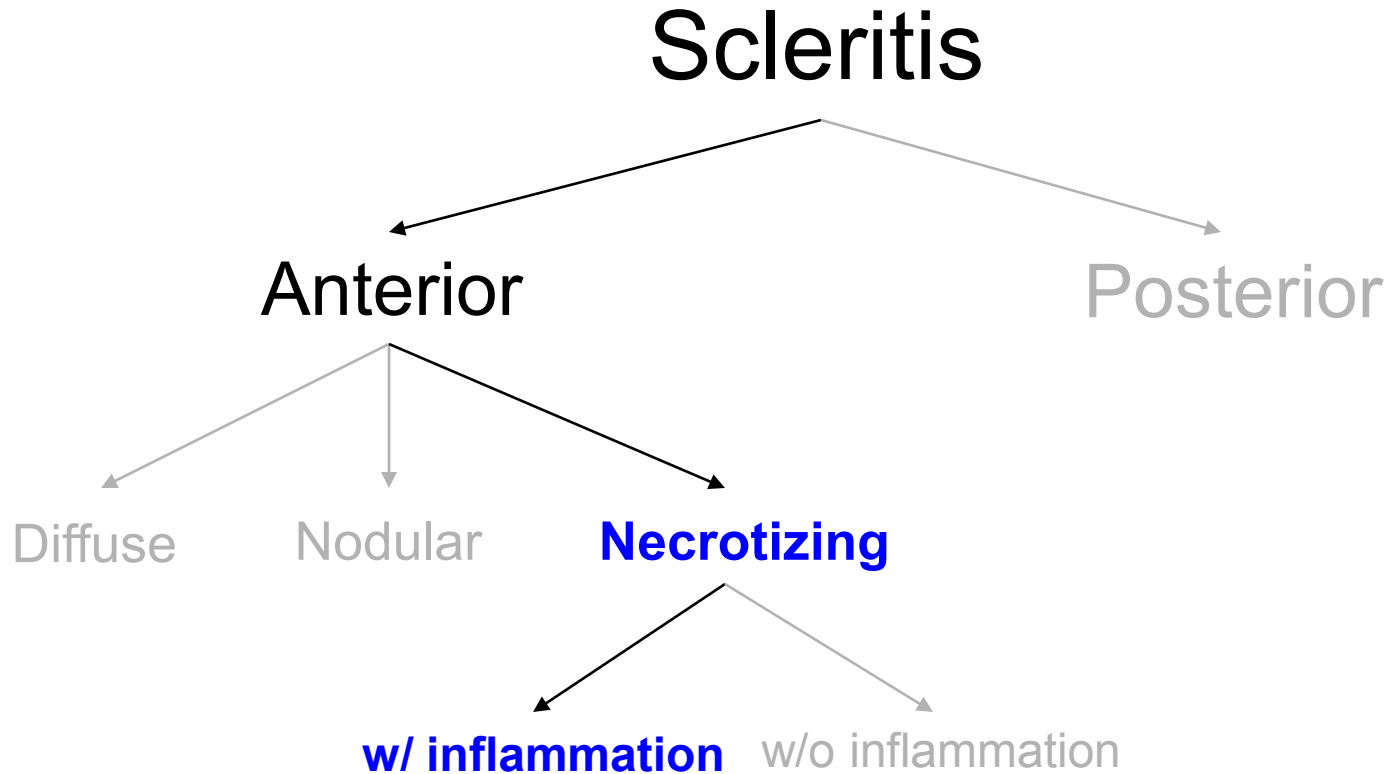
Scleritis



Necrotizing scleritis with inflammation



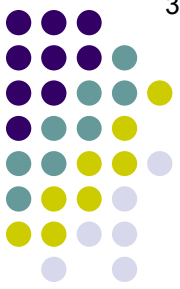
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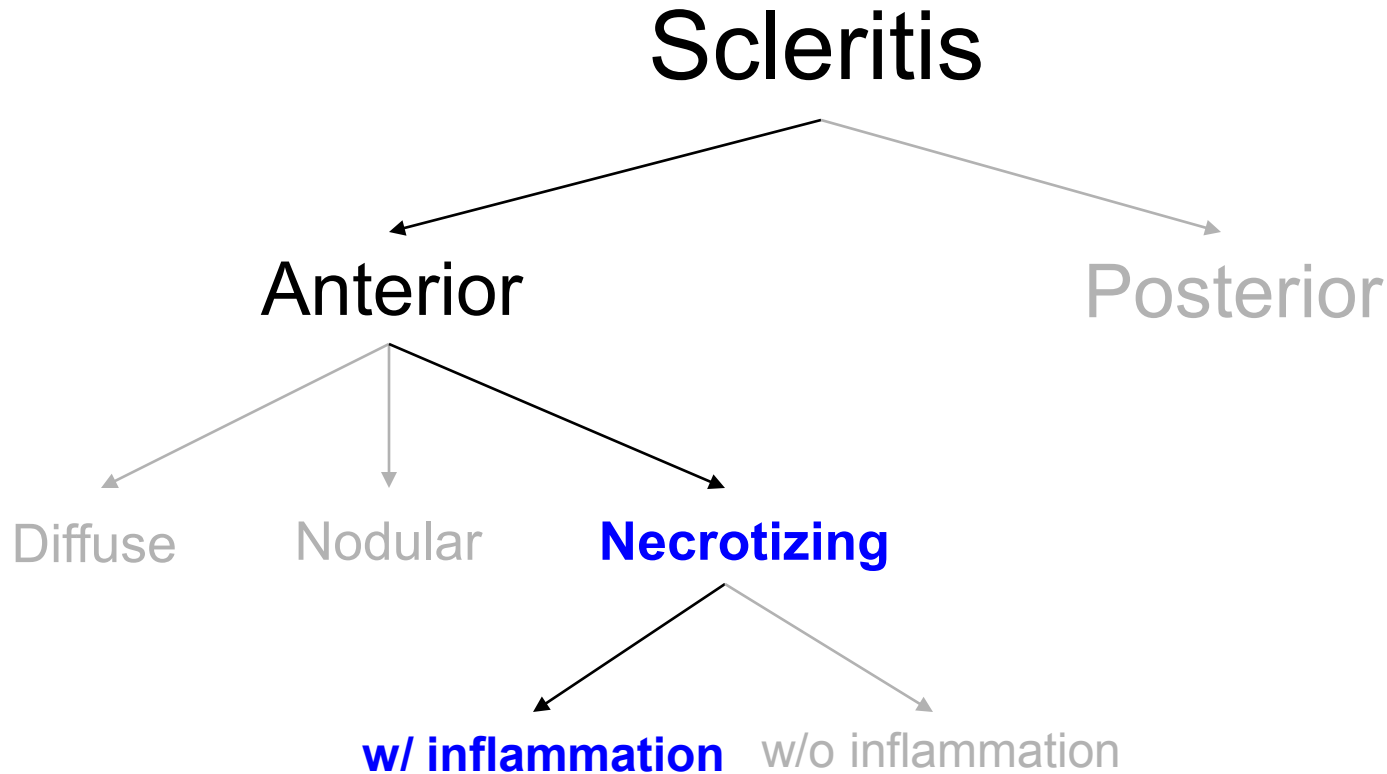
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A **vasculitis**

Is the vasculitis always systemic?



Scleritis

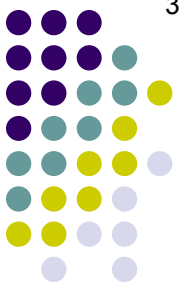


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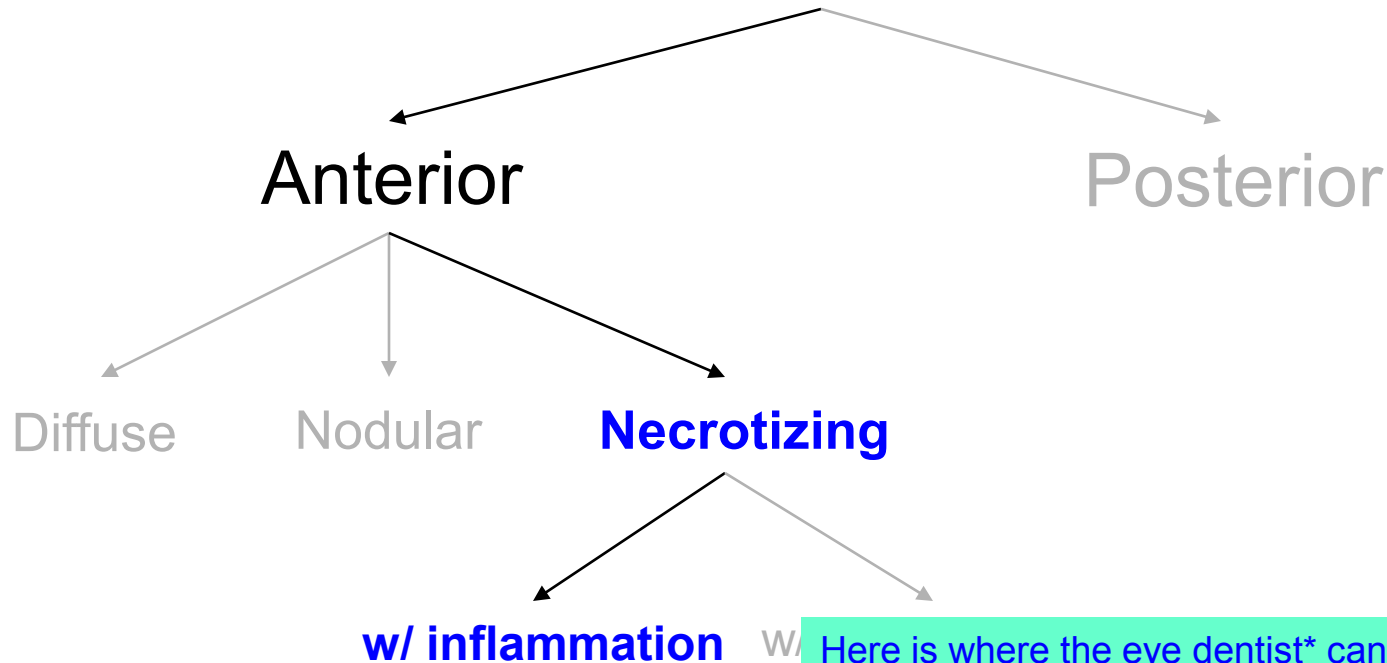
Is the vasculitis always systemic?

No, but it certainly can be



Scleritis

Scleritis



If a patient has a necrotizing scleritis w/ inflammation, the underlying disease is the scleritis?

A **vasculitis**

Is the vasculitis always systemic?

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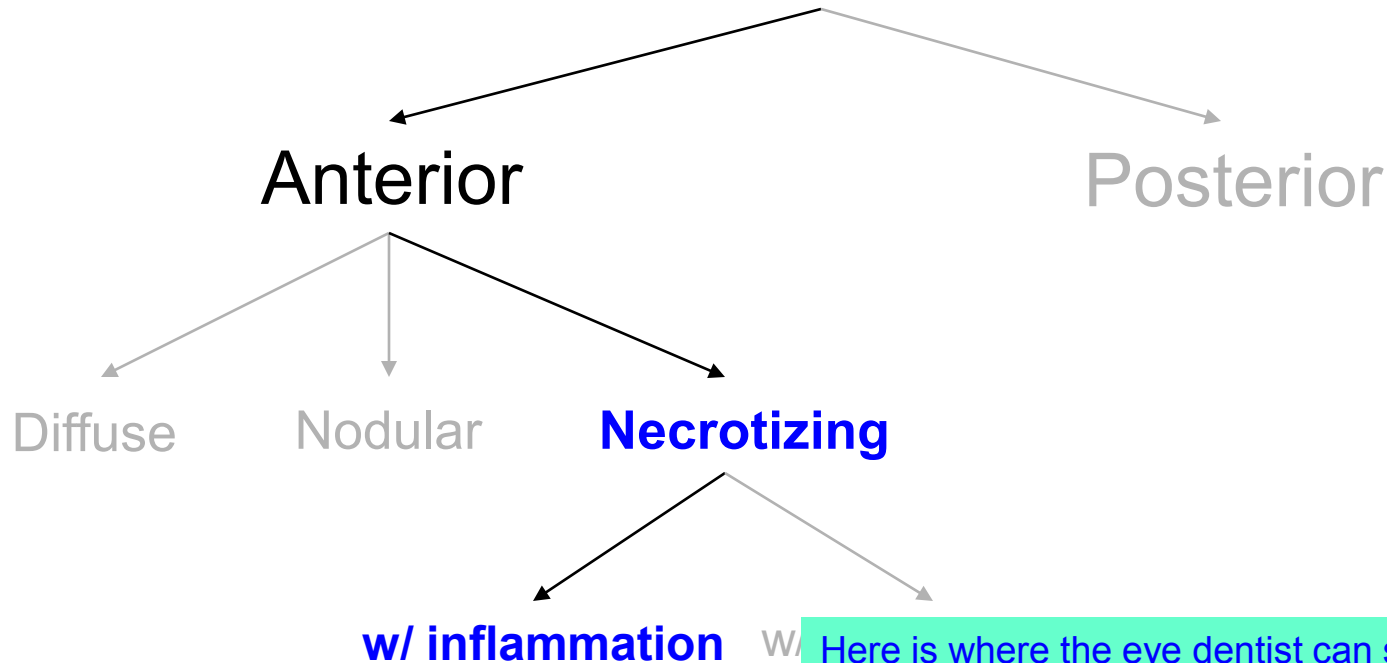
Here is where the eye dentist* can save someone's life. The discovery of an ocular vasculitic process should prompt a thorough investigation into whether the ocular disease is a manifestation of a systemic process.

*Eye dentist (*slang*) Derisive nickname for an ophthalmologist

Scleritis



Scleritis



If a patient has a necrotizing scleritis w/ inflammation, the underlying disease is the scleritis?

A **vasculitis**

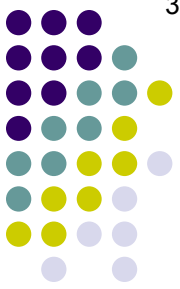
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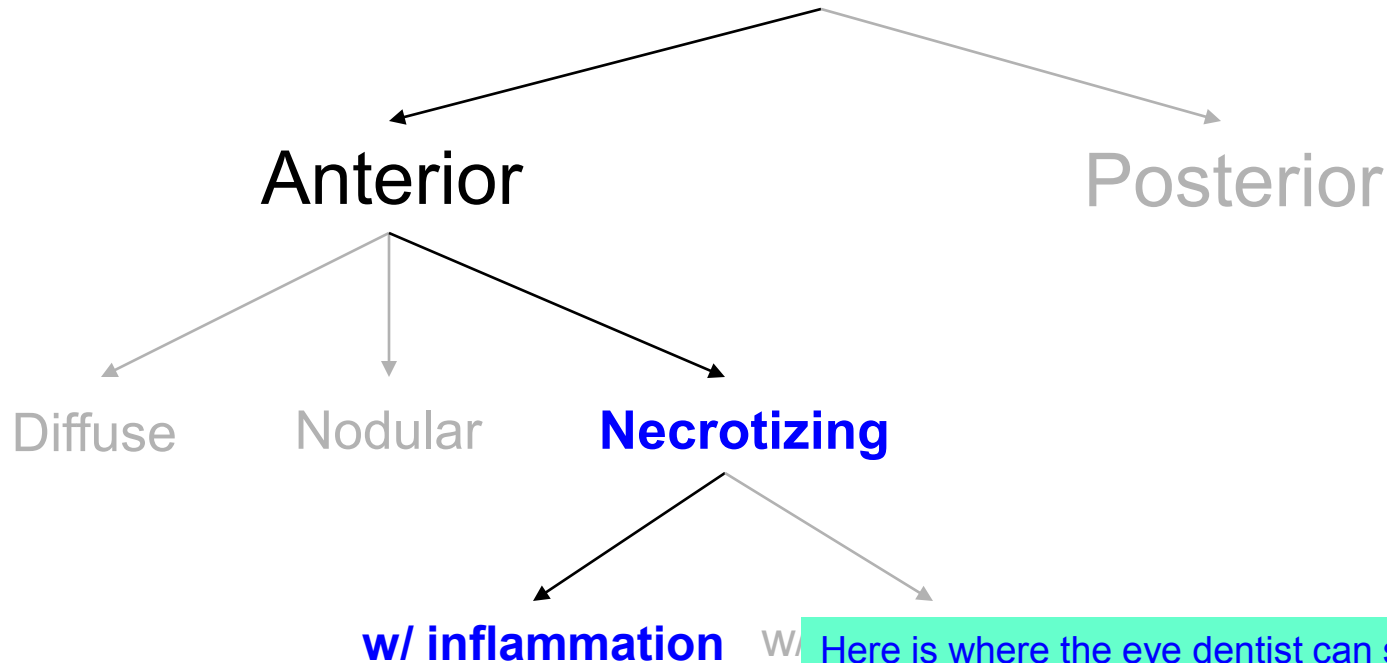
Here is where the eye dentist can save someone's life. The discovery of an ocular vasculitic process should prompt a thorough investigation into whether the ocular disease is a manifestation of a systemic process.

Why is this so important?

Scleritis



Scleritis



If a patient has a necrotizing scleritis w/ inflammation, the underlying disease is the scleritis?

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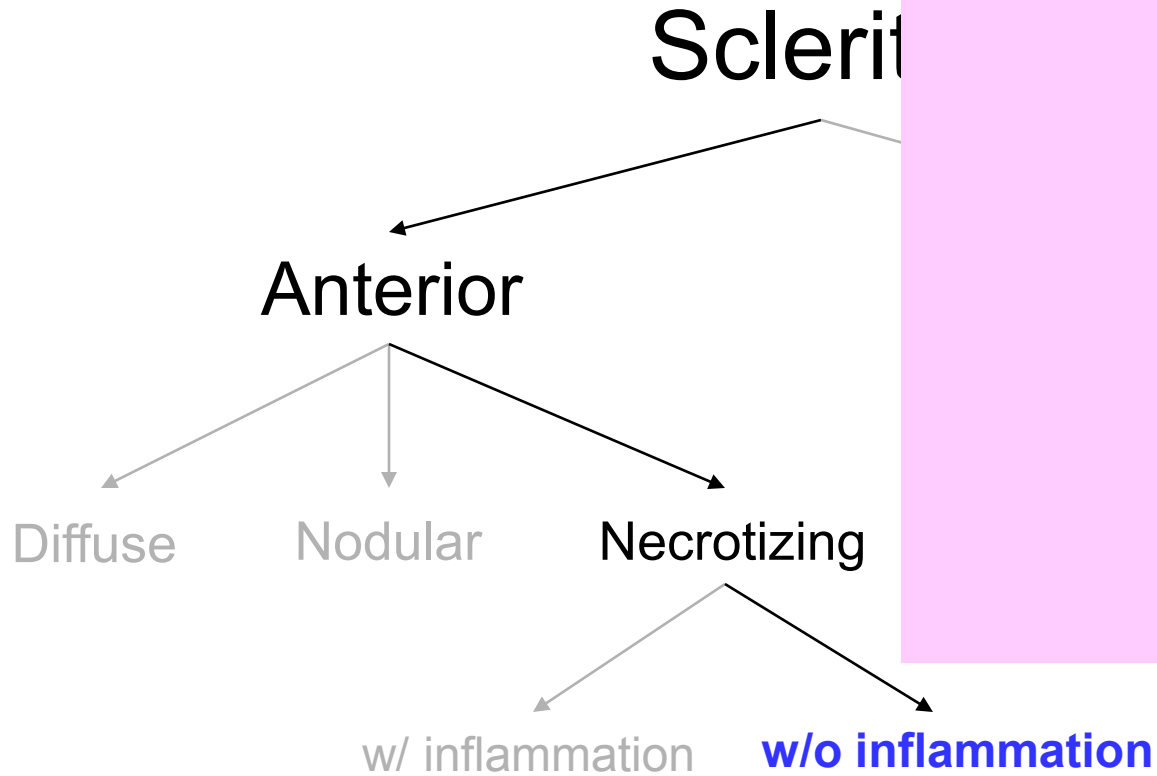
Here is where the eye dentist can save someone's life. The discovery of an ocular vasculitic process should prompt a thorough investigation into whether the ocular disease is a manifestation of a systemic process.

Why is this so important?

The presence of ocular vasculitis in systemic dz portends a dismal prognosis for the pt. Five-year mortality for such pts approaches **50%!**

Scleritis

By what other name is necrotizing scleritis w/o inflammation known?

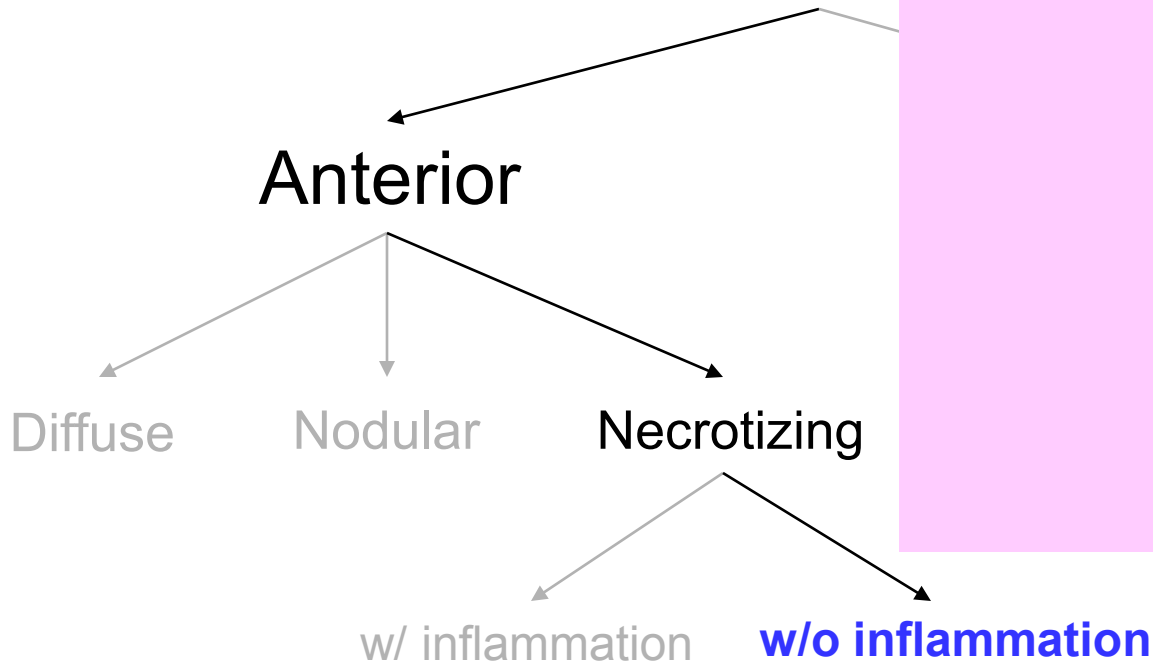


Scleritis

By what other name is necrotizing scleritis w/o inflammation known?

Scleromalacia perforans

Scleritis

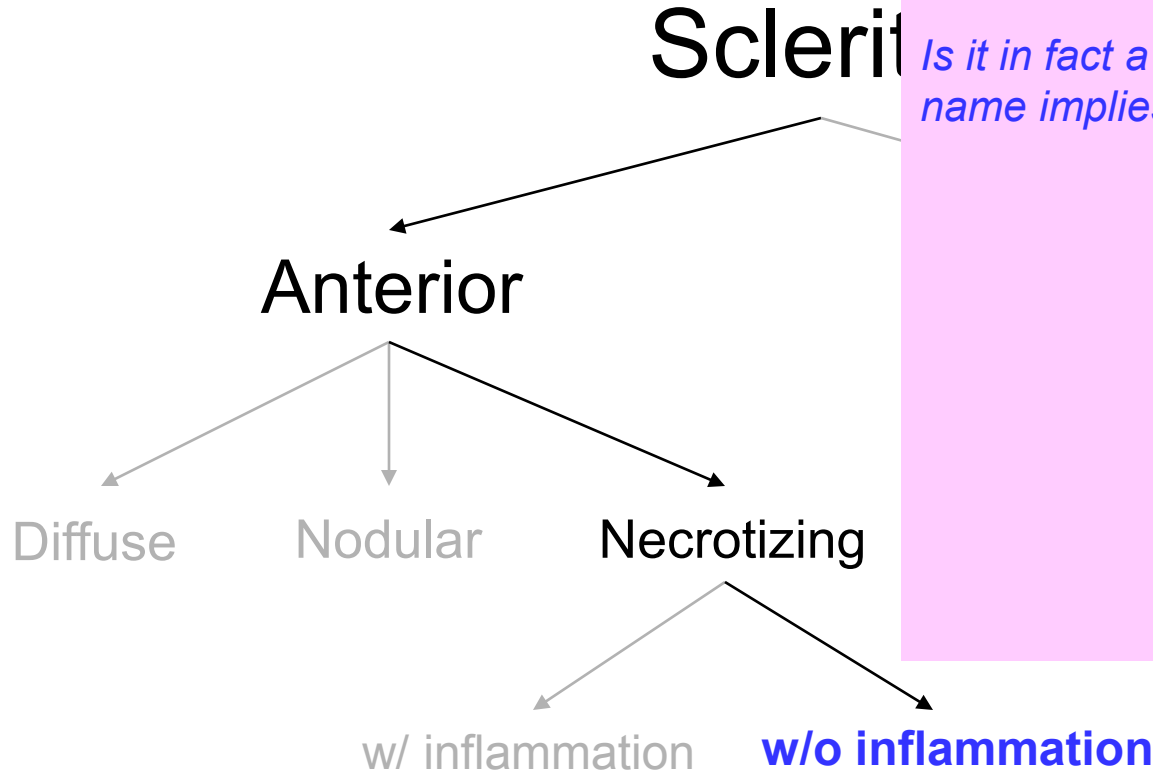


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Scleromalacia perforans

Is it in fact a noninflammatory disease, as the name implies?



Scleritis

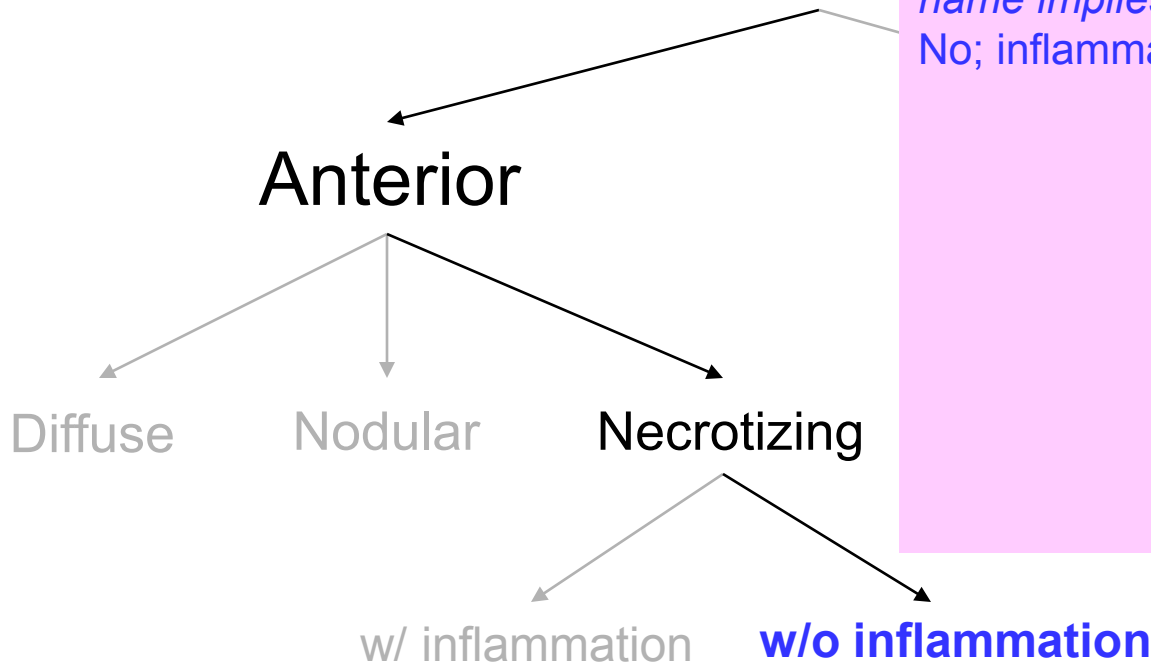
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No; inflammation is present on biopsy

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Scleritis

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With what systemic disease is it most commonly associated?

Anterior

Diffuse

Nodular

Necrotizing

w/ inflammation

w/o inflammation

Scleritis

Scleritis

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Nodular

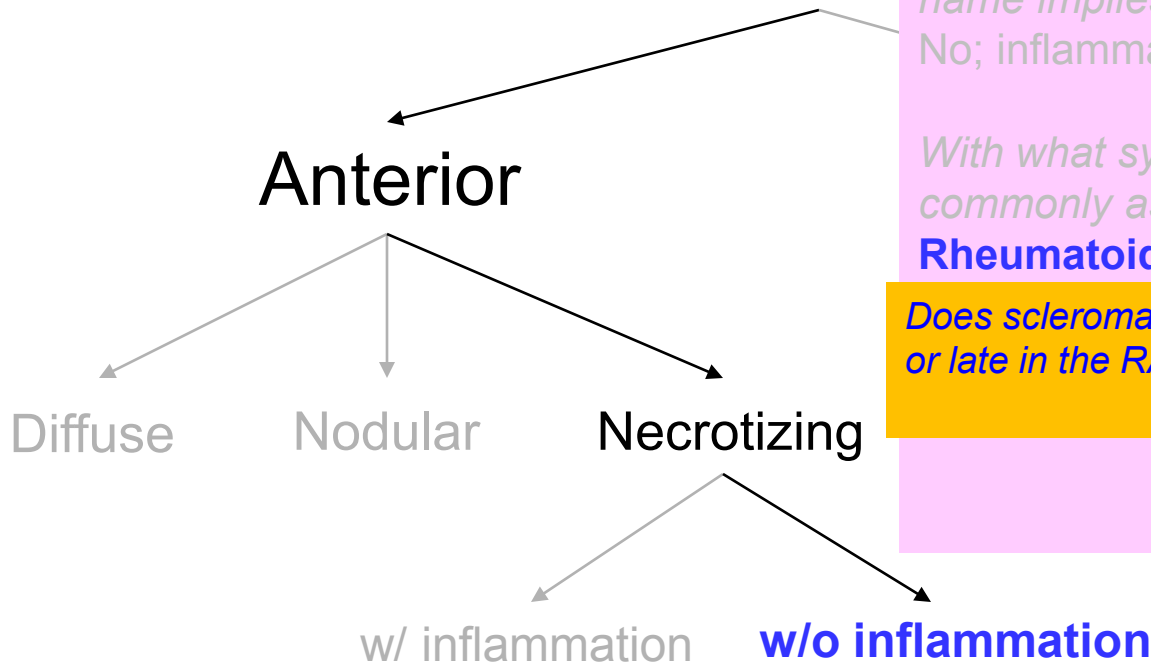
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w/ inflammation

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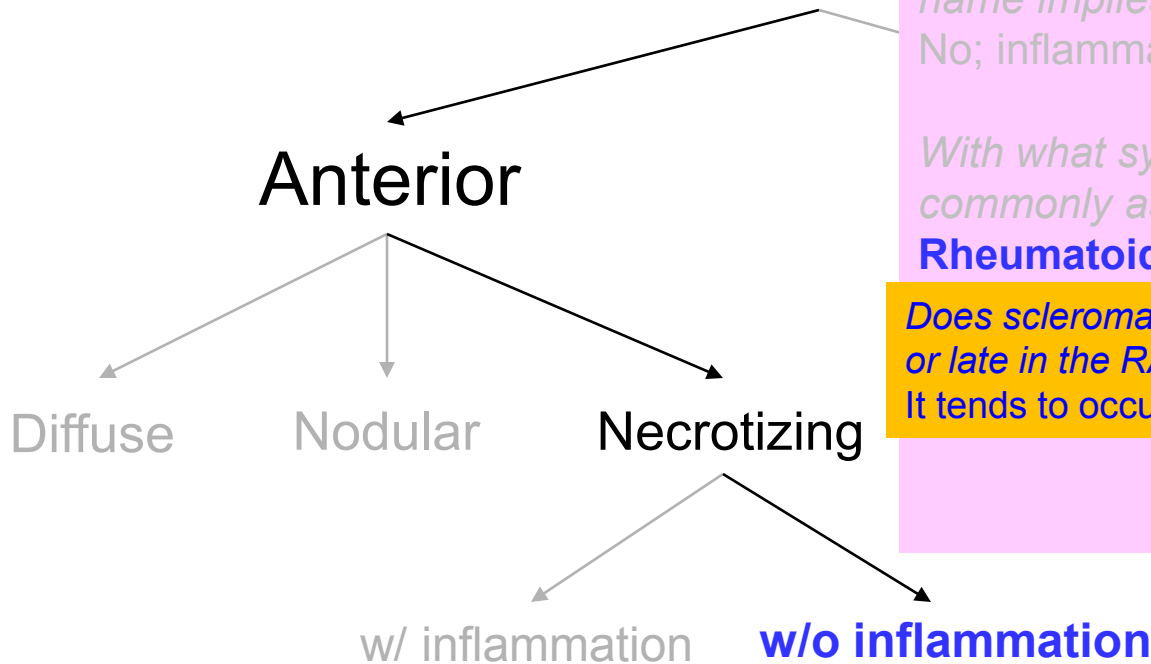
With what systemic disease is it most commonly associated?

Rheumatoid arthritis

Does scleromalacia perforans tend to occur early, or late in the RA dz course?

Scleritis

Scleritis



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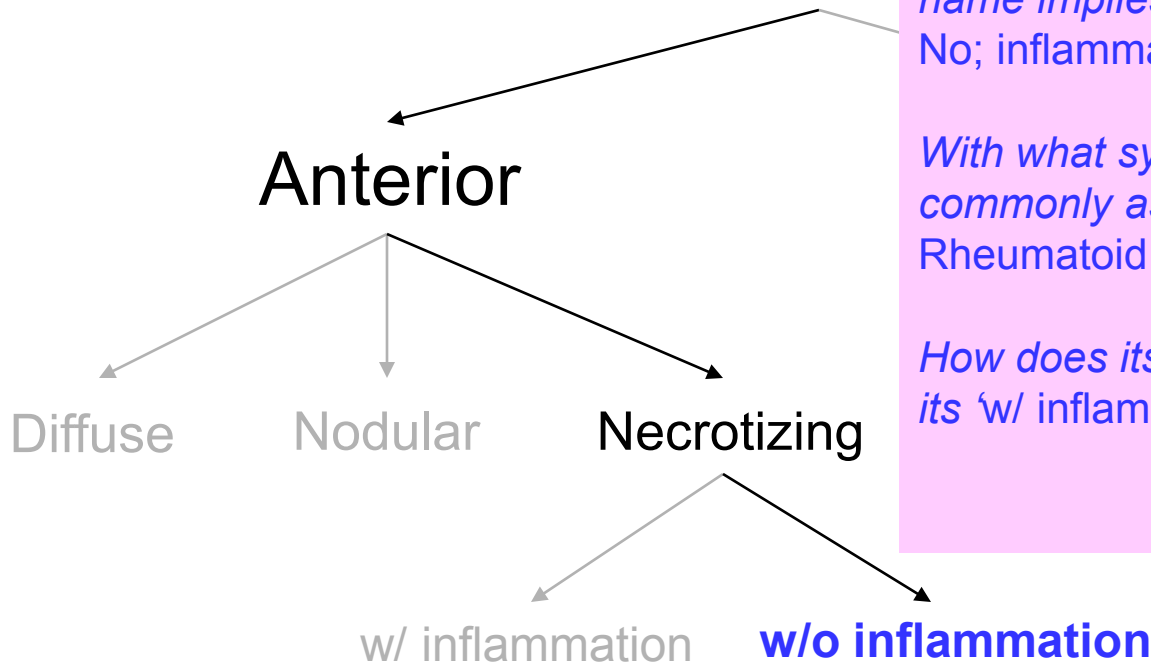
Rheumatoid arthritis

Does scleromalacia perforans tend to occur early, or late in the RA dz course?

It tends to occur late, in longstanding cases

Scleritis

Scleritis



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Scleromalacia perforans

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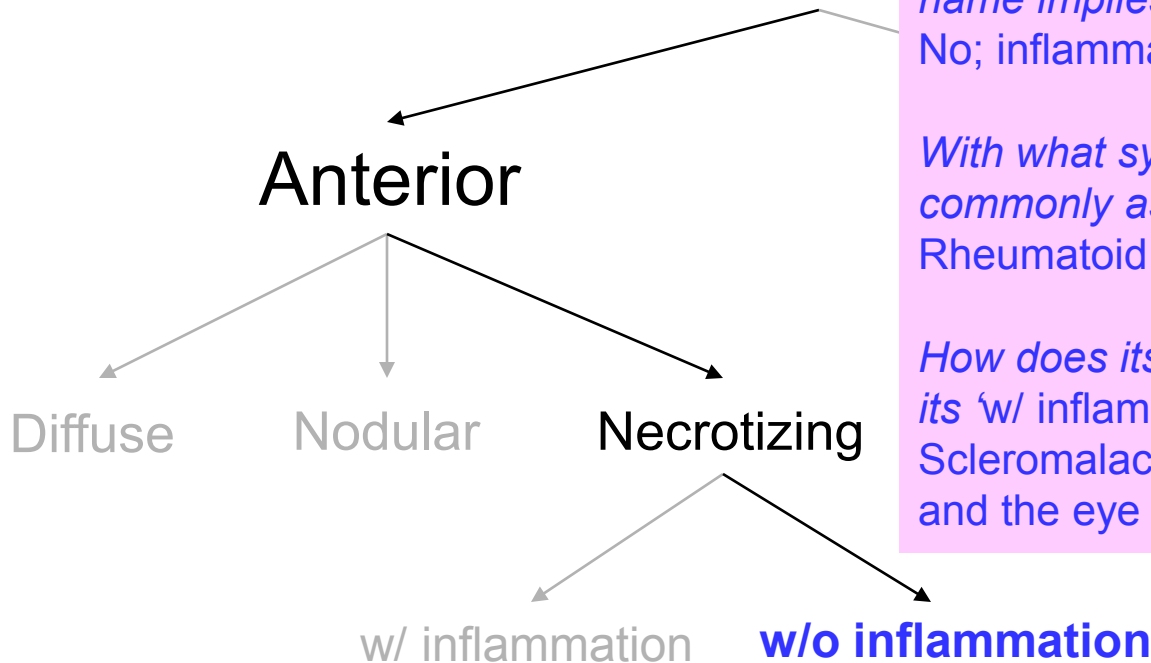
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Rheumatoid arthritis

How does its presentation differ from that of its 'w/ inflammation' cousin?

Scleritis

Scleritis



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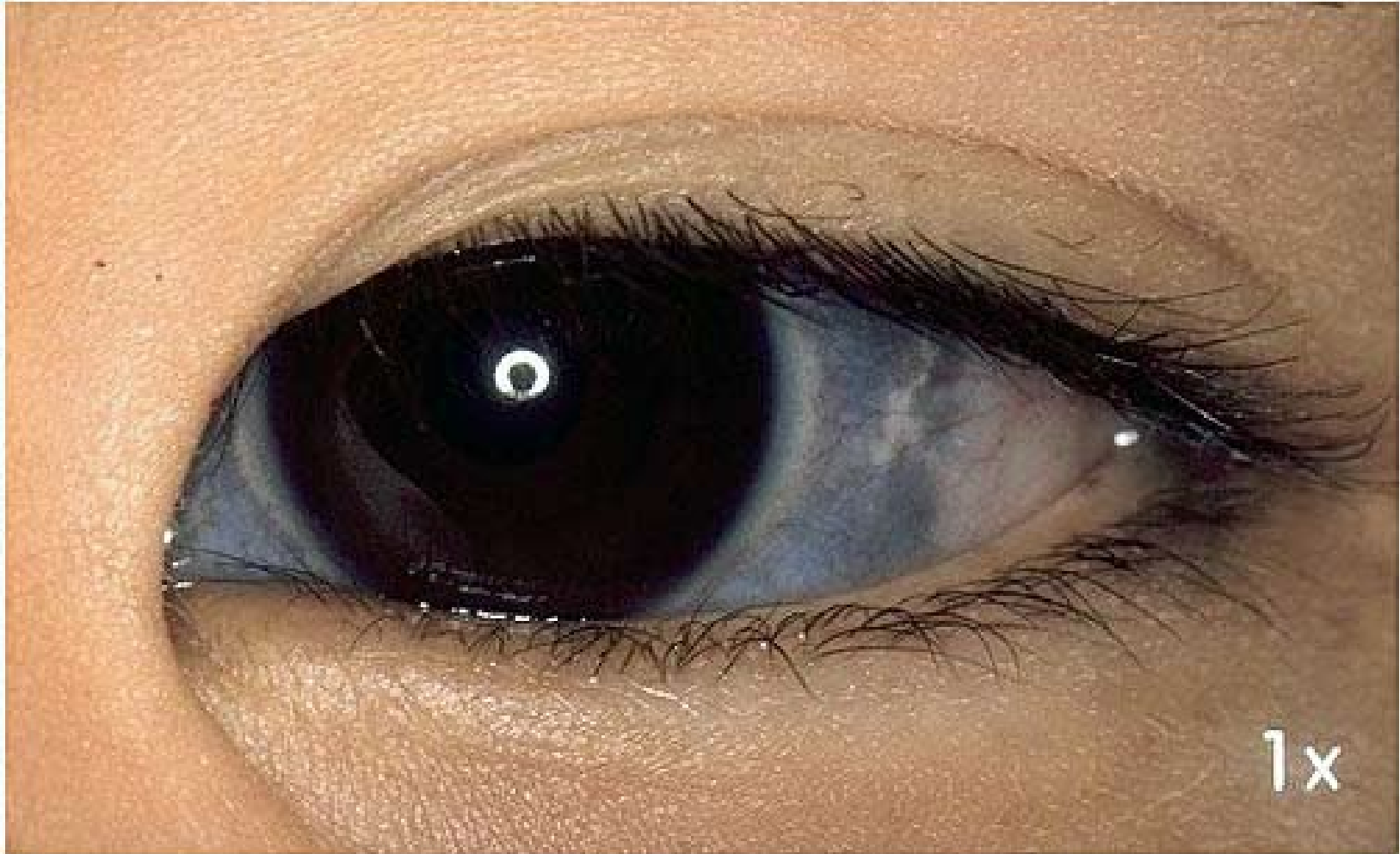
Scleromalacia perforans is typically painless, and the eye is not inflamed

Scleritis



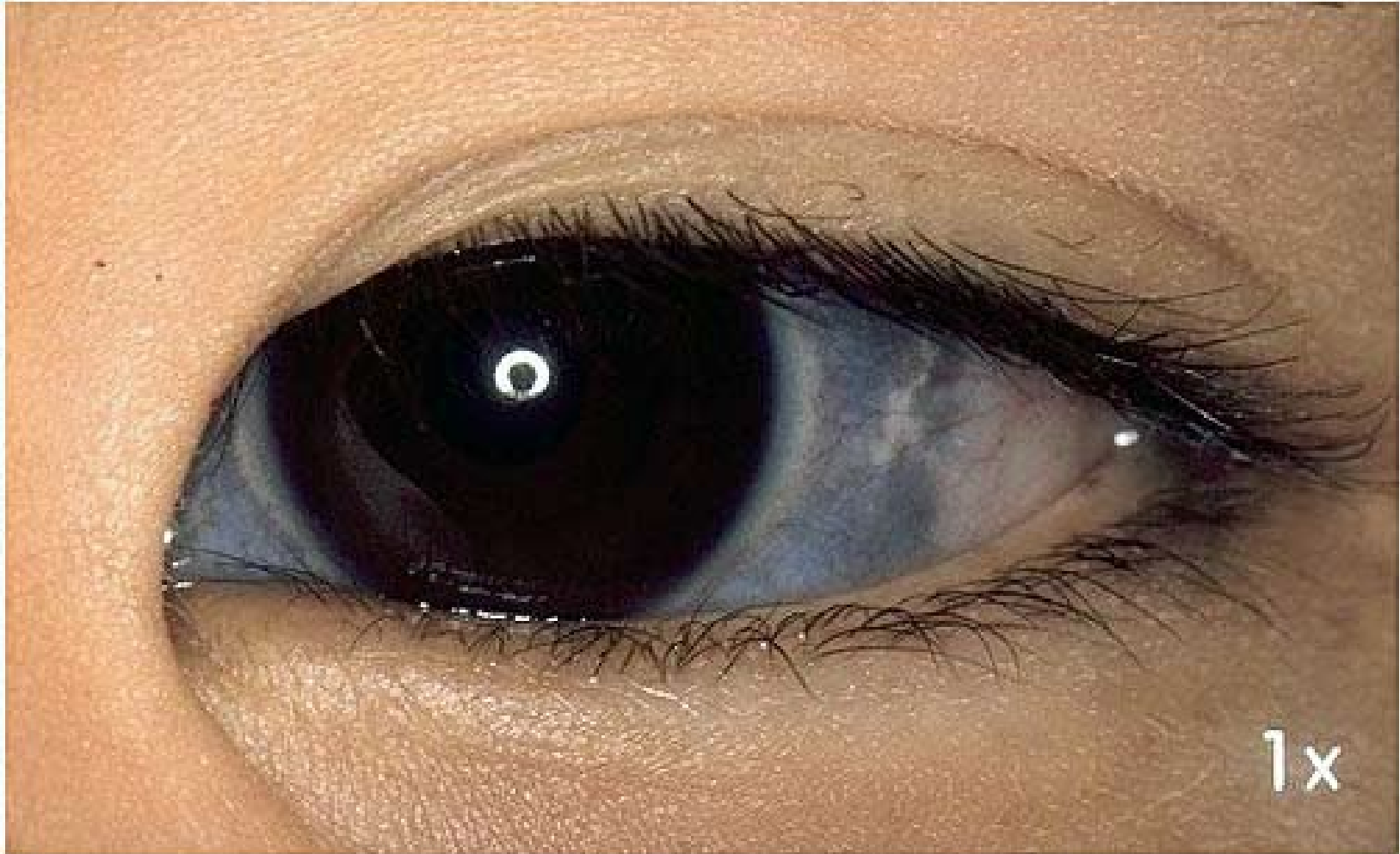
Necrotizing scleritis w/o inflammation

Scleritis



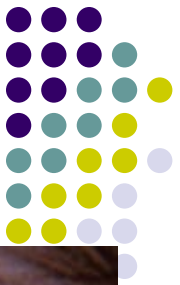
Is this scleromalacia perforans?

Scleritis



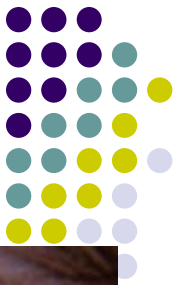
No--this is blue sclera in **Ehlers-Danlos**

Scleritis



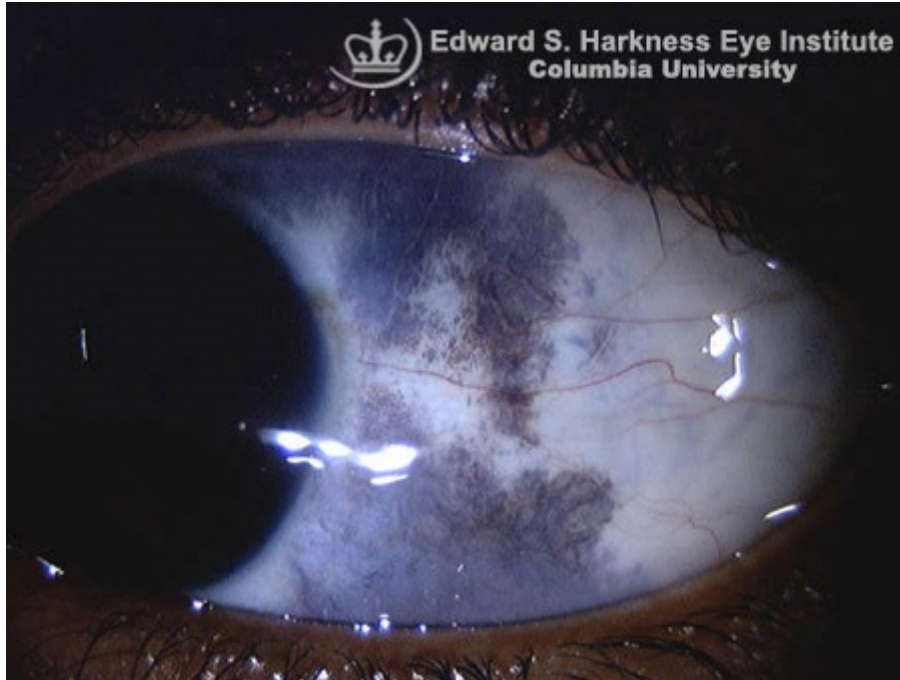
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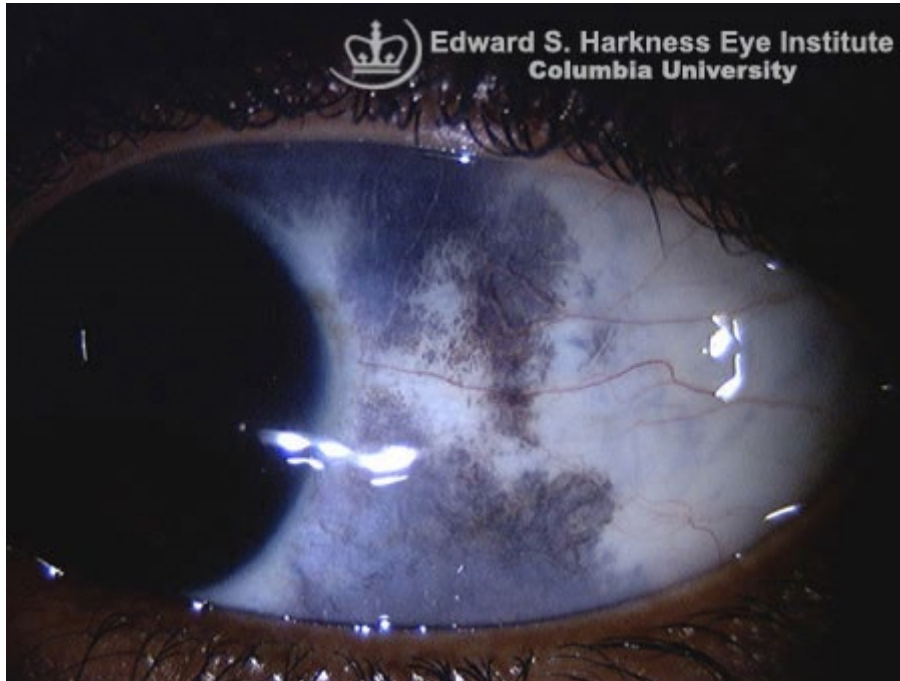
No--this is blue sclera in **OA**

Scleritis



Is this scleromalacia perforans?

Scleritis



No--this is **ocular melanocytosis**

Scleritis

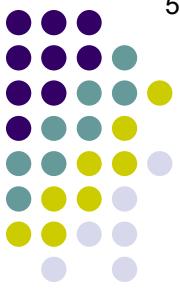


Is this scleromalacia perforans?

Scleritis

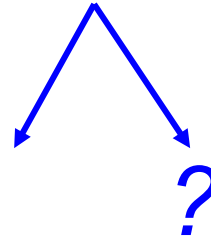


No--this is **oculodermal melanocytosis** (aka *Nevus of Ota*)



Scleritis

Scleritis



From what related disease must scleritis be differentiated?

Anterior

Diffuse

Nodular

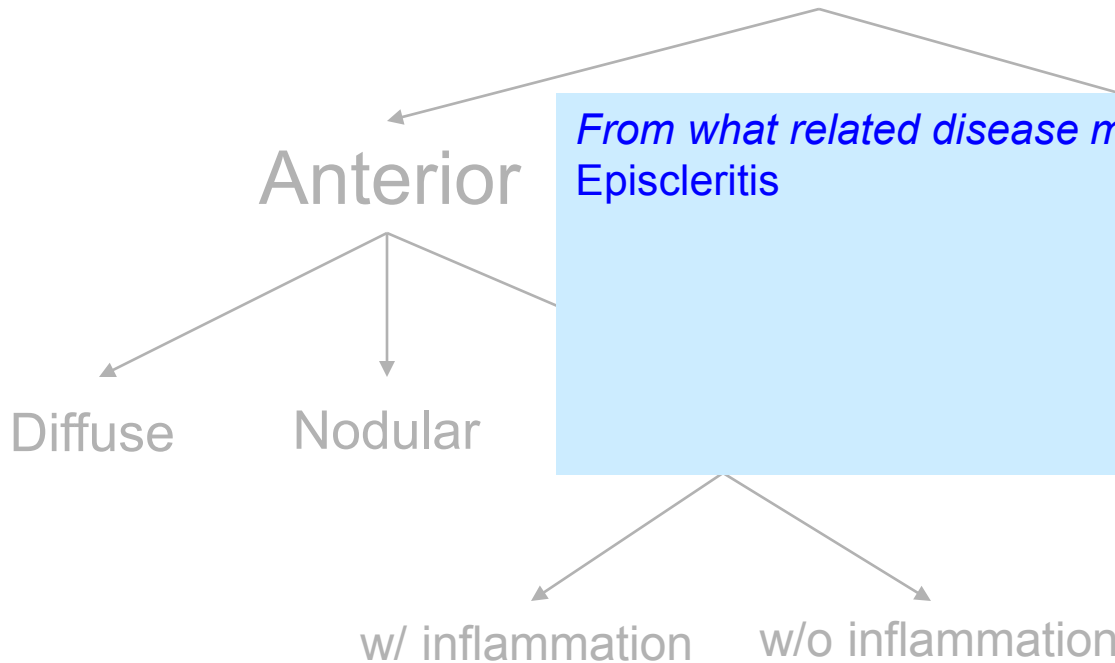
w/ inflammation

w/o inflammation

Scleritis

Scleritis

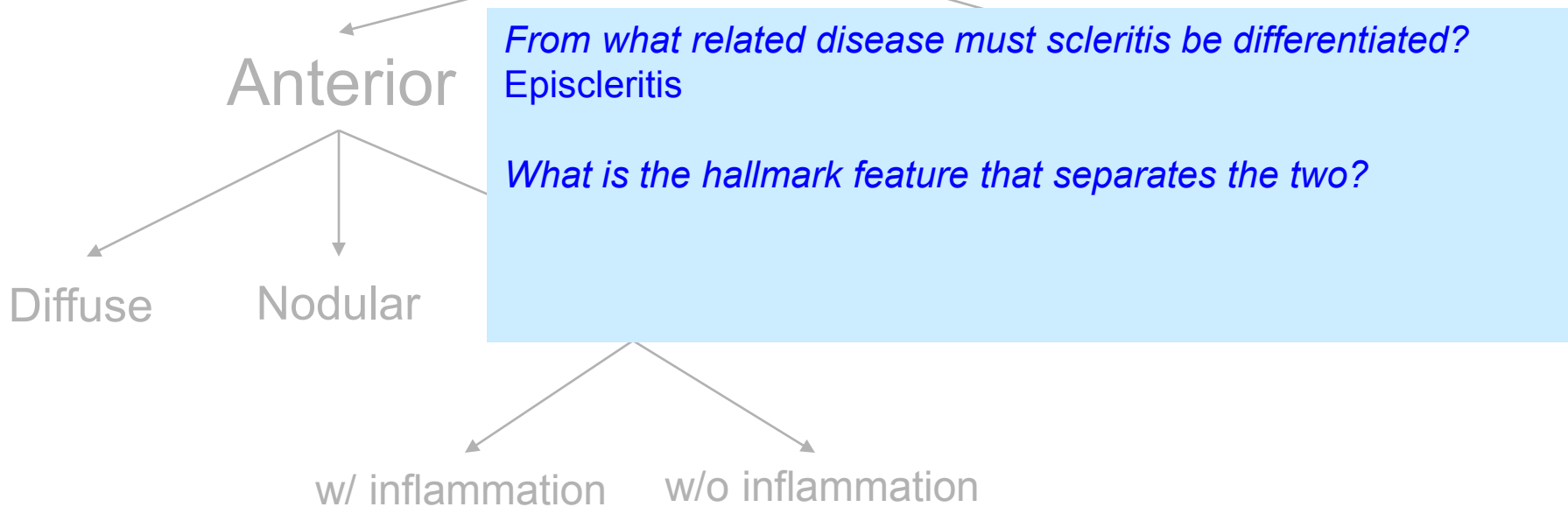
Episcleritis



Scleritis

Scleritis

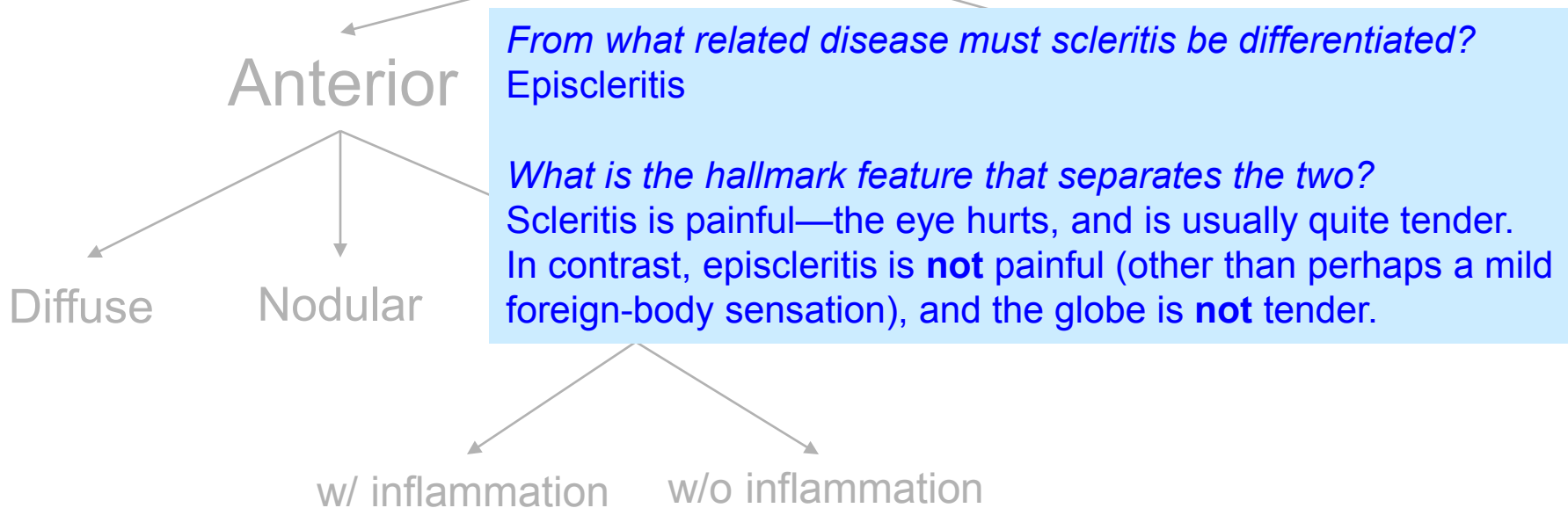
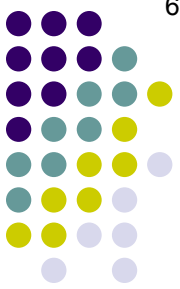
Episcleritis



Scleritis

Scleritis

Episcleritis



Scleritis

Scleritis

Episcleritis

Anterior

Diffuse

Nodular

w/ inflammation

w/o inflammation

*From what related disease must scleritis be differentiated?
Episcleritis*

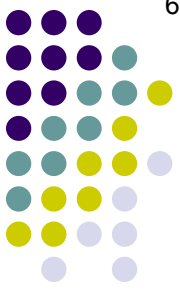
What is the hallmark feature that separates the two?

Scleritis is painful—the eye hurts, and is usually quite tender.

In contrast, episcleritis is **not** painful (other than perhaps a mild foreign-body sensation), and the globe is **not** tender.

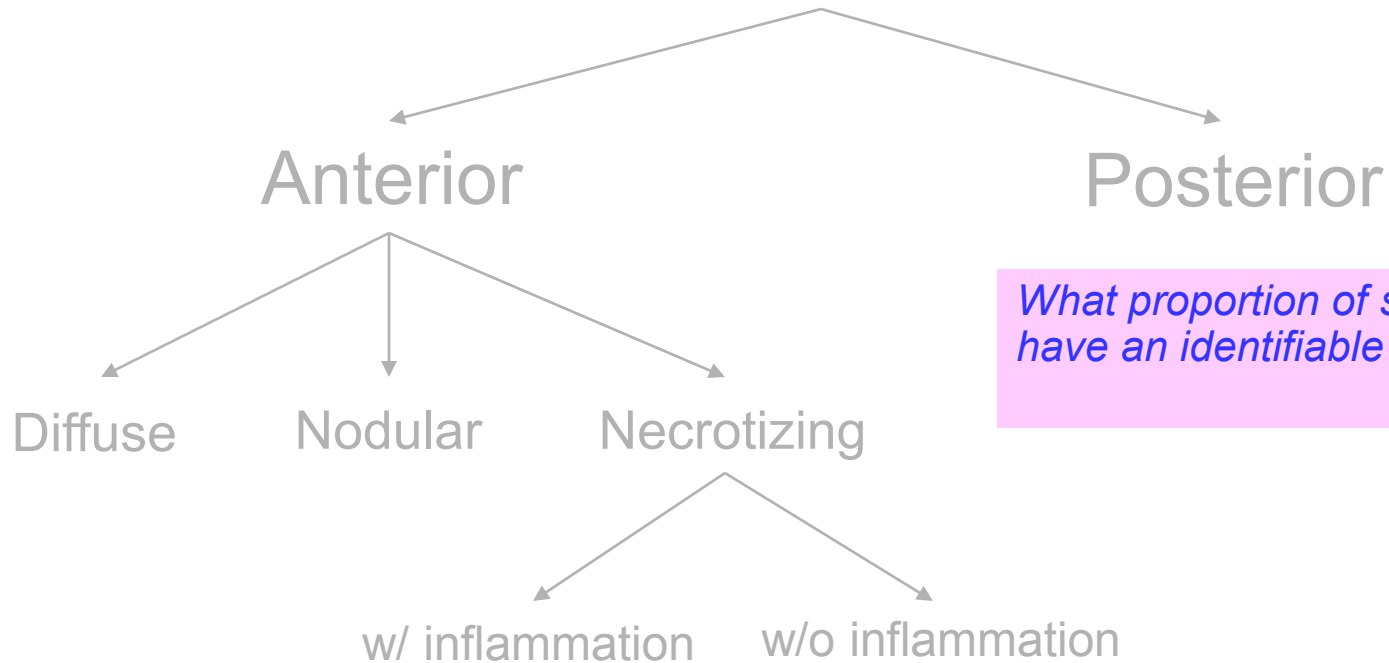
*Necrotizing scleritis w/o inflammation is
a notable exception to this rule*



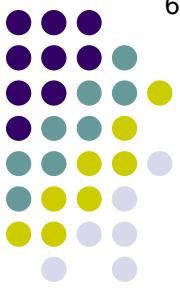


Scleritis

Scleritis

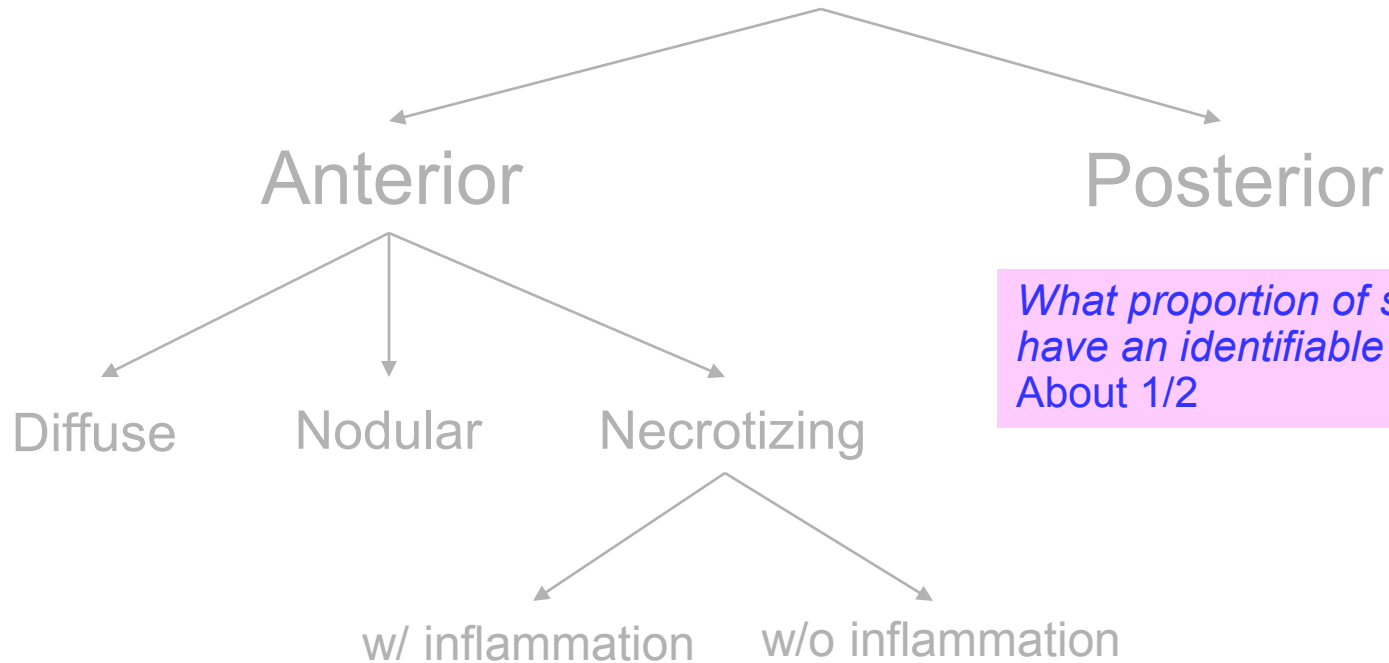


What proportion of scleritis patients have an identifiable systemic condition?



Scleritis

Scleritis

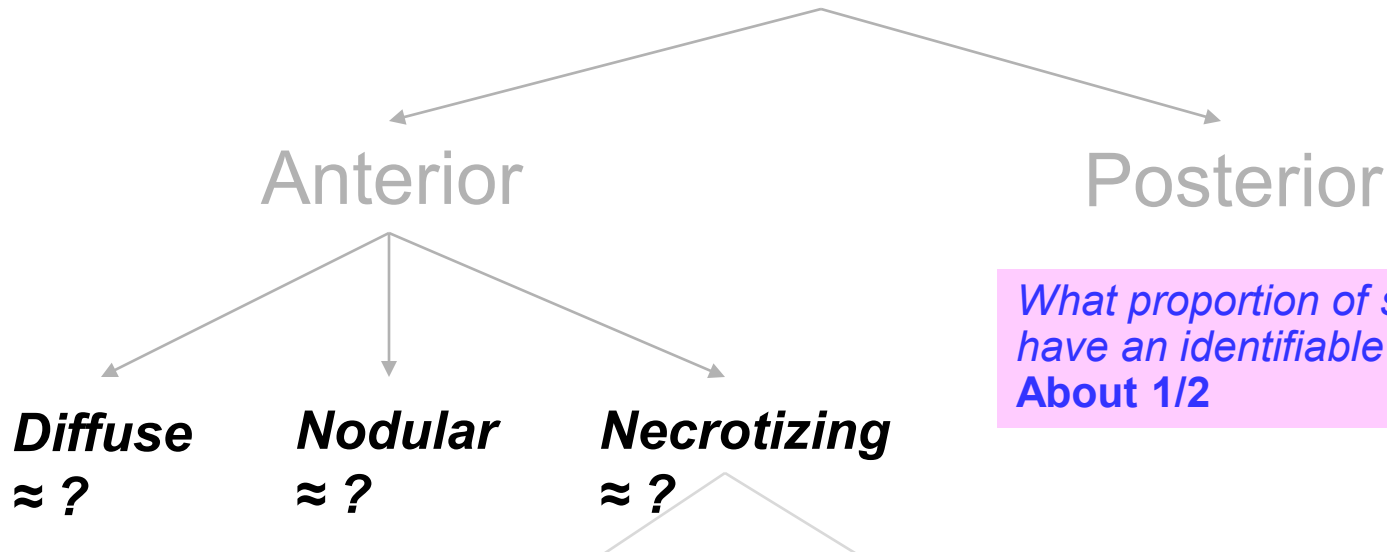


What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

Scleritis



Scleritis



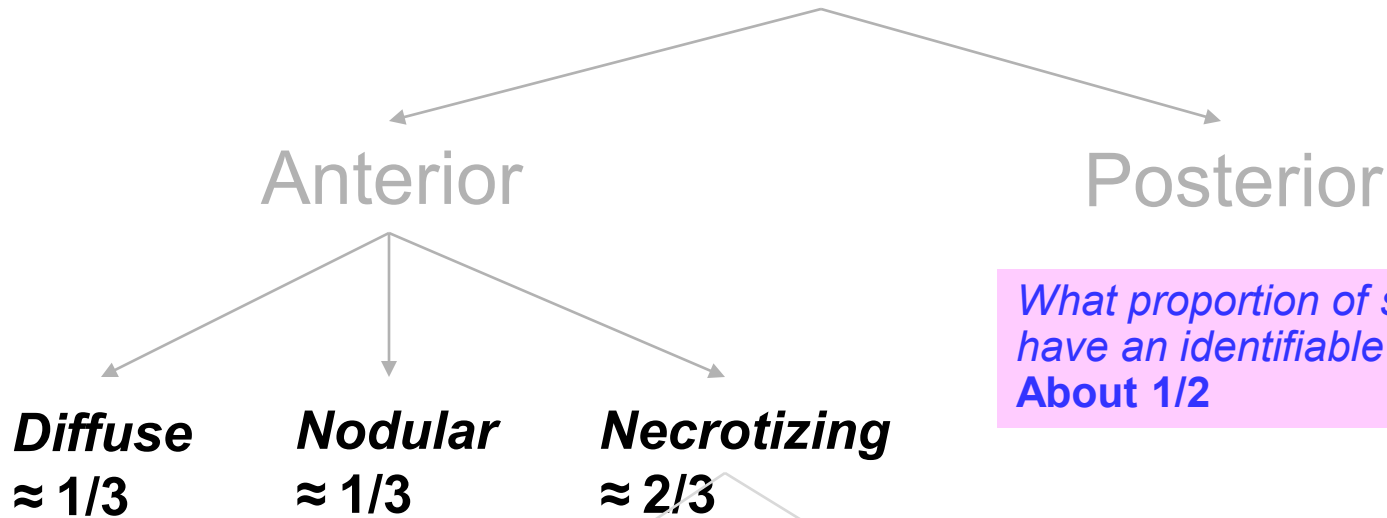
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

More specifically, what proportion of Diffuse vs Nodular vs Necrotizing pts have an identifiable systemic condition?

Scleritis



Scleritis



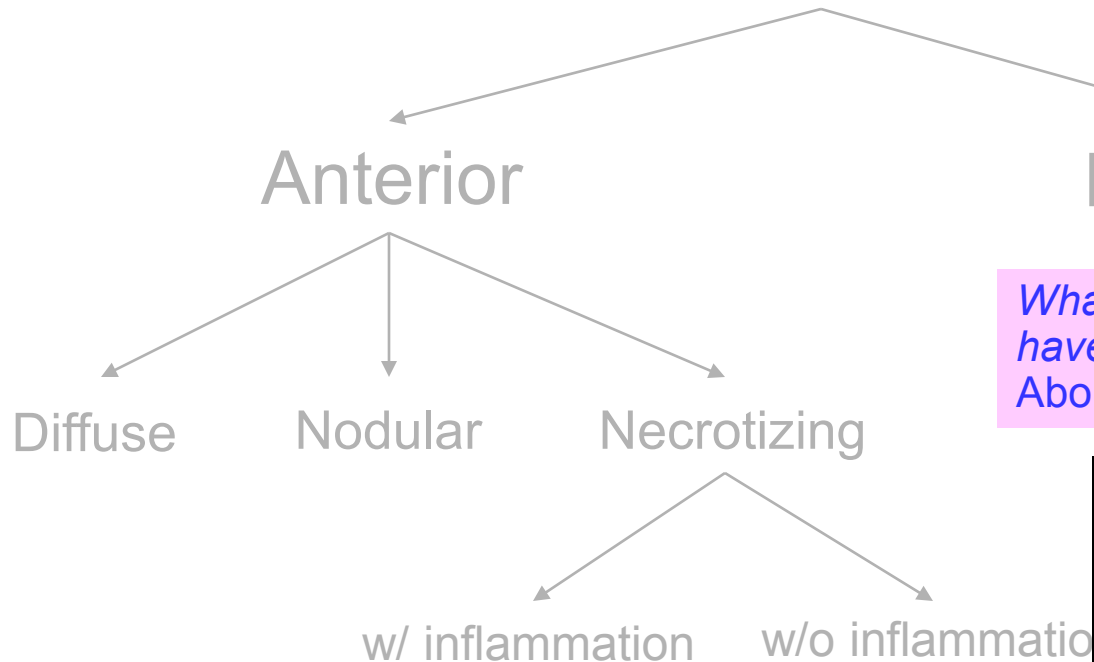
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

More specifically, what proportion of Diffuse vs Nodular vs Necrotizing pts have an identifiable systemic condition?
1/3, 1/3 and 2/3, respectively

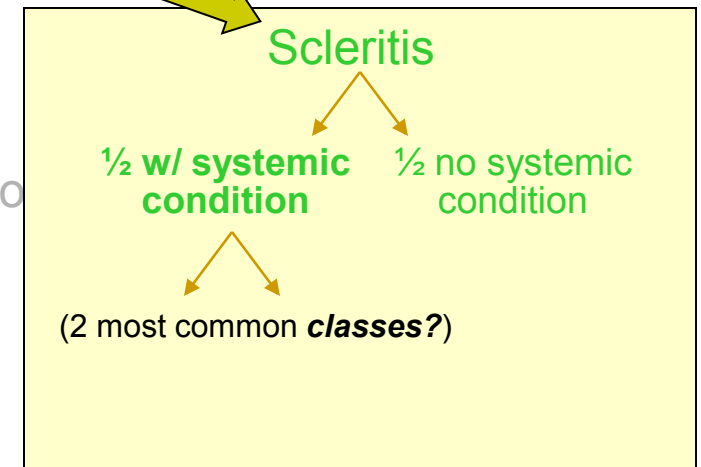
Scleritis



Scleritis



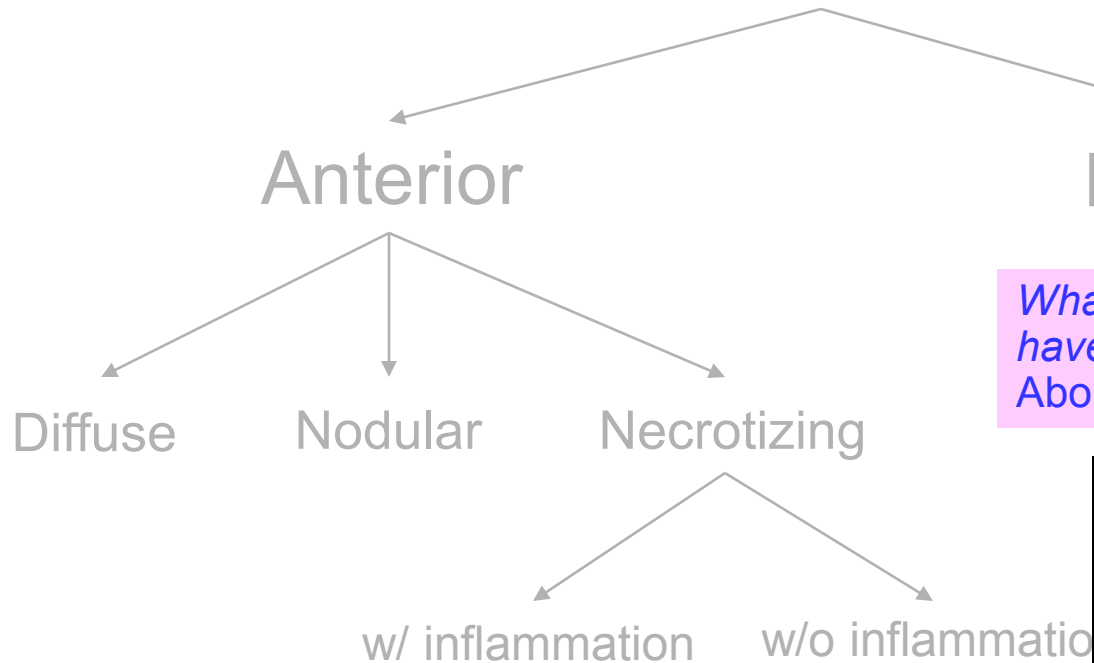
*What proportion of scleritis patients have an identifiable systemic condition?
About 1/2*



Scleritis

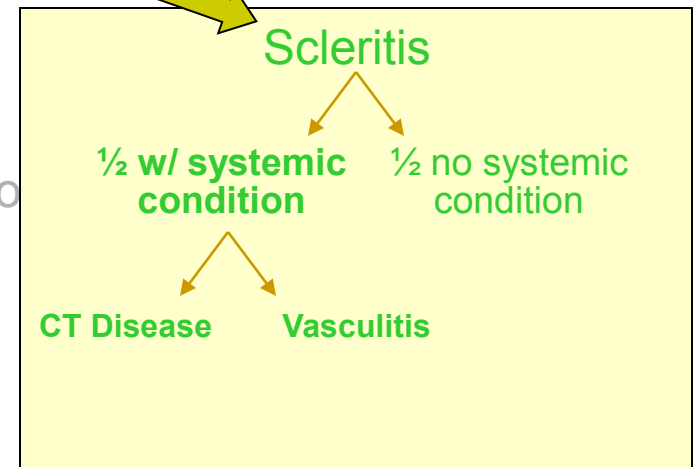


Scleritis



(CT = connective tissue)

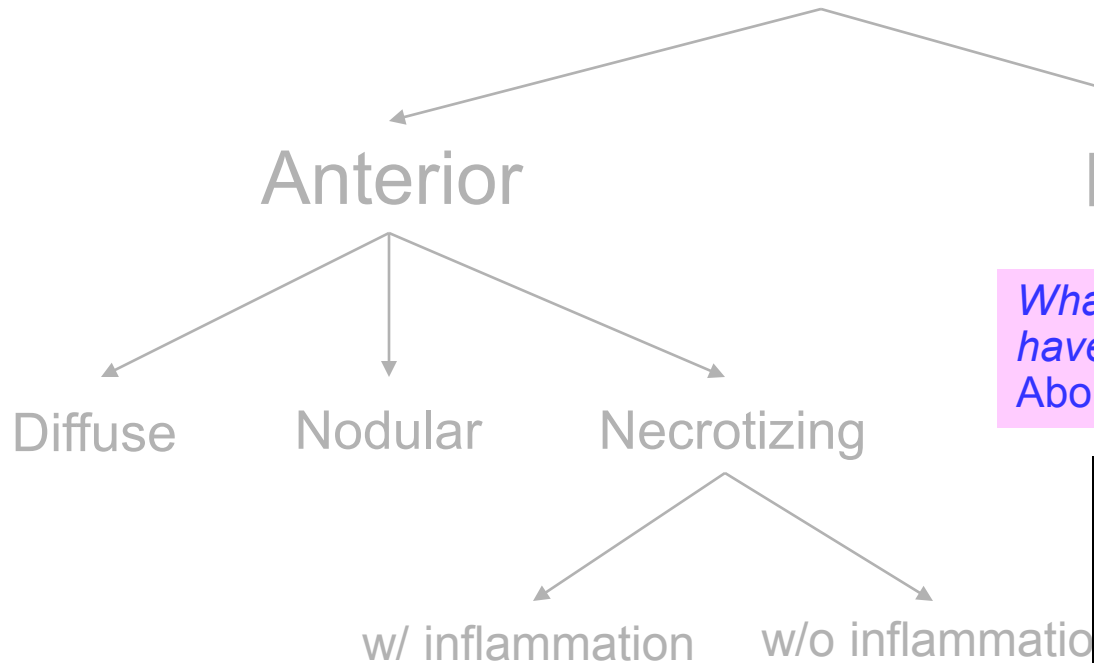
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2



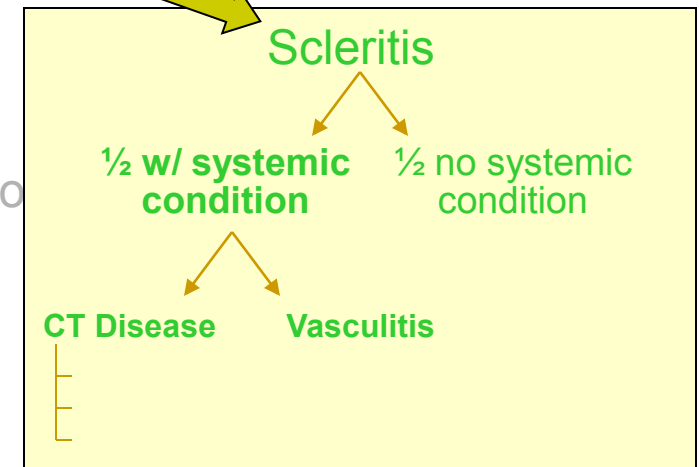
Scleritis



Scleritis

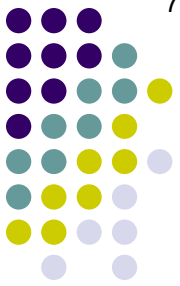


*What proportion of scleritis patients have an identifiable systemic condition?
About 1/2*

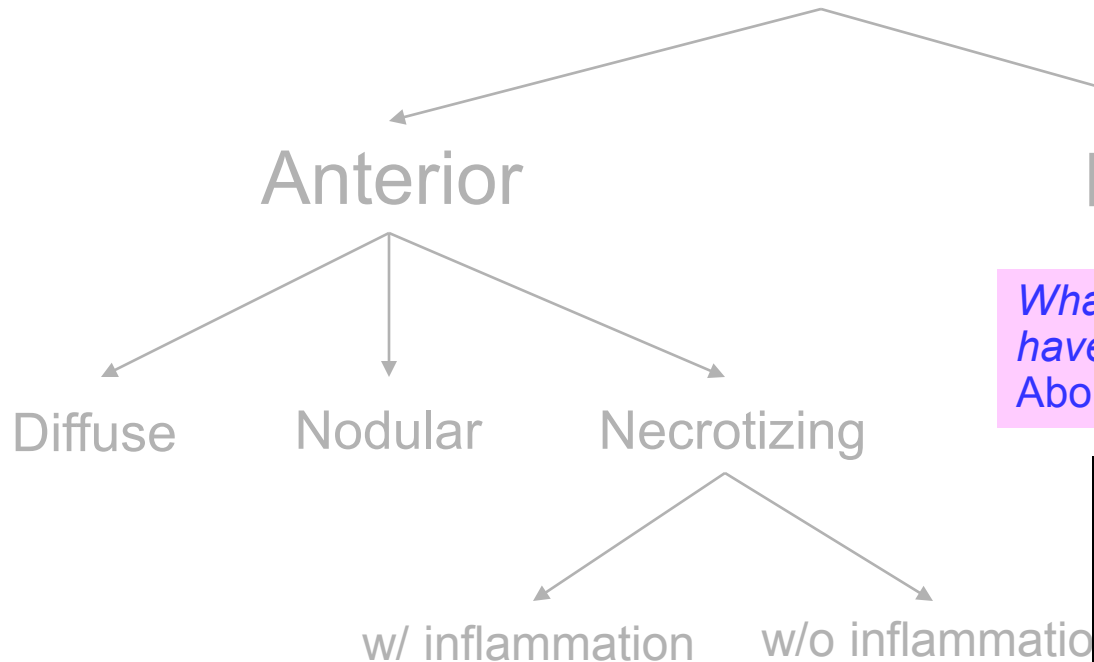


(3 most common **CT diseases**?)

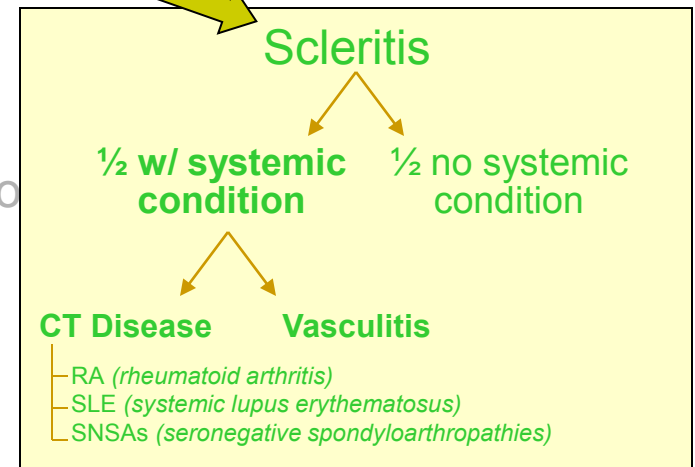
Scleritis



Scleritis



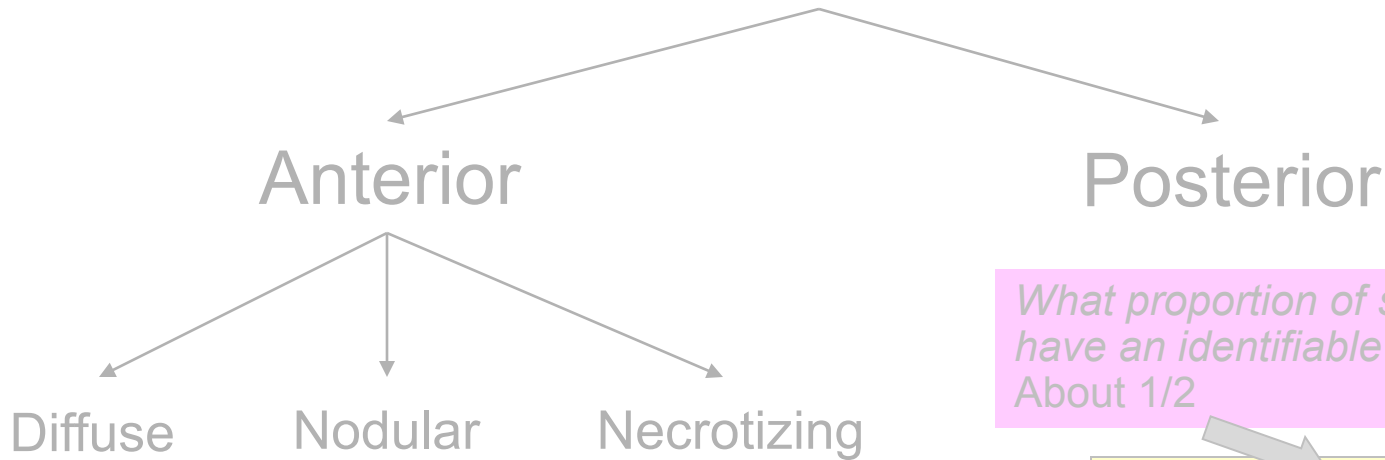
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About 1/2



Scleritis

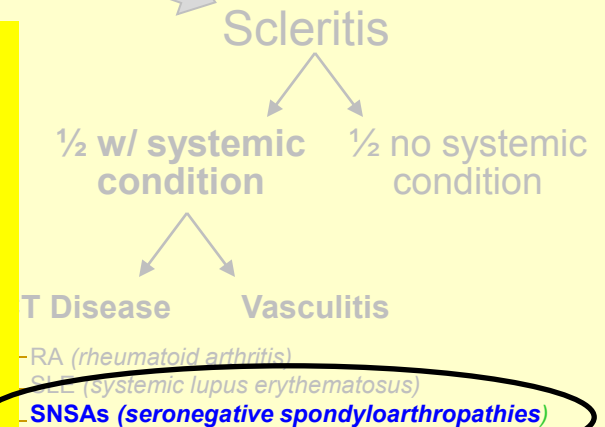


Scleritis

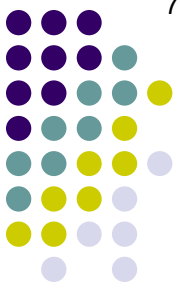


What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

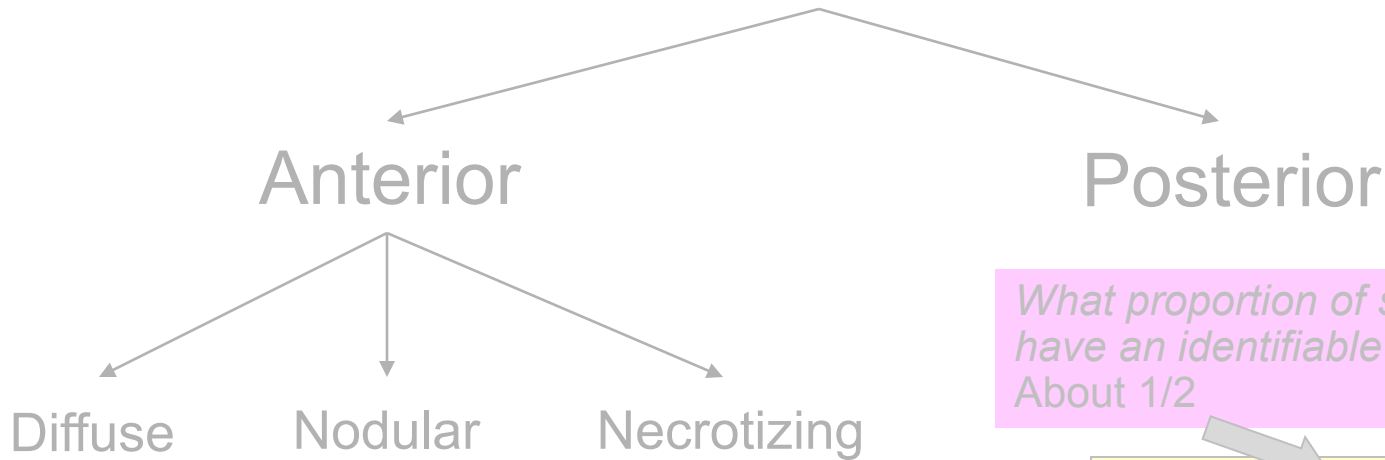
To what does the term seronegative spondyloarthropathies refer?



Scleritis

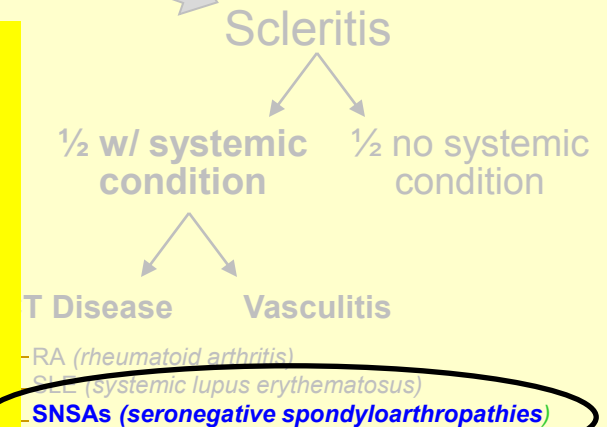


Scleritis



What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

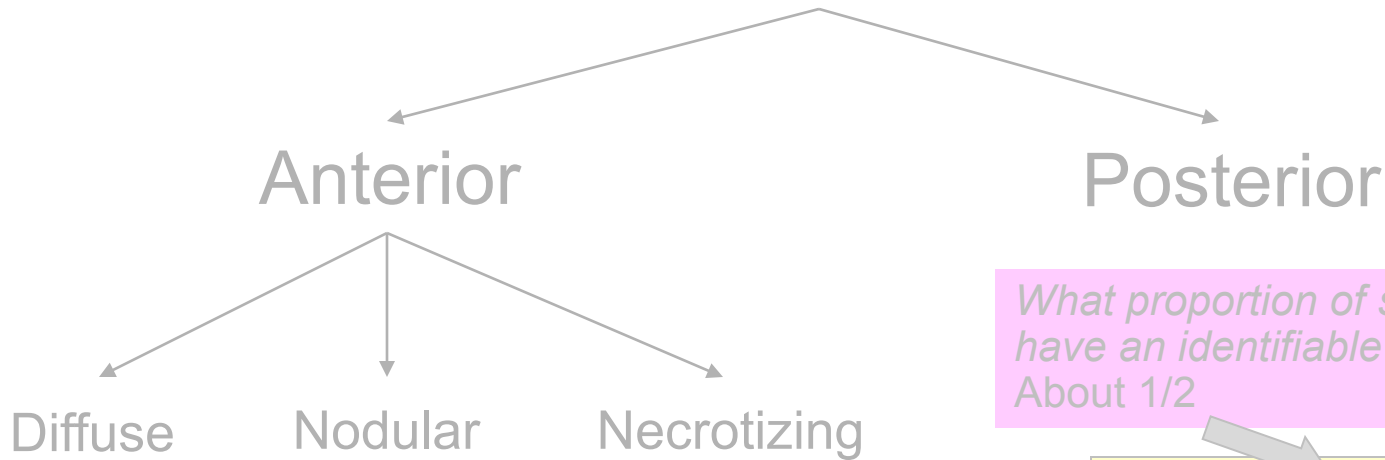
To what does the term seronegative spondyloarthropathies refer?
It is an umbrella term for a group of related rheumatologic conditions



Scleritis



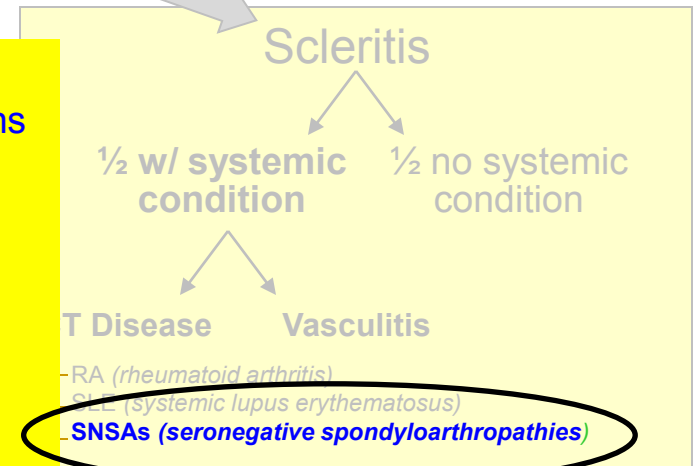
Scleritis



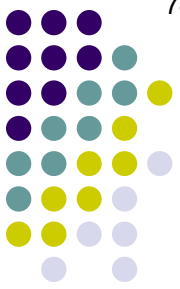
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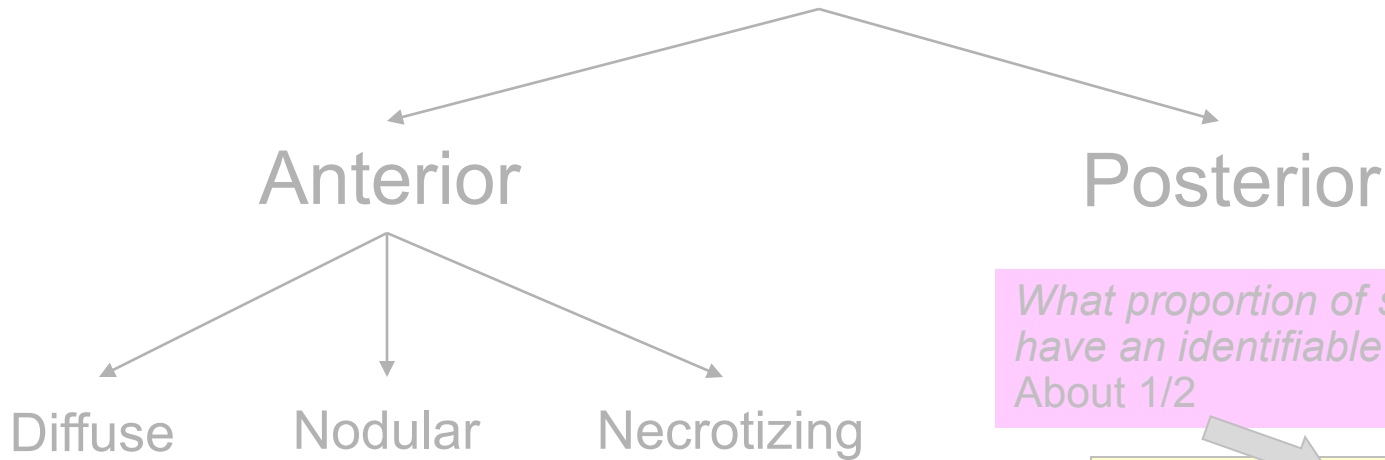
To what does the word seronegative refer?



Scleritis



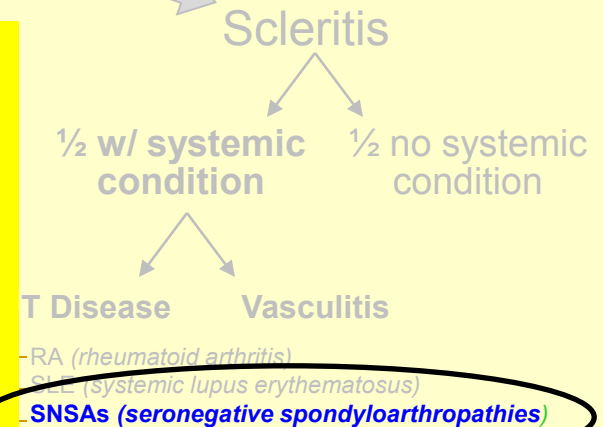
Scleritis



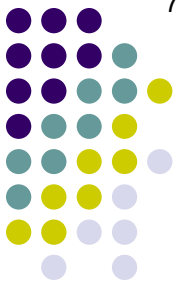
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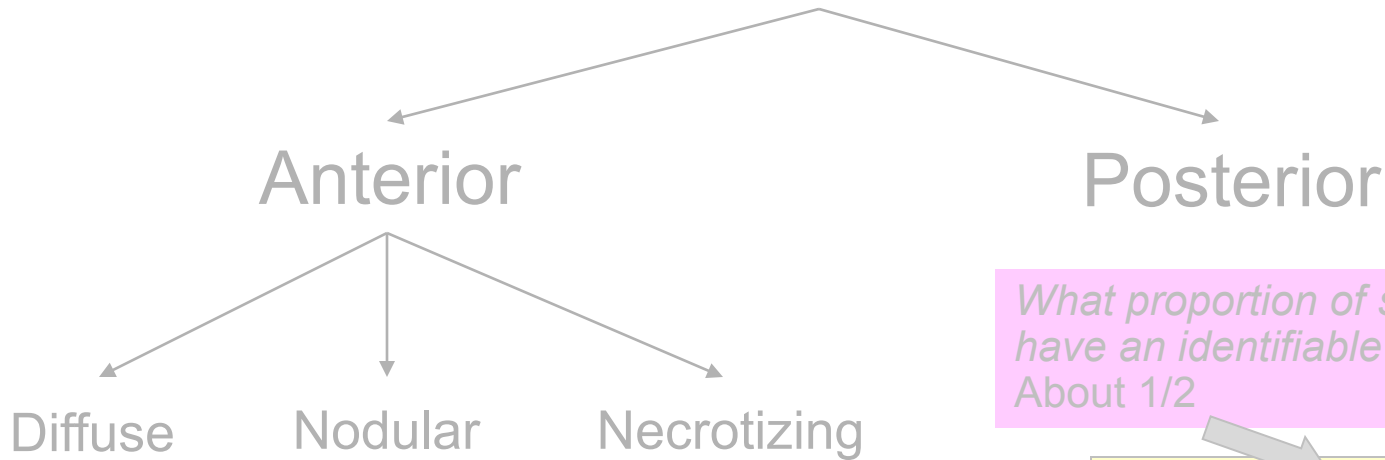
To what does the word seronegative refer?
To the fact that the rheumatoid factor test is negative in these conditions



Scleritis



Scleritis



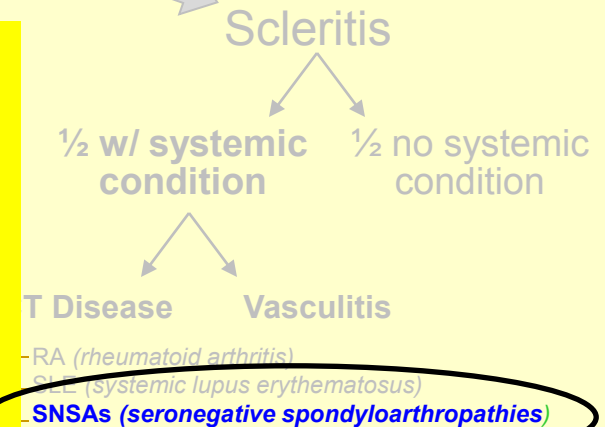
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About 1/2

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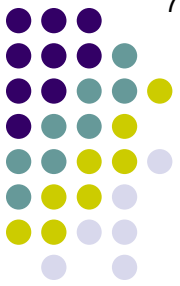
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Name three common seronegative spondyloarthropathies.

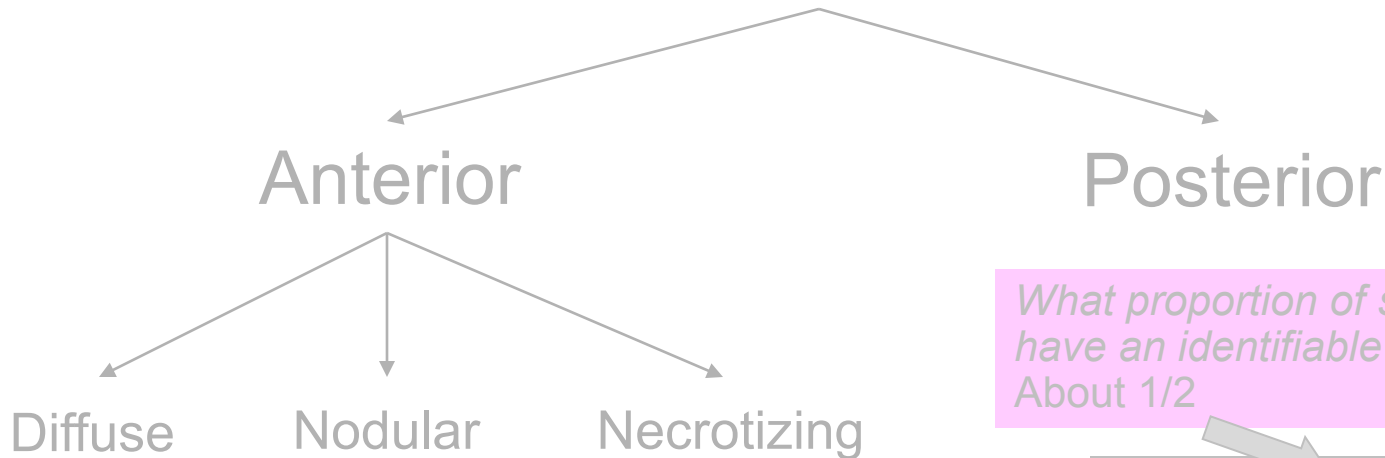
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Scleritis



Scleritis



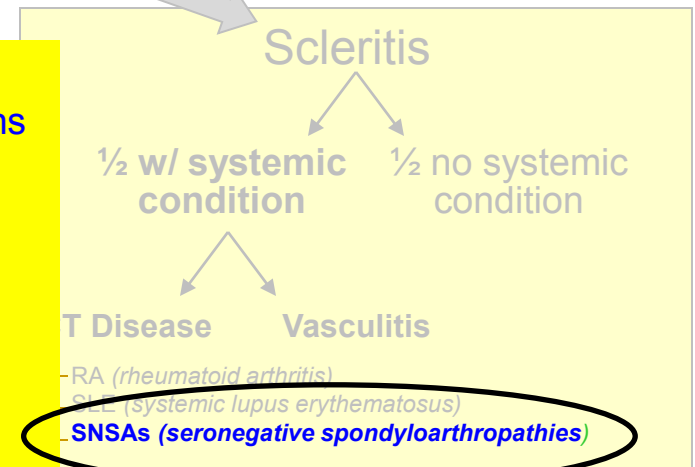
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2

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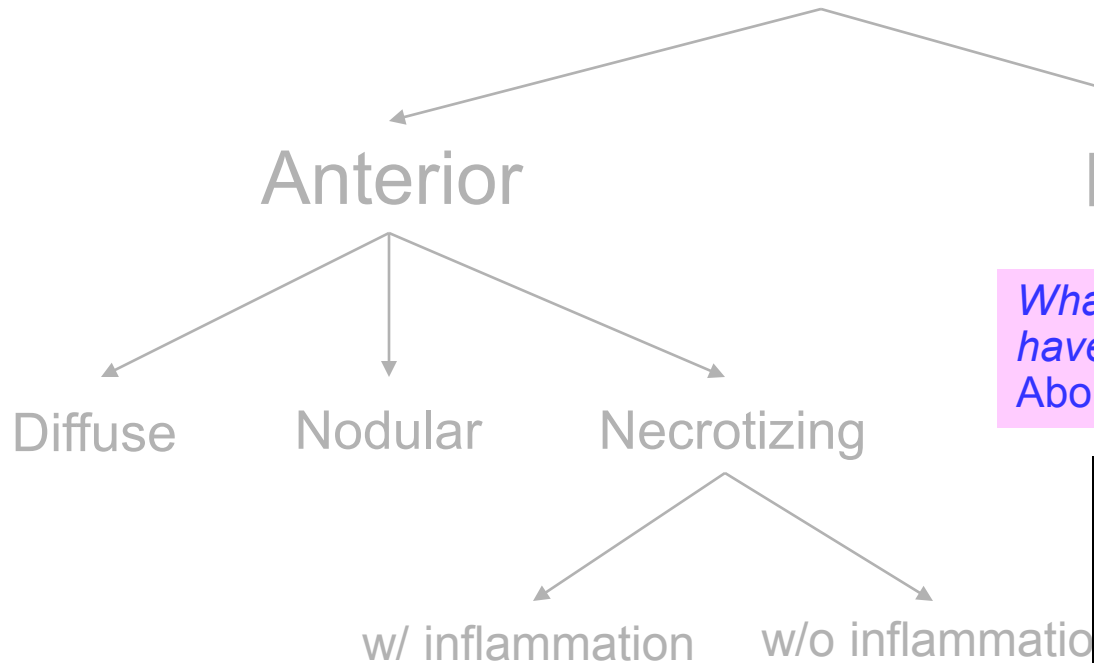
- Ankylosing spondylitis
- Reactive arthritis
- Psoriatic arthritis



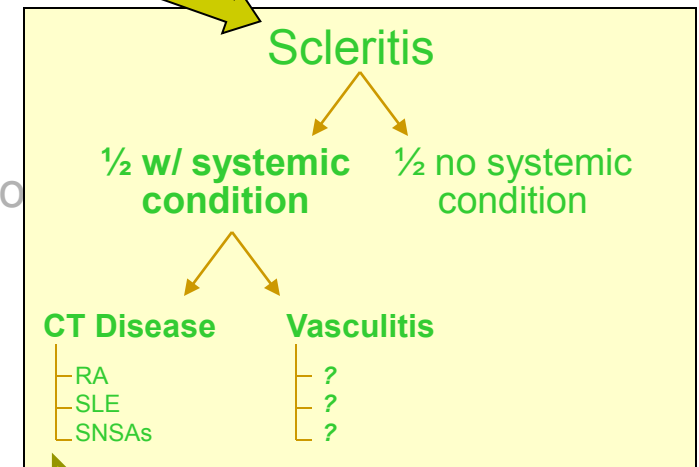
Scleritis



Scleritis



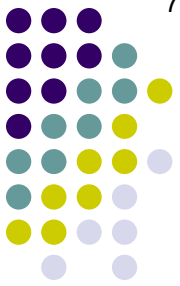
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2



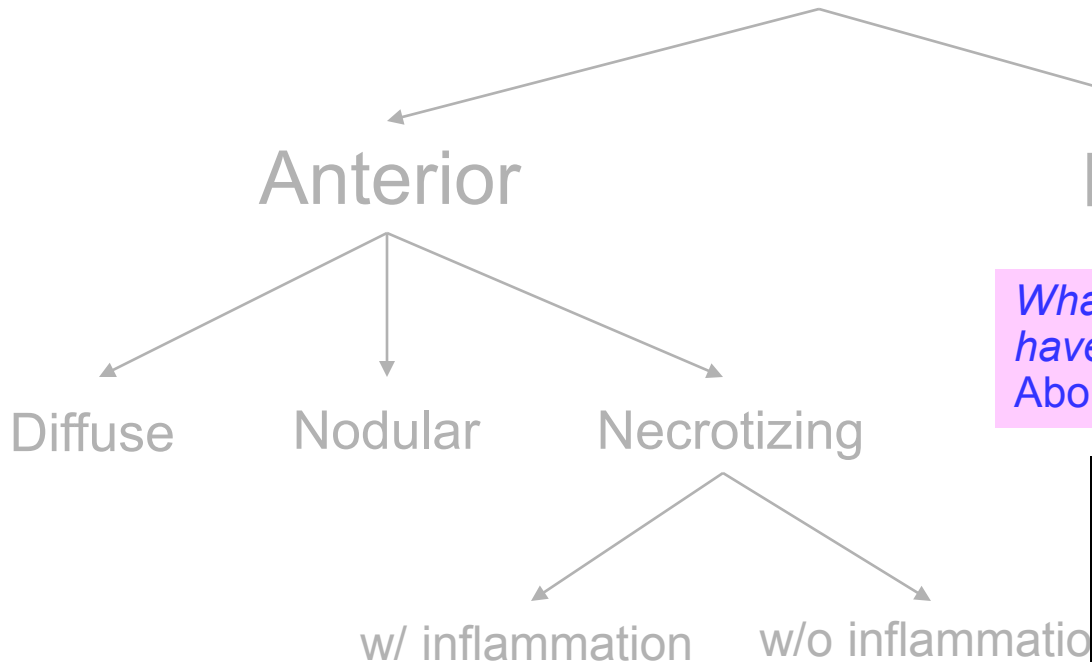
Next question

(3 most common **vasculitides**?)

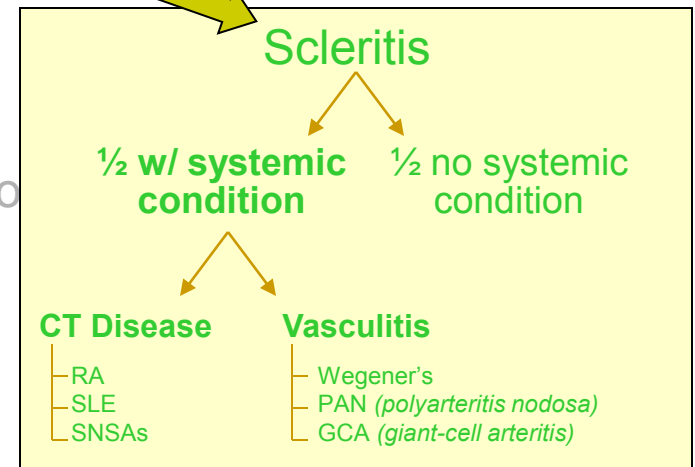
Scleritis



Scleritis



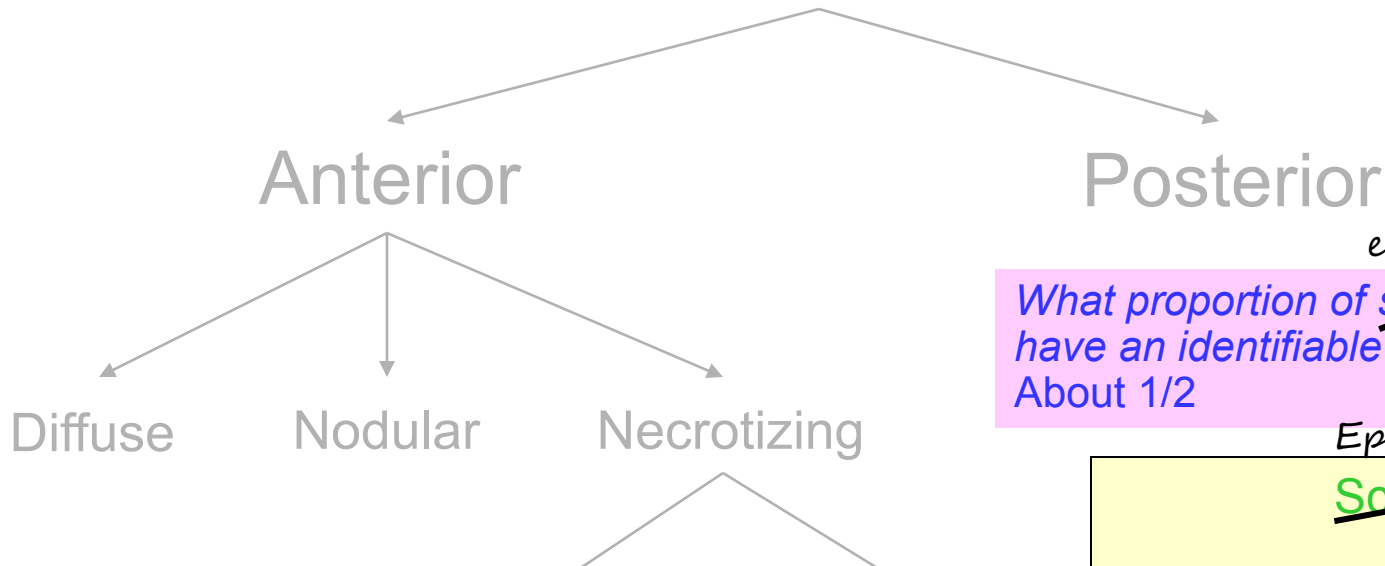
What proportion of scleritis patients have an identifiable systemic condition?
About 1/2



Scleritis



Scleritis

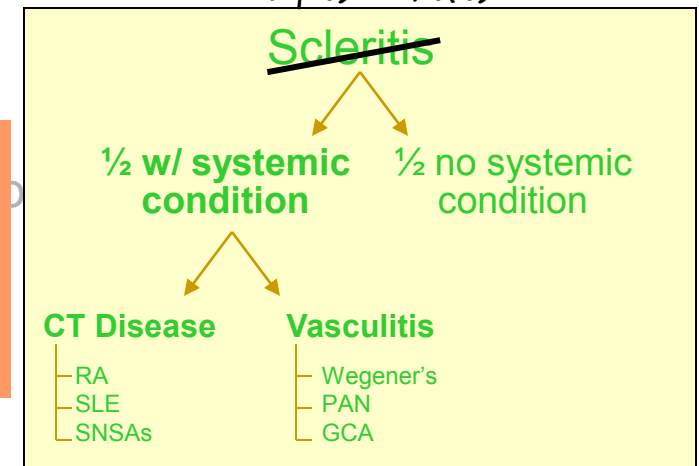


episcleritis

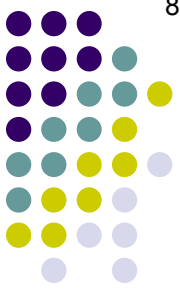
What proportion of ~~scleritis~~ patients have an identifiable systemic condition? About 1/2

Episcleritis

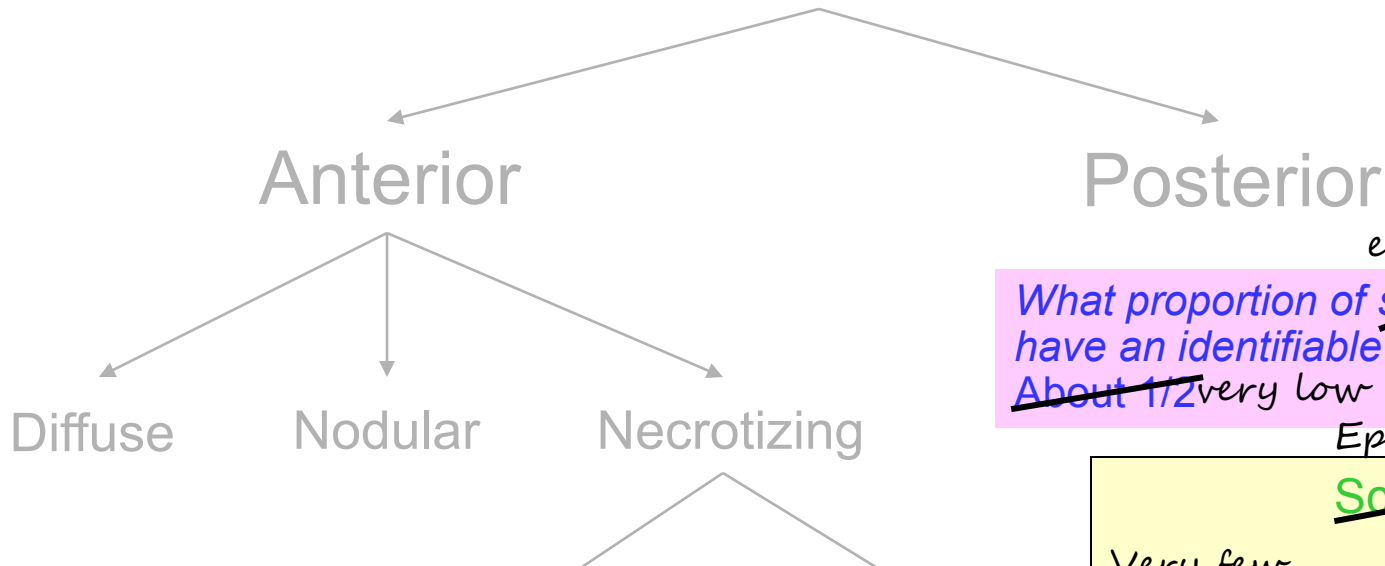
Which of these disease are associated with episcleritis?



Scleritis

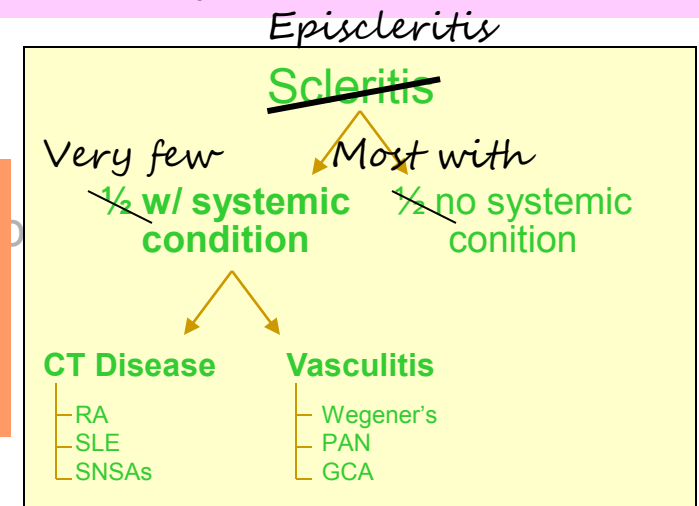


Scleritis

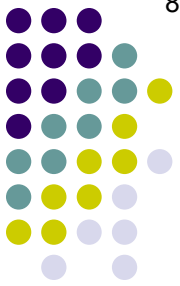


What proportion of ~~scleritis~~ patients have an identifiable systemic condition?
~~About 1/2~~ very low

*Which of these disease are associated with **episcleritis**?*
 All of them! The DDx for episcleritis is the same as that for scleritis. The difference between these conditions concerns disease probability--the likelihood of an underlying condition is far lower in episcleritis.



Scleritis



Scleritis

What important-but-often-overlooked source of local scleritis has yet to be mentioned?

Diffuse

Nodular

Necrotizing

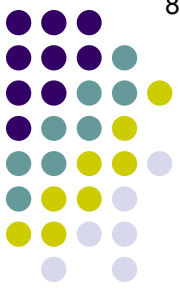
w/ inflammation

w/o inflammation

ents
ndition?

About 1/2

Scleritis



Scleritis

What important-but-often-overlooked source of local scleritis has yet to be mentioned?
Infectious scleritis

Diffuse

Nodular

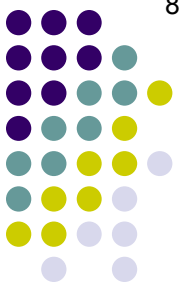
Necrotizing

w/ inflammation

w/o inflammation

About 1/2

ents
condition?



Scleritis

Scleritis

What important-but-often-overlooked source of local scleritis has yet to be mentioned?

Infectious scleritis

A review by Foster and colleagues revealed what infection rate among scleritis pts?

ents
ndition?

About 1/2

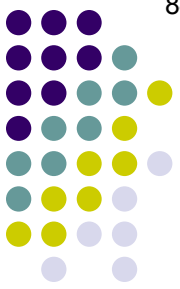
Diffuse

Nodular

Necrotizing

w/ inflammation

w/o inflammation



Scleritis

Scleritis

What important-but-often-overlooked source of local scleritis has yet to be mentioned?

Infectious scleritis

A review by Foster and colleagues revealed what infection rate among scleritis pts? About 7%. Make sure you keep infectious processes in the back of your mind when working up scleritis patients!

*ents
ndition?*

About 1/2

Diffuse

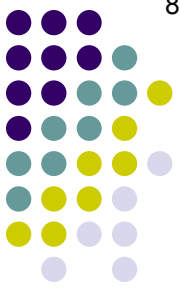
Nodular

Necrotizing

w/ inflammation

w/o inflammation

Scleritis



Scleritis

What is the most common event leading to the development of infectious scleritis?

What important but often-

Infectious scleritis

A review by Foster and co

About 7%. Make sure you

working up scleritis patient

*ts
dition?*

Diffuse

Nodular

w/ inflammation

w/o inflammation

Scleritis



Scleritis

What is the most common event leading to the development of infectious scleritis?

Eye surgery (other surgeries, and trauma, are common inciting incidents as well)

What important but often-

Infectious scleritis

A review by Foster and co

*About 7%. Make sure you
working up scleritis patient*

*ts
dition?*

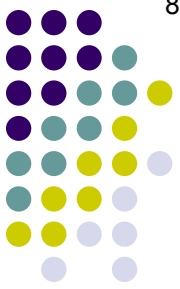
Diffuse

Nodular

w/ inflammation

w/o inflammation

Scleritis



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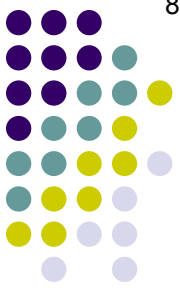
Diffuse

Nodular

w/ inflammation

w/o inflammation

*ts
dition?*



Scleritis

Scleritis

What is the most common event leading to the development of infectious scleritis?

Pterygium surgery (other surgeries, and trauma, are common inciting incidents as well)

What bug is most commonly implicated?

Infectious scleritis

*A review by Foster and co
About 7%. Make sure you
working up scleritis patient*

Diffuse

Nodular

w/ inflammation

w/o inflammation

*ts
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Scleritis



Scleritis

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Pseudomonas

Infectious scleritis

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Diffuse

Nodular

w/ inflammation

w/o inflammation

*ts
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Scleritis



Scleritis

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What bug is most commonly implicated?

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How should infectious scleritis be treated?

*ts
dition?*

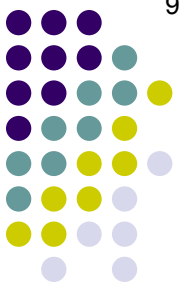
Diffuse

Nodular

w/ inflammation

w/o inflammation

Scleritis



Scleritis

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What bug is most commonly implicated?

Pseudomonas

How should infectious scleritis be treated?

With both and two words

Diffuse

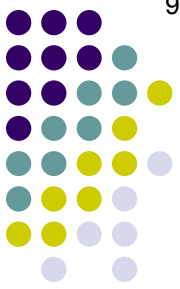
Nodular

w/ inflammation

w/o inflammation

*ts
dition?*

Scleritis



Scleritis

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What bug is most commonly implicated?

Pseudomonas

How should infectious scleritis be treated?

With both antibiotics and surgical debridement

*ts
dition?*

Diffuse

Nodular

w/ inflammation

w/o inflammation

Scleritis



Scleritis

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Why surgical debridement? That is, why aren't abx enough?

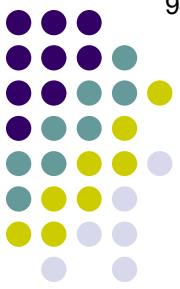
w/ inflammation

Diffuse

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Scleritis



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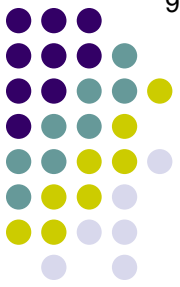
With both antibiotics and **surgical debridement**

*ts
dition?*

w/ inflammation

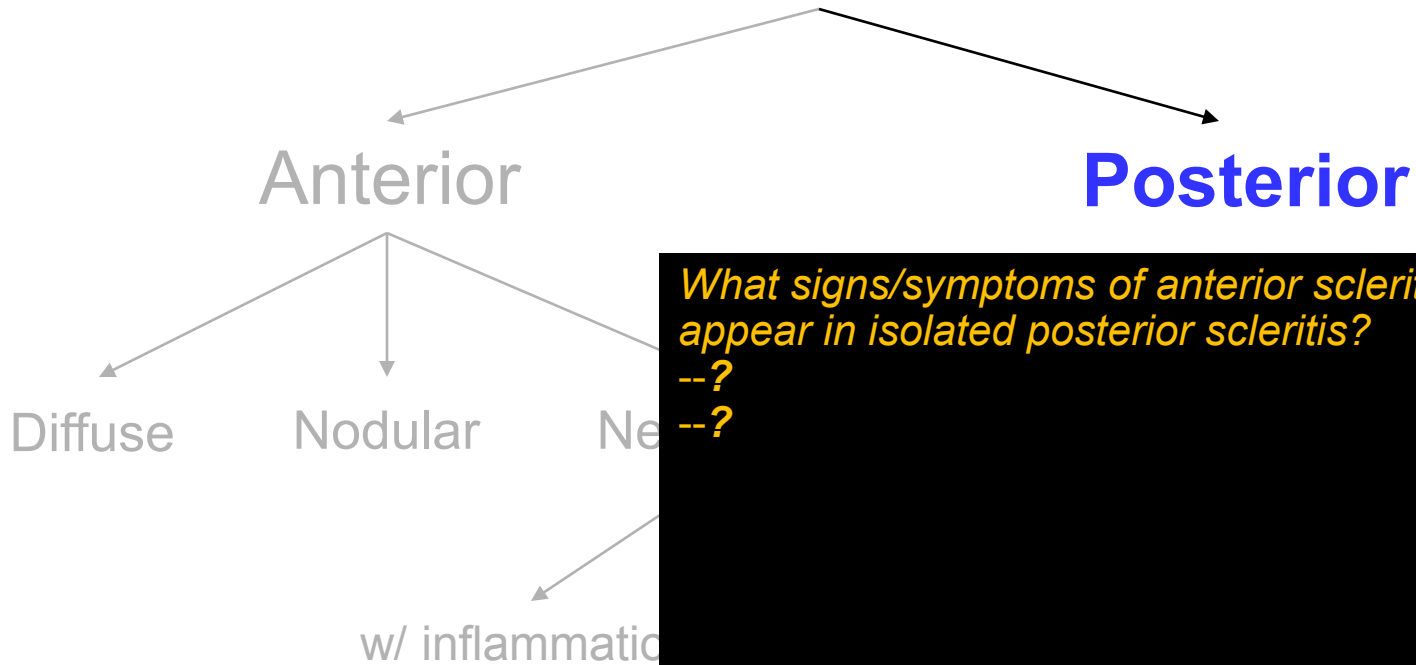
Why surgical debridement? That is, why aren't abx enough?

The sclera is essentially avascular, so it is difficult to achieve adequate abx concentrations within it



Scleritis

Scleritis



What signs/symptoms of anterior scleritis do not typically appear in isolated posterior scleritis?

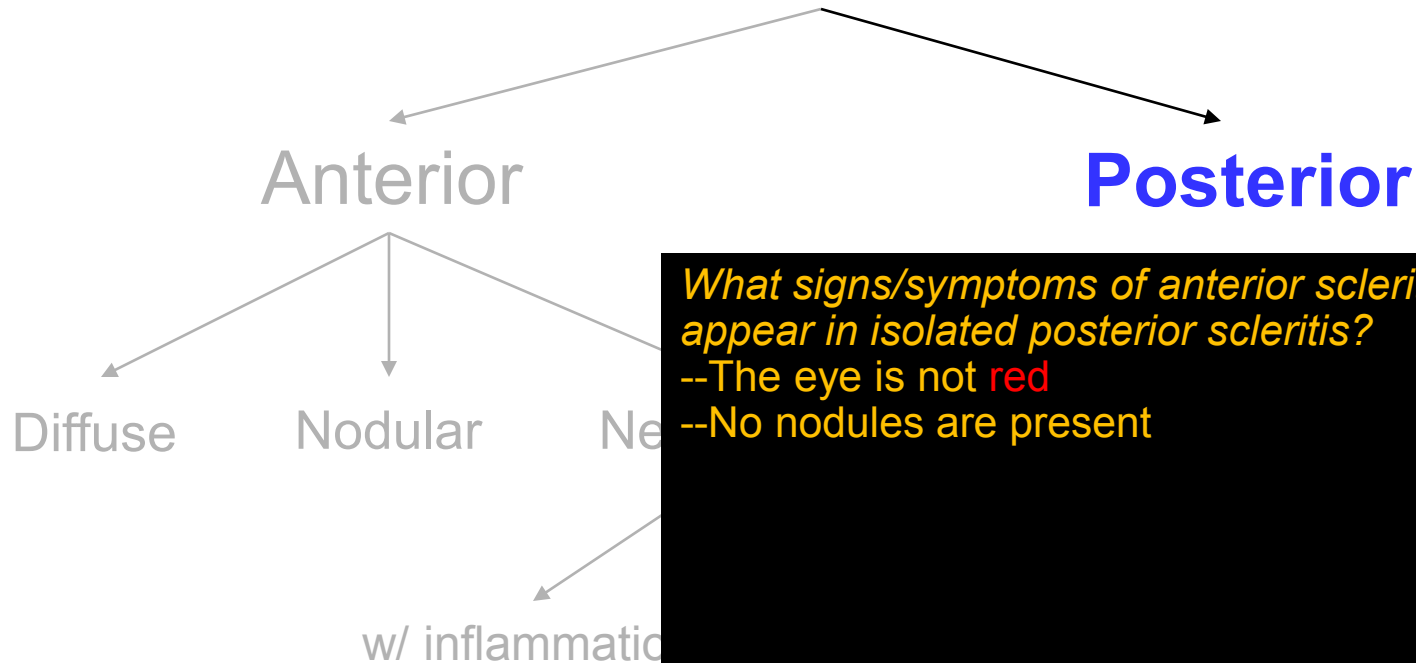
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Scleritis

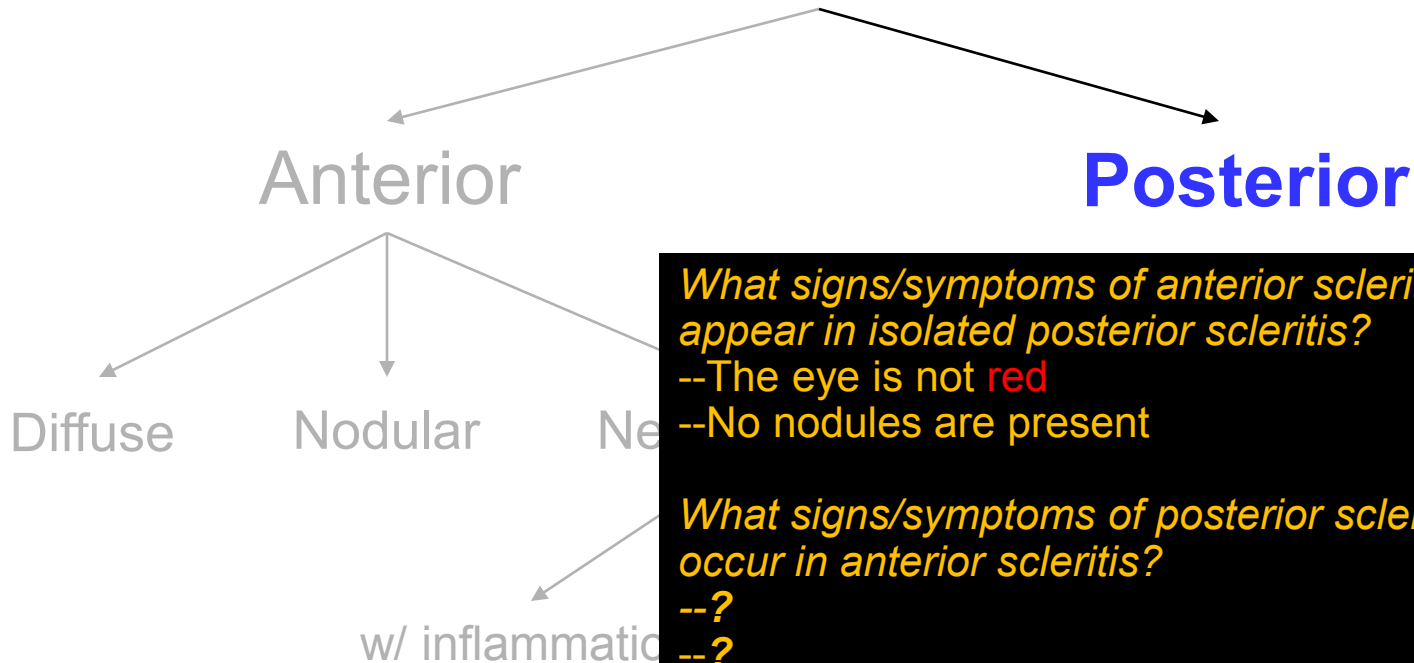
Scleritis



Scleritis



Scleritis



What signs/symptoms of anterior scleritis do not typically appear in isolated posterior scleritis?

- The eye is not red
- No nodules are present

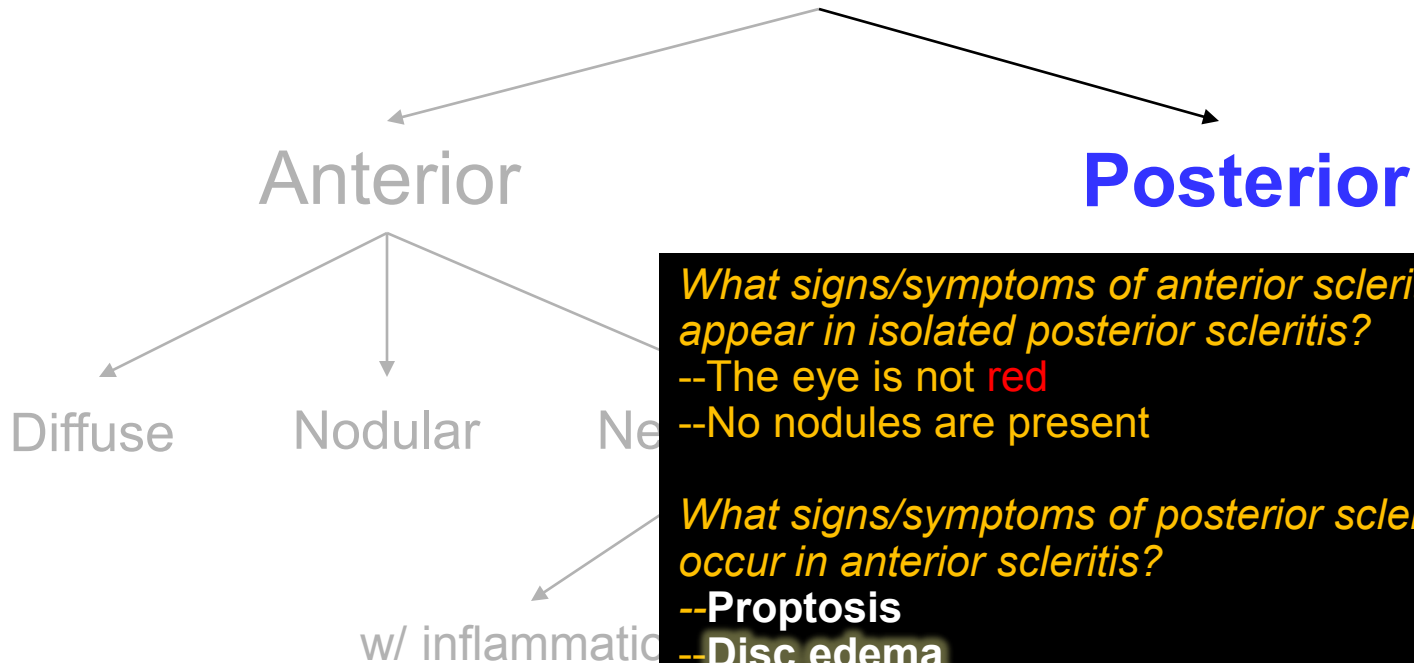
What signs/symptoms of posterior scleritis do not typically occur in anterior scleritis?

- ?
- ?
- ?
- ?



Scleritis

Scleritis



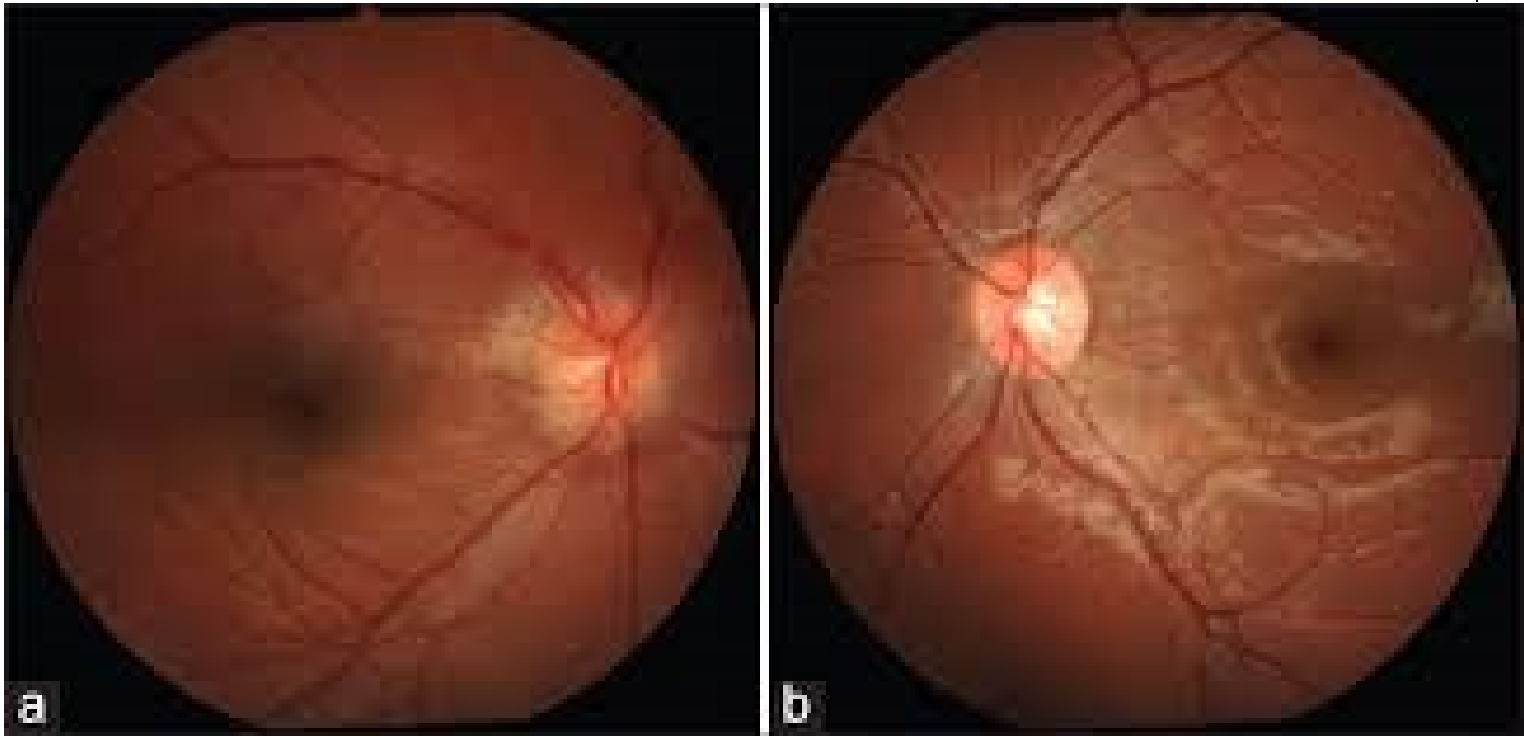
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What signs/symptoms of posterior scleritis do not typically occur in anterior scleritis?

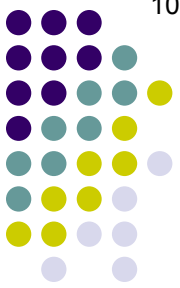
- Proptosis**
- Disc edema**
- Motility disorders**
- Retinal/choroidal findings**

Scleritis



Posterior scleritis OD: Optic nerve edema

Scleritis

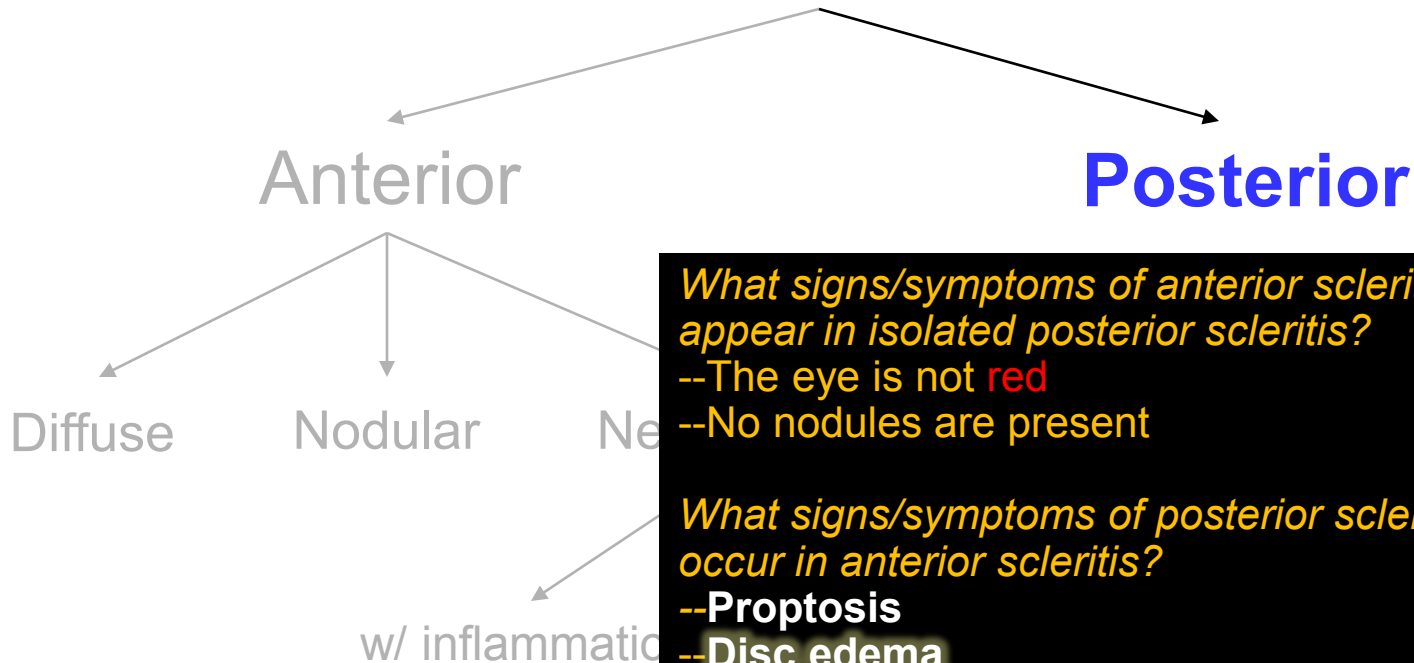


Posterior scleritis: Scleral thickening

Scleritis



Scleritis



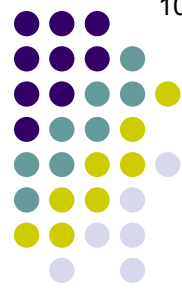
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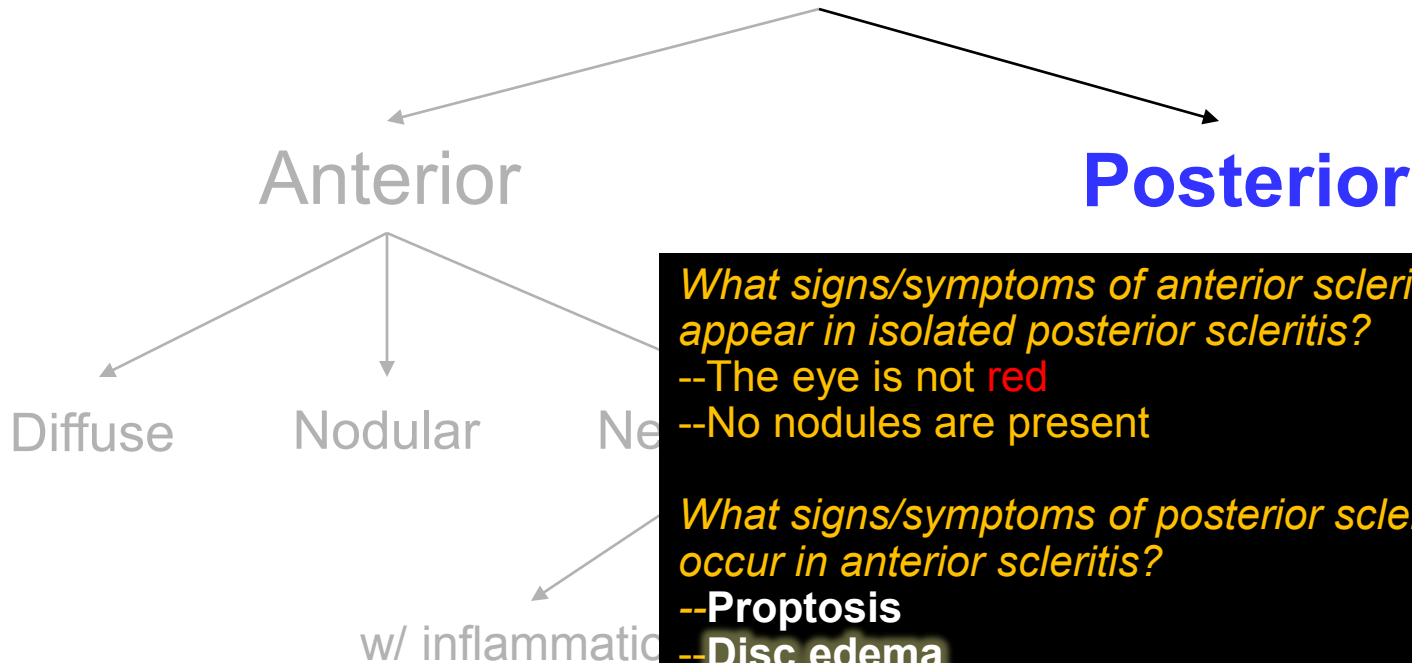
- Proptosis**
- Disc edema**
- Motility disorders**
- Retinal/choroidal findings**

Is posterior scleritis more likely or less likely than anterior scleritis to be associated with a systemic condition?



Scleritis

Scleritis



What signs/symptoms of anterior scleritis do not typically appear in isolated posterior scleritis?

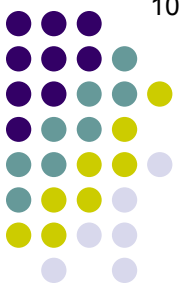
- The eye is not red
- No nodules are present

What signs/symptoms of posterior scleritis do not typically occur in anterior scleritis?

- Proptosis**
- Disc edema**
- Motility disorders**
- Retinal/choroidal findings**

Is posterior scleritis more likely or less likely than anterior scleritis to be associated with a systemic condition?

Less likely



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

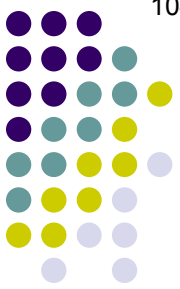
--?

--?

--?

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

--The pain radiates to the location

--?

--?

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

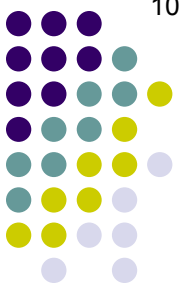
--The pain radiates to the **brow**

--?

--?

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

--The pain radiates to the **brow**

--The pain is aggravated by

two words

--?

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

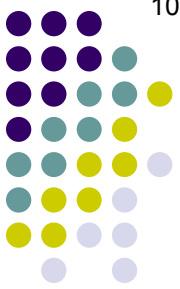
--The pain radiates to the **brow**

--The pain is aggravated by **eye movements**

--?

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

- The pain radiates to the **brow**
- The pain is aggravated by **eye movements**
- The pain five words

w/ inflammation

w/o inflammation



Scleritis

Scleritis

Anterior

Posterior

What three characteristics of the pain are a tipoff that you're dealing with posterior scleritis?

- The pain radiates to the **brow**
- The pain is aggravated by **eye movements**
- The pain **awakens the pt at night**

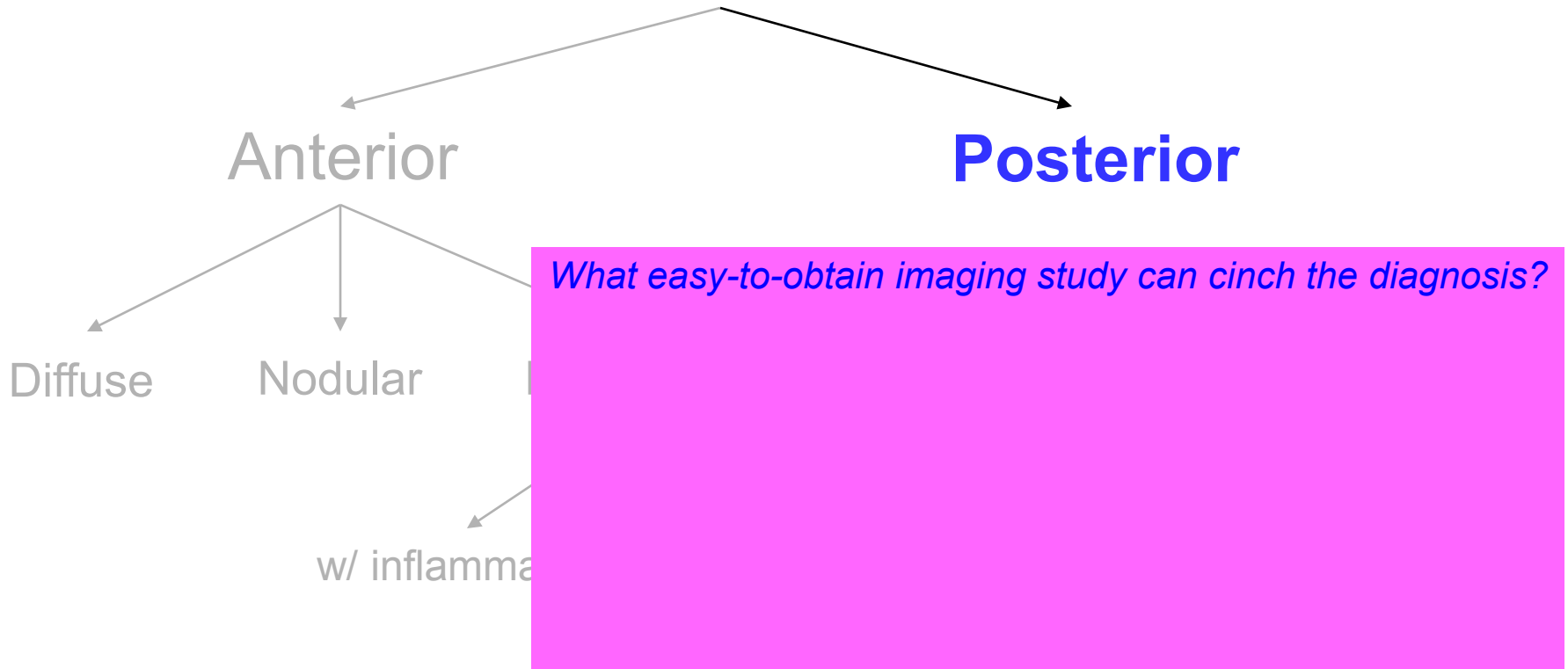
w/ inflammation

w/o inflammation

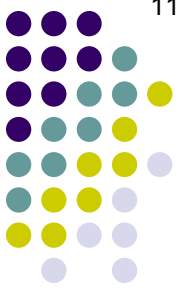


Scleritis

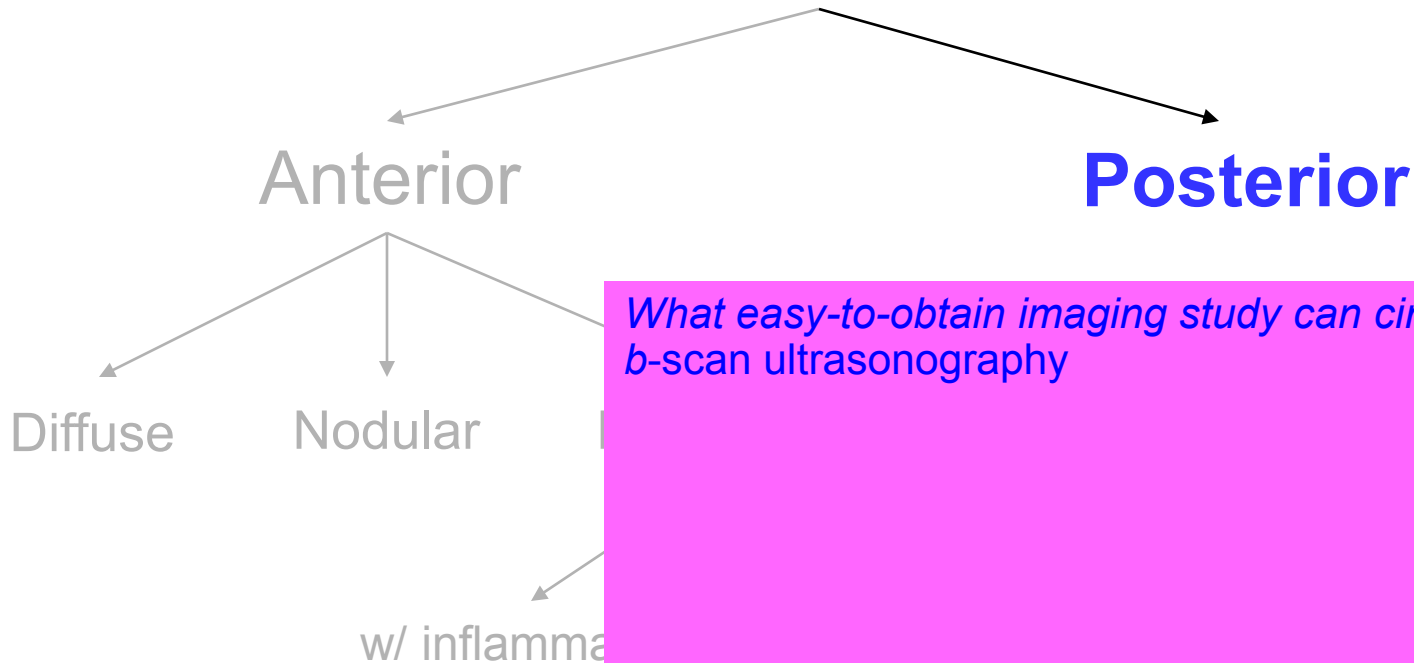
Scleritis



Scleritis



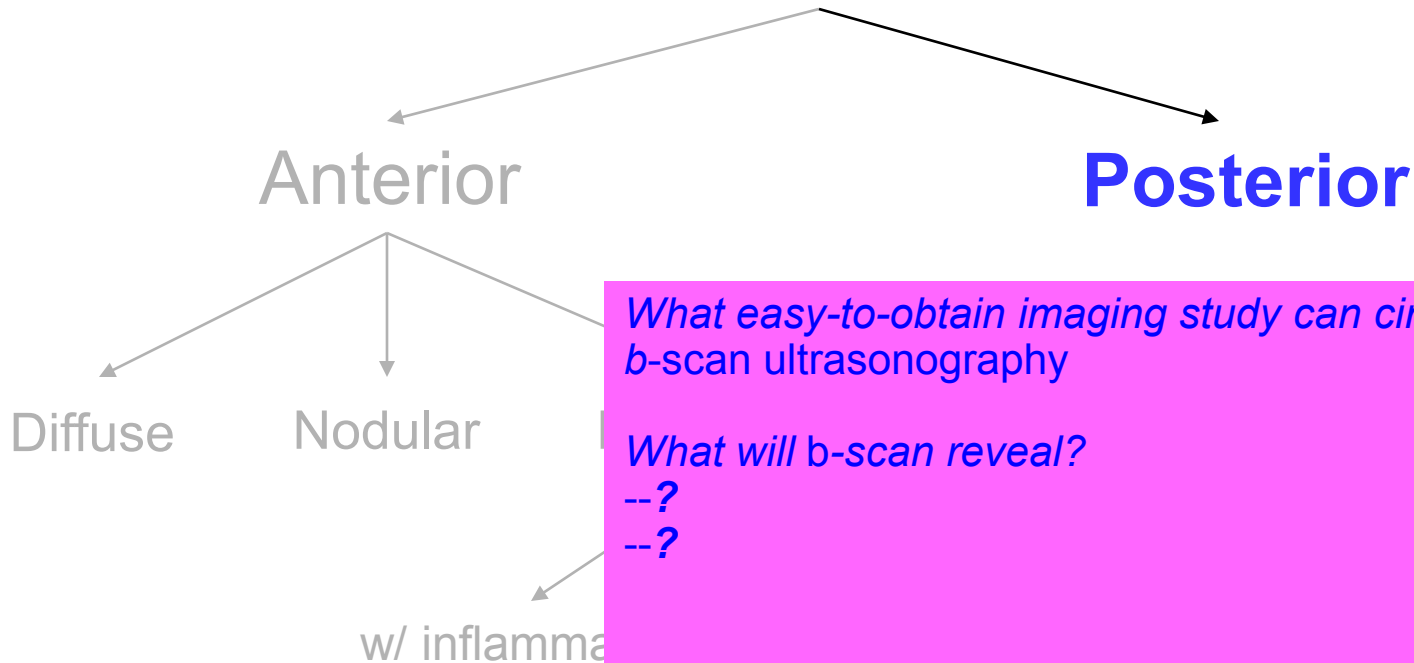
Scleritis



Scleritis



Scleritis

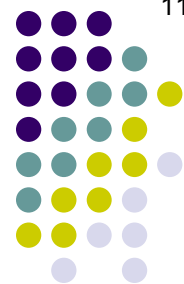


What easy-to-obtain imaging study can cinch the diagnosis?
b-scan ultrasonography

What will b-scan reveal?

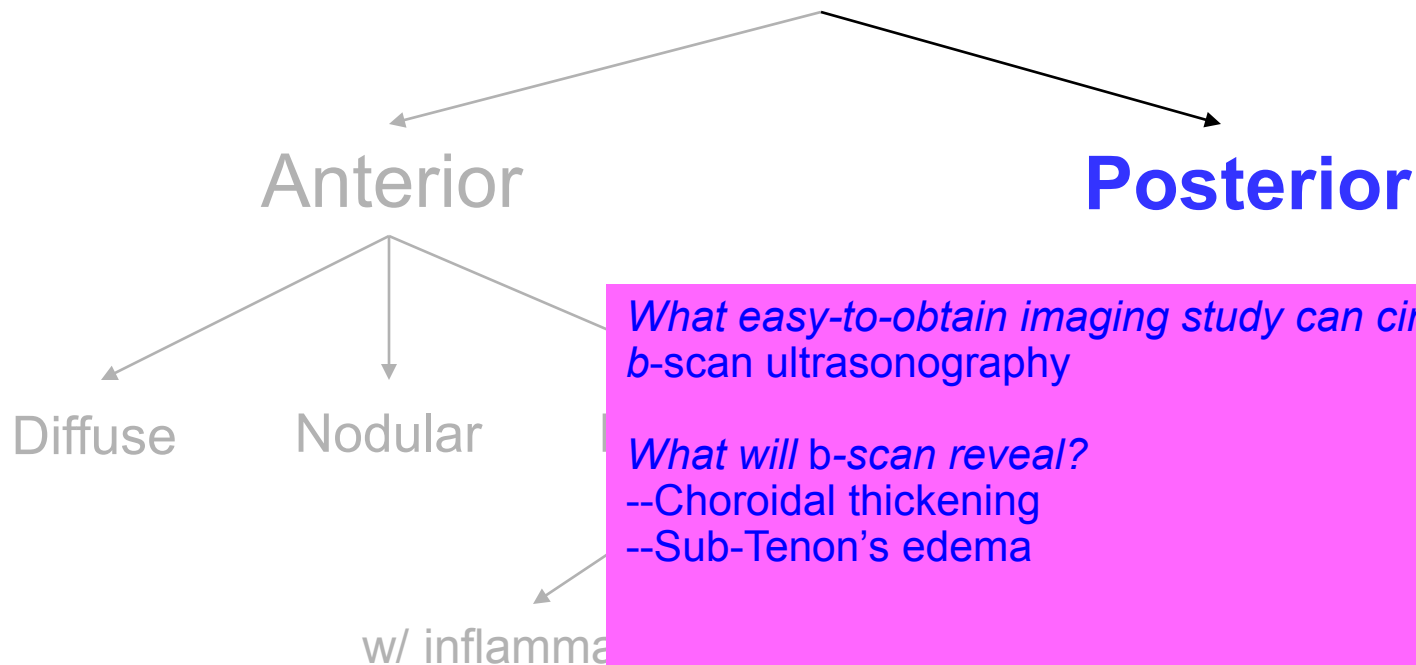
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Scleritis

Scleritis



What easy-to-obtain imaging study can cinch the diagnosis?
b-scan ultrasonography

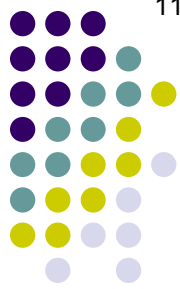
What will b-scan reveal?
--Choroidal thickening
--Sub-Tenon's edema

Scleritis

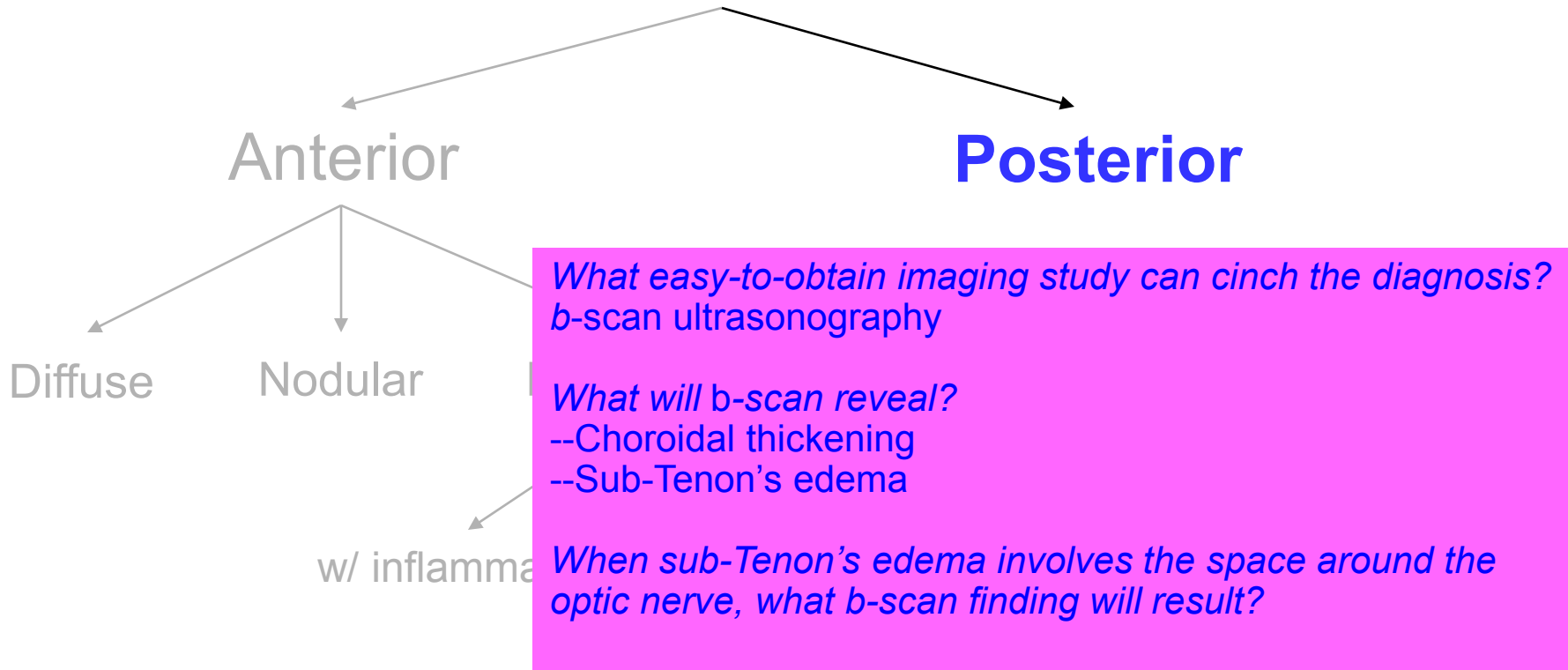


Posterior scleritis: Sub-Tenon's edema

Scleritis



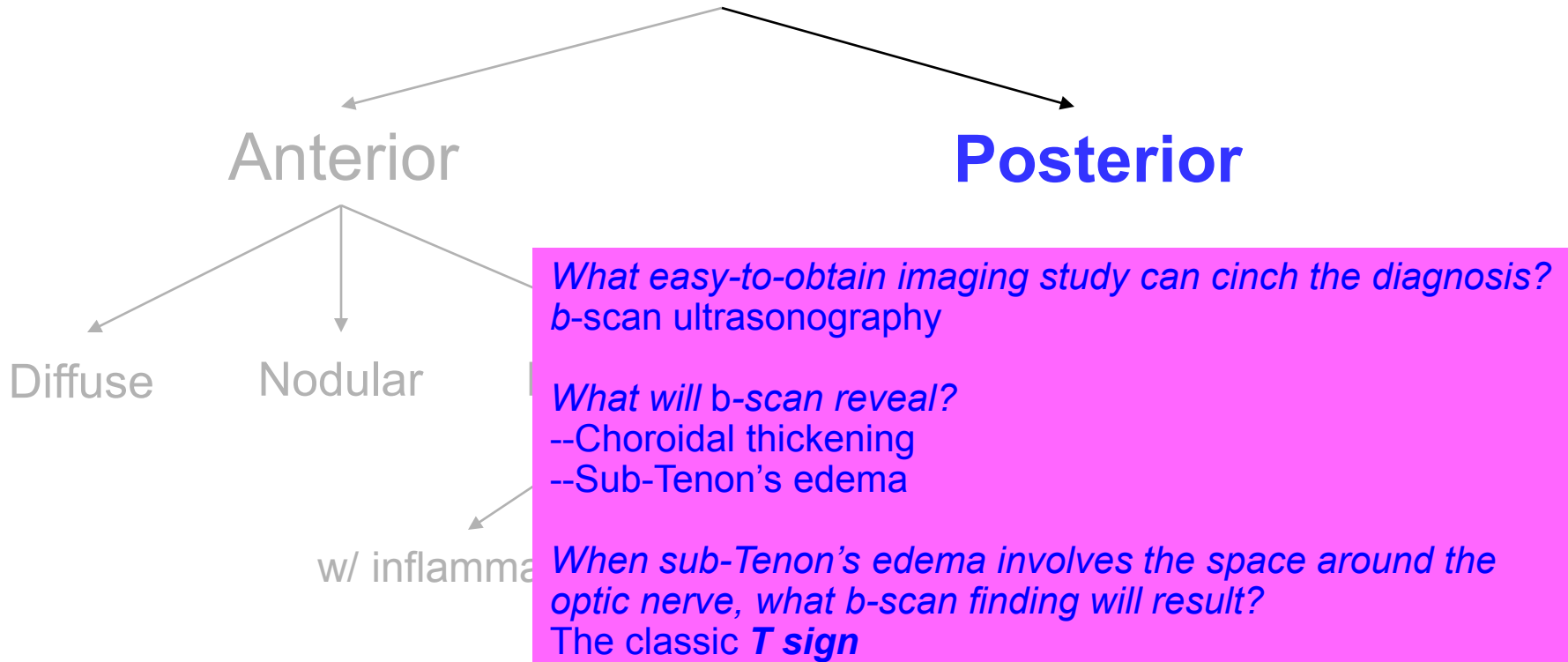
Scleritis



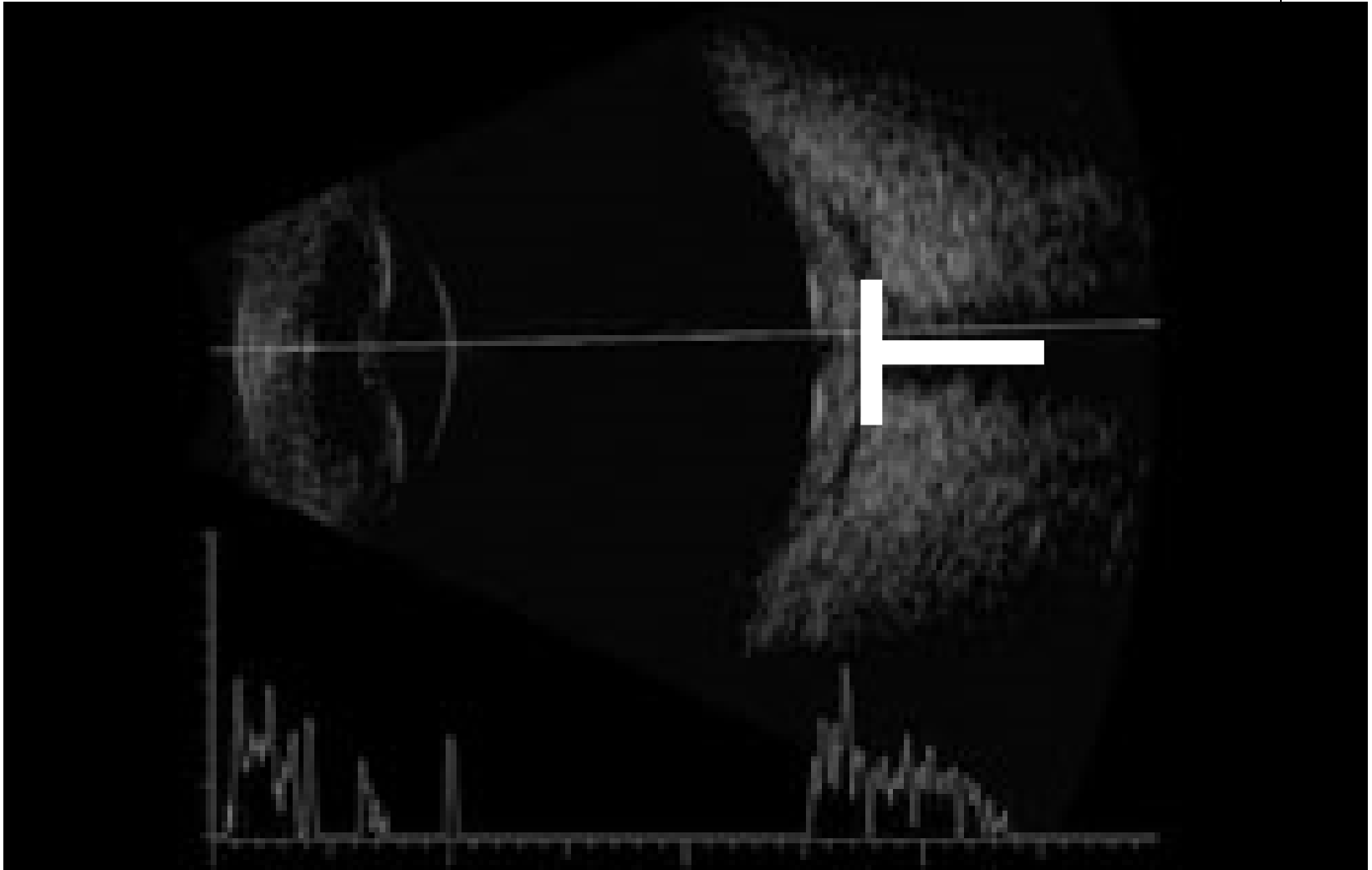
Scleritis



Scleritis



Scleritis

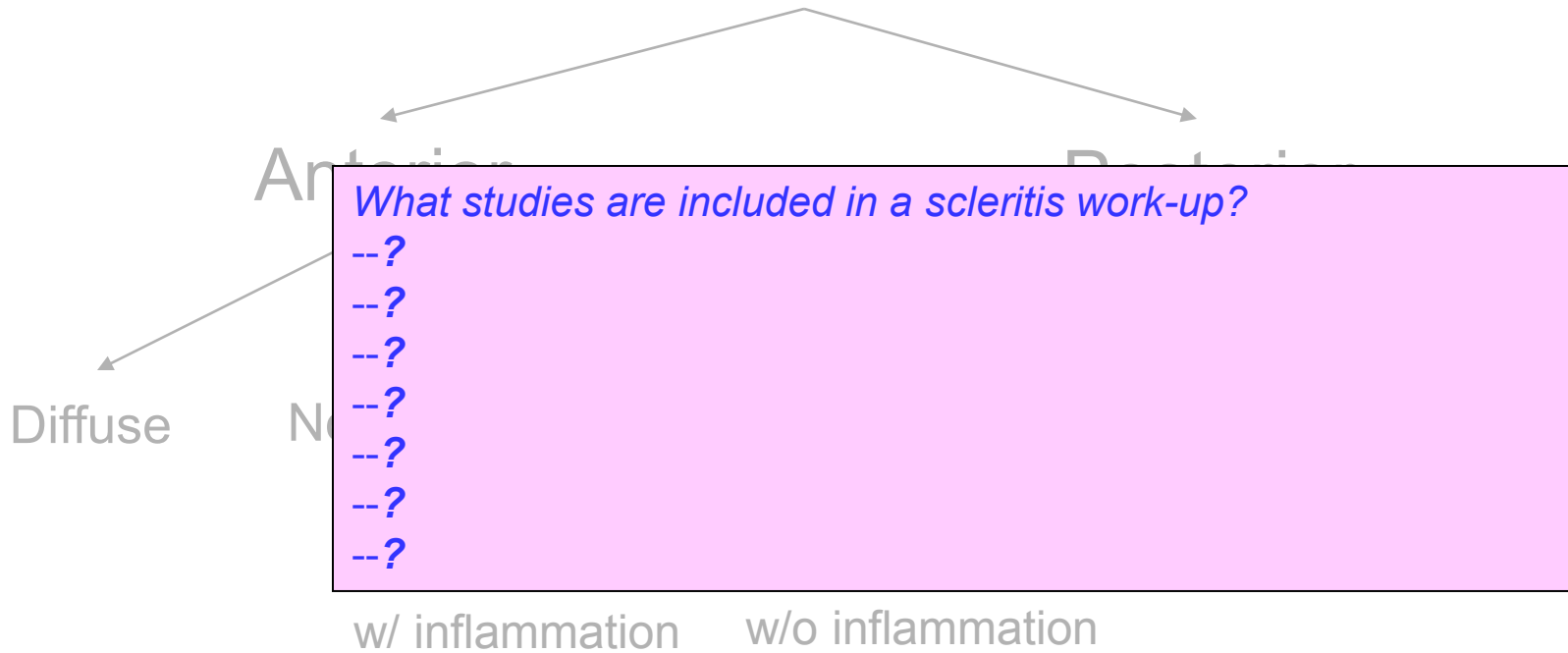


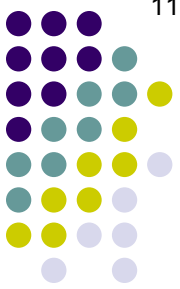
Posterior scleritis: T-sign



Scleritis

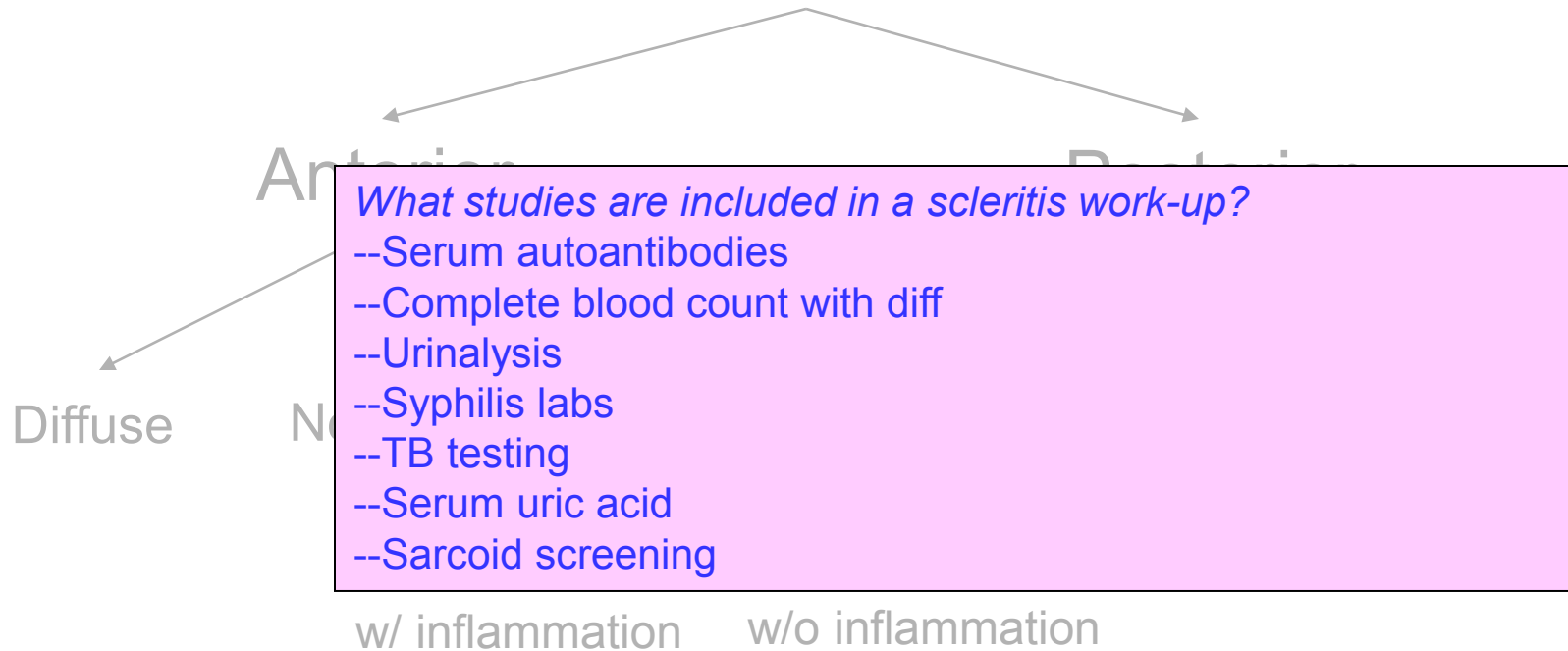
Scleritis

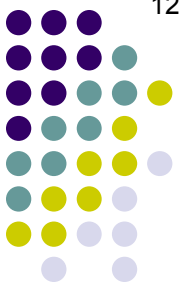




Scleritis

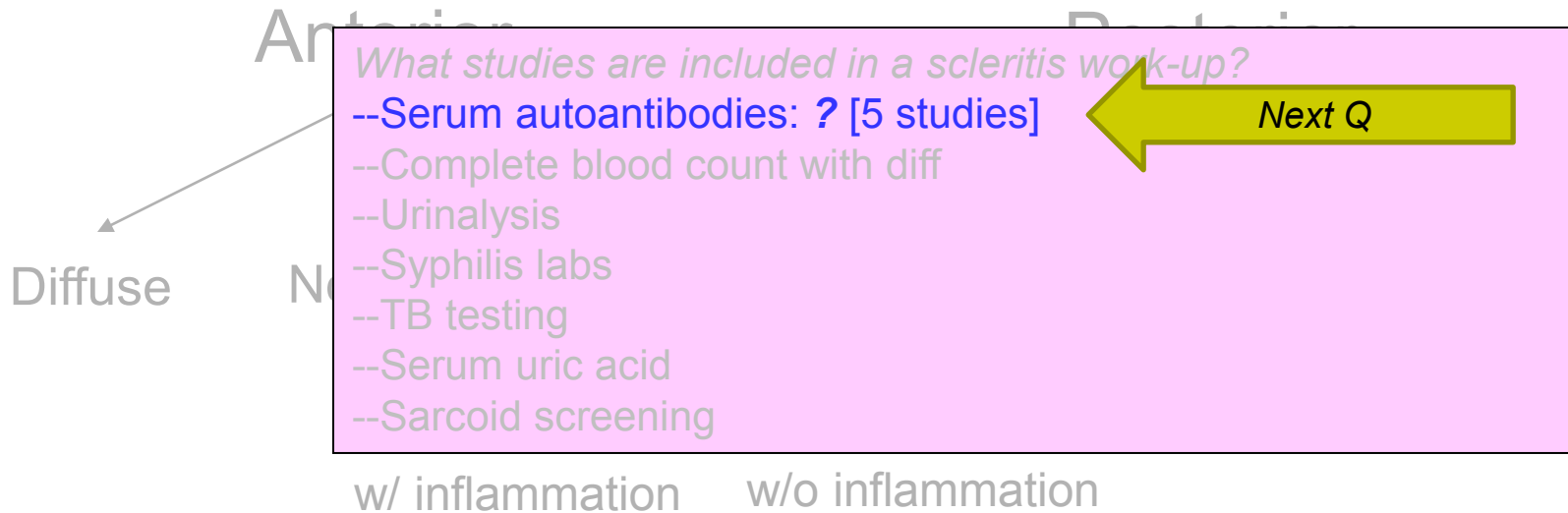
Scleritis





Scleritis

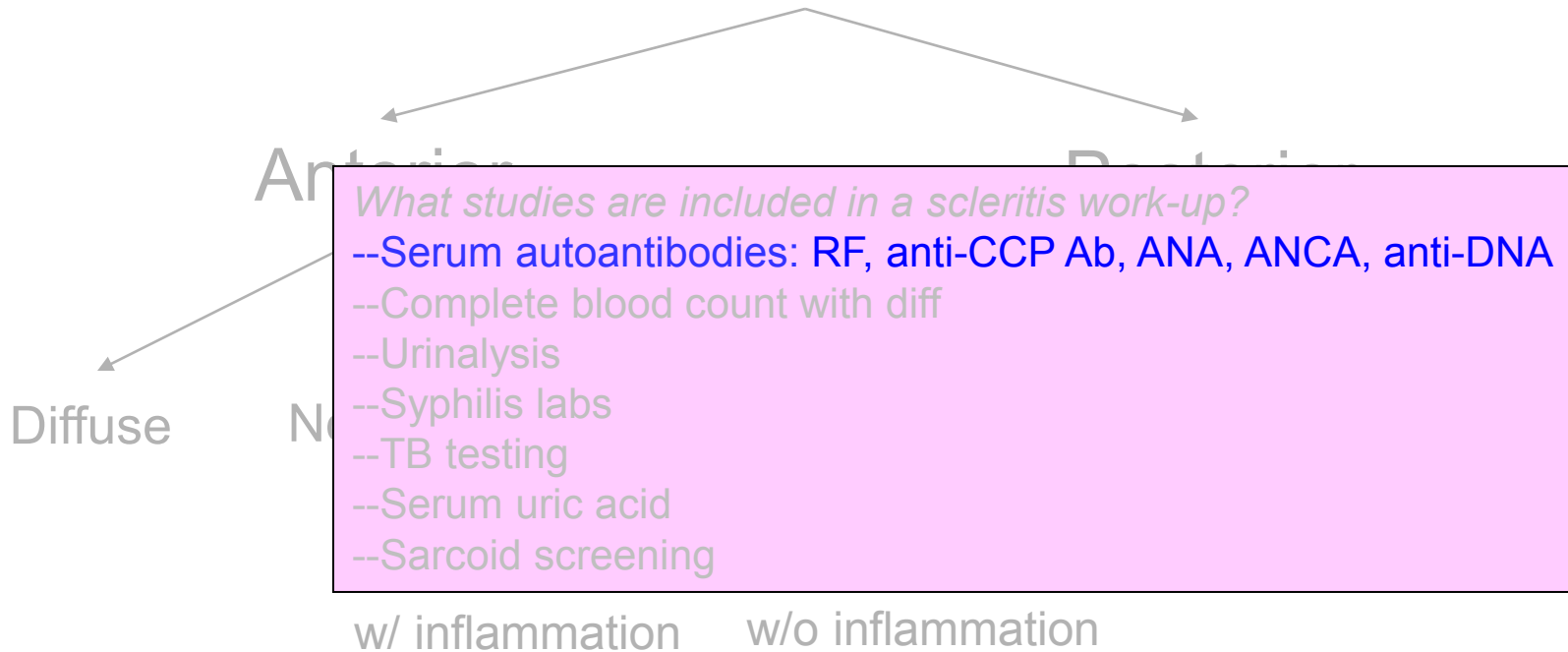
Scleritis





Scleritis

Scleritis



Scleritis



Scleritis

RF = ?

CCP
ANA
ANCA

What studies are included in a scleritis work-up?

- Serum autoantibodies: RF, anti-CCP Ab, ANA, ANCA, anti-DNA
- Complete blood count with diff
- Urinalysis
- Syphilis labs
- TB testing
- Serum uric acid
- Sarcoid screening

w/ inflammation w/o inflammation

Diffuse

No

Scleritis



Scleritis

RF = rheumatoid factor

CCP = ?

ANA

ANCA

What studies are included in a scleritis work-up?

--Serum autoantibodies: RF, anti-CCP Ab, ANA, ANCA, anti-DNA

--Complete blood count with diff

--Urinalysis

--Syphilis labs

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--Serum uric acid

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w/ inflammation

w/o inflammation

Diffuse

No

Scleritis



Scleritis

RF = rheumatoid factor
 CCP = cyclic citrullinated peptide
ANA = ?
 ANCA

What studies are included in a scleritis work-up?

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w/ inflammation w/o inflammation

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Scleritis



Scleritis

RF = rheumatoid factor
 CCP = cyclic citrullinated peptide
 ANA = antinuclear antibody
ANCA = ?

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w/ inflammation w/o inflammation

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Scleritis



Scleritis

RF = rheumatoid factor
 CCP = cyclic citrullinated peptide
 ANA = antinuclear antibody
 ANCA = antineutrophil cytoplasmic antibody

What studies are included in a scleritis work-up?

- Serum autoantibodies: RF, anti-CCP Ab, ANA, ANCA, anti-DNA
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w/ inflammation w/o inflammation

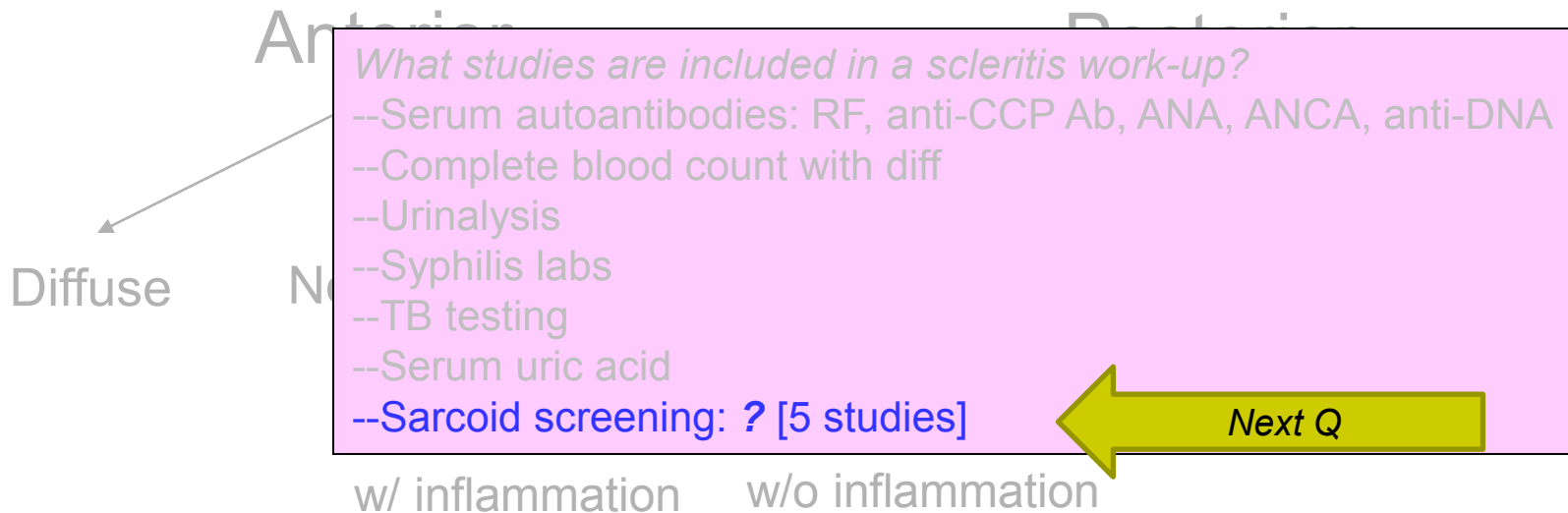
Diffuse

No



Scleritis

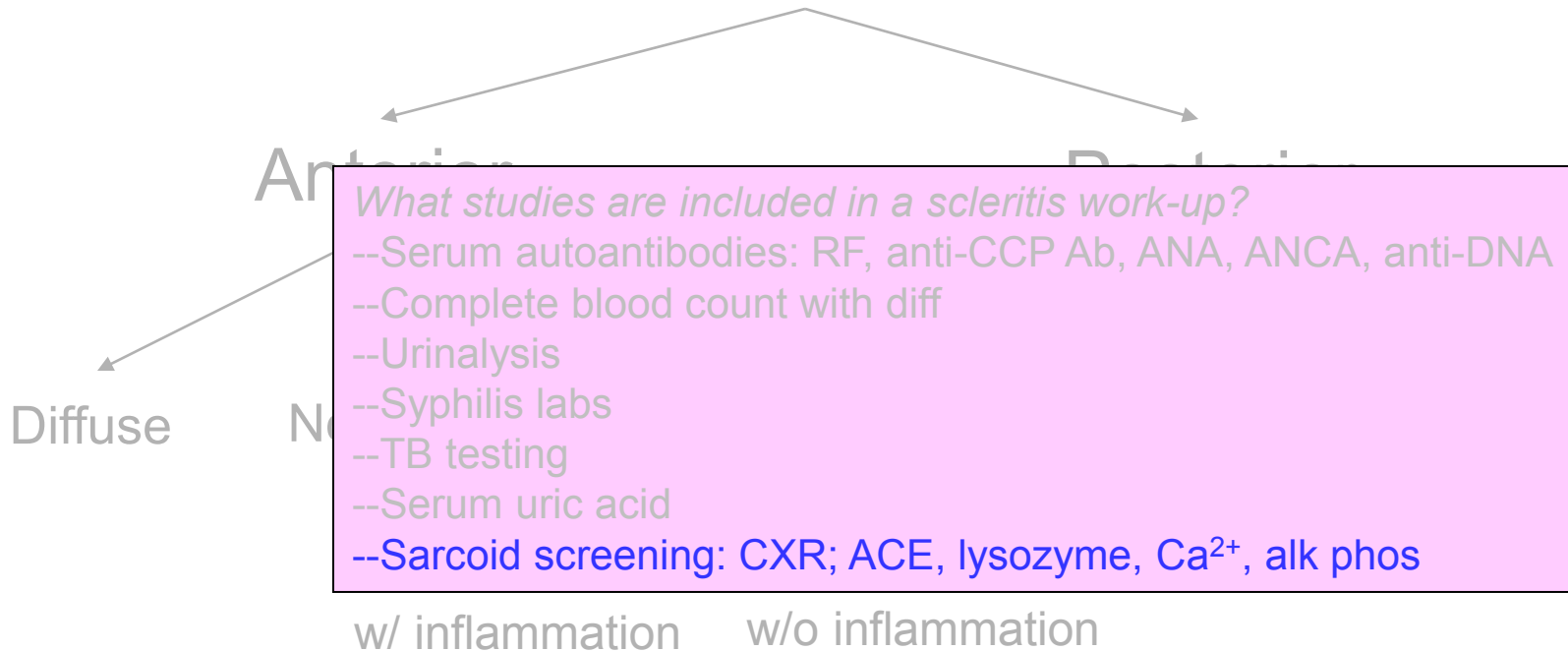
Scleritis





Scleritis

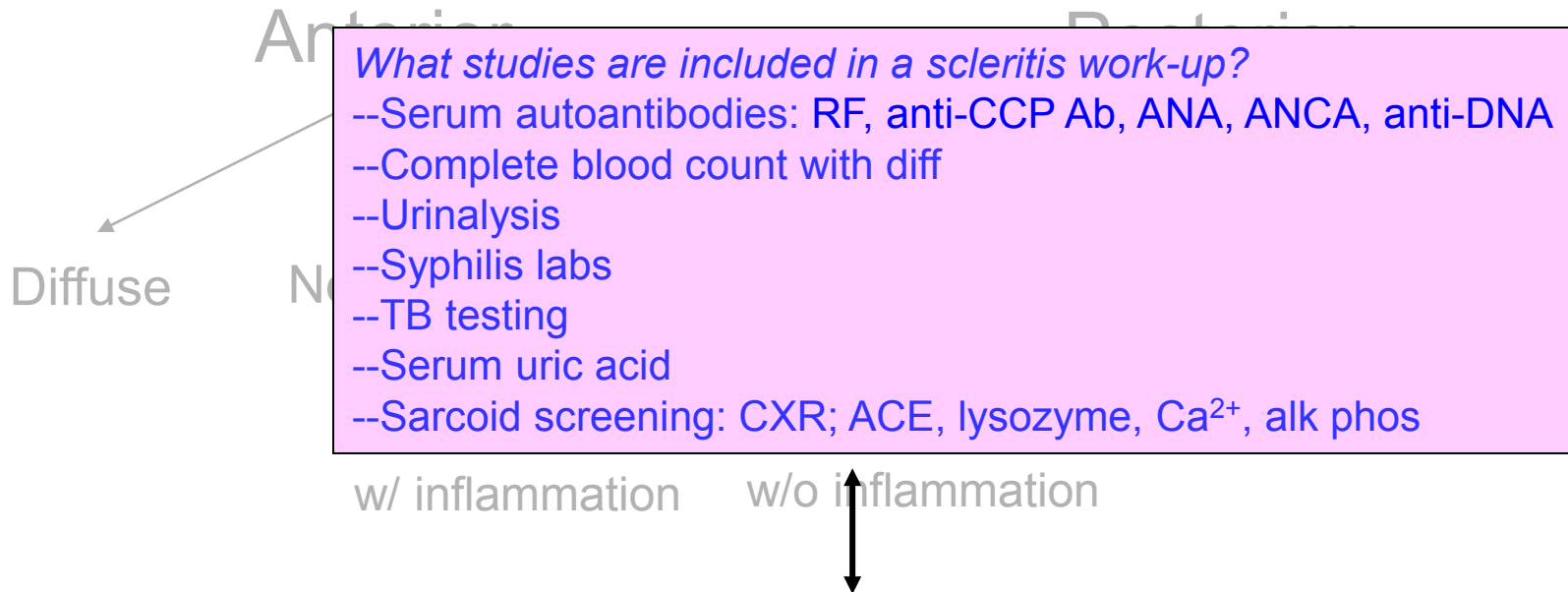
Scleritis





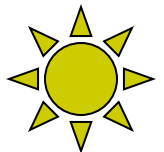
Scleritis

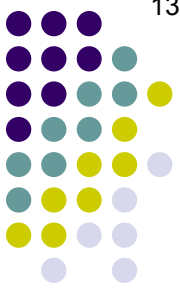
Scleritis



But remember—the most important source of diagnostic clues for any sort of ocular inflammation (scleritis, uveitis, PUK, etc) is a very careful and thorough

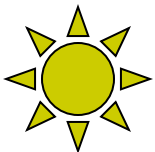
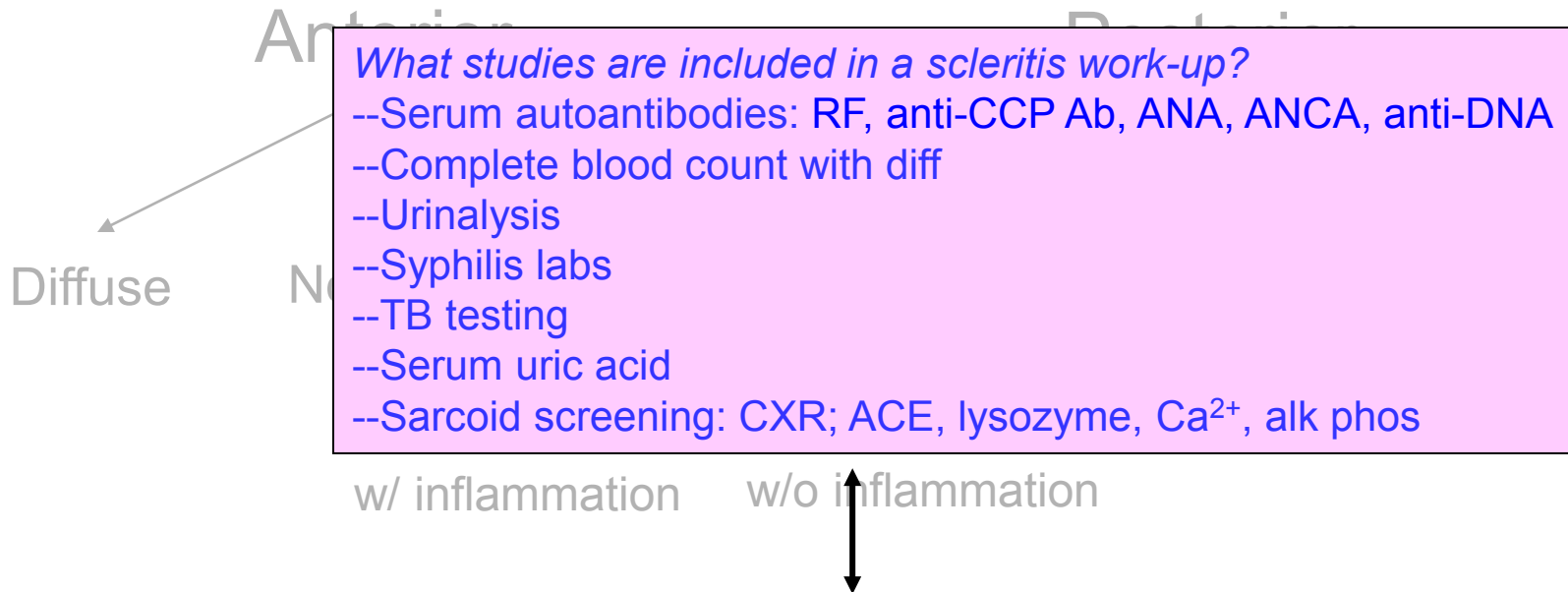
three words



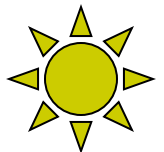


Scleritis

Scleritis

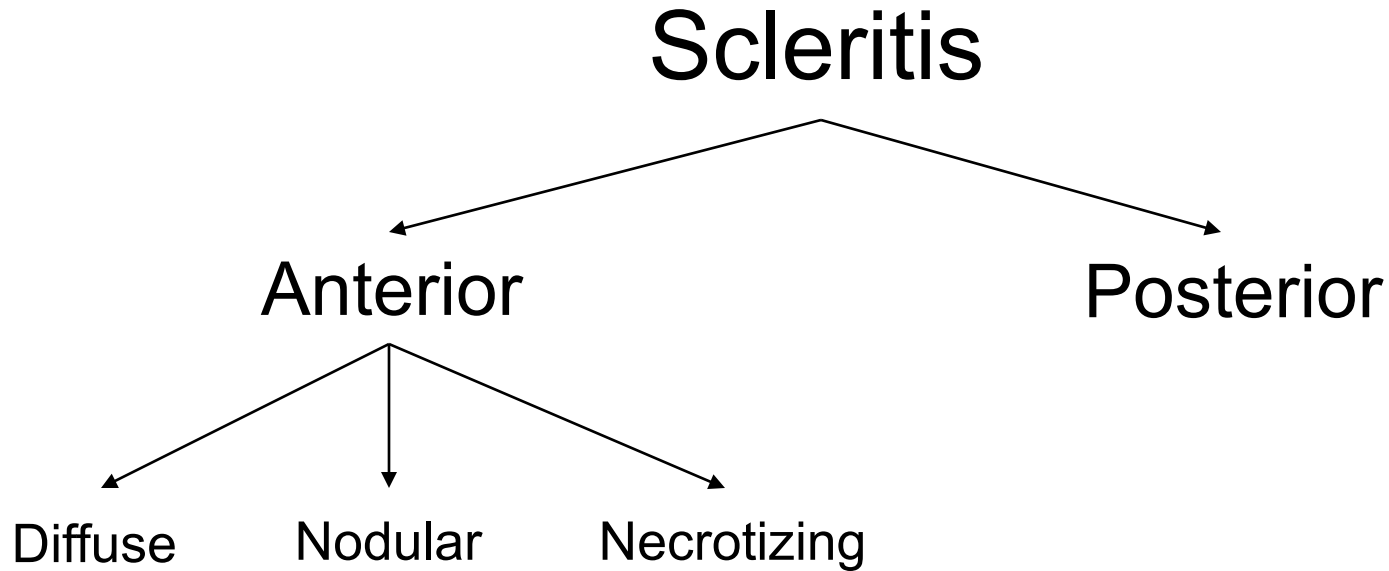


But remember—the most important source of diagnostic clues for *any* sort of ocular inflammation (scleritis, uveitis, PUK, etc) is a very careful and thorough **review of systems**.

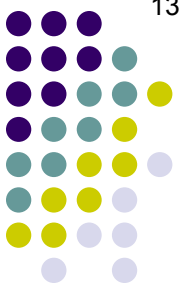




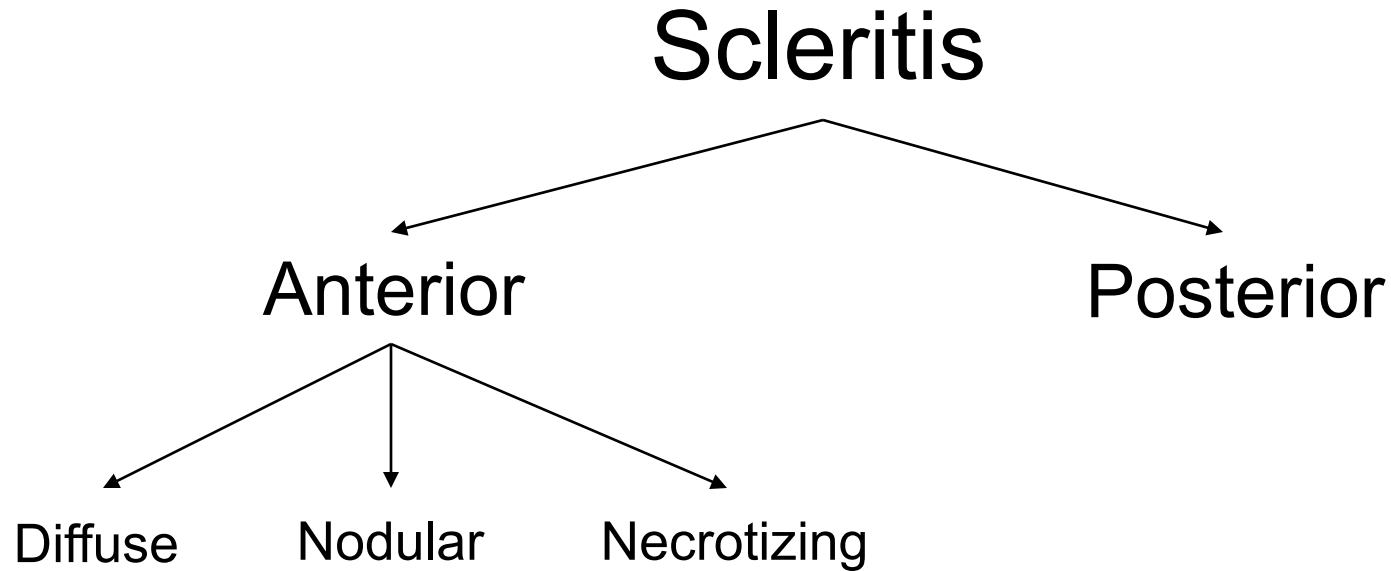
Scleritis



How is scleritis treated?



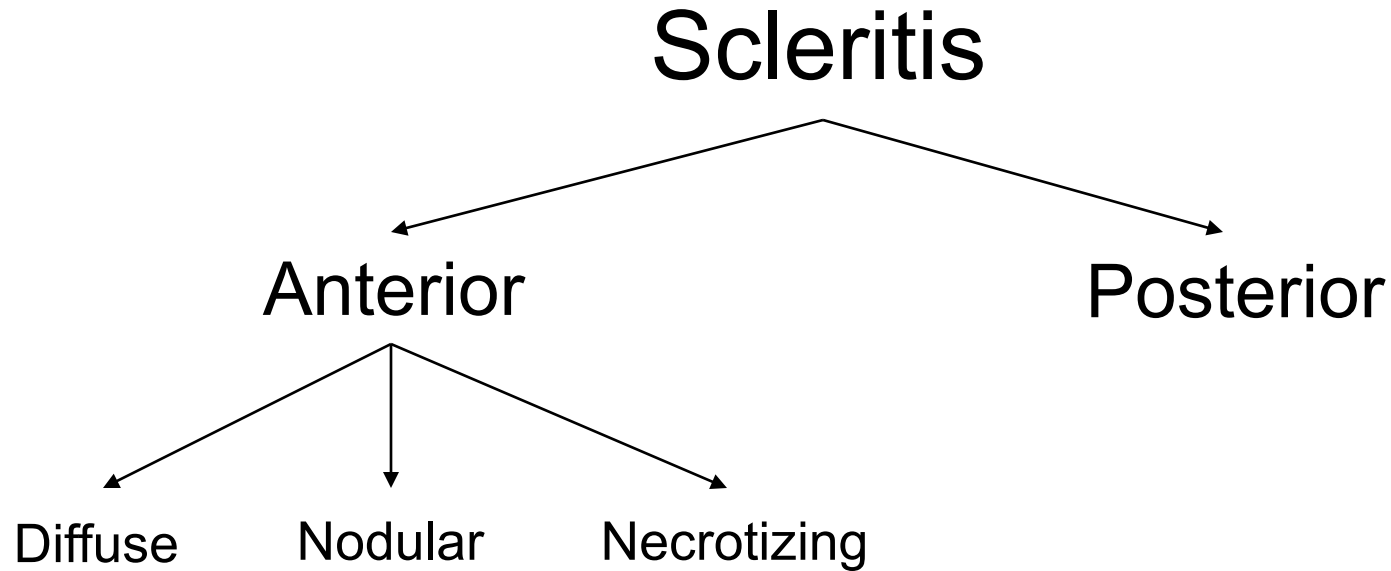
Scleritis



How is scleritis treated?
Systemically

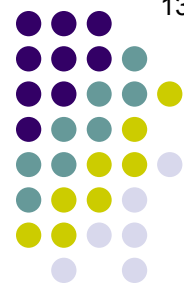


Scleritis

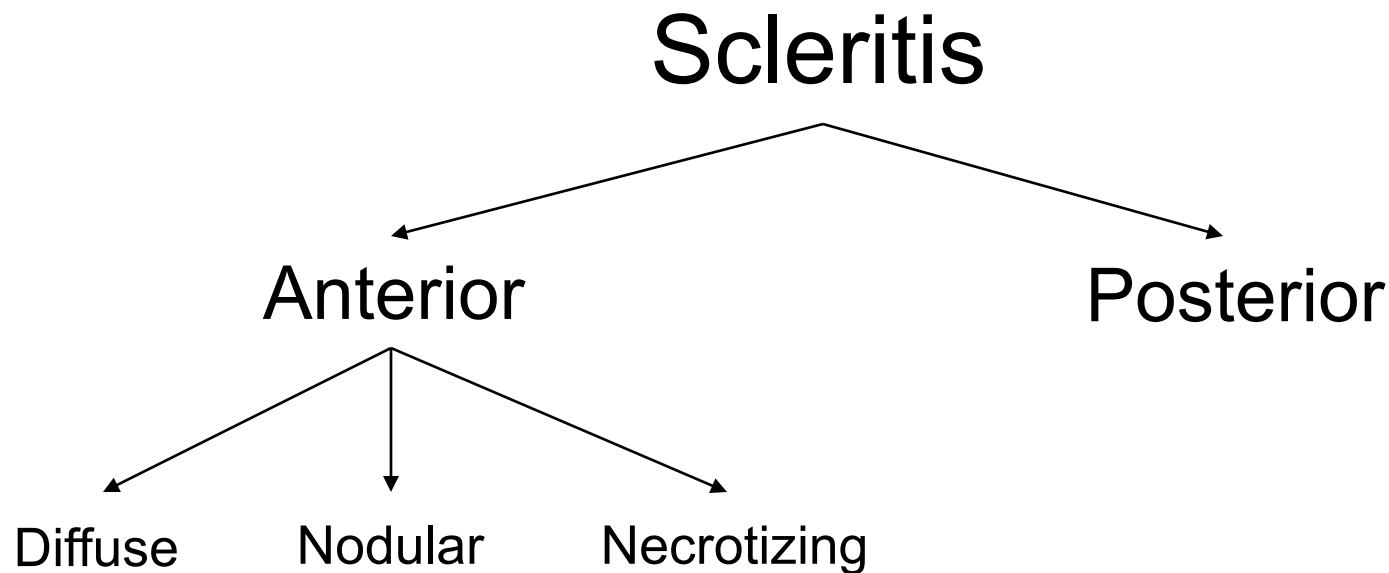


How is scleritis treated?
Systemically

With what?



Scleritis

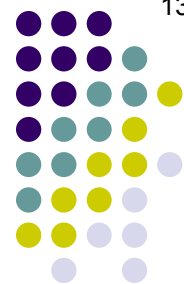


How is scleritis treated?

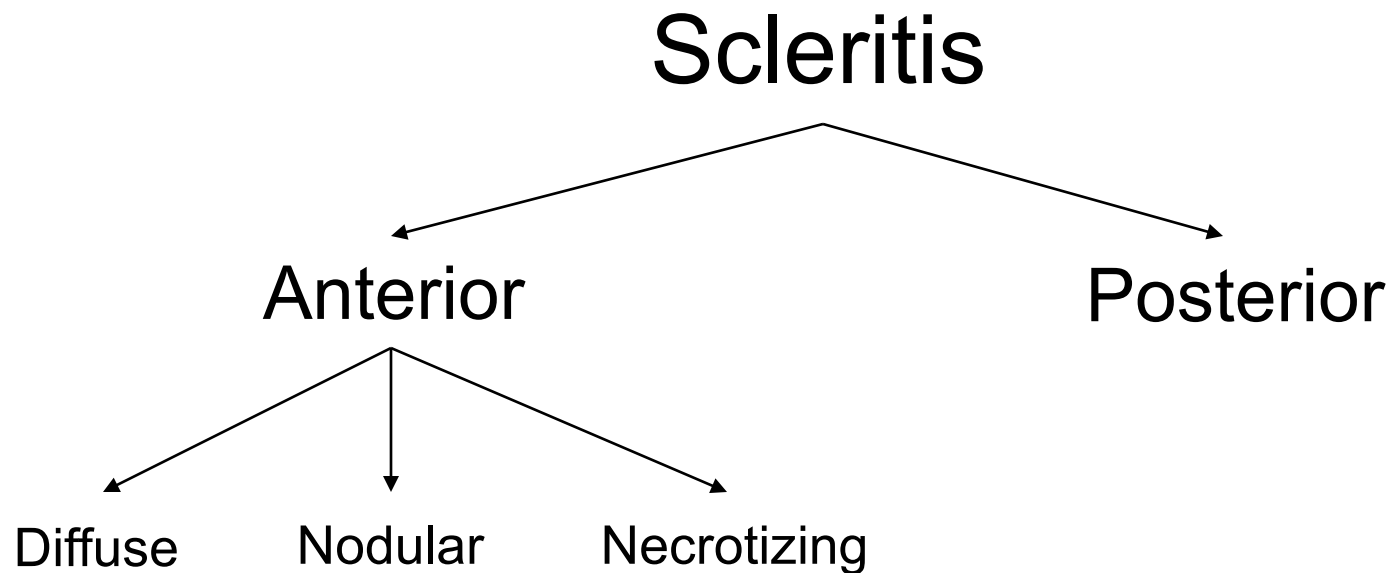
Systemically

With what?

Diffuse scleritis might respond to PO NSAIDs—try these first. For the others, PO steroids are usually the first-line med. More powerful immunosuppression is frequently required.



Scleritis



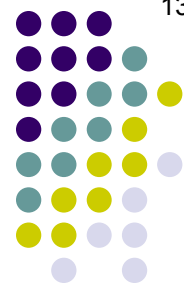
How is scleritis treated?

Systemically

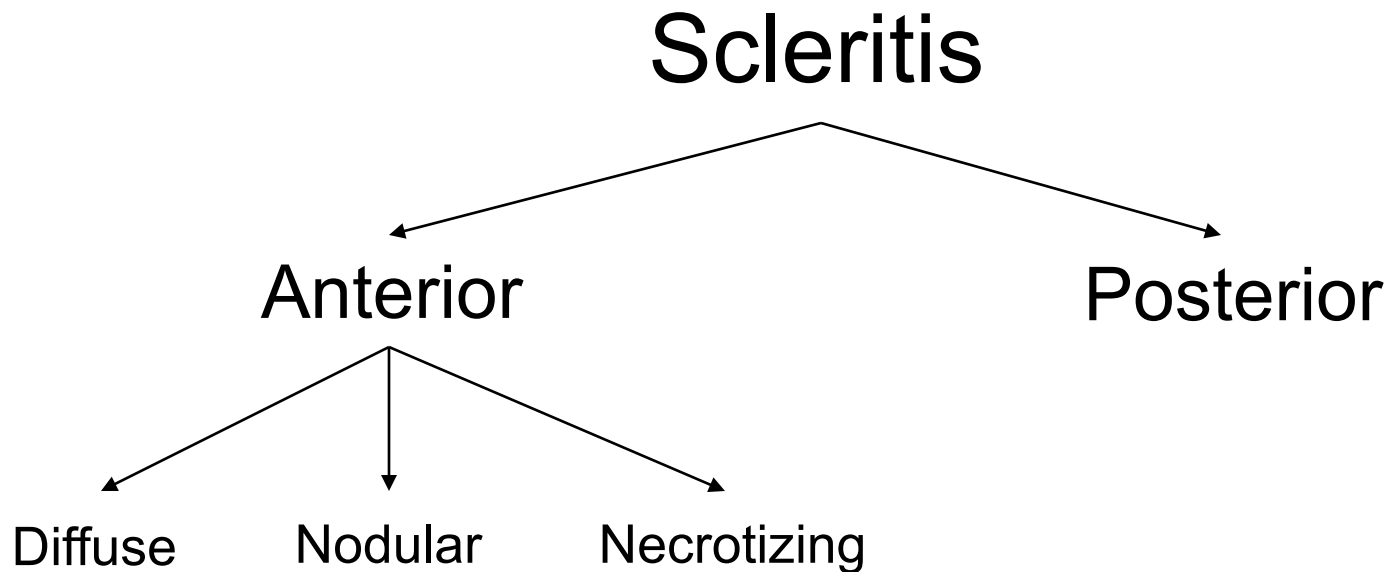
With what?

Diffuse scleritis might respond to PO NSAIDs—try these first. For the others, PO steroids are usually the first-line med. More powerful immunosuppression is frequently required.

What about depot steroids?



Scleritis



How is scleritis treated?

Systemically

With what?

Diffuse scleritis might respond to PO NSAIDs—try these first. For the others, PO steroids are usually the first-line med. More powerful immunosuppression is frequently required.

What about depot steroids?

Long considered contraindicated, subconjunctival depot steroids have gained wide acceptance as a treatment for scleritis