Q

Microspherophakia

- Re microspherophakia...which of the following are true?
 - Due to faulty development of 2ndry lens fibers



- Re microspherophakia...which of the following are true?
 - Due to faulty development of 2ndry lens fibers T

- 3
- Due to faulty development of 2ndry lens fibers T
- Associated with high hyperopia



- 4
- Due to faulty development of 2ndry lens fibers T
- Associated with high hyperopia

- 5
- Due to faulty development of 2ndry lens fibers T
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• Re microspherophakia...which of the following are true?

- 6
- Due to faulty development of 2ndry lens fibers T
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Does microspherophakia actually cause the high myopia with which it is associated?



 Re microspherophakia...which of the following are true?



Due to faulty development of 2ndry lens fibers T

Associated with high hyperopia

Does microspherophakia actually cause the high myopia with which it is associated? Yes

• Re microspherophakia...which of the following are true?



Due to faulty development of 2ndry lens fibers T

Associated with high hyperopia

Does microspherophakia actually cause the high myopia with which it is associated? Yes

How does it cause high myopia?

 Re microspherophakia...which of the following are true?



Due to faulty development of 2ndry lens fibers T

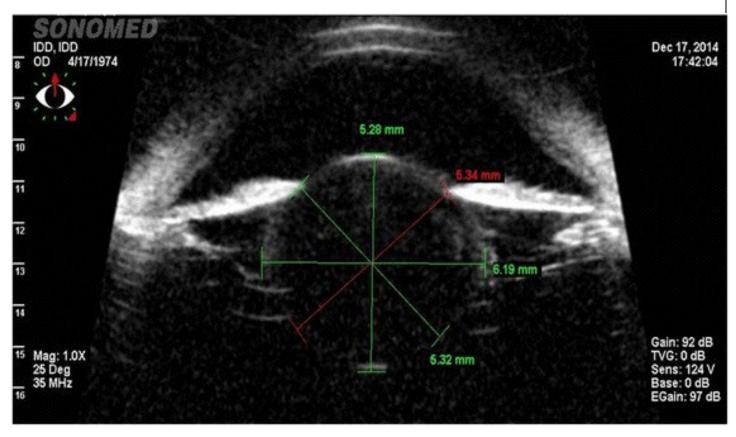
Associated with high hyperopia

Does microspherophakia actually cause the high myopia with which it is associated? Yes

How does it cause high myopia?

The surface of the spherical lens is much more curved than that of a normal lens, and thus possesses significantly more converging power





Microspherophakia. Note the extreme curvature of the lens

• Re microspherophakia...which of the following are true?

11

- Due to faulty development of 2ndry lens fibers T
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Does microspherophakia actually cause the high myopia with which it is associated? Yes

How does it cause high myopia?

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How does this differ from 'run of the mill' high myopia?

• Re microspherophakia...which of the following are true?



Associated with high hyperopia

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How does it cause high myopia?

Due to faulty develope

The surface of the spherical lens is much more curved than that of a normal lens, and thus possesses significantly more converging power

How does this differ from 'run of the mill' high myopia? Most cases of high myopia are due to excessive length of the optical axis (so-called 'axial myopia')



13

- Re microspherophakia...which of the following are true?
 - Due to faulty development of 2ndry lens fibers T
 - Associated with high hyperopia
 - Can cause pupillary block with subsequent angle closure glaucoma



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15

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What is the mechanism by which microspherophakia can lead to pupillary block and subsequent angle-closure glaucoma?



16

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What is the mechanism by which microspherophakia can lead to pupillary block and subsequent angle-closure glaucoma?

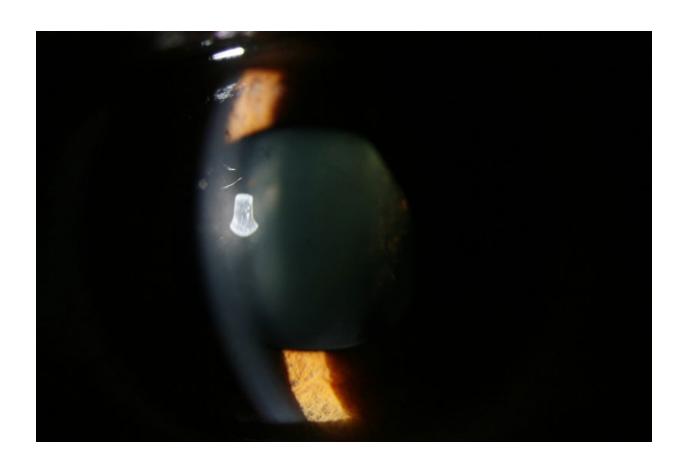
If zonular laxity is present, the lens may be able to drift far enough forward to block the pupillary aperture, leading to acute angle closure





Microspherophakia. Lens is able to fit through the pupillary aperture with mydriasis





Microspherophakia with pupillary block leading to shallow AC

19

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- 21
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22

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What surgical maneuvers are sometimes used to prophylax against angle closure?

23

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What surgical maneuvers are sometimes used to prophylax against angle closure? Iridotomy, or lensectomy

 Re microspherophakia...which of the following are true?



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What surgical maneuvers are sometimes used to prophylax against angle closure? Iridotomyes ensectomy

Some surgeons argue that *two* iridotomies 180° apart should be created to insure against pupillary blockage by a subluxed microspherophakic lens!

25

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26

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- 27
- Due to faulty development of 2ndry lens fibers T
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 - Associated with high hyperopia
 - Can cause pupillary block with subsequent angle closure glaucoma
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Pilo is used to manage pupillary-block angle-closure glaucoma. Why shouldn't it be used in cases secondary to microspherophakia, and why is cycloplegia employed instead?

29

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Pilo is used to manage pupillary-block angle-closure glaucoma. Why shouldn't it be used in cases secondary to microspherophakia, and why is cycloplegia employed instead?

Pilo will cause the lens to move farther **forward**, and will likely worsen the pupillary block. Cycloplegics will pull the lens *posteriorly*, away from the pupil.

30

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 - Cycloplegics should be avoided, as they can close an already crowded angle ← T
 - Strongly associated with Marfan syndrome



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This word is what makes the statement false. Marfan is indeed associated with microspherophakia, but the relationship is by no means a strong one!

Q

Microspherophakia

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This word is what makes the statement false. Marfan is indeed associated with microspherophakia, but the relationship is by no means a strong one! Rather, the syndrome that can truthfully be said to be strongly associated with it is...

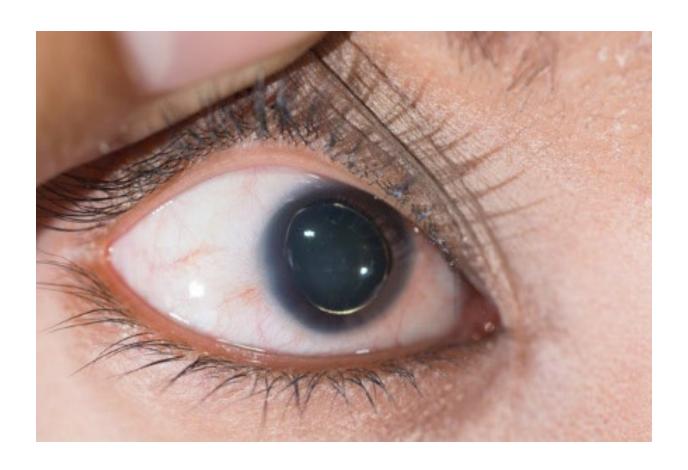
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 Weill-Marchesani
 Strongly associated with Marfan syndrome F T

This word is what makes the statement false. Marfan is indeed associated with microspherophakia, but the relationship is by no means a strong one! Rather, the syndrome that can truthfully be said to be strongly associated with it is... Weill-Marchesani.





Microspherophakia in Weill-Marchesani syndrome

lock

36

- Re microspherophakia...which of the following are true?
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 - Associated with high hyperopia
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 What are the findings in Weill-Marchesani? Patients with Weill-Marchesani have:

stature

- Angle closure can with miotics
- Cycloplegics should be a voided, as they can a close an already crowded angle + 1
- Strongly associated with Marchesoni

 Weill-Marchesoni

 Weill-Marchesoni

 To a serve of the serve of the



37

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 - Angle closure can, with miotics FT

Patients with Weill-Marchesani have: ...short stature

 Cycloplegics should close an already crows

Weill-Marchesani Strongly associated with Marfan syndrome) T lock



38

Weill-Marchesani syndrome: Short stature

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Patients with Weill-Marchesani have:
...short stature
fingers

Cycloplegics should be a voided angle + T

Strongly associated with Marchesani

Weill-Marchesani
Weill-Marchesani

T

T

lock

39



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lock

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...**short** stature ...**short** fingers

Cycloplegics should be available, as they can already crowded angle + 1

Strongly associated with Marchesani

Weill-Marchesani
Weill-Marchesani
T







Weill-Marchesani syndrome: Short fingers

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 - Angle closure can with miotics FT
- Patients with Weill-Marchesani have:
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 ...short fingers
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- Cycloplegics should be an already crowded angle + T
- Strongly associated with Marchesoni

 Weill-Marchesoni

 Weill-Marchesoni

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lock



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Weill-Marchesani
Weill-Marchesani

Weill-Marchesani

To a serve of the serve of

43

lock



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Cycloplegics shou

- ...short stature ...short fingers
- ...stiff joints

syndrome) (Think of it as the opposite of close an already crows

Weill-Marchesani Strongly associated an syndrome



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Patients with Weill-Marchesani have: ...**short** stature (**Tall** stature) ...**short** fingers (Long fingers) ...stiff joints (Lax joints)

(Think of it as the opposite of **Marfan** syndrome)

 Cycloplegics shou close an already crows Weill-Marchesani

Strongly associated

an syndrome

45





Weill-Marchesani syndrome



Marfan syndrome

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- Associated with high hyperopia
- Can cause pupillary closure glaucoma
- Angle closure can, with miotics F. T
- What is the formal term for:
 --Abnormally short fingers?
 Pa

 Short stature
 (Tall stature)
- ..short fingers

- (Lax joints)

 of Marfan syndrome
- Cycloplegics shoul (Think of it as the opposite of Marfan syndrome) close an already crowded angle +
- Strongly associated
- Weill-Marchesani with Marfan syndrome



• Re microspherophakia...which of the following are true?

- 48
- Due to faulty development of 2ndry lens fibers T
- Associated with high hyperopia
- Can cause pupillary to closure glaucoma
- Angle closure can with miotics

What is the formal term for:
--Abnormally short fingers? Brachydactyly

short stature
(Long fingers)

• Cycloplegics should be the opposite of Marfan syndrome) close an already crowded angle +

Strongly associated with Marchesoni
 Strongly associated with Marchesoni

 Re microspherophakia...which of the following are true?



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- Can cause pupillary to closure glaucoma
- Angle closure can, with miotics F. T
- --Abnormally long fingers?

 --Short stature
 --Short fingers
 --Law joints

 --Abnormally long fingers?

 (Long fingers)
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--Abnormally short fingers? Brachydactyly

What is the formal term for:

- Cycloplegics should be a the opposite of Marfan syndrome) close an already crowded angle +
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 Weill-Marchesani
 with Marfan syndrome F- 7



lock



 Re microspherophakia...which of the following are true?

- 50
- Due to faulty development of 2ndry lens fibers T
- Associated with high hyperopia F T
- Can cause pupillar closure glaucoma
- Angle closure can. with miotics FT
- What is the formal term for: --Abnormally short fingers? Brachydactyly
 - --Abnormally long fingers? Arachnodactyly
- short stature ..short fingers ...stiff |cints

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Weill-Marchesani

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Q

Microspherophakia

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- Due to faulty development of 2ndry lens fibers T
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- Can cause pupillary block with subsequent angle closure glaucoma T
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- Cycloplegics should be avoided, as they can close an already crowded angle F
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Weill-Marchesani is strongly associated with microspherophakia. With what conditions is microspherophakia occasionally associated?

52

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Weill-Marchesani is strongly associated with microspherophakia. With what conditions is microspherophakia occasionally associated? Lowe syndrome, Alport syndrome, Marfan syndrome, Peters anomaly and congenital rubella

 Re microspherophakia...which of the following are true?

- 53
- Due to faulty development of 2ndry lens fibers T
- Associated with high hyperopia F T
- Ruby LAMP is a mnemonic for the other conditions associated with microspherophakia: C Ruby = Rubella
- Lowe syndrome Alport syndrome Marfan syndrome
- Peters anomaly

close an already crowded angle + 1
Weill-Marchesani

Strongly associated with Marfan syndrome

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 Alport syndromes?
 In three words (including syndrome), what are Lowe and Alport syndromes?
 two words
 syndromes
 Syndromes
 Strongly associa

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Lowe syndrome
Alport syndrome

Cy Peters anomaly
 close an already

Strongly associa

In three words (including syndrome), what are Lowe and Alport syndromes?
Familial oculorenal syndromes

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What is their classic (nonocular) presenting sign?

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What is their classic (nonocular) presenting sign? Hematuria

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In three words (including syndrome), what are Lowe and Alport syndromes? Familial oculorenal syndromes

What is their classic (nonocular) presenting sign? Hematuria

Microspherophakia is not the classic lens finding in the oculorenal syndromes (and should not be the first one out of your mouth if pimped about them). What is?

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Lowe syndrome, Alport syndrome, Marfan syndrome, Peters anomaly and



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Strongly associa

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Anterior lenticonus in Alport syndrome

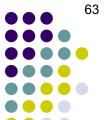
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- Strongly associated with Marfan syndrome FT
- Occurs as part of ectopia lentis et pupillae

62

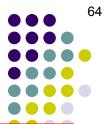
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Re microspherophakia...which of the

following What is ectopia lentis et pupillae?

- Due to
- Associa
- Can ca closure
- Angle of with mi
- Cyclop close a
- Strongl
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Re microspherophakia...which of the

What is ectopia lentis et pupillae?

A genetic condition the hallmark of which is the displacement of the pupil and (microspherophakic) lens

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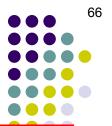


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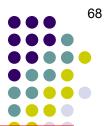


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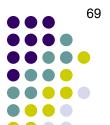
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- Cyclop
- Strong
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- Angle In what direction are the pupils and lenses displaced? In opposite directions—pupils lenses
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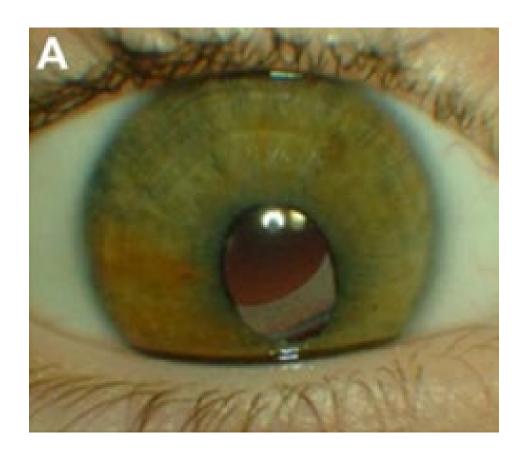
Is it unilateral, or bilateral? Bilateral

Angle

In what direction are the pupils and lenses displaced? In opposite directions—pupils inferotemporal, lenses superonasal

- Strong
- Occurs as part of ectopia lentis et pupillae T





Ectopia lentis et pupillae: Pupil displaced inferonasal; lens, superotemporal





Re microspherophakia...which of the

What is ectopia lentis et pupillae?
A genetic condition the hallmark of which is the displacement of the pupil and (microspherophakic) lens

- Associa How common is it?
- It is very rare Can ca *Is it unilateral, or bilateral?* closure Bilateral
- Angle
- Cyclop

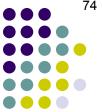
In what direction are

In opposite direction —pupils inferotemporal, lenses superonasal

Can the pupils and lenses be so displaced that the lens isn't located within the pupillary aperture?

- Strong
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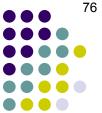
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The pupils typically have two further abnormalities—what are they?





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The pupils typically have two further abnormalities—what are they? --They are very miotic, and dilate poorly



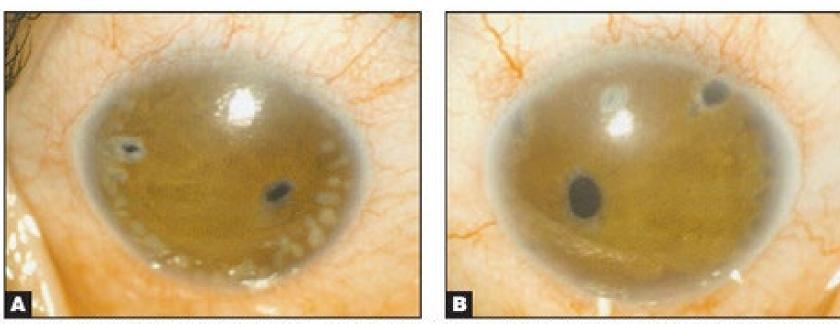


Figure 1. Preoperative view of both eyes in a patient with bilateral ectopia lentis et pupillae syndrome showing several lesions on the iris due to previous laser therapy. (A) Right eye. (B) Left eye.

Ectopia lentis et pupillae: Itty-bitty pupils (ignore the LPIs)





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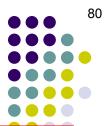
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The pupils typically have two further abnormalities—what are they?

--They are very miotic, and dilate poorly

--They are slit-like in shape







Ectopia lentis et pupillae: Bilateral inferonasal displacement of slit(ish) pupils