

Q

Spastic Entropion

What does the term
Entropion mean?

Ectropion





A

Spastic Entropion

What does the term **Entropion** mean?
It means the eyelid margin is turning **inward**

Ectropion



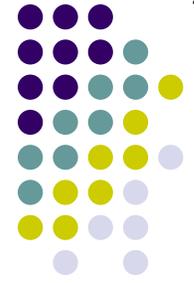
Q

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What does the term **Ectropion** mean?
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Spastic Entropion

The Plastics book identifies six general causes of entropion and/or ectropion. What are they? (Note that while most apply to both entropion and ectropion, a few apply only to one or the other.)

Entropion **Categories** *Ectropion*

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Spastic Entropion

The Plastics book identifies six general causes of entropion and/or ectropion. What are they? (Note that while most apply to both entropion and ectropion, a few apply only to one or the other.)

Entropion

Categories

Ectropion

Congenital

Involuntional

Paralytic

Cicatricial

Mechanical

Acute Spastic

Q

Spastic Entropion



Of the six, which can result in entropion?

Entropion

Categories

Ectropion

?

Congenital

?

Involutional

?

Paralytic

?

Cicatricial

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Mechanical

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Acute Spastic

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Spastic Entropion



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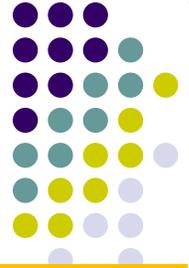
Mechanical

Acute Spastic

Acute Spastic

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Spastic Entropion



Of the six, which can result in ectropion?

<i>Entropion</i>	<i>Categories</i>	<i>Ectropion</i>
Congenital	Congenital	?
Involucional	Involucional	?
	Paralytic	?
Cicatricial	Cicatricial	?
	Mechanical	?
Acute Spastic	Acute Spastic	?



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Acute Spastic

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Acute Spastic

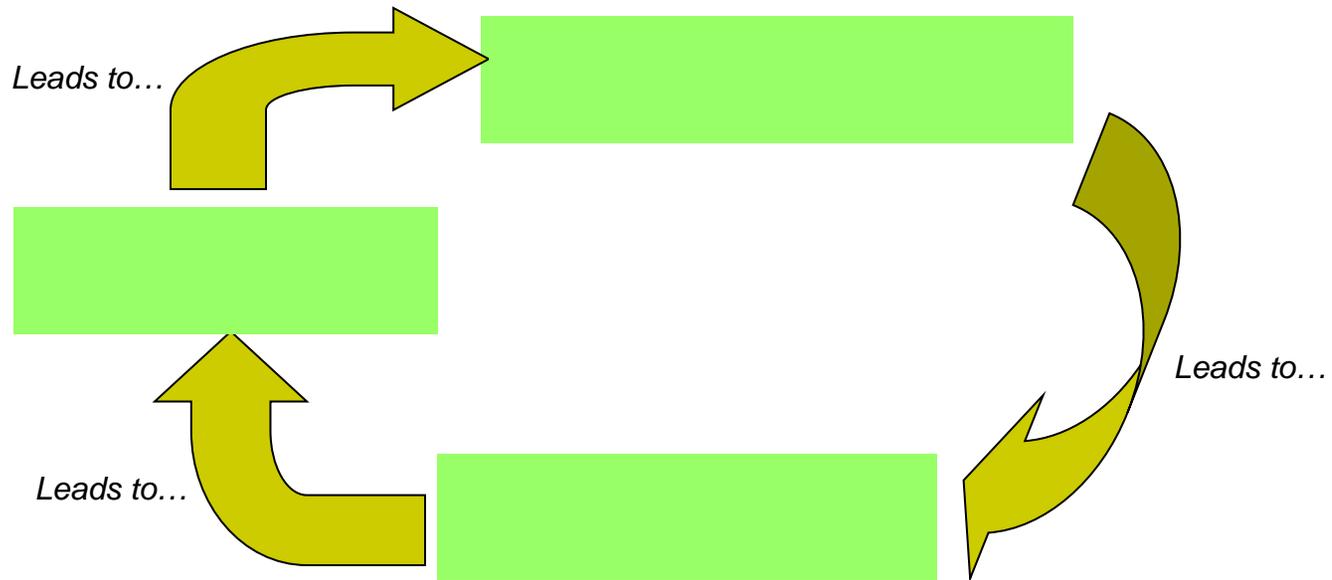
Let's take a closer look at spastic entropion...



Spastic Entropion

Q

- What is the 'vicious cycle' of spastic entropion?

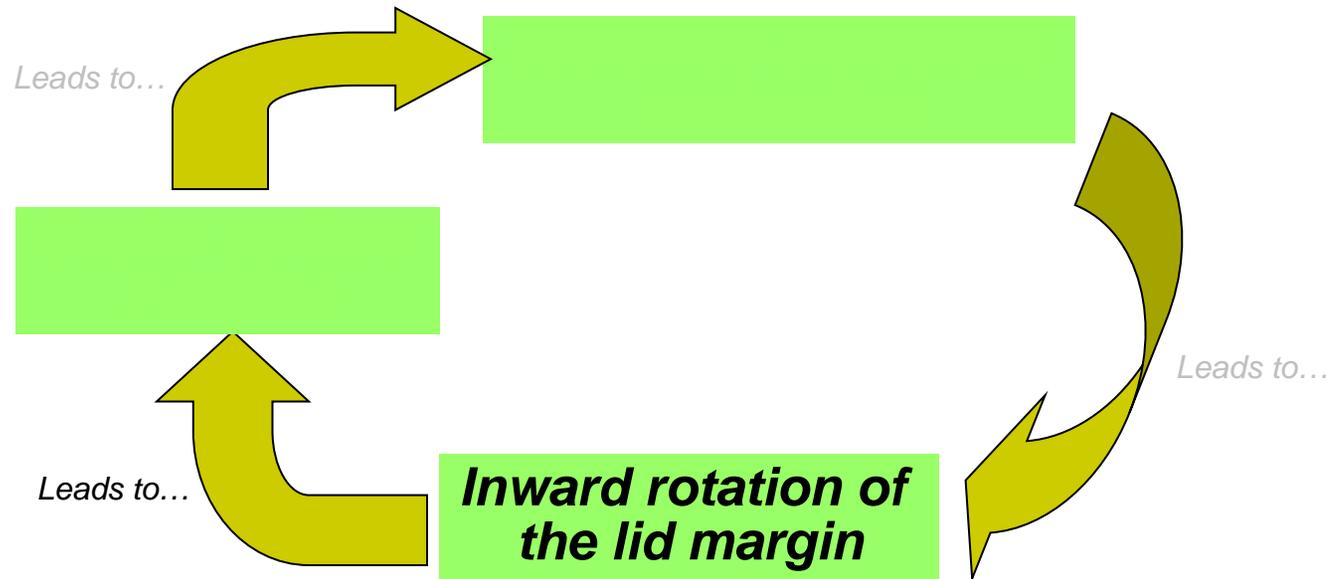




Spastic Entropion

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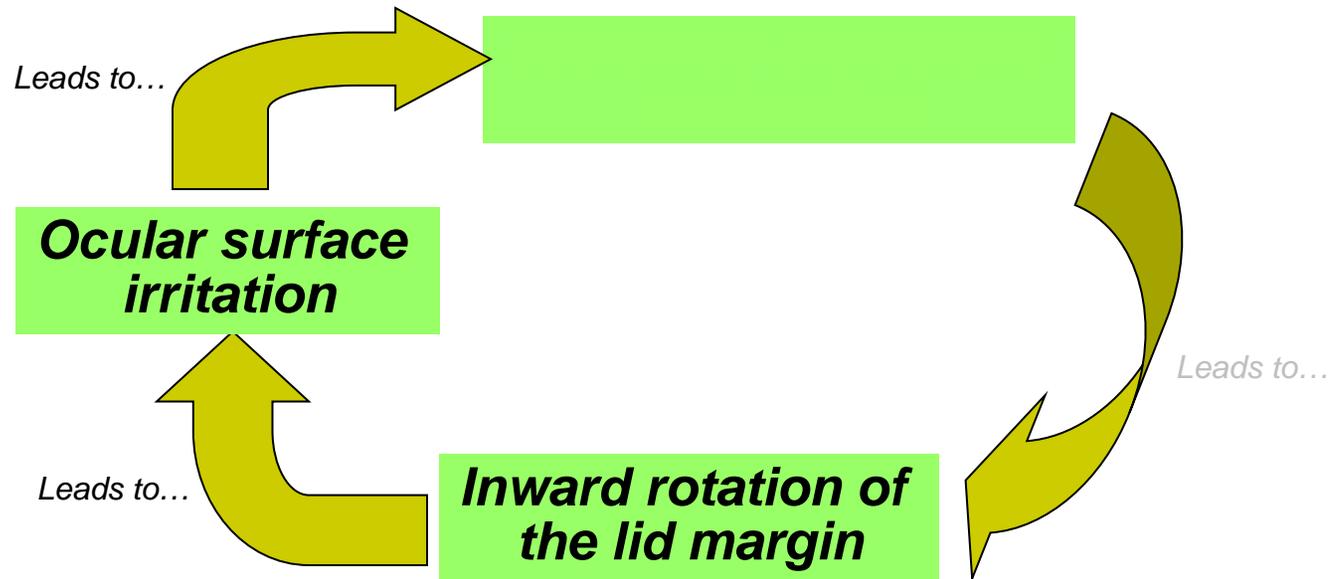




Spastic Entropion

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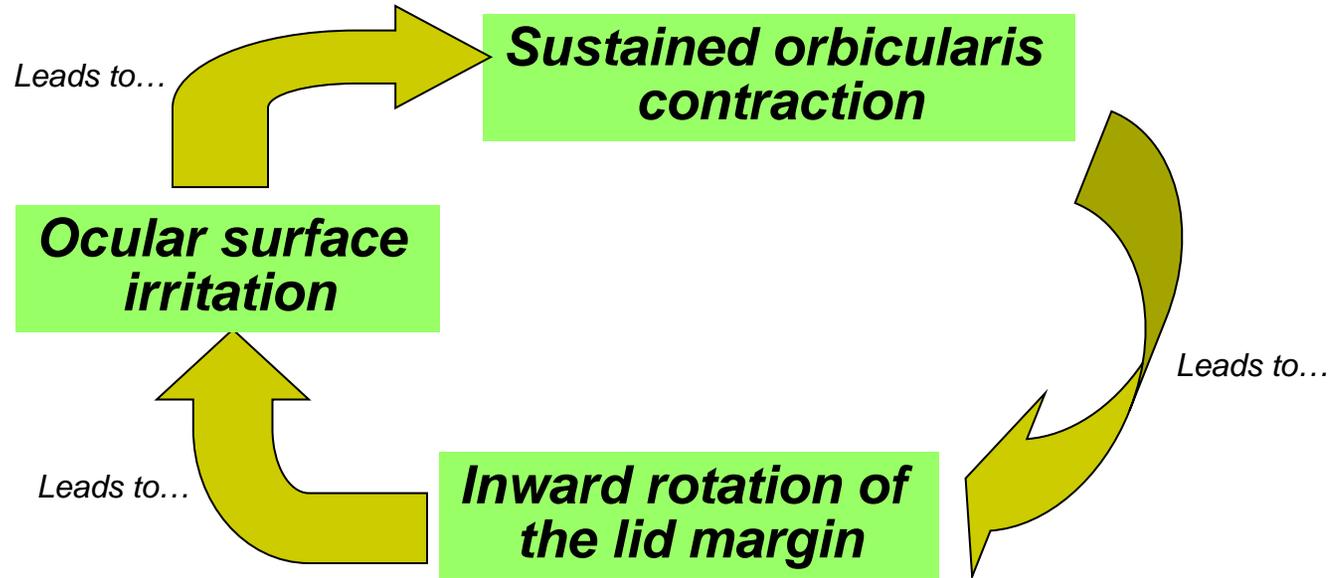




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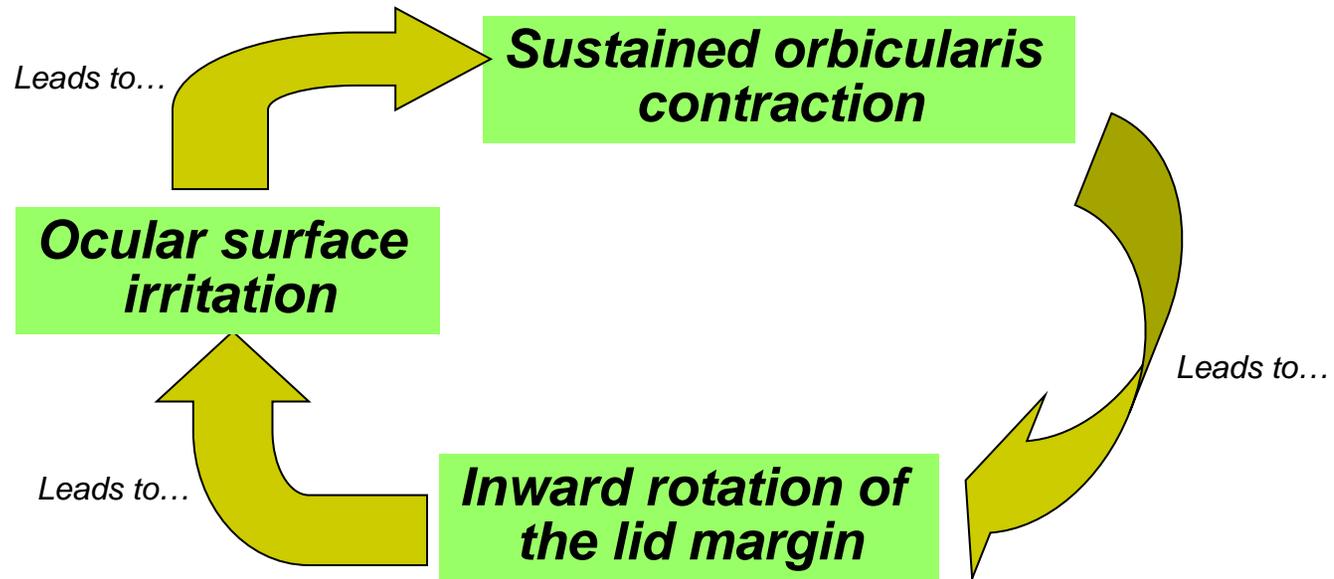




Spastic Entropion

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- Who is the classic spastic entropion pt?

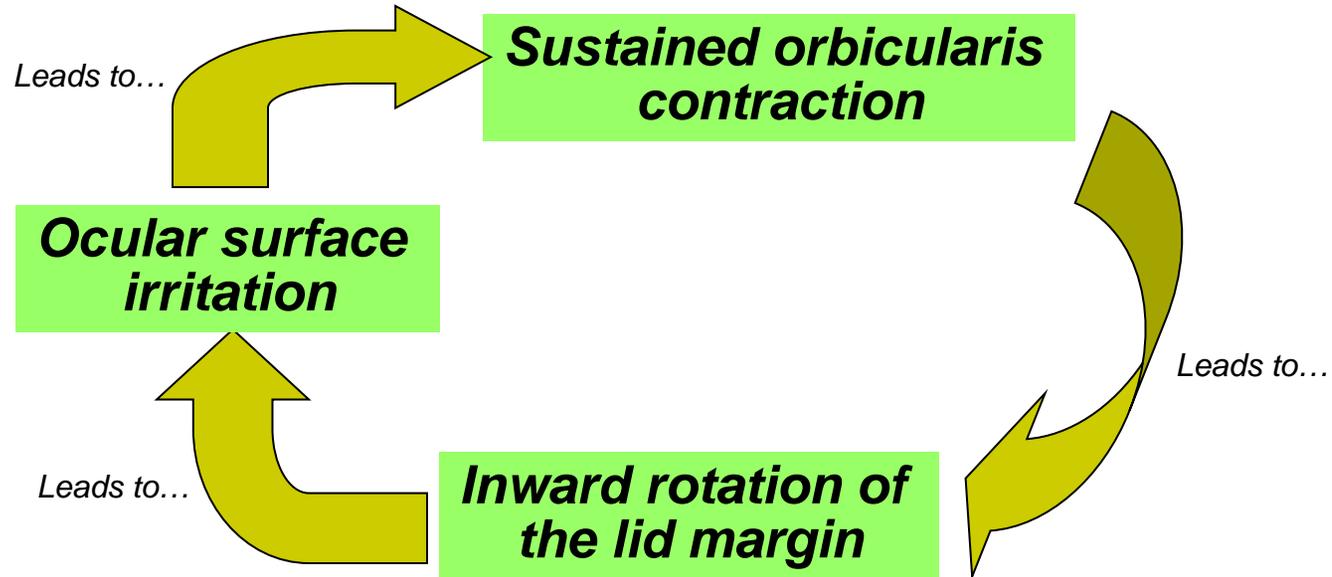




Spastic Entropion

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- Who is the classic spastic entropion pt?
An elderly individual s/p recent intraocular surgery

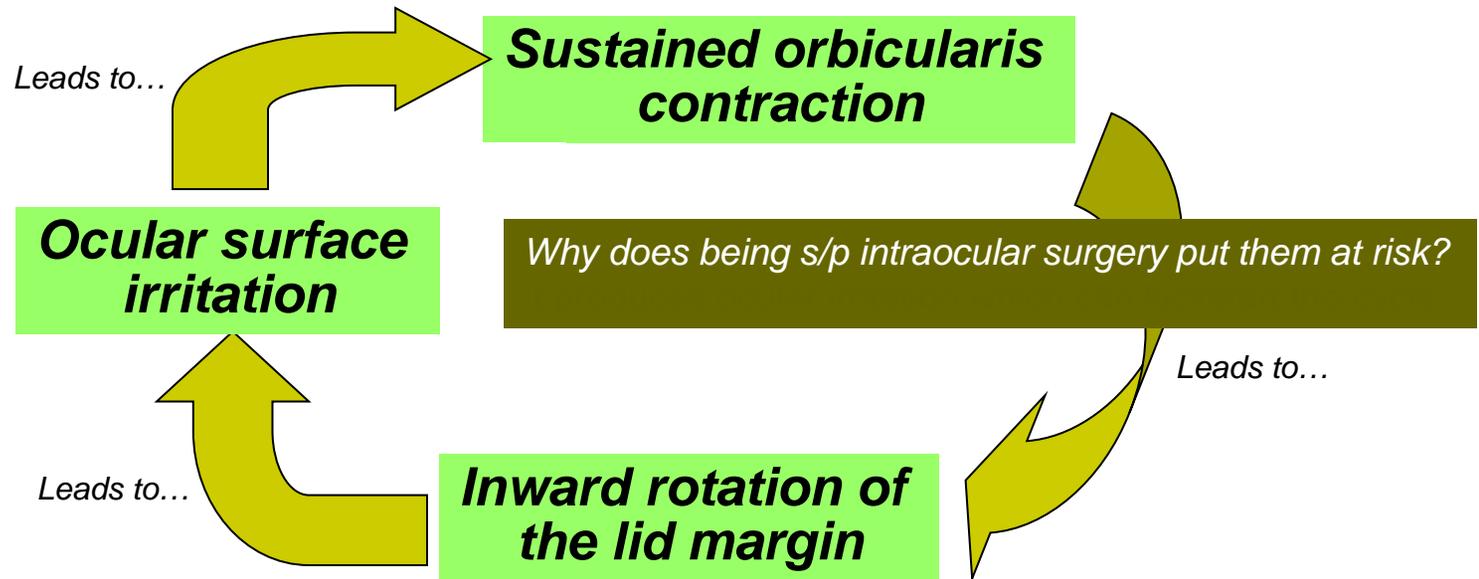




Spastic Entropion

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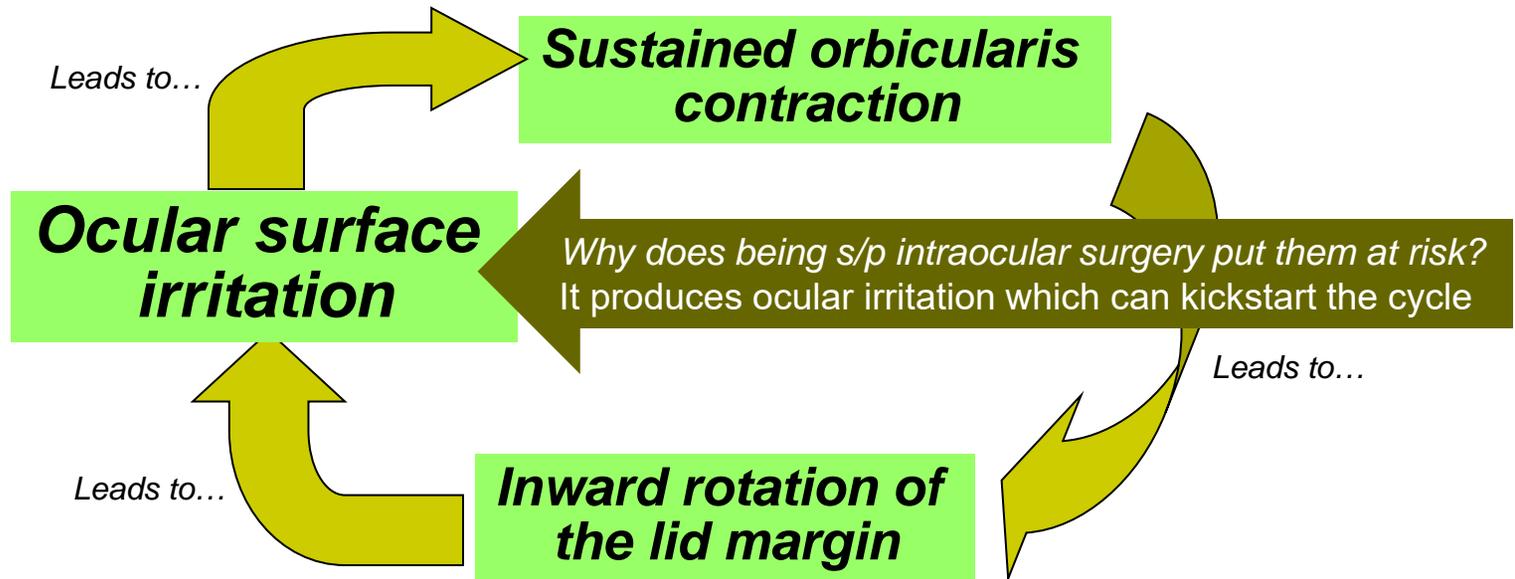




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Spastic Entropion



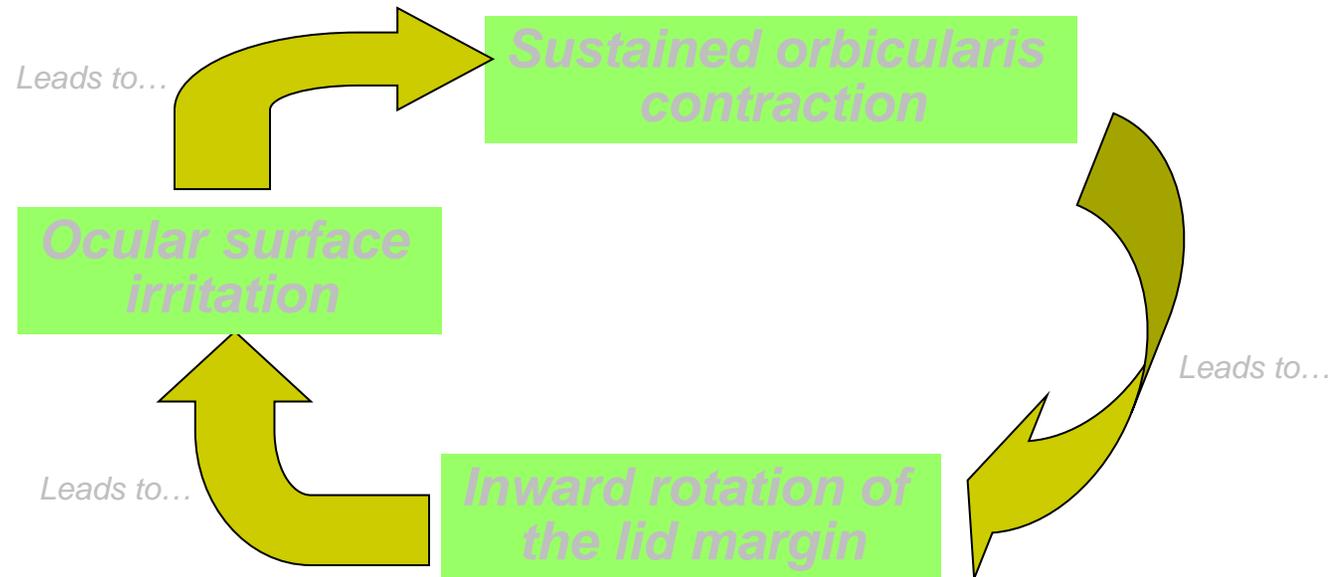
An interesting aside: Spastic entropion precipitated by a corneal ulcer



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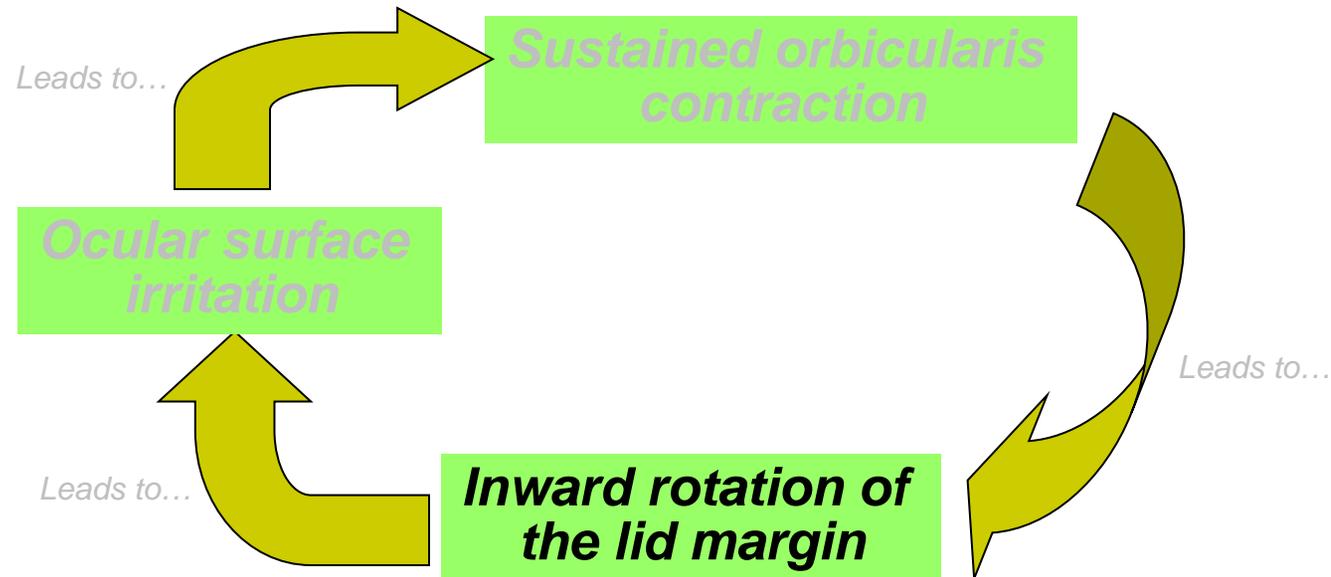
Why are the elderly predisposed to acute spastic entropion?



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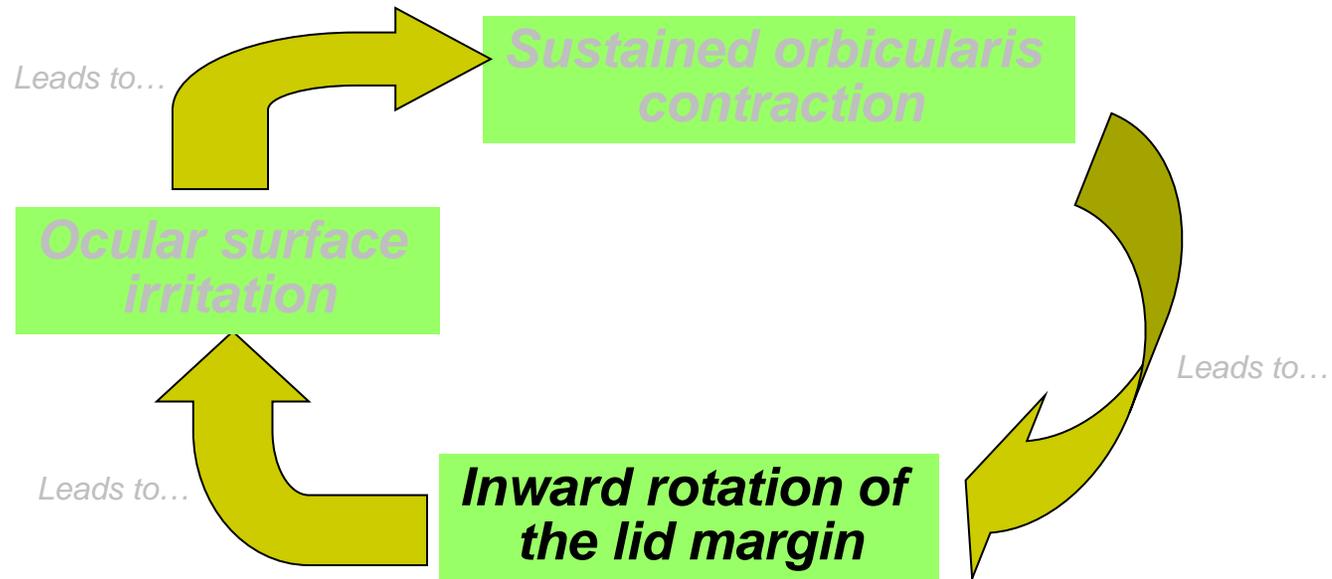
Because of the involutional changes that are inevitably present in these pts—changes that make possible the inturning of the lid margin



Spastic Entropion

Q

- Who is the classic spastic entropion pt?
An **elderly individual** s/p recent intraocular surgery



Why are the elderly predisposed to acute entropion?
 Because of the **involutional changes** in the lid margin that make possible the inturning

What are the involutional changes that place elderly pts at risk for spastic entropion?

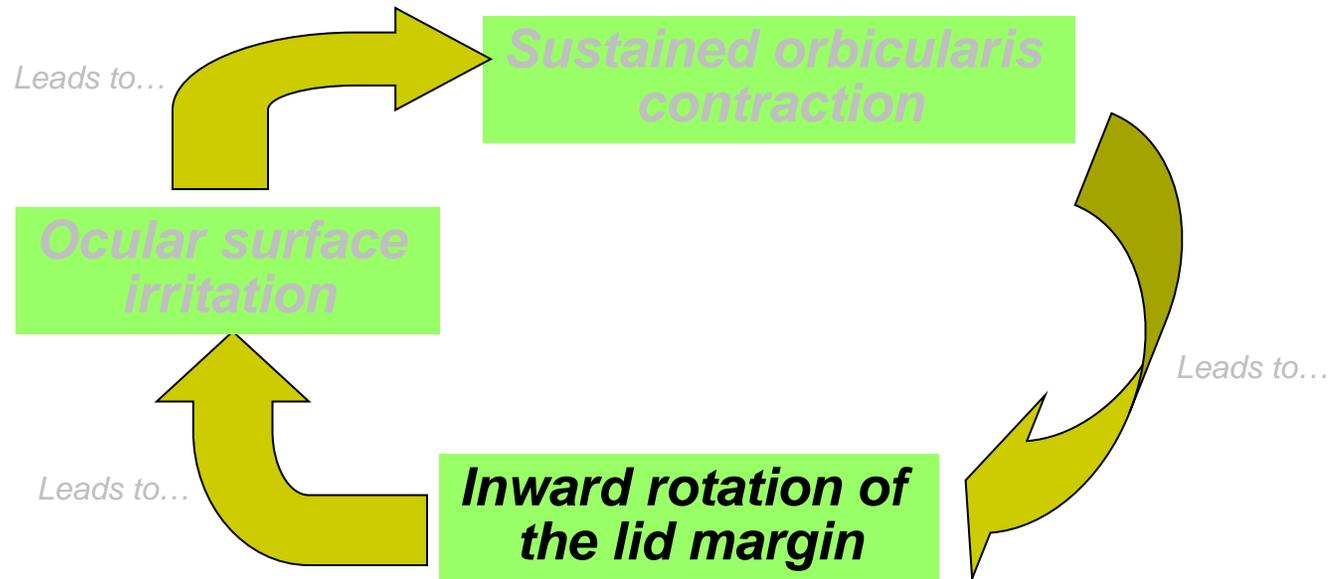
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Spastic Entropion

Q/A

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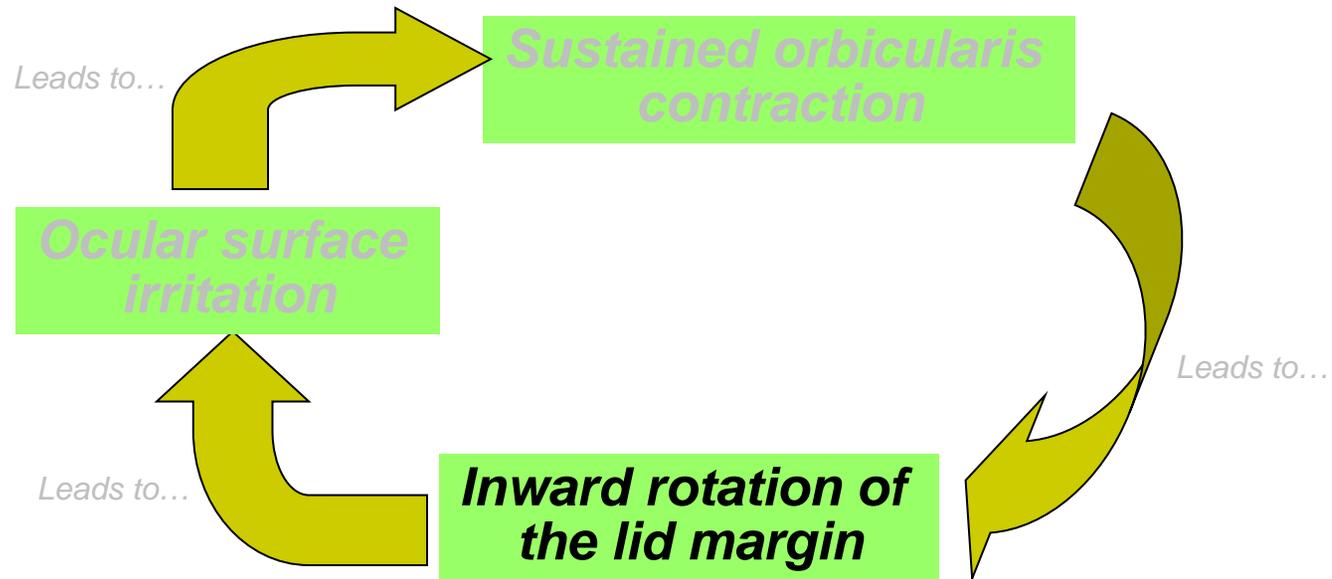
- Horizontal lid laxity
- Dis-insertion of the [two words] from the lower border of the tarsal plate
- [one word] due to age-related loss of orbital fat



Spastic Entropion

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- Horizontal lid laxity
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- Enophthalmos due to age-related loss of orbital fat



Spastic Entropion

- Who is the classic spastic entropion pt?
An **elderly individual** s/p recent intraocular surgery

Leads to... **Sustained orbicularis contraction**

For more on these involuntional changes and how they relate to lid malposition, see slide-set O6

Leads to... **Inward rotation of the lid margin**

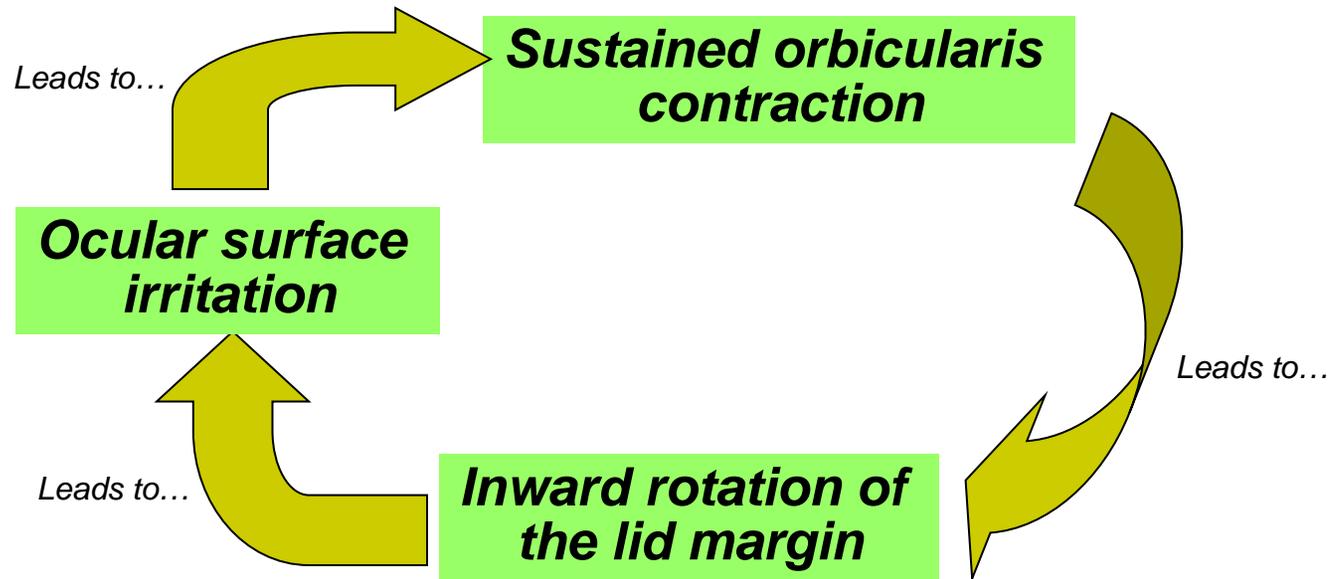
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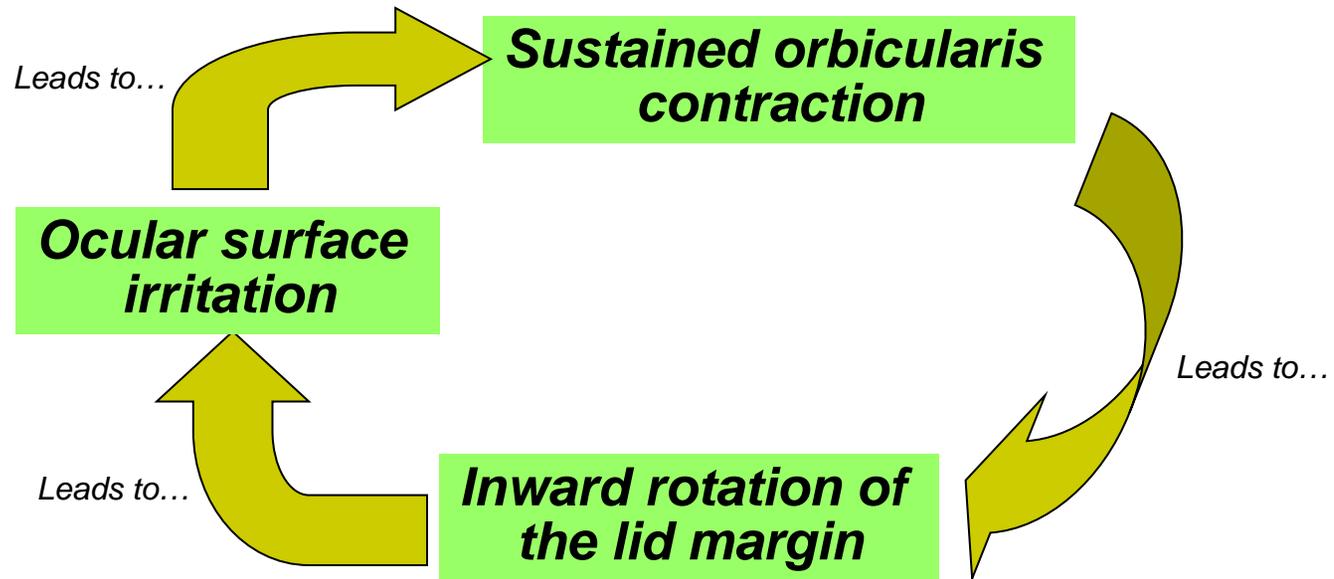
Spastic Entropion



To treat acute spastic entropion...



Spastic Entropion



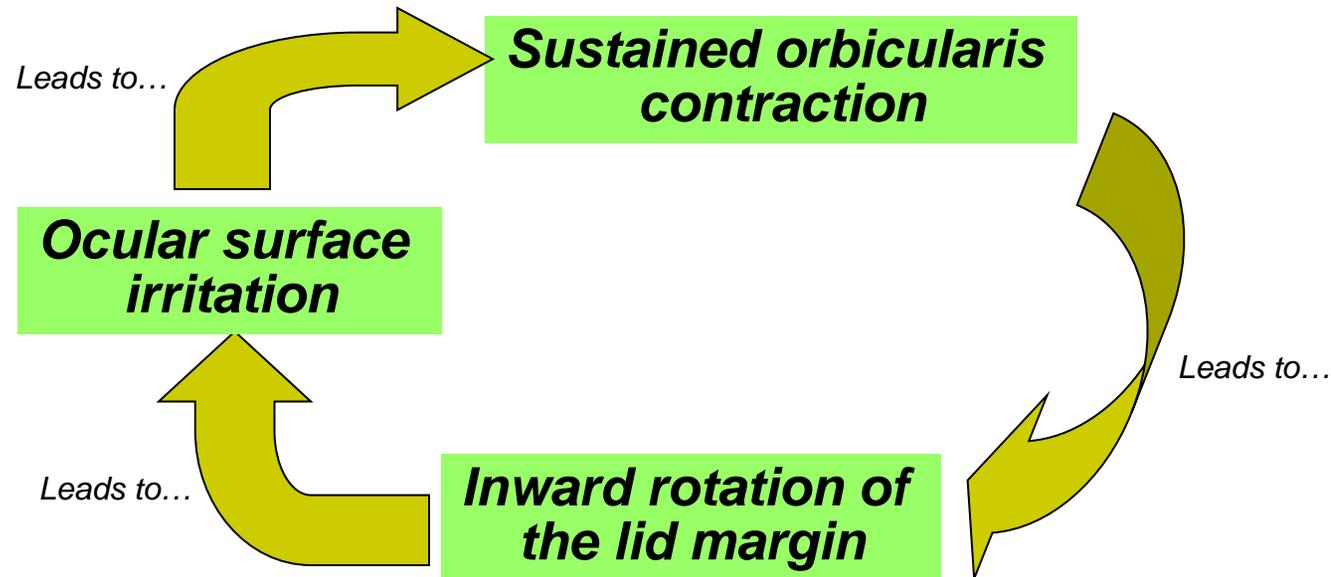
To treat acute spastic entropion... *Break the cycle!*



Spastic Entropion

Q

- What *nonsurgical* counter-rotation technique could you consider?

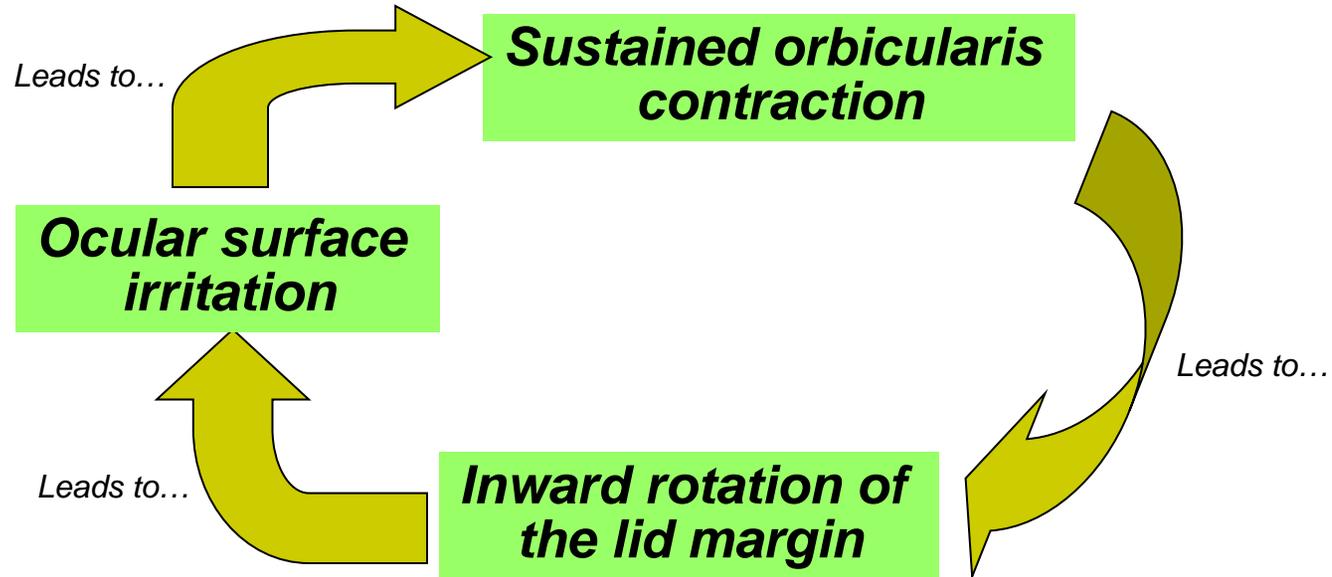




Spastic Entropion

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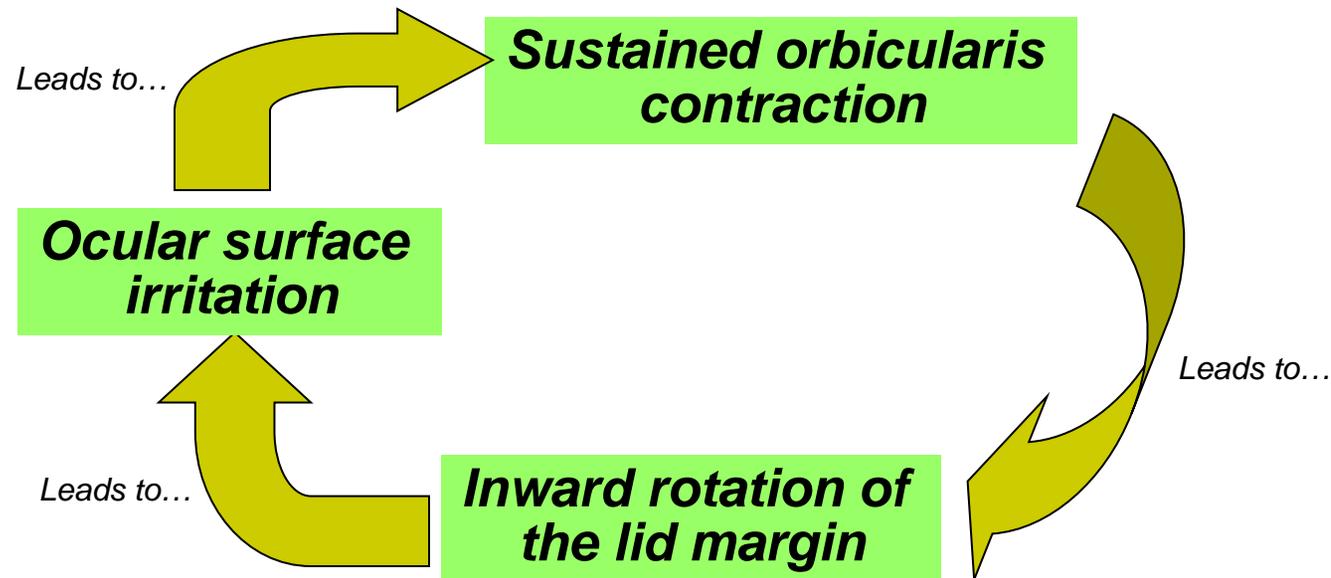




Spastic Entropion

Q

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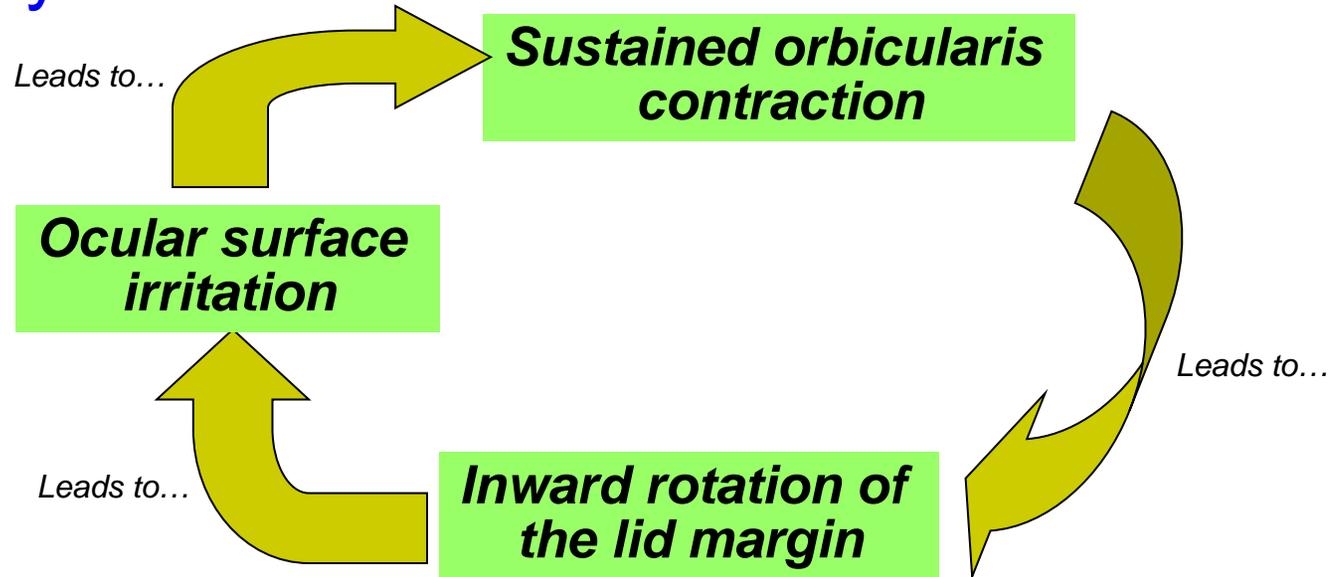




Spastic Entropion

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- What three **surgical** counter-rotation techniques could you consider? **Botox; Quickert sutures; cautery**

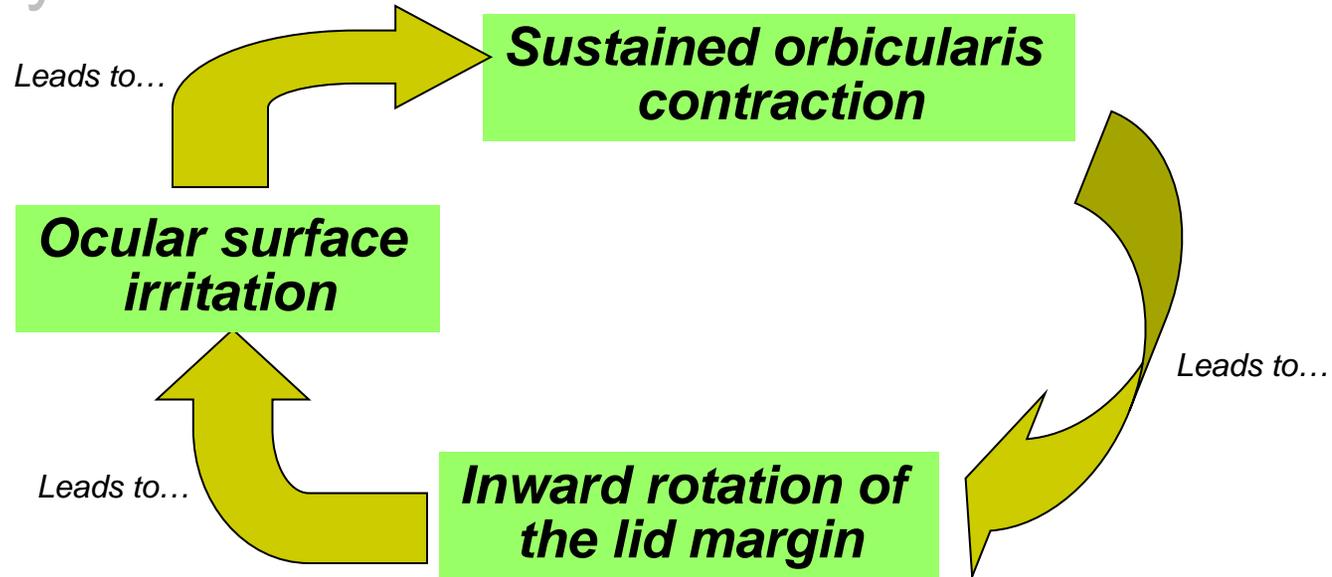




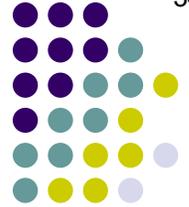
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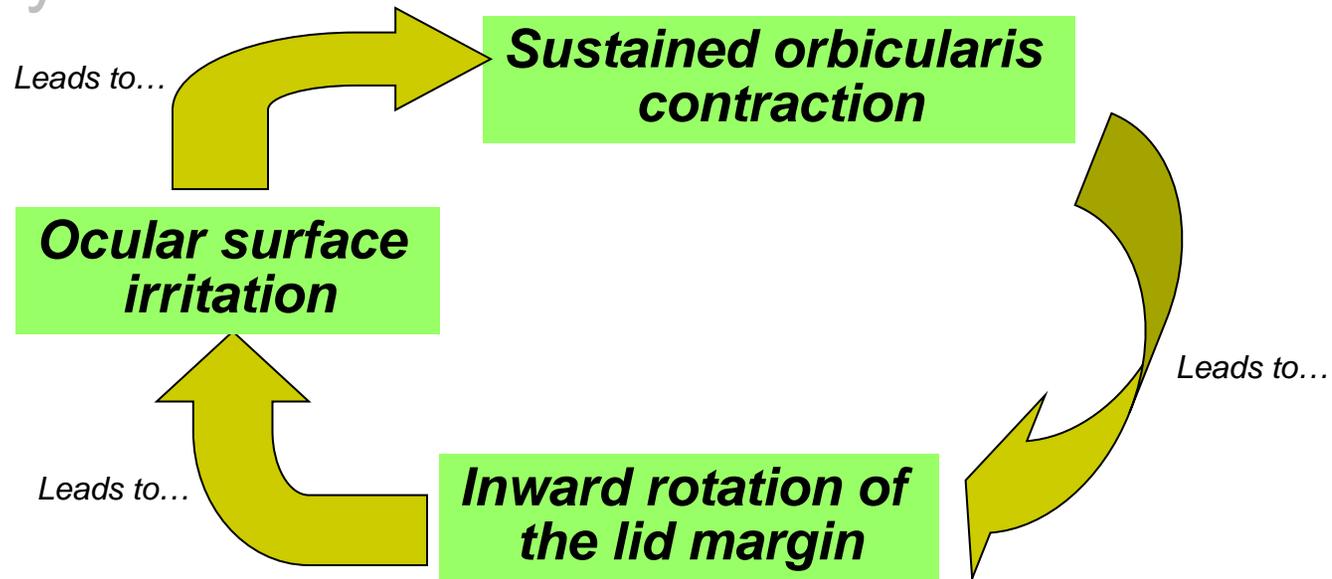
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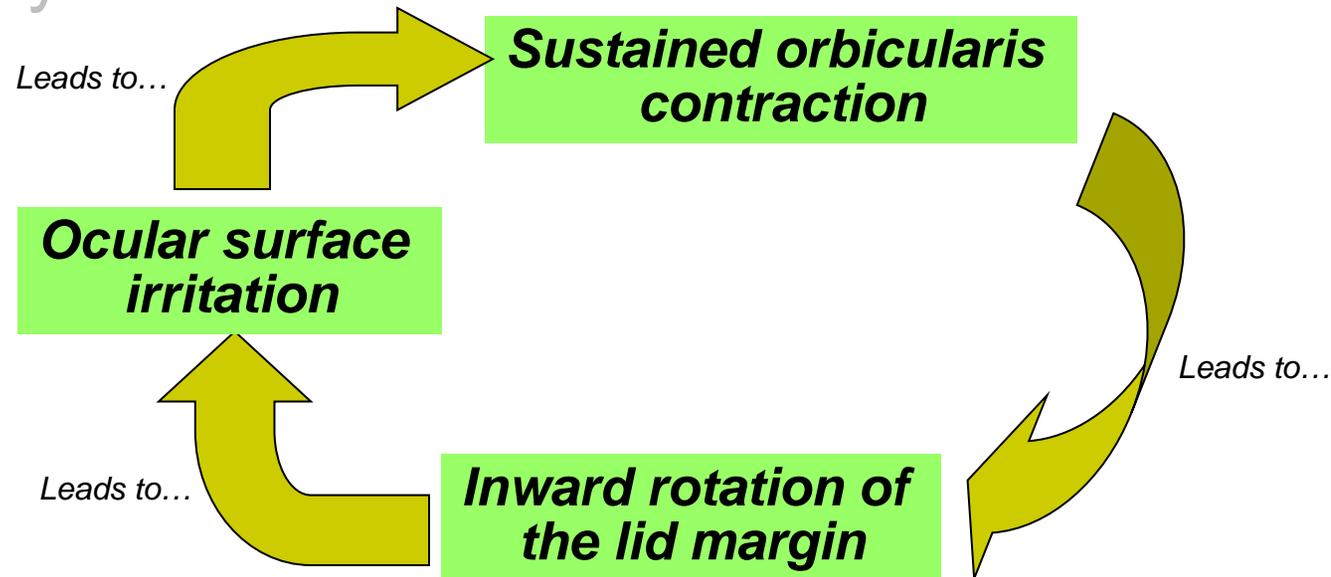
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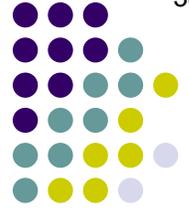
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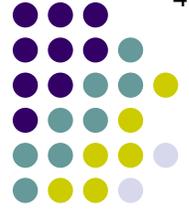
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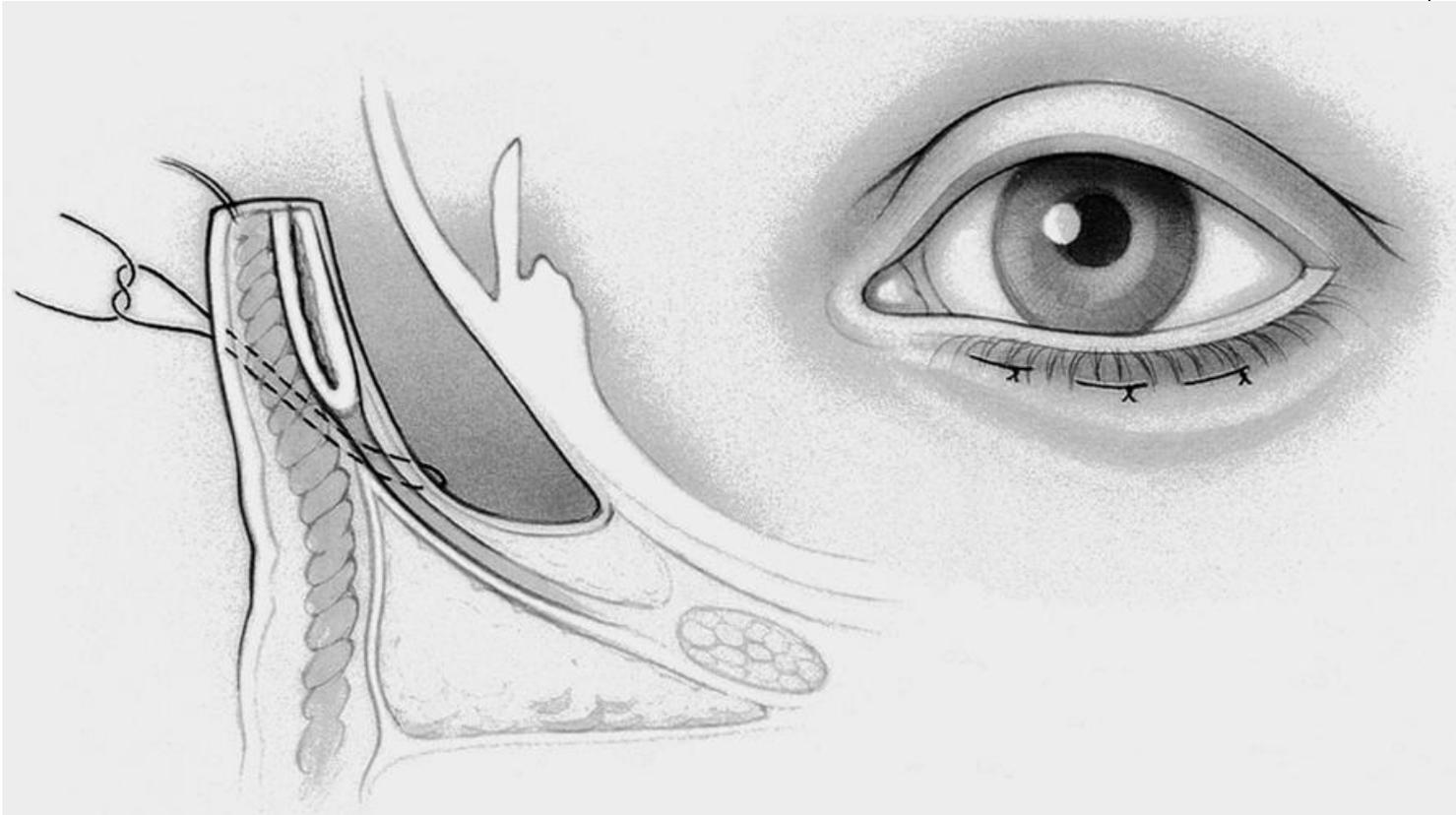
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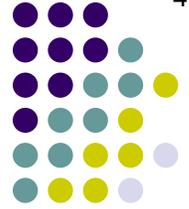
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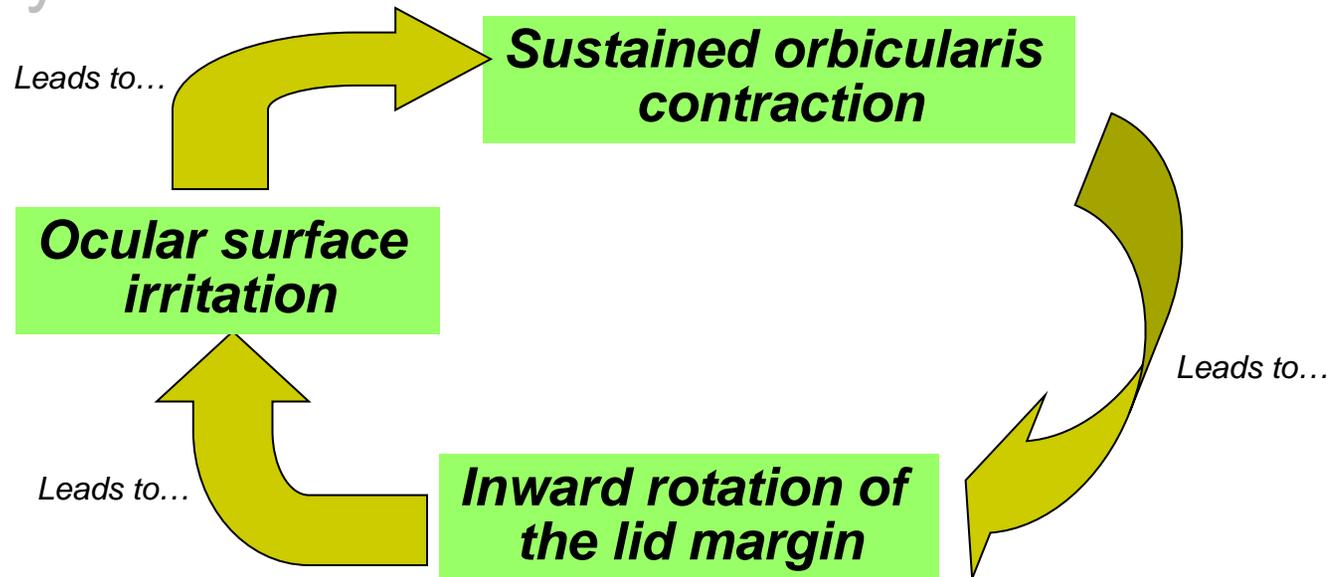
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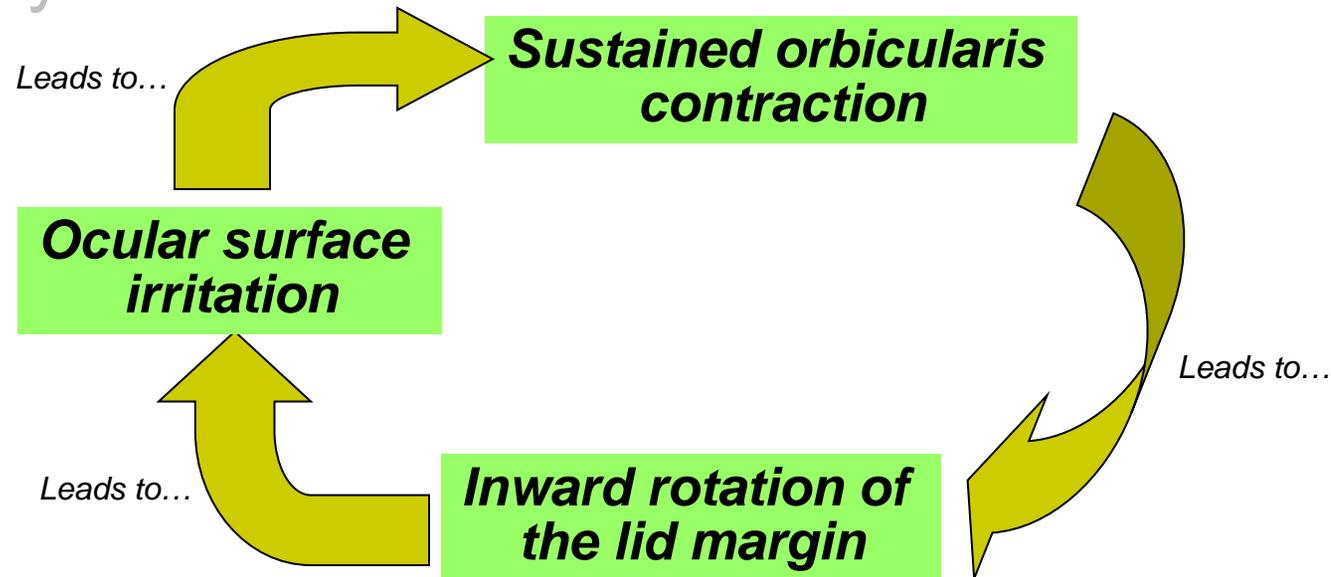
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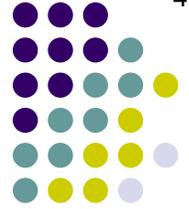
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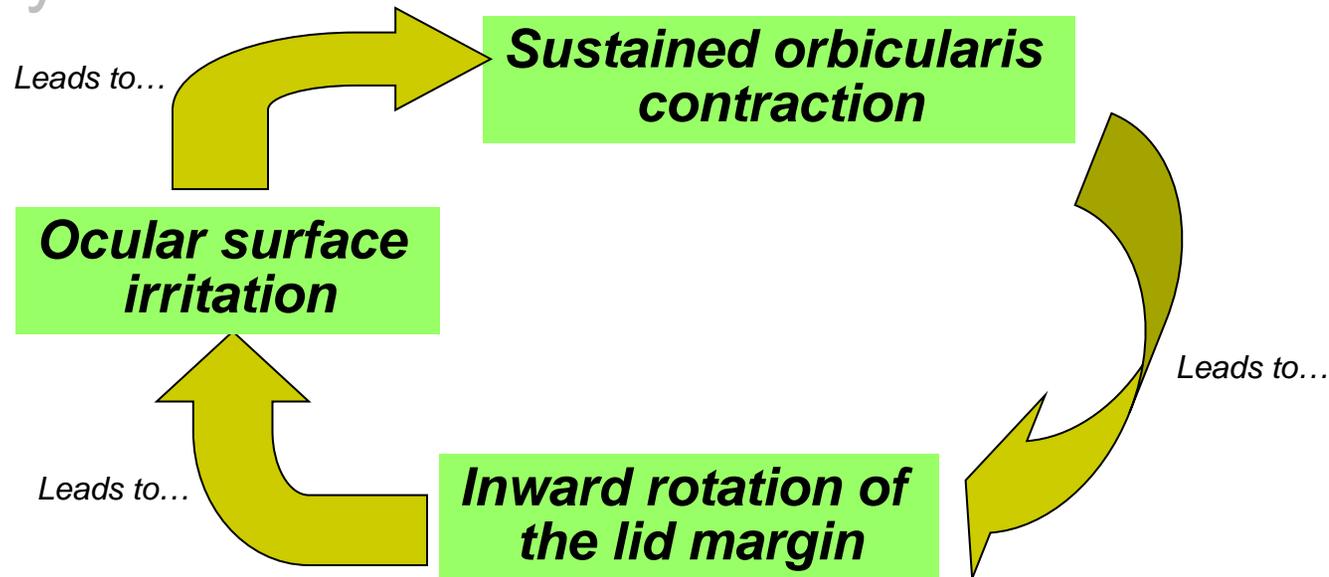
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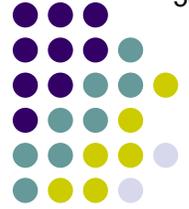
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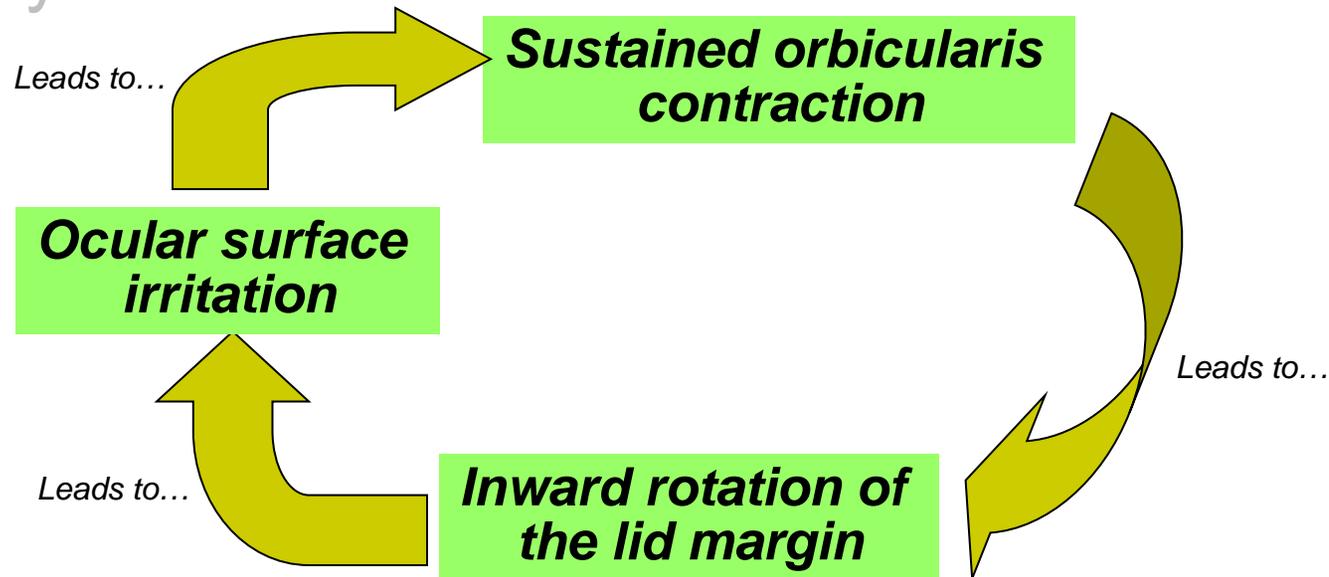
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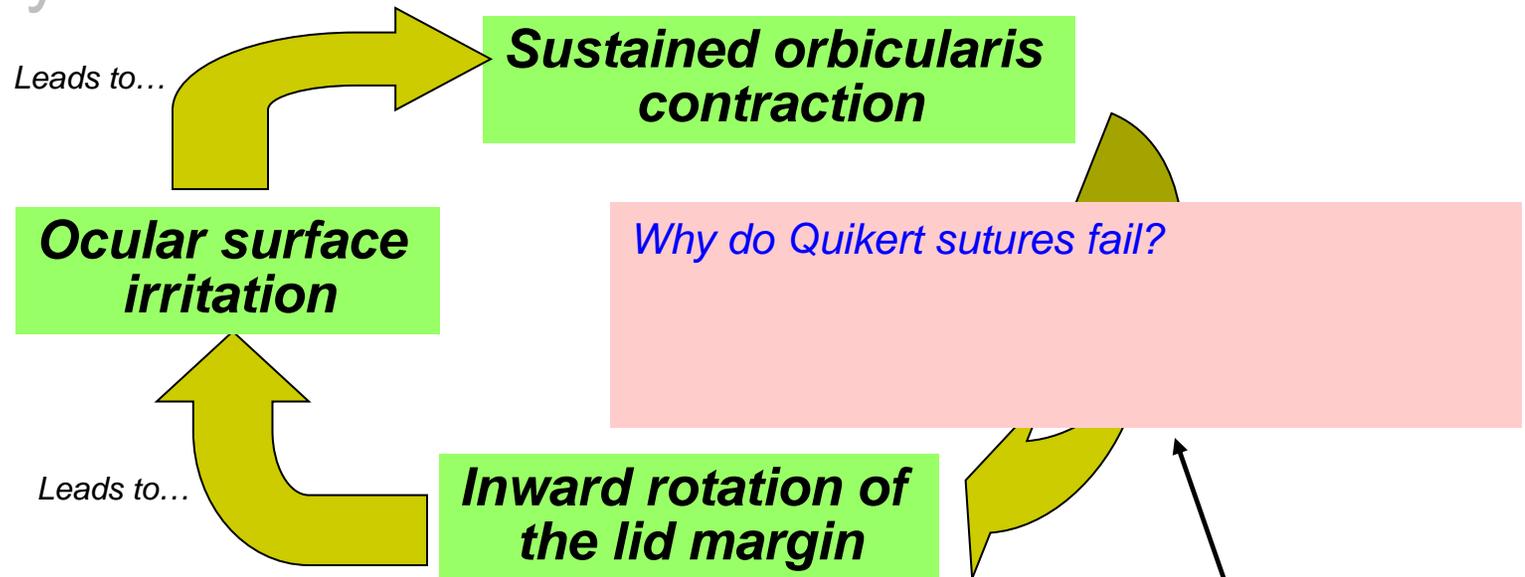
Does it have any drawbacks? Yes—it is a temporizing measure; it fails eventually



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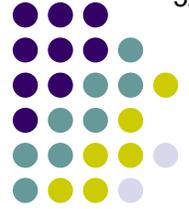
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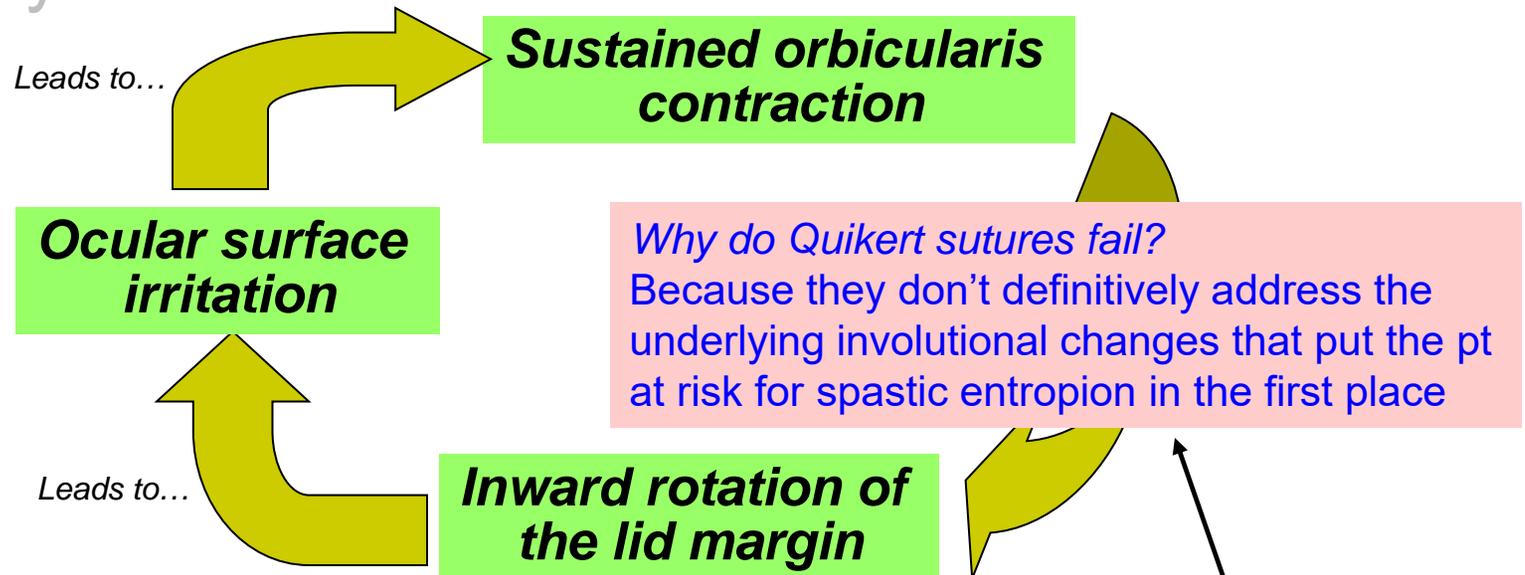
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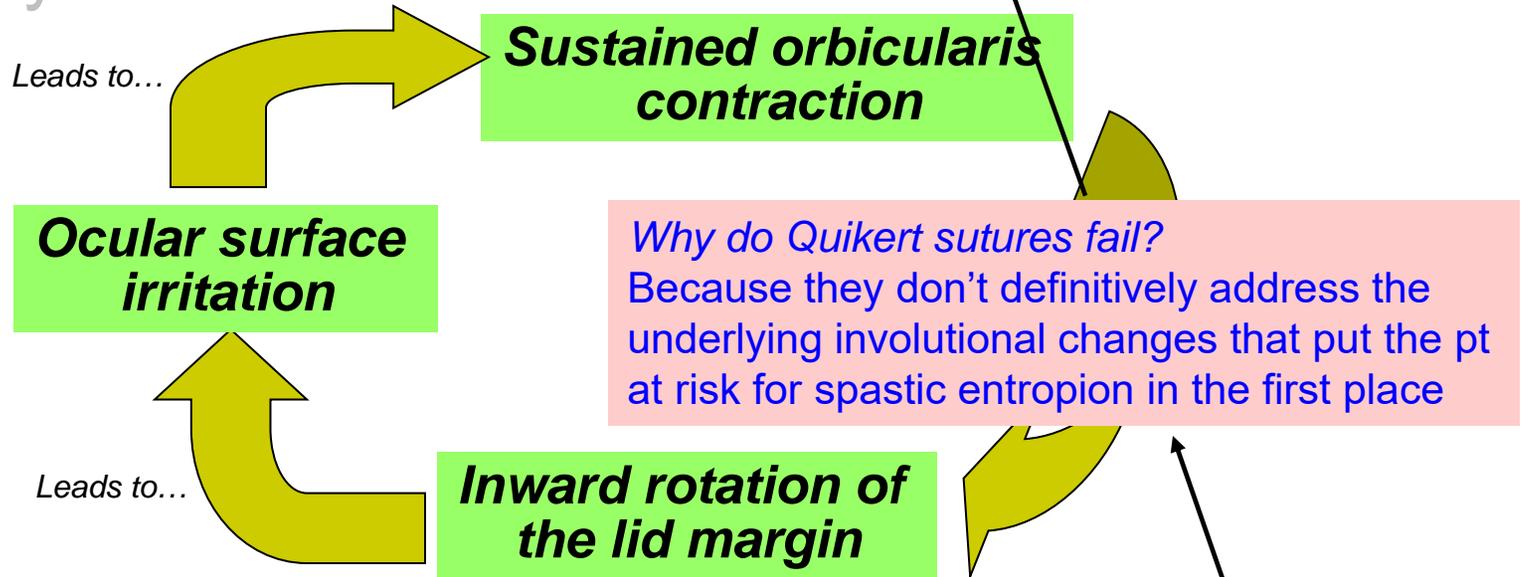
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Remind me again—what are the three involucional changes that put pts at risk?
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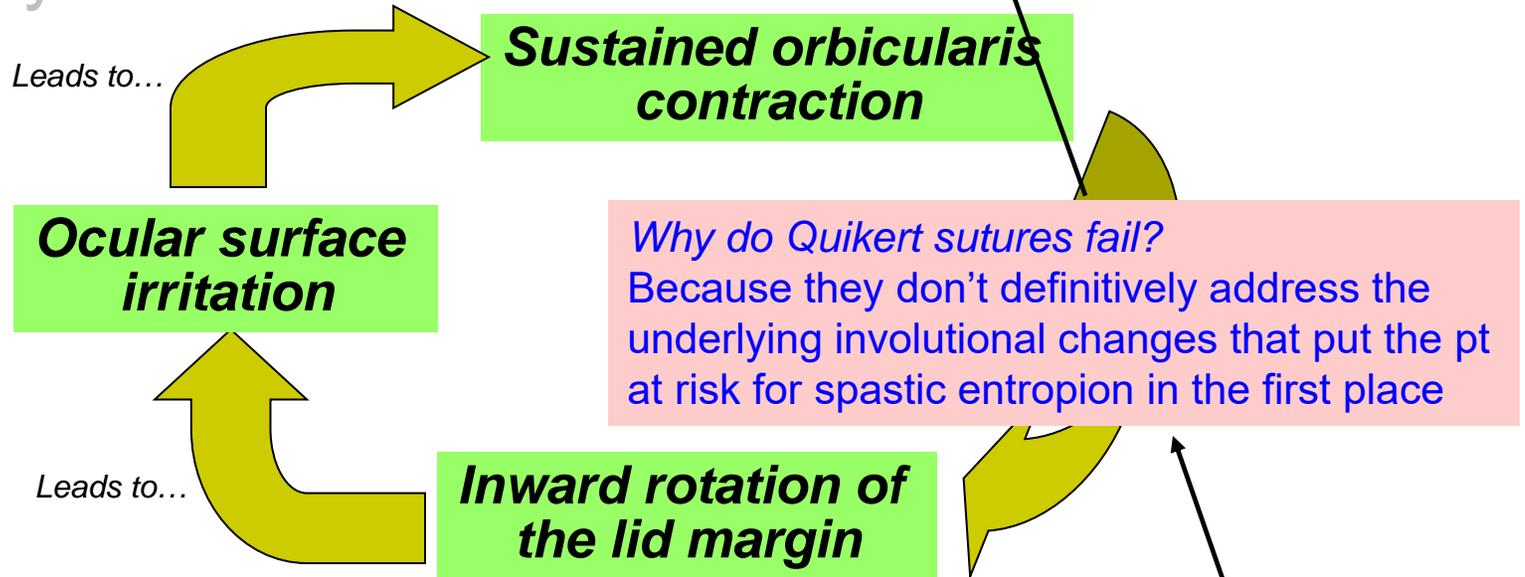


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- Dis-inserted retractors
- Enophthalmos due to age-related loss of orbital fat

- What three surgical counter-rotation techniques could you consider? Botox; Quickert sutures; cautery



In a nutshell, how does the Quickert procedure work? What does it do?

Quickert sutures re-insert the **lower-lid retractors** onto the **tarsal plate**

Does the Quickert procedure work well? Yes, very

Does it have any drawbacks? Yes—it is a temporizing measure

it fails eventually

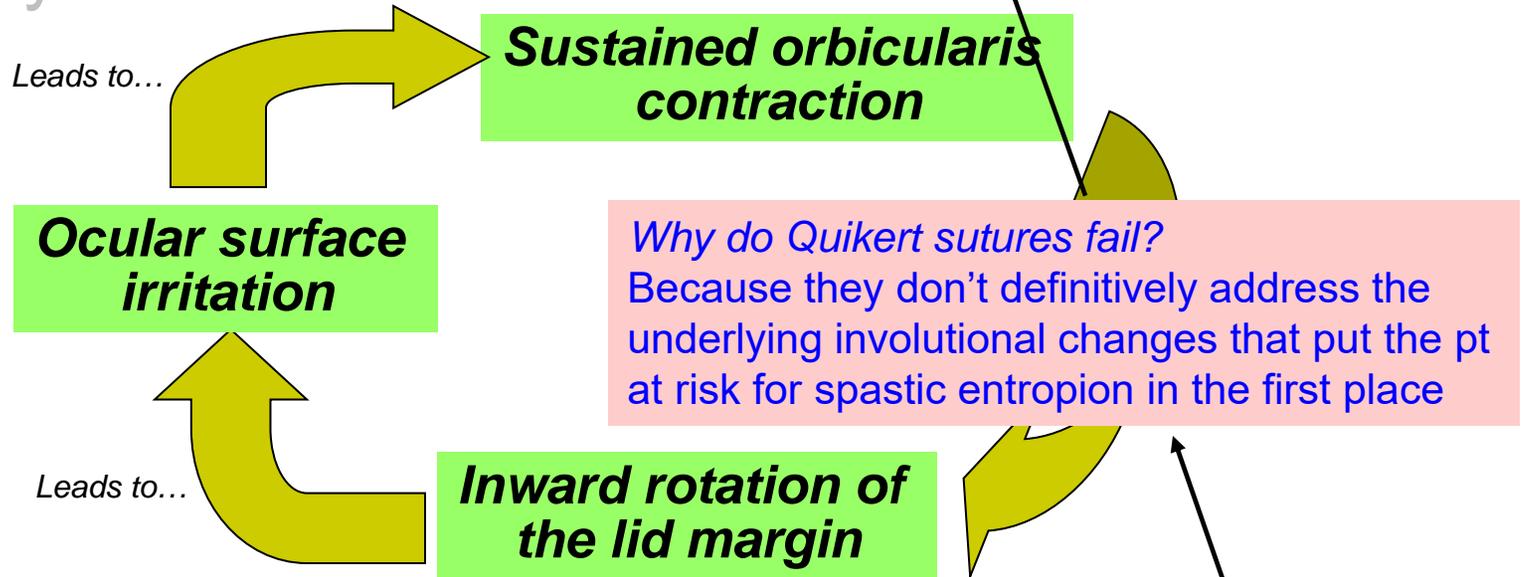


Q

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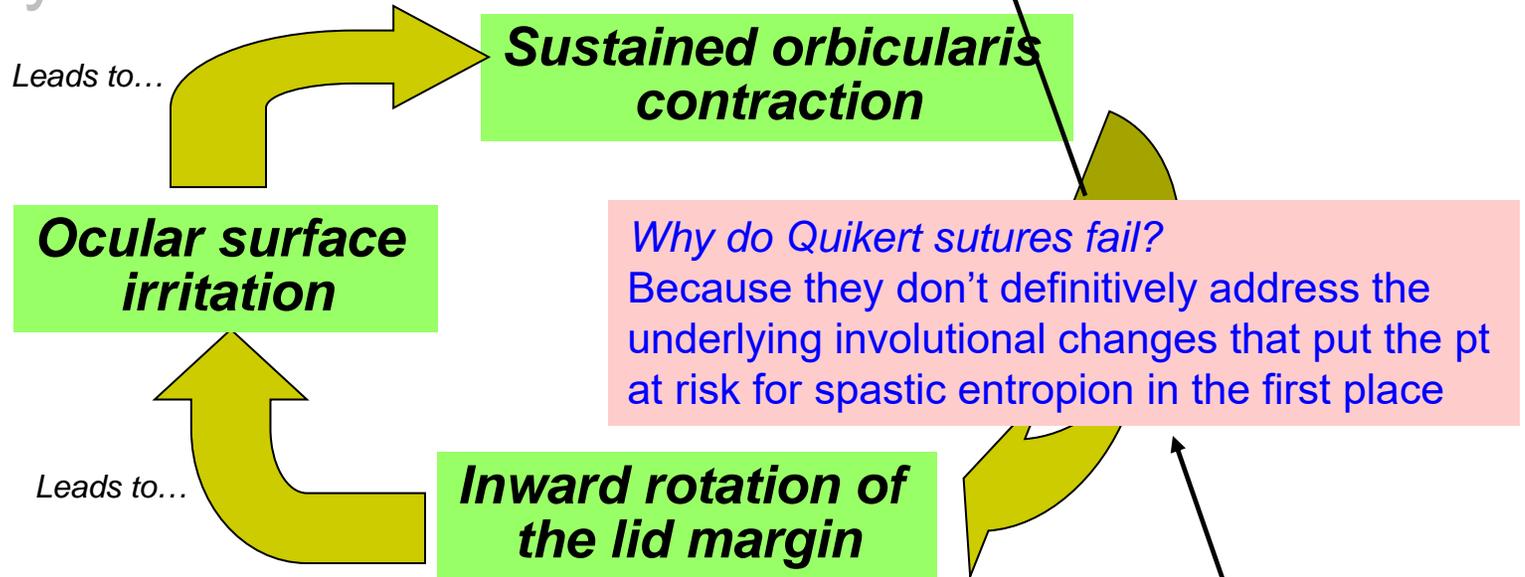


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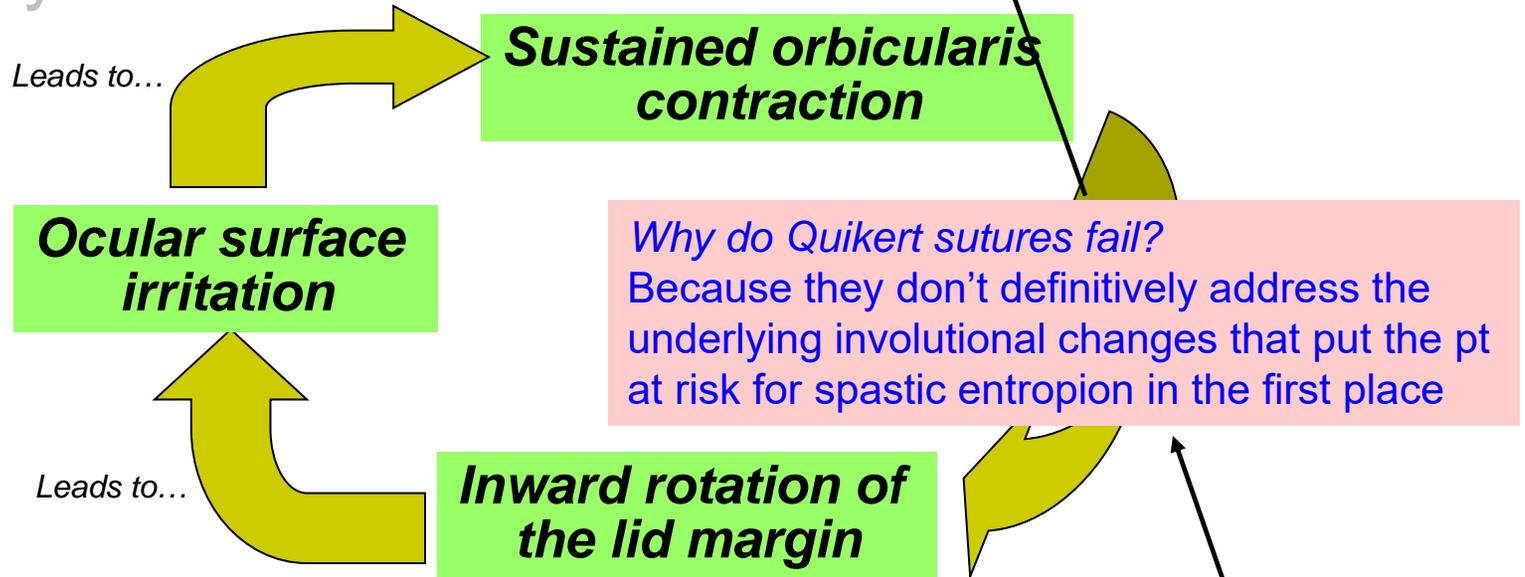
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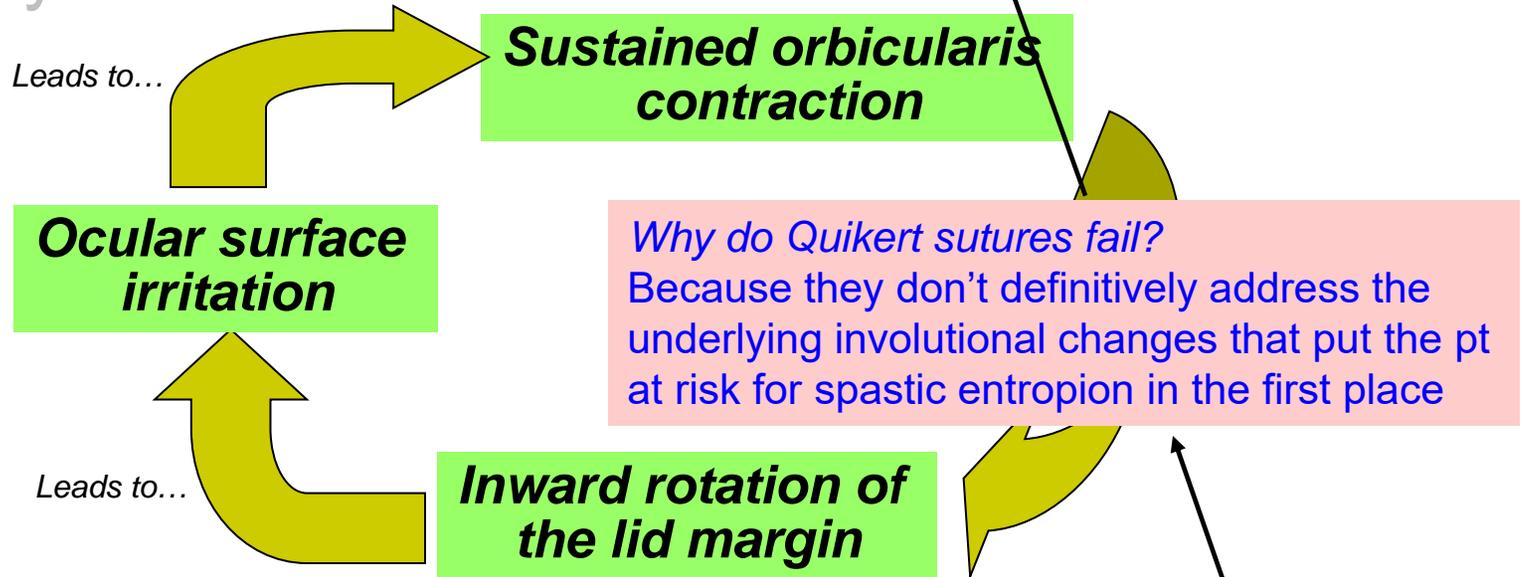
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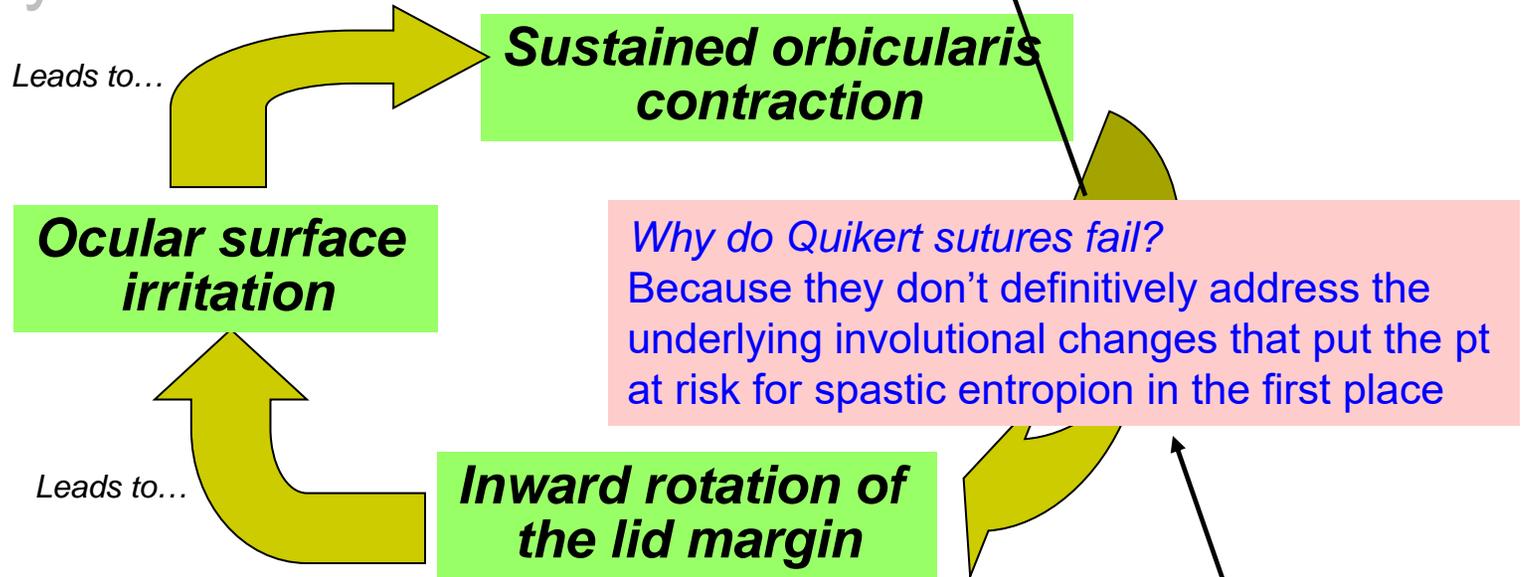


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- Enophthalmos due to age-related loss of orbital fat: ?

- What three surgical counter-rotation techniques could you consider? Botox; Quikert sutures; cautery



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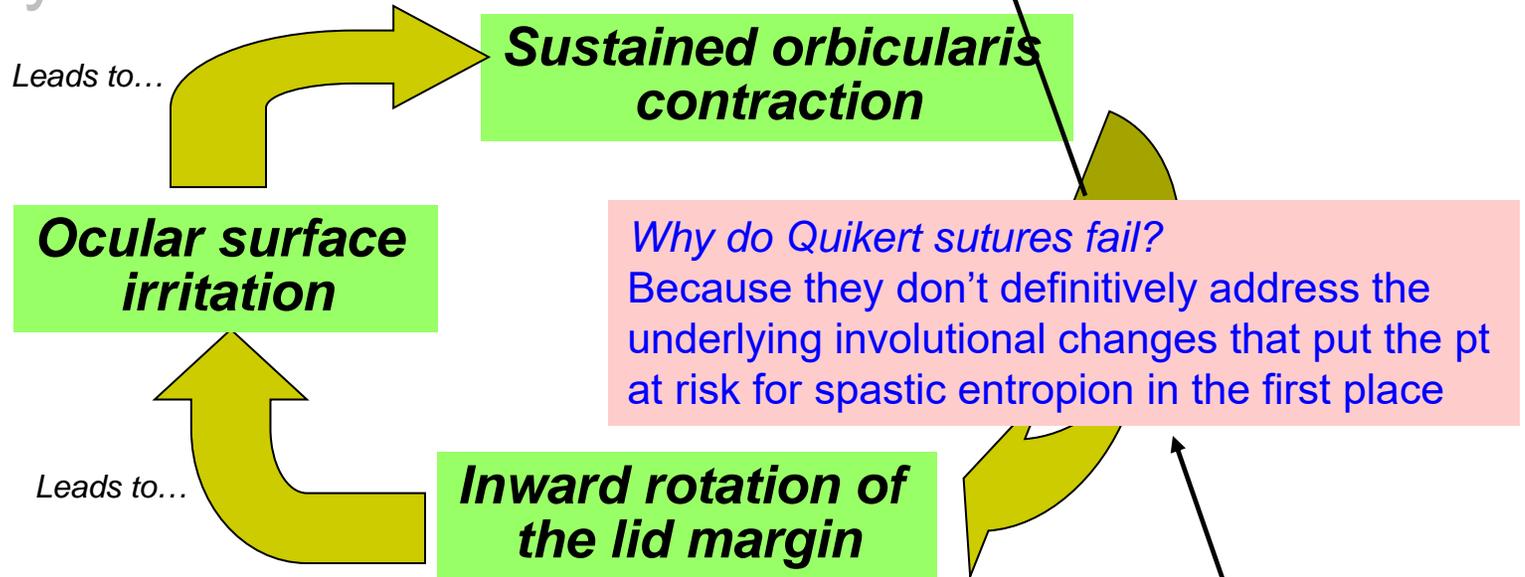


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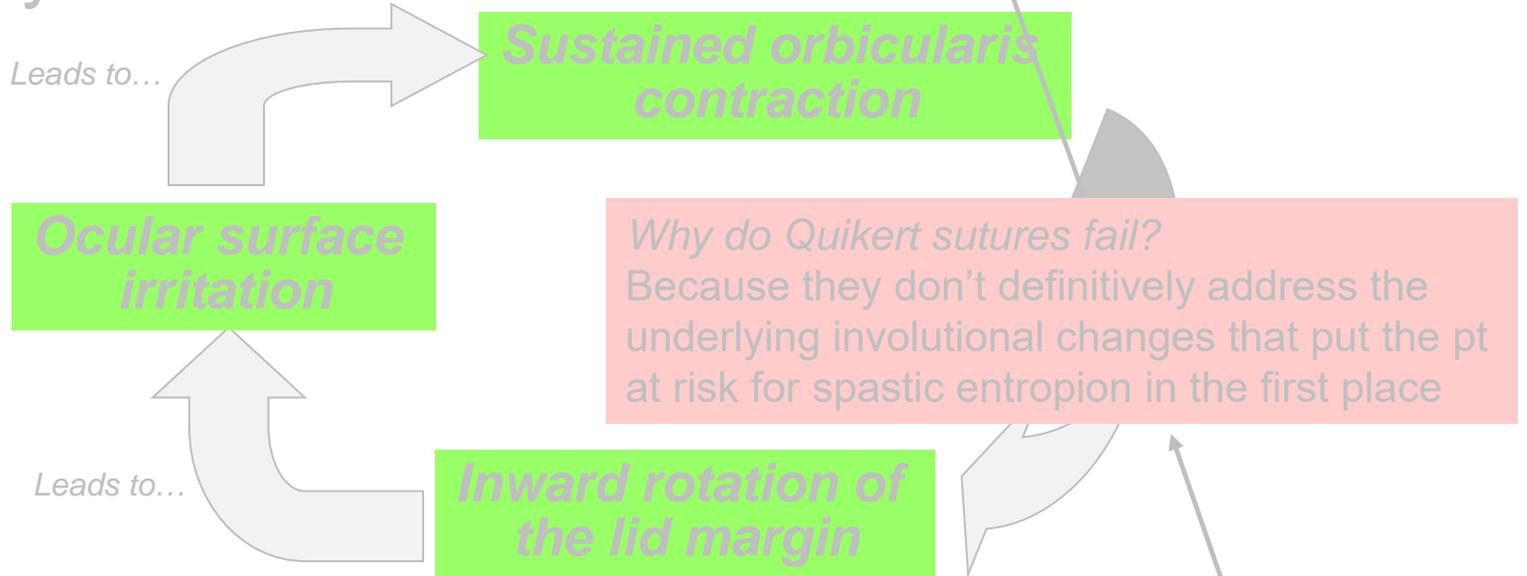


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Let's take a closer look at these interventions



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Q

Spastic Entropion

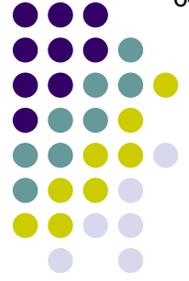
- Many surgical approaches to involutional lid changes have been developed. However, the most effective approaches address the same two therapeutic goals:
 - 1)
 - 2)



Q/A

Spastic Entropion

- Many surgical approaches to involutional lid changes have been developed. However, the most effective approaches address the same two therapeutic goals:
 - 1) surgical maneuver to address laxity
 - 2)



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Spastic Entropion

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 - 1) **Horizontal lid tightening** to address laxity
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Q

Spastic Entropion

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This is usually accomplished with a three words procedure



A

Spastic Entropion

- Many surgical approaches to involutional lid changes have been developed. However, the most effective approaches address the same two therapeutic goals:

1) **Horizontal lid tightening** to address laxity

2)

This is usually accomplished with a **lateral tarsal strip** procedure



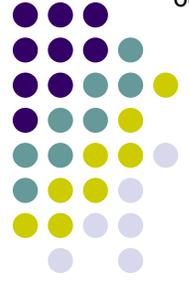
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Briefly, how is the lateral tarsal strip procedure performed?

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Briefly, how is the lateral tarsal strip procedure performed?

A lateral canthotomy/inferior cantholysis is performed, and the lateral aspect of the tarsus is exposed by removing from it the anterior and posterior lid lamellae, as well as the mucocutaneous junction at the lid margin.

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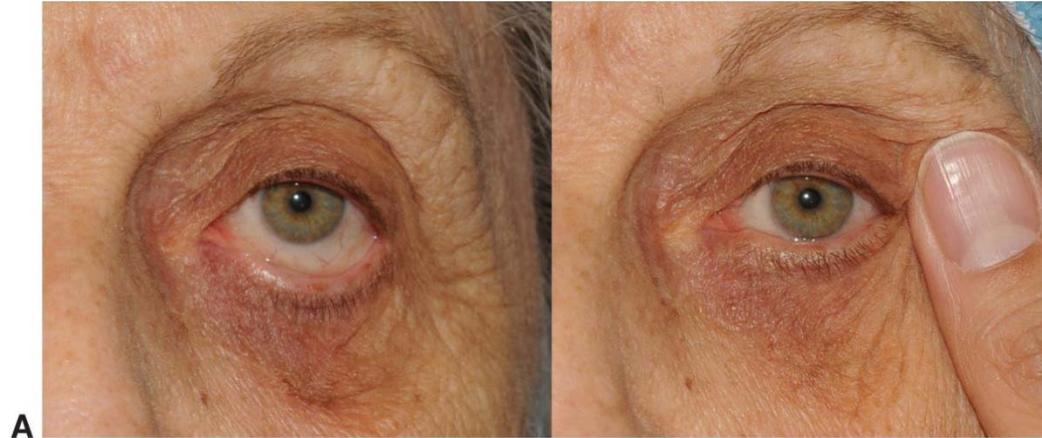
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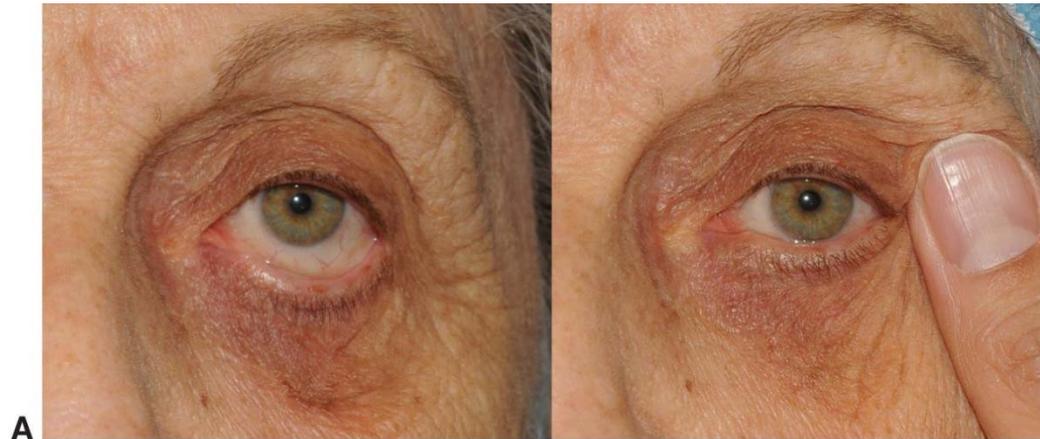
Spastic Entropion



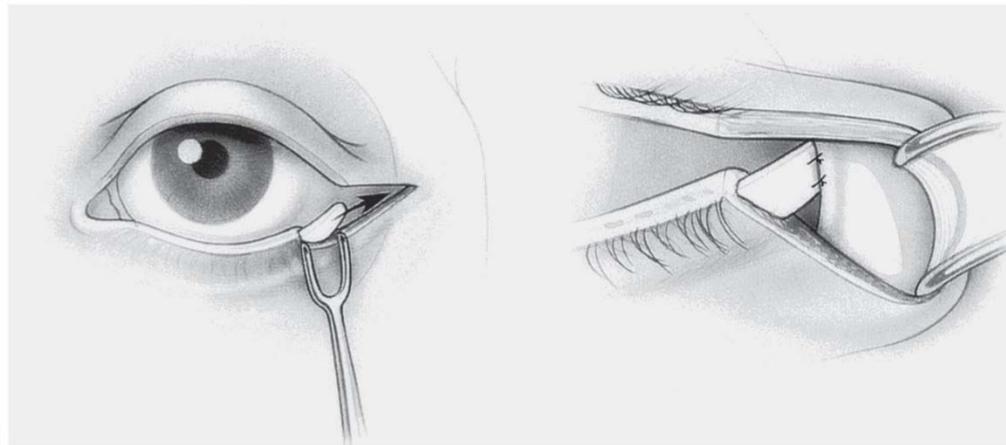
Lateral tarsal strip procedure. A, Lateral stretching of the eyelid demonstrates the potential of lower lid tightening. (Note: The is pt has *ectropion*, not entropion.)



Spastic Entropion



A



B

Lateral tarsal strip procedure. **A**, Lateral stretching of the eyelid demonstrates the potential of lower lid tightening. (Note: The is pt has *ectropion*, not entropion.)
B, Lateral tarsal strip procedure: anchoring of tarsal strip to periosteum inside the lateral orbital rim.



Spastic Entropion

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This is a concept we haven't addressed previously. What's with the idea of 'lid lamellae'?

This is u



A

Spastic Entropion

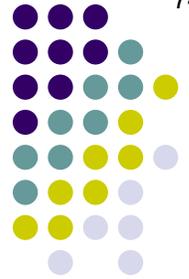
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What structures comprise each lamella?

Anterior:

Posterior:



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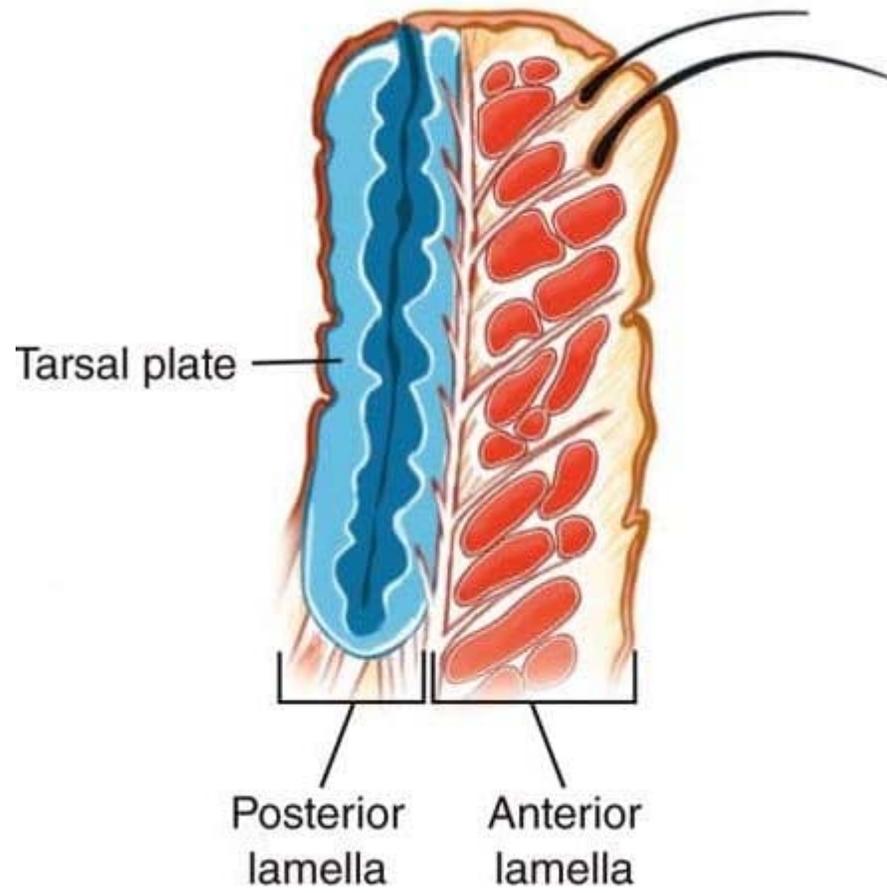
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Spastic Entropion



Eyelid lamellae



Q

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Posterior: Tarsal plate and conjunctiva

What comprises the dividing line between the two lamellae?



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What comprises the dividing line between the two lamellae?

The muscle of Riolan/gray line



Spastic Entropion

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Briefly, how is the lateral tarsal strip procedure performed?

As an important aside: Does the eyelid possess a middle lamella?

Middle lamella?

What structures comprise each lamella?

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Yes--both upper and lower lids are conceptualized as possessing a middle lamella

Middle lamella!

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However, the middle lamellae are composed of structures only found beyond the non-marginal edge of the tarsal plate (ie, superior to the upper plate, and inferior to the lower).

Middle lamella!

What structures comprise each lamella?

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Thus, **at the location of the tarsal plate** (as discussed here), there is no middle lamella.

Middle lamella!

What structures comprise each lamella?

Anterior: Skin and orbicularis muscle

Posterior: Tarsal plate and conjunctiva

What comprises the dividing line between the two lamellae?

The muscle of Riolan/gray line