

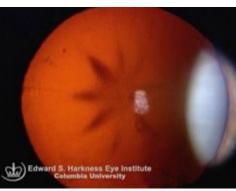
 Cataracts associated with blunt trauma are often type/configuration or type/configuration initially





 Cataracts associated with blunt trauma are often stellate or rosette initially

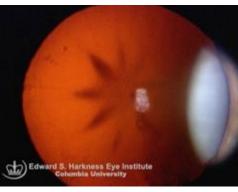






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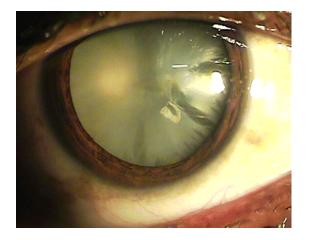




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Can blunt-trauma-induced cataract resolve spontaneously?





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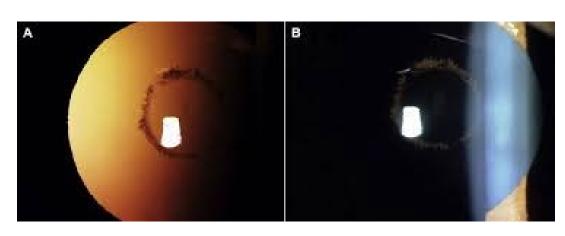
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Can blunt-trauma-induced cataract resolve spontaneously? It can—albeit only rarely, and only if the trauma was mild



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- What is the eponym for the ring of pupillaryruff pigment on the anterior capsule seen in conjunction with blunt-trauma cataracts?

(tennis ball vs eye) in A, retroillumination, and B, direct



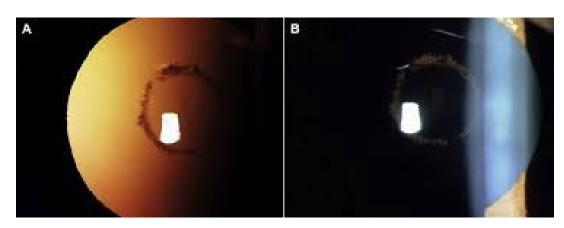


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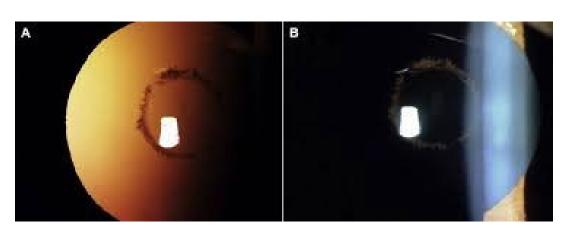




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A Vossius ring

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# A Vossius ring

Is a Vossius ring visually significant in and of itself?

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#### Why is that?

Because it signifies that the eye in question has experienced significant trauma, and thus is at much greater risk for intra- and post-CE complications



Cataracts associated with blunt trauma are

In addition to cataract formation, what other serious lens-related sequelae often follows blunt trauma to the eye?



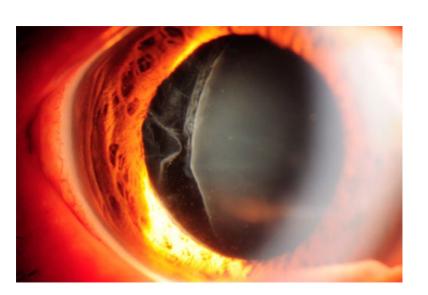


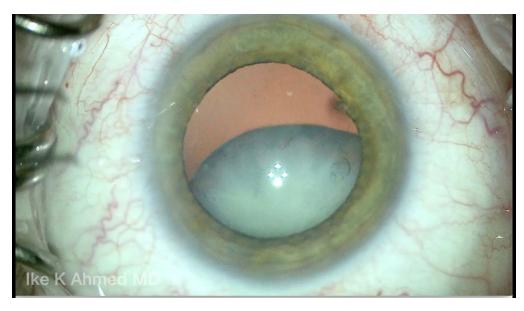


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In addition to cataract formation, what other serious lens-related sequelae often follows blunt trauma to the eye? Lens subluxation or dislocation







Traumatic cataract with subluxation



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A similar trauma-induced tremulousness may be observed in the iris. What is it called?





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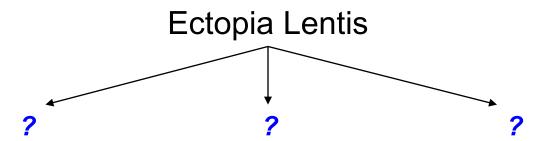
#### Lens subluxation or dislocation

What is the well la-dee-da, aren't **you** a gunner? term for displacement of the lens from its normal anatomic position (ie, lens subluxation/dislocation)? Ectopia lentis

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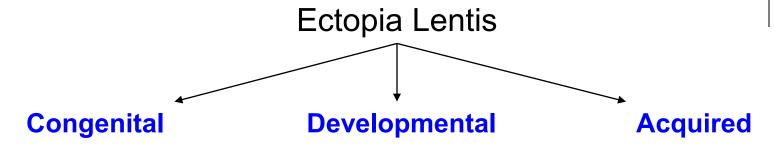
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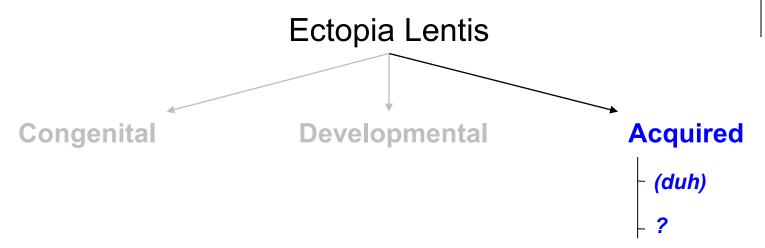
The BCSC series divides ectopia lentis into three categories:





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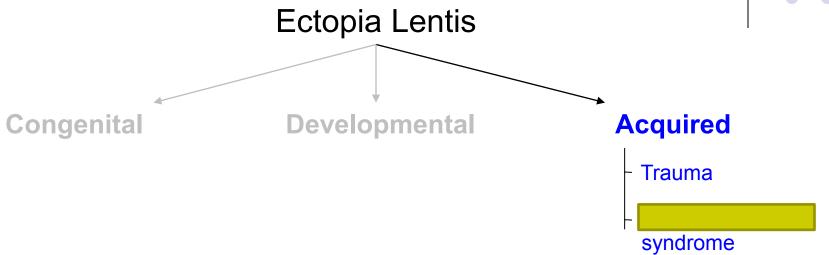




What are the two acquired causes covered in the BCSC?

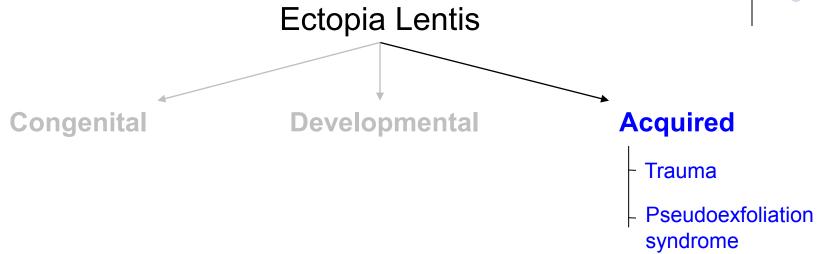






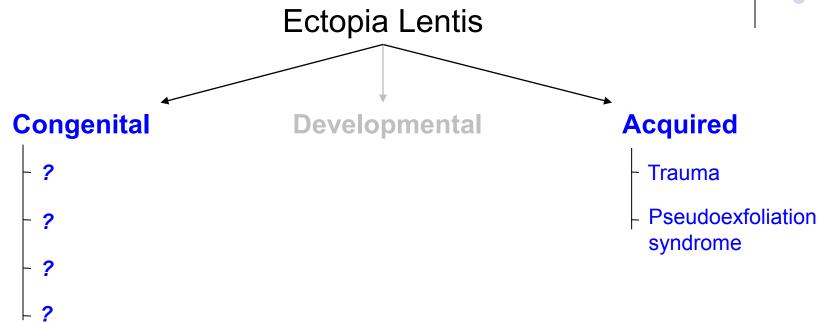
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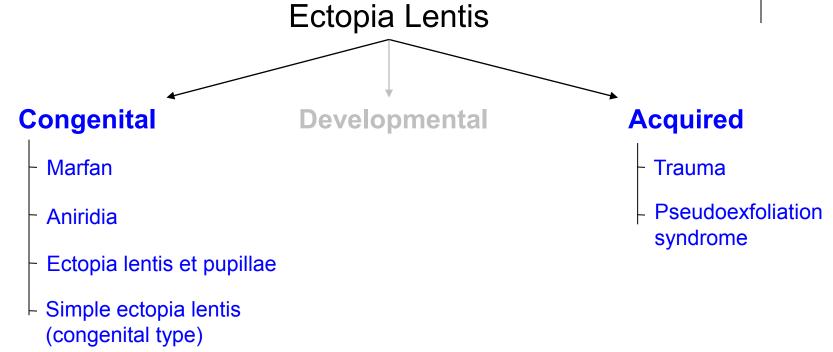
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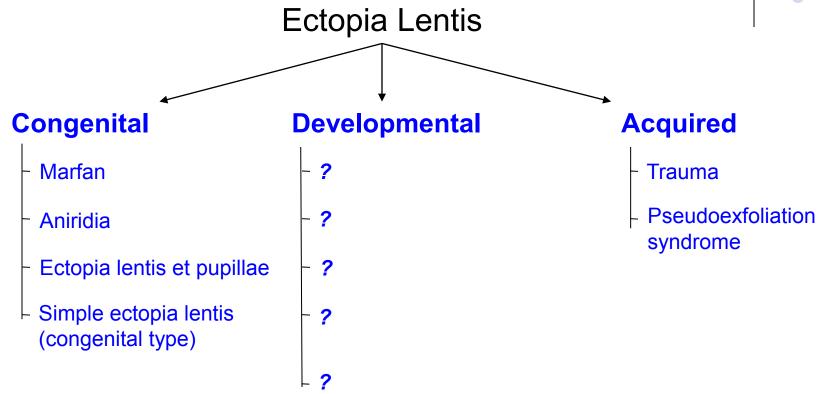
What are the four congenital causes covered in the BCSC?





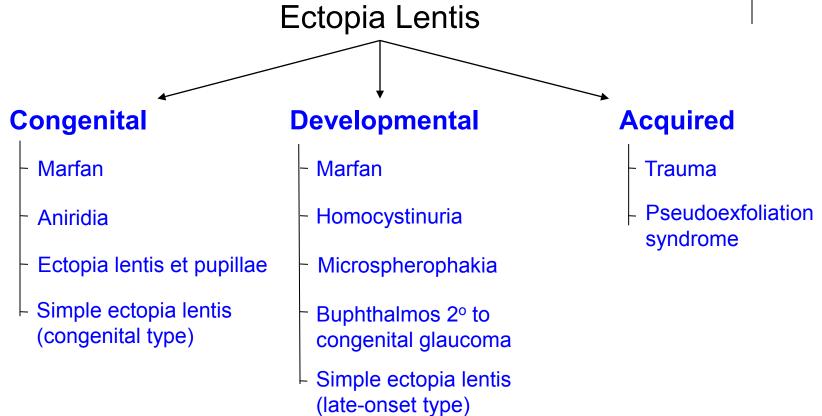
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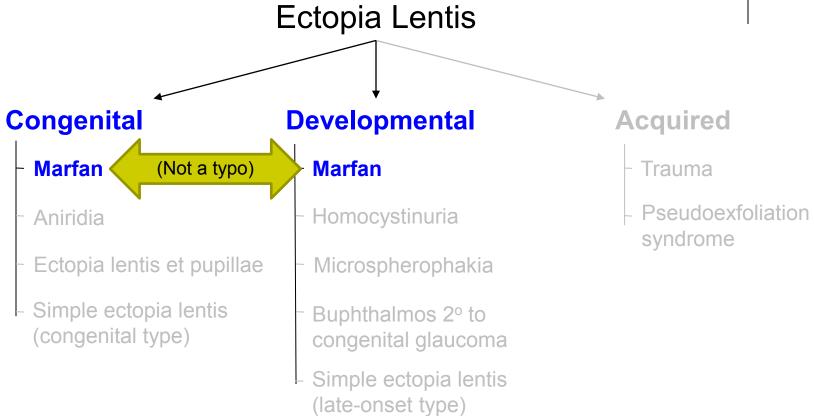
What are the five developmental causes covered in the BCSC?



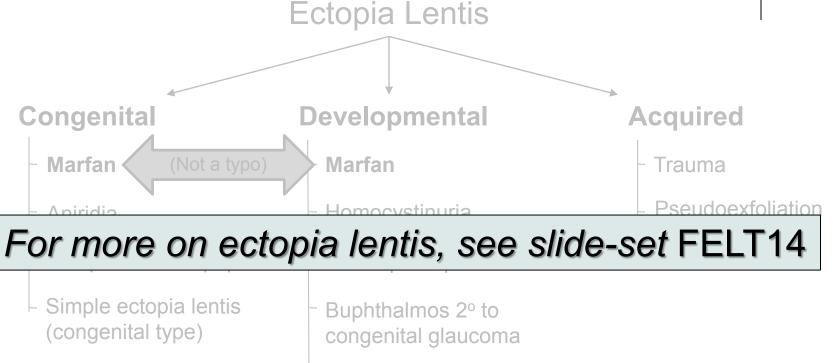


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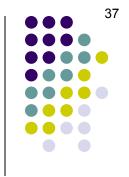
Simple ectopia lentis

(late-onset type)



 Is exposure to radiation associated with cataract formation?





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- Is exposure to radiation associated with cataract formation? Yes
- Which of the following forms of radiation cause cataracts?

Ionizing:

Charged particle:

Infrared:

UV:





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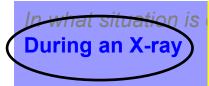


You mean one XR can cause a cataract?!





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During an X-ray

You mean one XR can cause a cataract?!

Not hardly, no

OK then, give me some perspective—how many CXR's worth of ionizing radiation would it take to cause a cataract?

About 200 (at least)



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How sensitive is the lens to ionizing radiation?





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How sensitive is the lens to ionizing radiation? Extremely so, probably more so than the other forms of radiation



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In what situation is the lens most likely to be exposed to charged-particle radiation?

UV: Maybe





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During treatment for a two words

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In what situation is the lens most likely to be exposed to charged-particle radiation? During treatment for a choroidal melanoma

UV: Maybe



In what situation is one most likely to be exposed to infrared radiation?

Ionizing: Most definitely

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In what situation is one most likely to be exposed to infrared radiation? If one works in a foundry

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By what occupation-related name is this sort of cataract known?

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By what occupation-related name is this sort of cataract known? 'Glassblower's cataract'

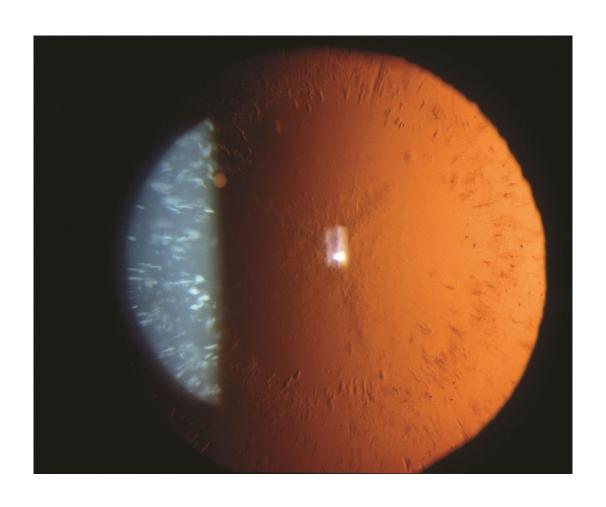
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Glassblower's cataract





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What sort of cataract (ie, nuclear; cortical; etc) is a glassblower's cataract?

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What is the name for this process?

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What is the name for this process? 'Exfoliation'

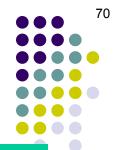
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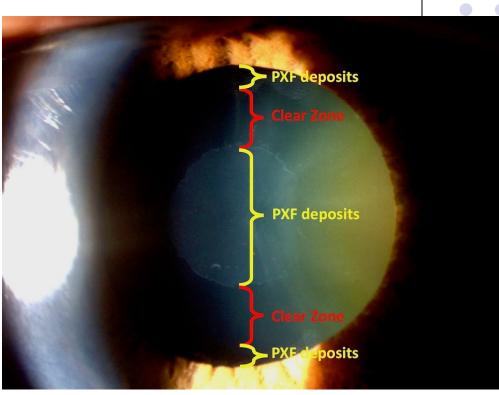
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The exfoliation pic from a few slides ago



Pseudoexfoliation (syndrome). Fibrillar material deposits on the lens' capsule, where normal dilatory/constrictive pupil movements wipe some off to produce a material-free clear zone, resulting in the classic 'target' appearance.

Exfoliation vs pseudoexfoliation



Exfolia

#### **Cataracts Associated with Trauma or Radiation**



radiation c

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In what situation is one most likely to be exposed to infrared radiation? If one works in a foundry

Yes, PXS pts are at increased risk of glaucoma, as well

By what occupation-related name is this sort of cataract known? 'Glassblower's cataract'

Prior to the Are they at risk for open, or closed-angle glaucoma?

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intense infrared

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Are they at risk for open, or closed-angle glaucoma? Open

Is it primary OAG (POAG), or 2ndry OAG? 2ndry of course—by definition, POAG has no associations of this sort (that's what it means for a condition to be 'primary')

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- Is exposure to radiation associated with cataract formation? Yes
- Which of the following forms of radiation cause cataracts?

Ionizing: Most definitely

Charged particle: Yes

Infrared: Yeah, but...

UV: Maybe

Microwave: Eh

What's with the 'Yeah, but...'?





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This sort of cataract has become quite rare (to put it mildly)



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In what situation is one most likely to be exposed to UV radiation?

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- Is exposure to radiation associated with cataract formation? Yes
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In what situation is one most likely to be exposed to UV radiation? Being outside, during the daytime

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Other than becoming a vampire, what can be done to avoid exposing the lens to UV radiation?

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In what situation is one most likely to be exposed to UV radiation? Being outside, during the daytime

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Wear UV-blocking sunglasses, and/or a hat with a visor

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What's with the 'Maybe'?

It's estimated that UV radiation only accounts for about 10% of the risk for developing a cataract

Microwave: En



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What's with the 'Eh'?

While microwaves have been demonstrated to cause cataracts in animal models, the evidence of an effect on humans is far from conclusive