

Q

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: ?

Vertical

Horizontal



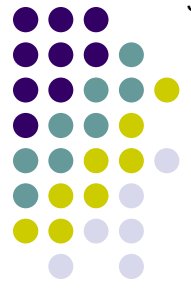
A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

Vertical

Horizontal
igh IOP ←



Q

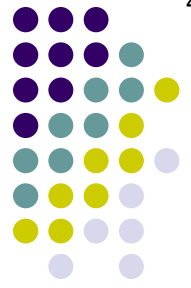
For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?

Vertical

Horizontal
igh IOP



A

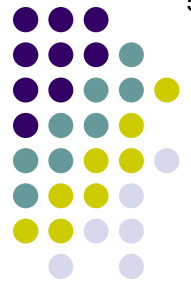
For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

Vertical

Horizontal
igh IOP
Haab ←



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

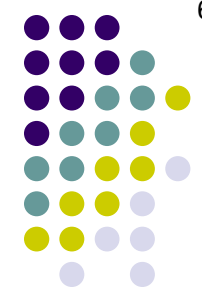
- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

Can Haab striae develop in children whose glaucoma commences after birth?

Vertical

Horizontal
igh IOP
Haab



Q/A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

Can Haab striae develop in children whose glaucoma commences after birth?
Yes, they appear in pts with glaucoma onset up to age

Vertical

Horizontal
igh IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

Can Haab striae develop in children whose glaucoma commences after birth?
Yes, they appear in pts with glaucoma onset up to age 4 years

Vertical

Horizontal
igh IOP
Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

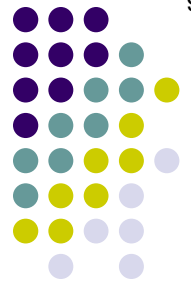
- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

What do Haab striae look like?

Vertical

Horizontal
igh IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

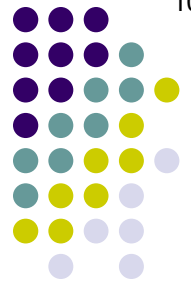
- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?
Haab striae

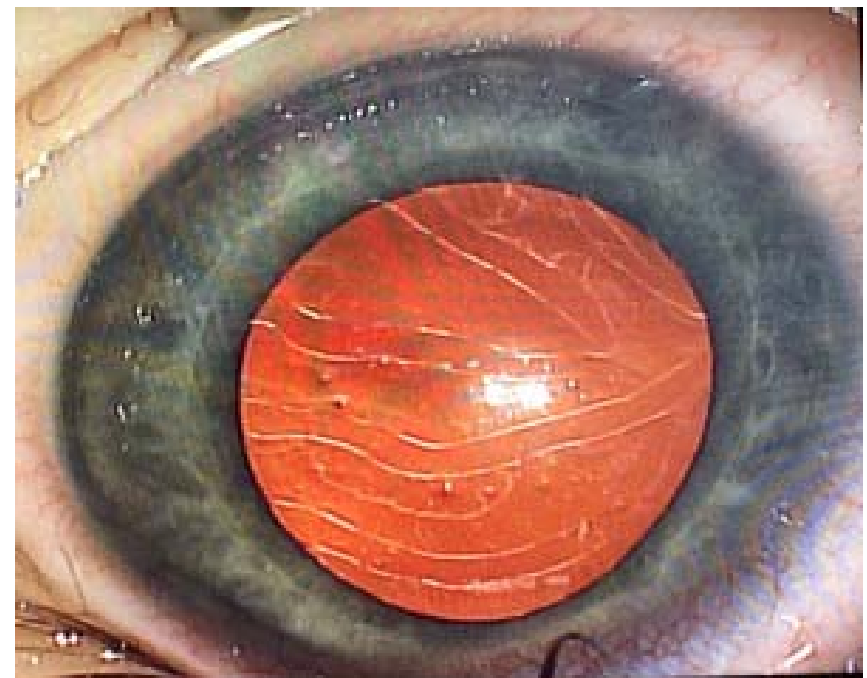
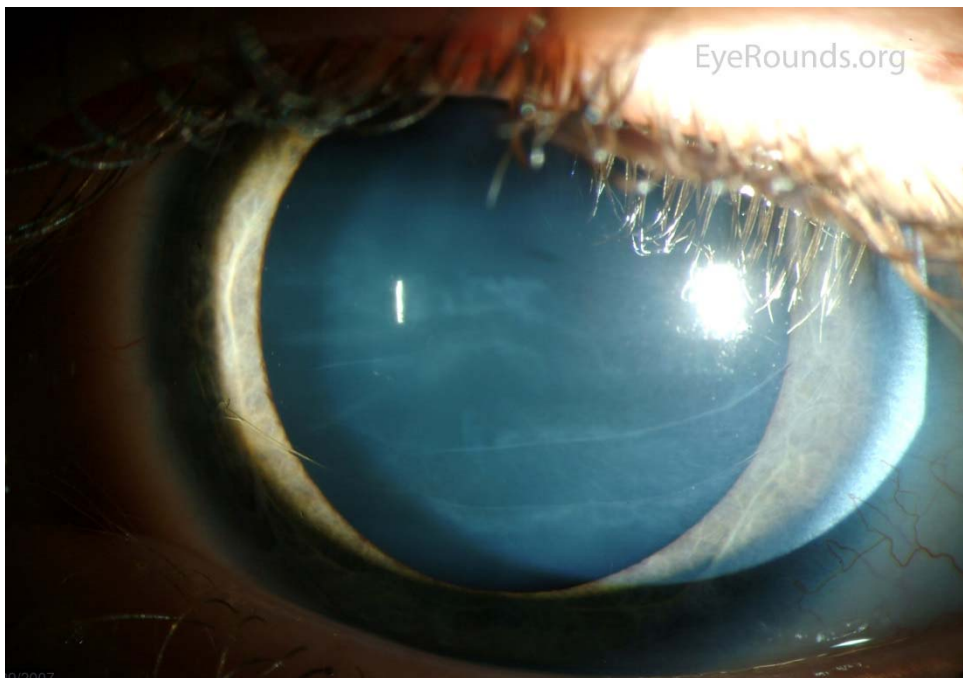
What do Haab striae look like?
Parallel lines that taper and meet at their ends

Vertical

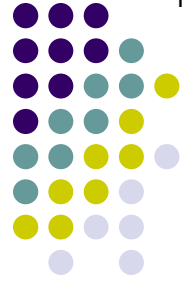
Horizontal
igh IOP
Haab



For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines



Haab striae in congenital glaucoma

**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?

Haab striae

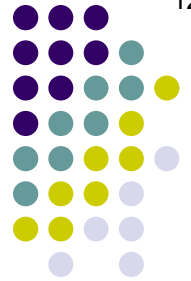
What do Haab striae look like?

Parallel lines that taper and meet at their ends

Haab striae represent what sort of pathology, ie, which corneal structure is damaged, and in what way?

Vertical

Horizontal
igh IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?

Haab striae

What do Haab striae look like?

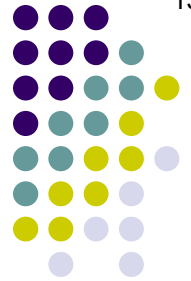
Parallel lines that taper and meet at their ends

Haab striae represent what sort of pathology, ie, which corneal structure is damaged, and in what way?

Tears in Descemet's secondary to corneal stretching

Vertical

Horizontal
igh IOP
Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?

Haab striae

What do Haab striae look like?

Parallel lines that taper and meet at their ends

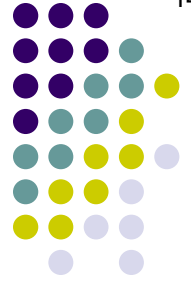
Haab striae represent what sort of pathology, ie, which corneal structure is damaged, and in what way?

Tears in Descemet's secondary to corneal stretching

What is the mechanism?

Vertical

Horizontal
 igh IOP
 Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* **Horizontal**

What is the name for the horizontal corneal finding associated with congenital glaucoma?

Haab striae

What do Haab striae look like?

Parallel lines that taper and meet at their ends

Haab striae represent what sort of pathology, ie, which corneal structure is damaged, and in what way?

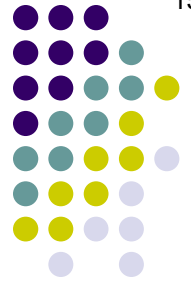
Tears in Descemet's secondary to corneal stretching

What is the mechanism?

Mechanical deformation caused by the elevated IOP

Vertical

Horizontal
 igh IOP
 Haab

**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**
- Associated with birth trauma: **?**

Vertical

Horizontal
igh IOP
Haab



A

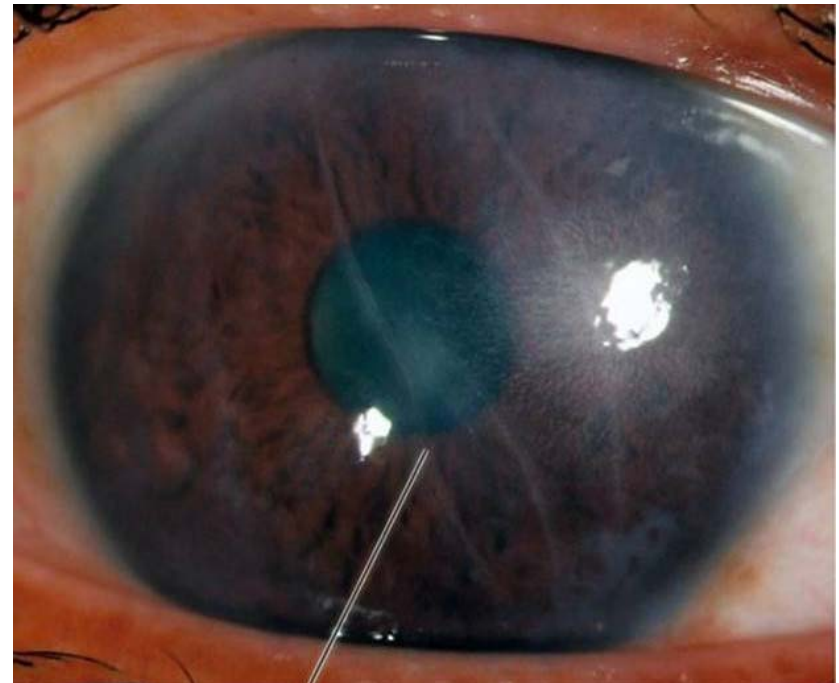
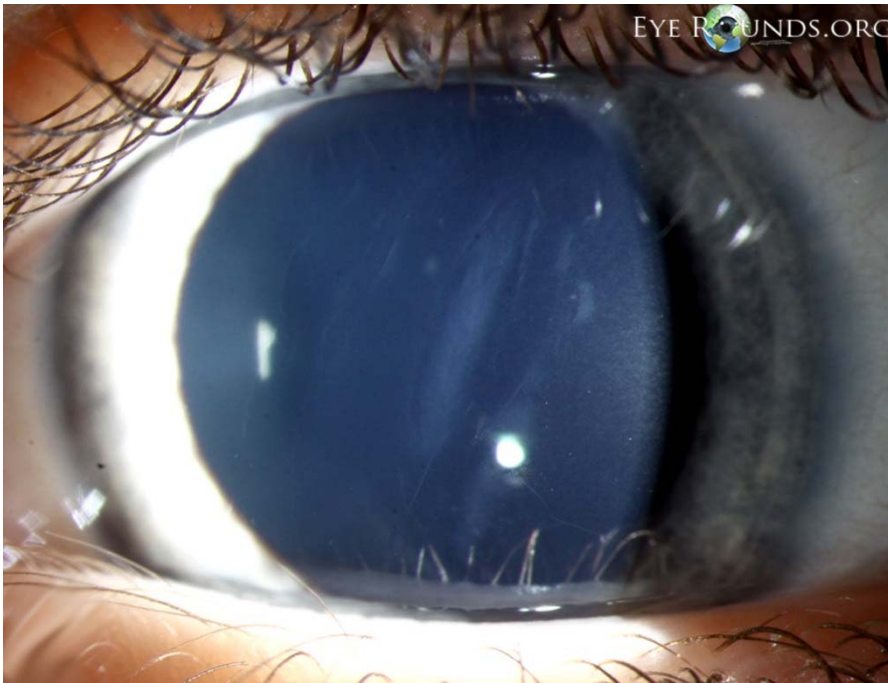
For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**
- Associated with birth trauma: **Vertical**

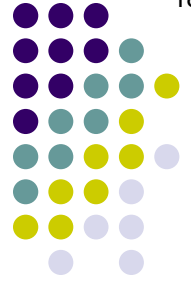
Vertical
aginal

Horizontal
igh IOP
Haab

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines



Vertical striae related to birth trauma

**Q**

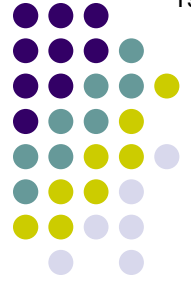
For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- Associated with birth trauma: **Vertical**

What is the pathology underlying these breaks, ie, which corneal structure is damaged, and in what way?

Vertical
aginal

Horizontal
igh IOP
Haab



A

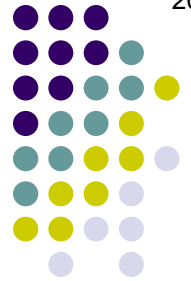
For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- Associated with birth trauma: **Vertical**

What is the pathology underlying these breaks, ie, which corneal structure is damaged, and in what way?
The same as Haab striae: Tears in Descemet's secondary to pressure on the cornea

Vertical
aginal

Horizontal
igh IOP
Haab

**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

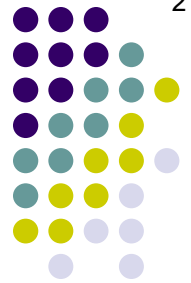
- *Associated with congenital glaucoma:* Horizontal
- Associated with birth trauma: **Vertical**

What is the pathology underlying these breaks, ie, which corneal structure is damaged, and in what way?
The same as Haab striae: Tears in Descemet's secondary to pressure on the cornea

What specific birth-event is the classic cause?

Vertical
aginal

Horizontal
High IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

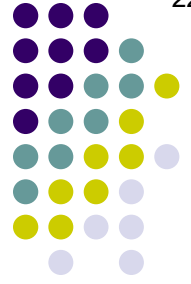
- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* **Vertical**

What is the pathology underlying these breaks, ie, which corneal structure is damaged, and in what way?
The same as Haab striae: Tears in Descemet's secondary to pressure on the cornea

What specific birth-event is the classic cause?
Forceps delivery

Vertical
aginal

Horizontal
High IOP
Haab

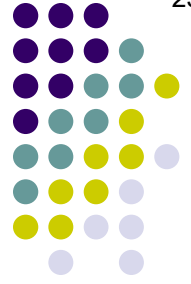
**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**
- Associated with birth trauma: **Vertical**
- Corneal stress lines in keratoconus: **?**

Vertical
agina

Horizontal
igh IOP
Haab

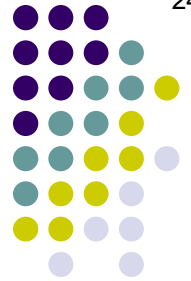


A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**
- Associated with birth trauma: **Vertical**
- Corneal stress lines in keratoconus: **Vertical**



**Q**

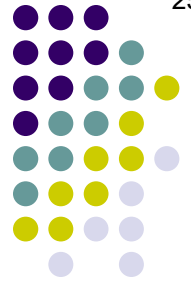
For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

What is the name for the vertical corneal finding associated with KCN?

Vertical
agina

Horizontal
igh IOP
Haab

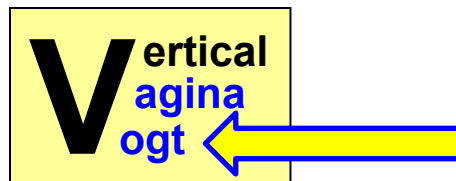


A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

What is the name for the vertical corneal finding associated with KCN?
Vogt striae



**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

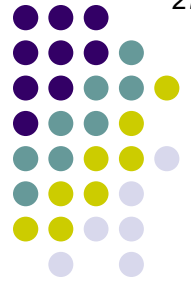
- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

What is the name for the vertical corneal finding associated with KCN?
Vogt striae

What do Vogt striae look like?

Vertical
aginal
ogt

Horizontal
igh IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

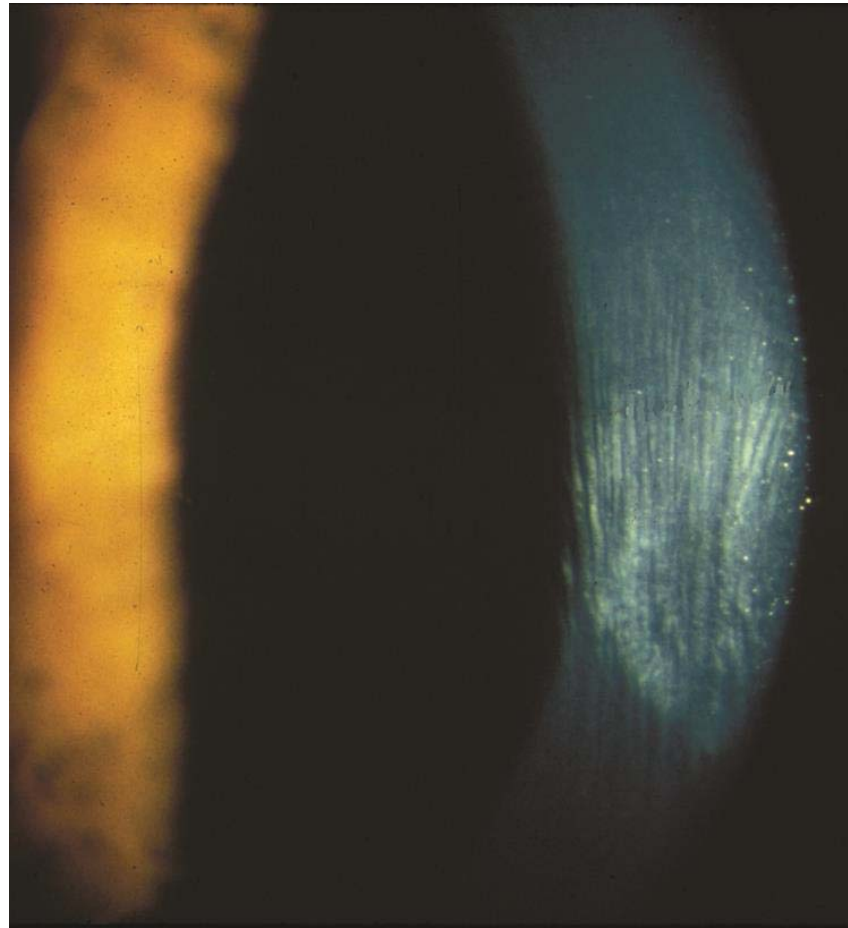
What is the name for the vertical corneal finding associated with KCN?
Vogt striae

What do Vogt striae look like?
 Fine parallel lines

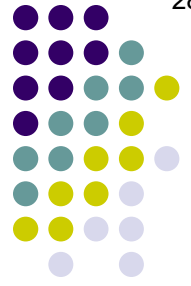
Vertical
 agina
 ogt

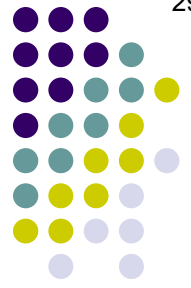
Horizontal
 igh IOP
 Haab

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines



Vogt striae





Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

What is the name of the fine parallel lines found in the cornea?

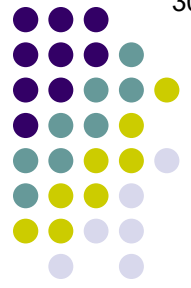
Vogt striae

What do Vogt striae look like?
Fine parallel lines

In terms of depth, where in the cornea are Vogt striae found?

Vertical
aginal
Vogt

Horizontal
High IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

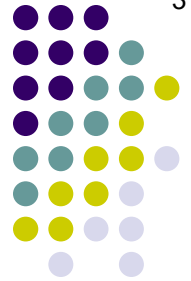
What is the name of the lines?
Vogt striae

What do Vogt striae look like?
 Fine parallel lines

In terms of depth, where in the cornea are Vogt striae found?
 The deep stroma

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

What is the name of the lines?

Vogt striae

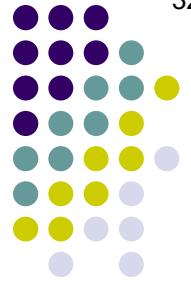
What do Vogt striae look like?
 Fine parallel lines

In terms of depth, where in the cornea are Vogt striae found?
 The deep stroma

Relative to the KCN cone, where are they found?

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

What is the name of the fine parallel lines found in the deep stroma?

Vogt striae

What do Vogt striae look like?

Fine parallel lines

In terms of depth, where in the cornea are Vogt striae found?

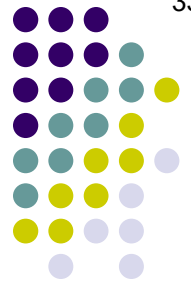
The deep stroma

Relative to the KCN cone, where are they found?

At its apex

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

What is the name of the fine parallel lines found in the deep stroma?
Vogt striae
 What do Vogt striae look like?
 Fine parallel lines

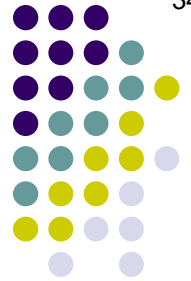
In terms of depth, where in the cornea are Vogt striae found?
 The deep stroma

Relative to the KCN cone, where are they found?
 At its apex

Applying pressure to the cornea causes Vogt striae to do what?

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in keratoconus: Vertical

What is the name of the fine parallel lines found in the deep stroma?

Vogt striae

What do Vogt striae look like?

Fine parallel lines

In terms of depth, where in the cornea are Vogt striae found?

The deep stroma

Relative to the KCN cone, where are they found?

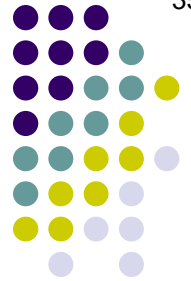
At its apex

Applying pressure to the cornea causes Vogt striae to do what?

To disappear

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in **keratoconus**: Vertical

What is the
 Vogt striae

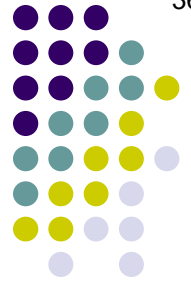
What do Vogt
 Fine parallel

In one word, what sort of condition is KCN?

A corneal

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in **keratoconus**: Vertical

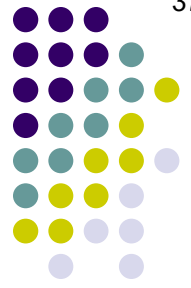
What is the
 Vogt striae

What do Vogt
 Fine parallel

In one word, what sort of condition is KCN?
 A corneal ectasia

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



Q

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in **keratoconus**: Vertical

What is the Vogt striae

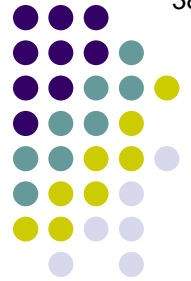
In one word, what sort of condition is KCN?
A corneal ectasia

What do Vogt Fine parallel

When you hear 'corneal ectasia,' four conditions should come to mind. What are the other three?
--KCN
--
--
--

Vertical
aginal
ogt

Horizontal
igh IOP
Haab



A

For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in **keratoconus**: Vertical

What is the
 Vogt striae

What do Vogt
 Fine parallel

In one word, what sort of condition is KCN?

A corneal ectasia

When you hear 'corneal ectasia,' four conditions should come to mind.

What are the other three?

--KCN

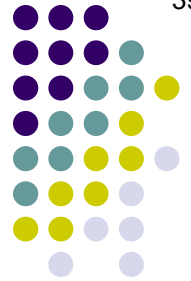
--Pellucid marginal degeneration

--Keratoglobus

--Post keratoablative refractive surgery

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



For each statement, identify with which it is associated:
Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: Horizontal
- Associated with birth trauma: Vertical
- Corneal stress lines in **keratoconus**: Vertical

For more on KCN, see slide-set K38

For more on corneal ectasias, see slide-set K12

When you hear "corneal ectasia," four conditions should come to mind.
 What do you think of? What are the other three?
 Fine parallel lines
 --KCN
 --Pellucid marginal degeneration
 --Keratoglobus
 --Post keratoablative refractive surgery

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab

**Q**

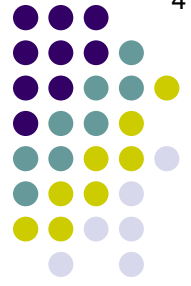
For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

PPMD

Before we get to the next corneal line...

In the context of corneal conditions, what does PPMD stand for?



A

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

● **PPMD**

Before we get to the next corneal line...

In the context of corneal conditions, what does PPMD stand for?

Posterior polymorphous dystrophy

**Q**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

PPMD

Before we get to the next corneal line...

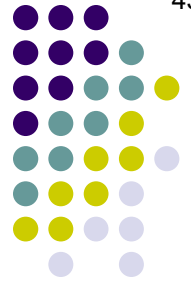
In the context of corneal conditions, what does PPMD stand for?

Posterior polymorphous dystrophy

The BCSC Cornea book divvies the corneal dystrophies into four categories.

What are they?

--
--
--
--

**A**

For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines

- *Associated with congenital glaucoma:* Horizontal
- *Associated with birth trauma:* Vertical
- *Corneal stress lines in keratoconus:* Vertical

● **PPMD**

Before we get to the next corneal line...

In the context of corneal conditions, what does PPMD stand for?

Posterior polymorphous dystrophy

The BCSC Cornea book divvies the corneal dystrophies into four categories.

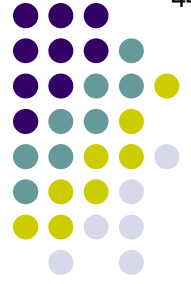
What are they?

--Epithelial and subepithelial

--Epithelial-stromal TGFBI

--Stromal

--Endothelial

**Q**

For each statement, identify with which it is associated:
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PPMD

Before we get to the next corneal line...

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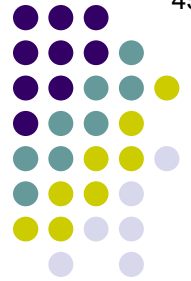
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To which category does PPMD belong?



A

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● **PPMD**

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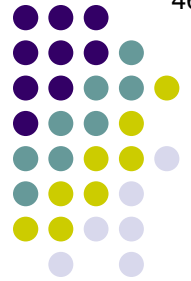
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--Stromal

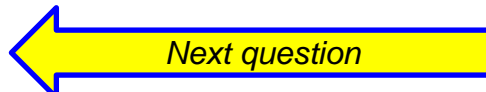
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To which category does PPMD belong?

Endothelial

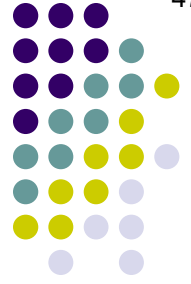
**Q**

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Horizontal corneal lines, or **Vertical** corneal lines

- Associated with congenital glaucoma: **Horizontal**
- Associated with birth trauma: **Vertical**
- Corneal stress lines in keratoconus: **Vertical**
- A corneal finding in PPMD: ? 

Vertical
aginal
ogt

Horizontal
igh IOP
Haab



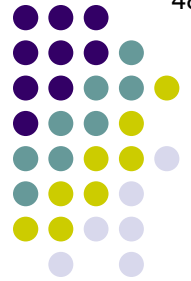
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aginal
ogt

Horizontal
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What is the name for the horizontal corneal finding in PPMD?

Vertical
aginal
ogt

Horizontal
igh IOP
Haab



A

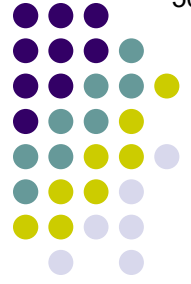
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What is the name for the horizontal corneal finding in PPMD?
Snail tracks

Vertical
aginal
ogt

Horizontal
igh IOP
Haab

**Q**

For each statement, identify with which it is associated:
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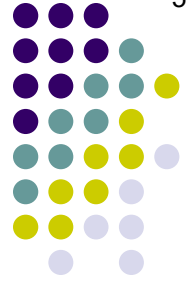
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What is the name for the horizontal corneal finding in PPMD?
Snail tracks

What do snail tracks look like?

Vertical
aginal
ogt

Horizontal
igh IOP
Haab



A

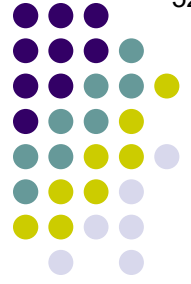
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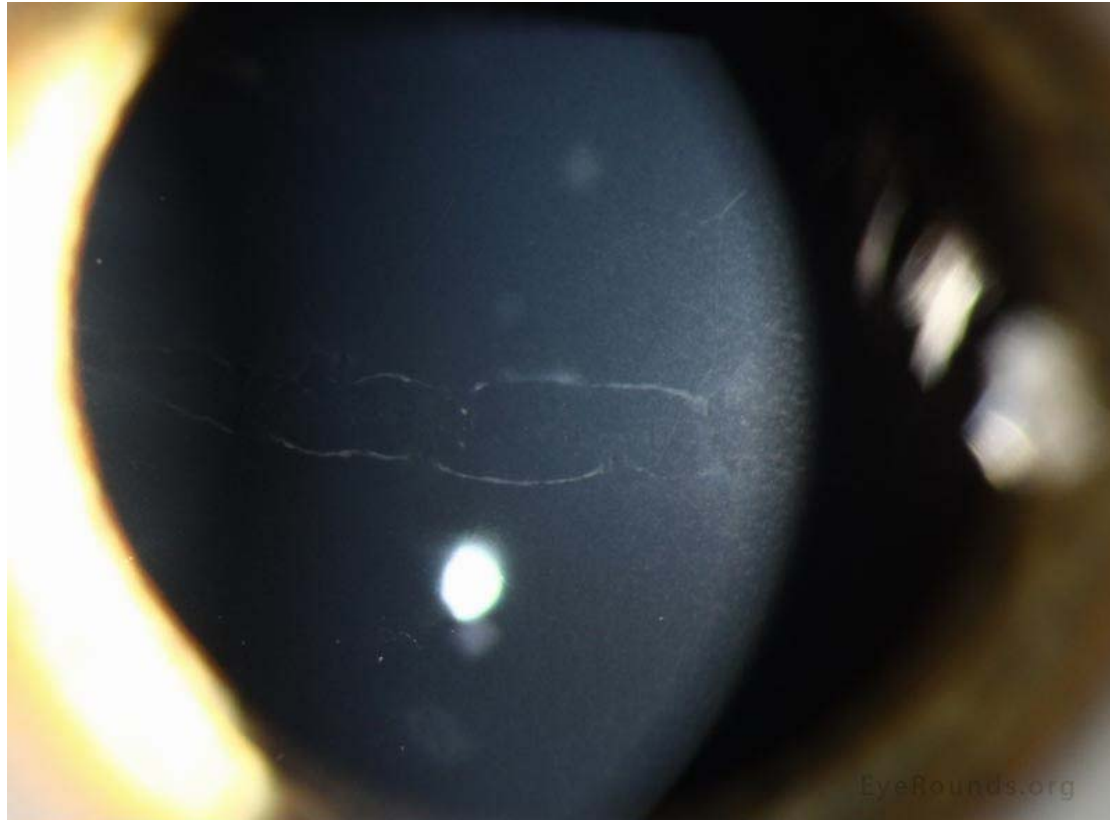
What is the name for the horizontal corneal finding in PPMD?
Snail tracks

What do snail tracks look like?
 Parallel lines, often with a scalloped contour





For each statement, identify with which it is associated:
Horizontal corneal lines, **or Vertical** corneal lines



Snail tracks in PPMD



Q

For each statement, identify with which it is associated:
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What is the name
Snail tracks
 What do snail tracks
 Parallel lines, often with a scalloped contour

In addition to snail tracks, PPMD presents with two other exam findings.
 What are they?
 --Linear band-shaped opacities (ie, snail tracks)
 --
 --

Vertical
 agina
 ogt

Horizontal
 igh IOP
 Haab



A

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Snail tracks

What do snail tracks

Parallel lines, often with a scalloped contour

In addition to snail tracks, PPMD presents with two other exam findings.
 What are they?

- Linear band-shaped opacities (ie, snail tracks)
- Vesicular lesions
- Diffuse opacities

Vertical
 agina
 ogt

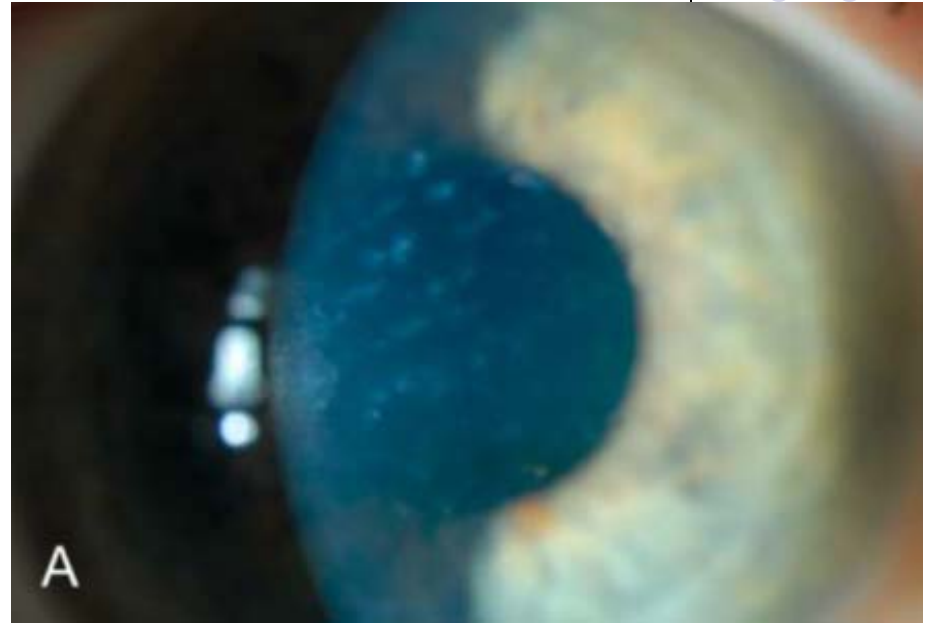
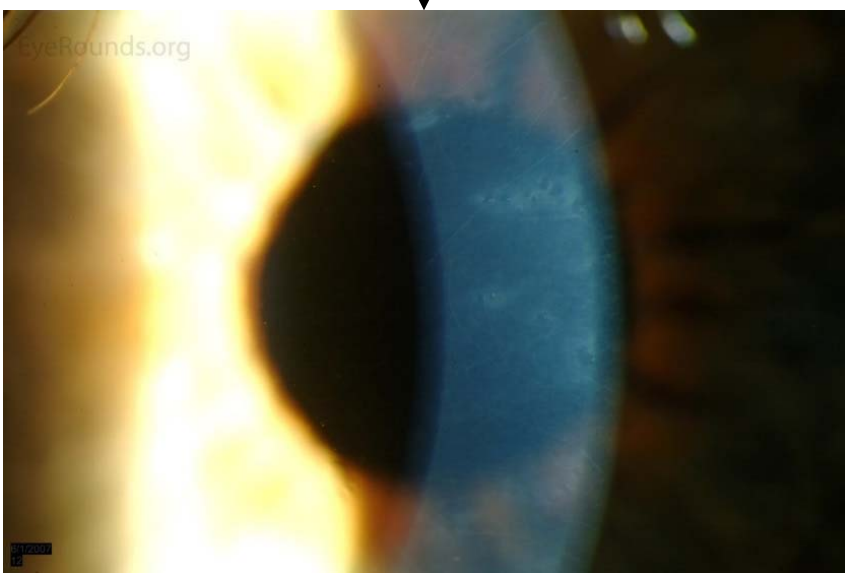
Horizontal
 igh IOP
 Haab



Identify with which it is associated:
Horizontal lines, or Vertical corneal lines

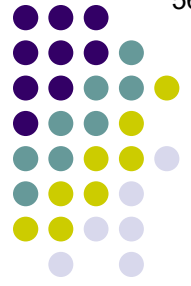


Vesicular lesions

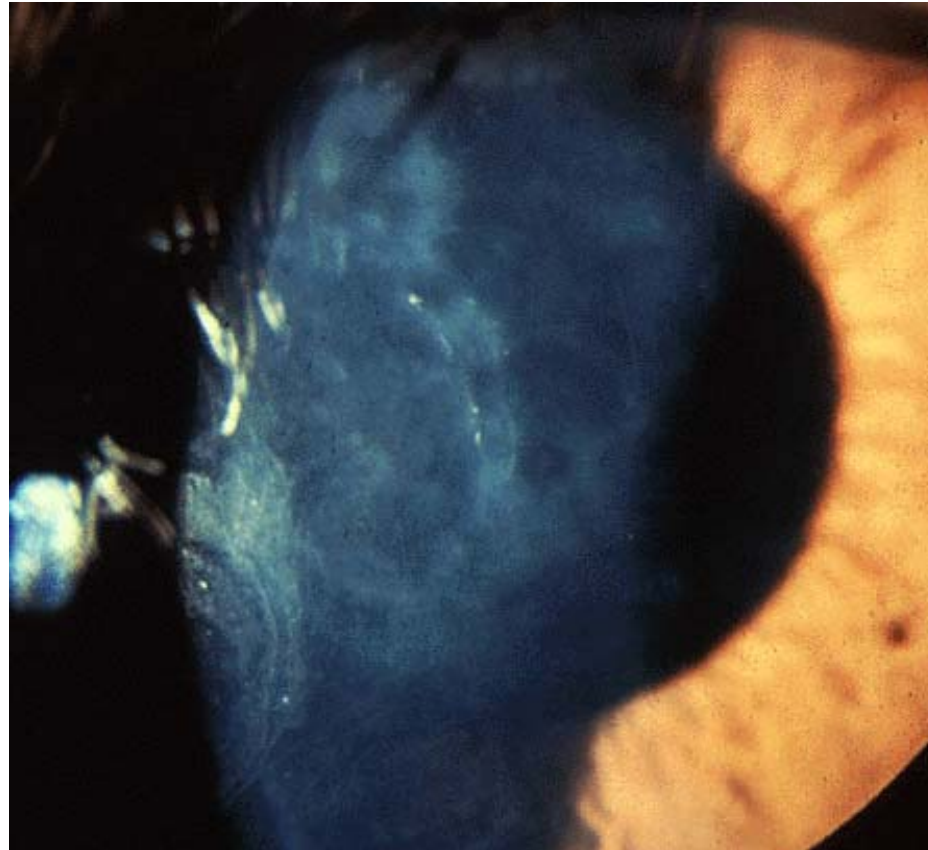


Diffuse opacities

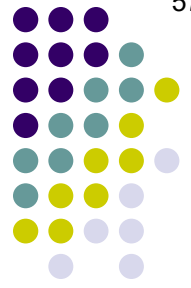
PPMD



For each statement, identify with which it is associated:
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PPMD. Its clinical appearance is notoriously variable—
don't commit any one image to memory as representing it!



Q

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--Linear band-shaped opacities (ie, snail tracks)
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How can PPMD band lesions be distinguished from Haab striae?

Vertical
agnia
ogt

Horizontal
igh IOP
Haab



A

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How can PPMD band lesions be distinguished from Haab striae?
Recall that Haab striae represent breaks in Descemet's membrane, and thus have a beginning and an end; ie, they taper and meet at their ends

Vertical
agnia
ogt

Horizontal
igh IOP
Haab



A

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Snail tracks

In addition to snail tracks, PPMD presents with two other exam findings. What are they?
--Linear band-shaped opacities (ie, snail tracks)
--Vesicular lesions

How can PPMD band lesions be distinguished from Haab striae?
Recall that Haab striae represent breaks in Descemet's membrane, and thus have a beginning and an end; ie, they taper and meet at their ends. In contrast, the bands of PPMD are not breaks in Descemet's, and therefore do **not** meet at their terminuses.

Vertical
agnia
ogt

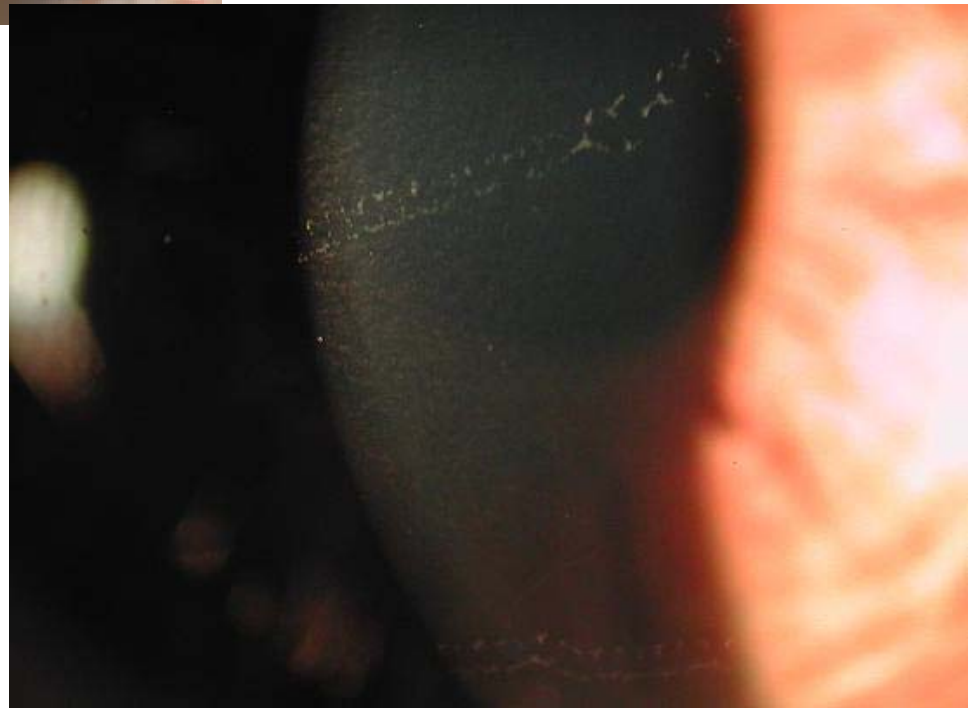
Horizontal
igh IOP
Haab



which it is associated:
vertical corneal lines

Haab's striae (note that the lines taper and meet)

Snail tracks in PPMD
(the lines don't meet)





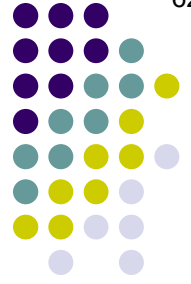
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Vertical
aginal
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Haab

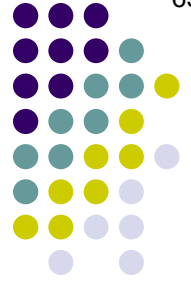


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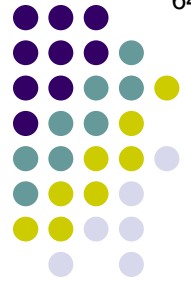


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What is the name of the line associated with PK rejection?

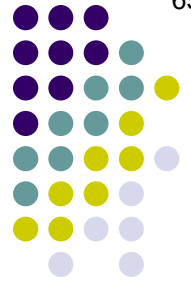
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Khodadoust line

**Q**

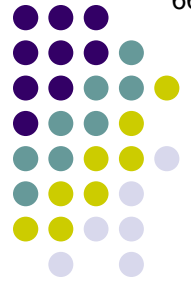
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Rejection of which layer of the cornea (ie, epithelial, stromal, etc) is heralded by the presence of a Khodadoust line?



A

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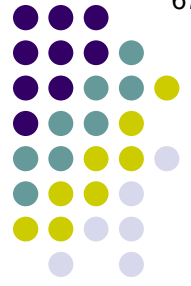
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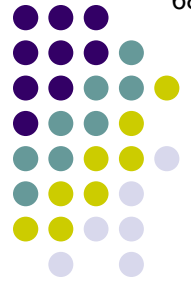
The endothelium



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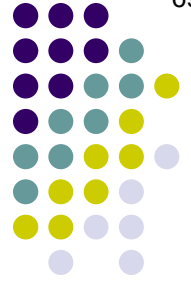
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Of what is the line composed?



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