

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



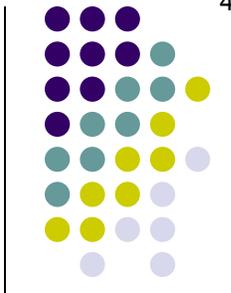
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What does the term **Ectropion** mean?
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Q

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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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

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Cicatricial

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Mechanical

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Acute Spastic

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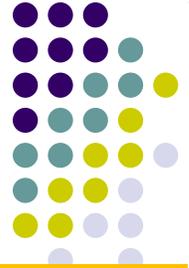
Acute Spastic

Ectropion



Q

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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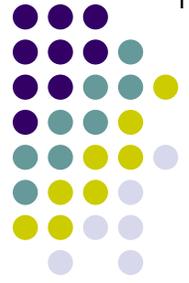
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Spastic Entropion

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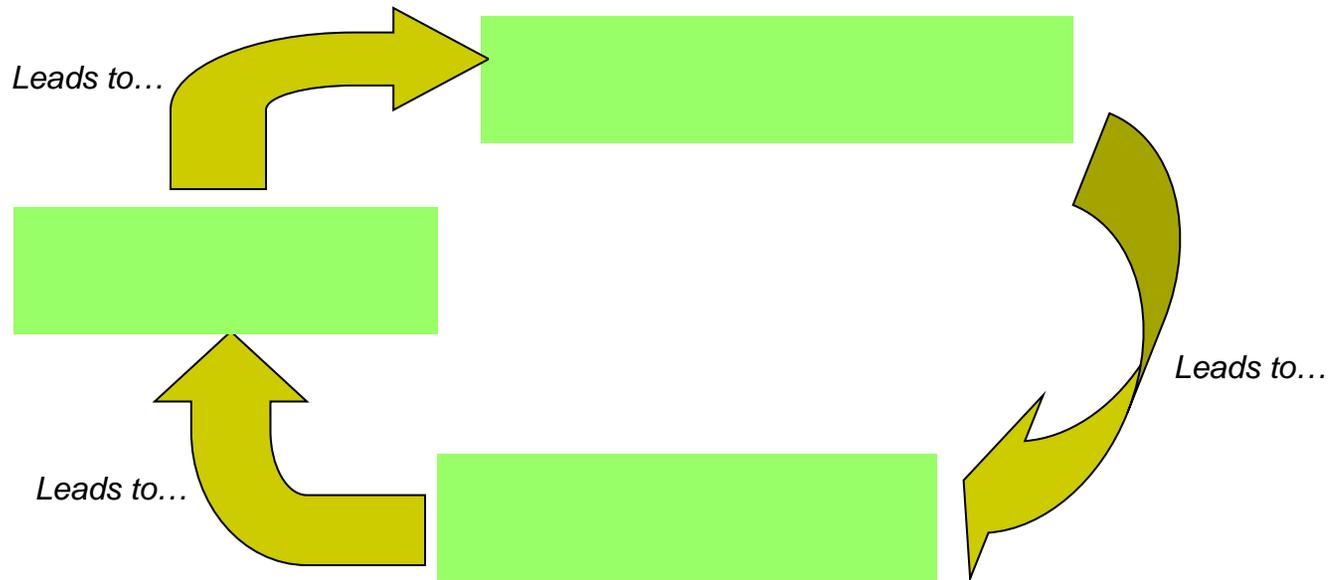
Let's take a closer look at spastic entropion...

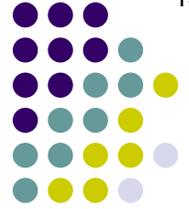


Spastic Entropion

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

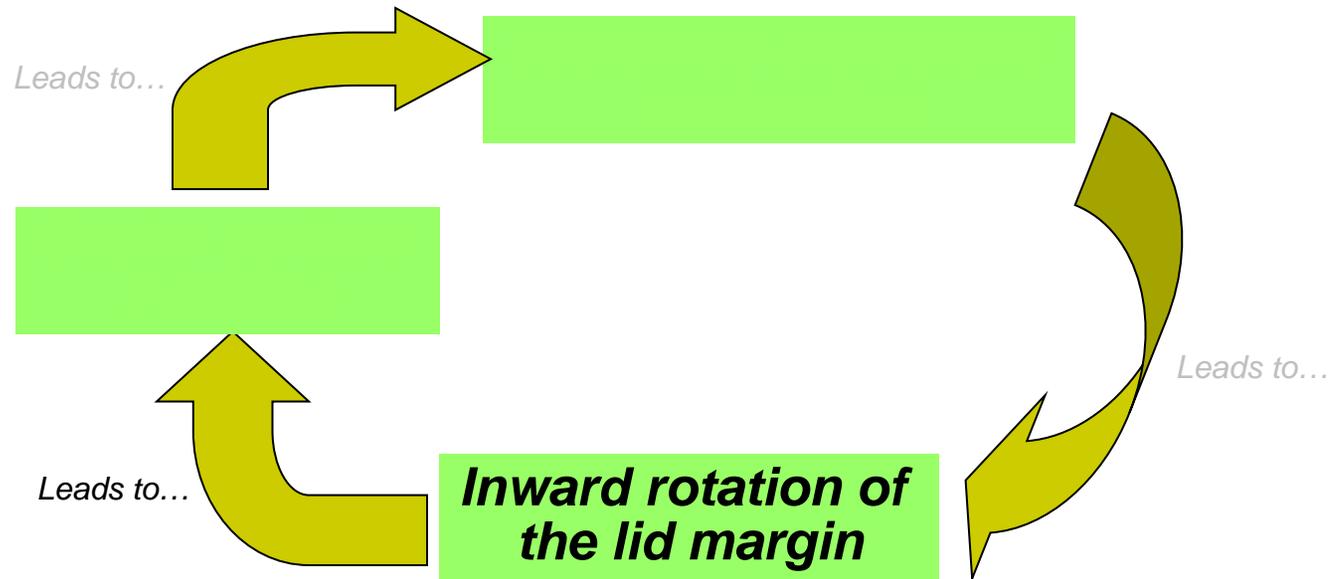




Spastic Entropion

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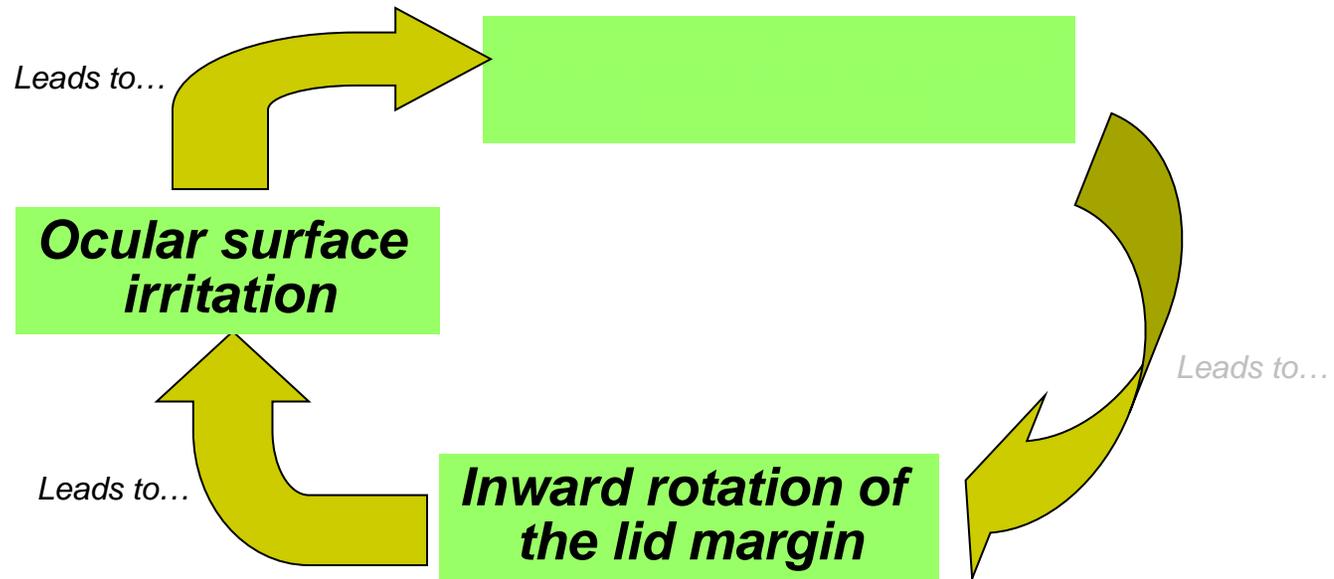




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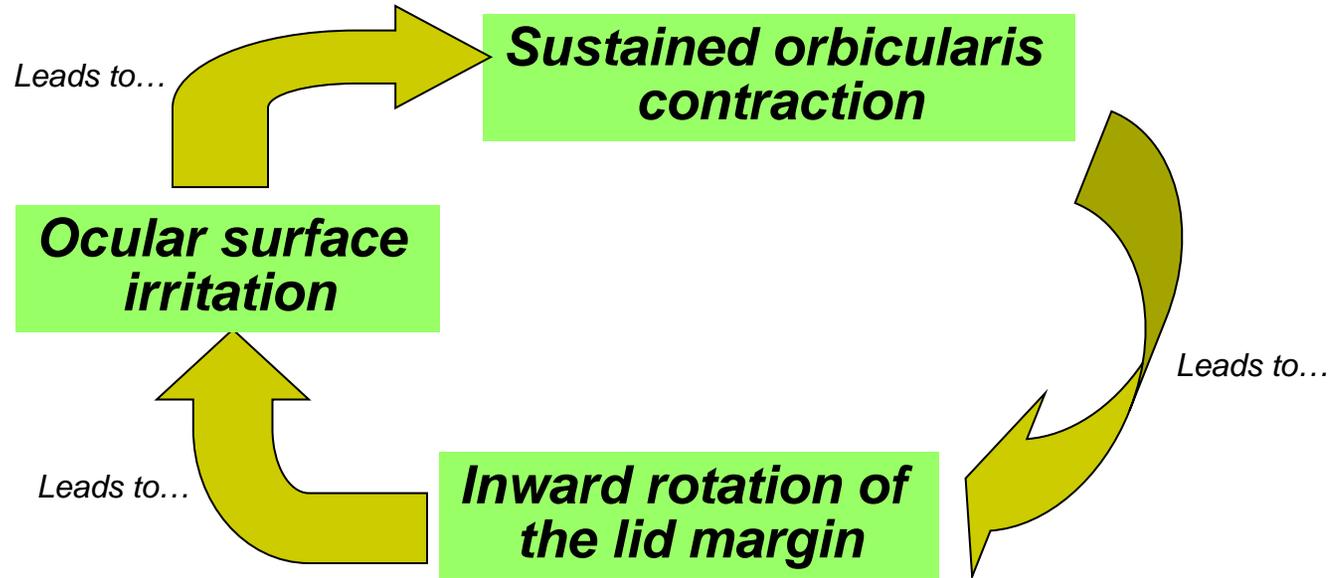




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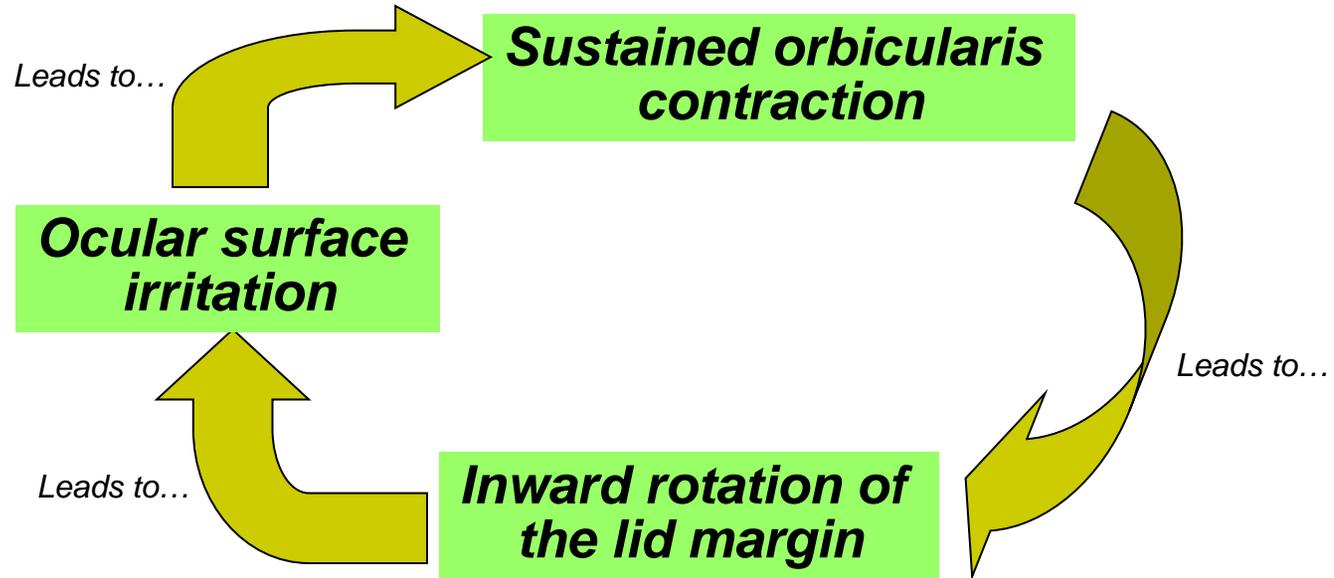


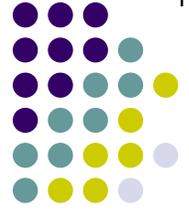


Spastic Entropion

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- Who is the classic spastic entropion pt?

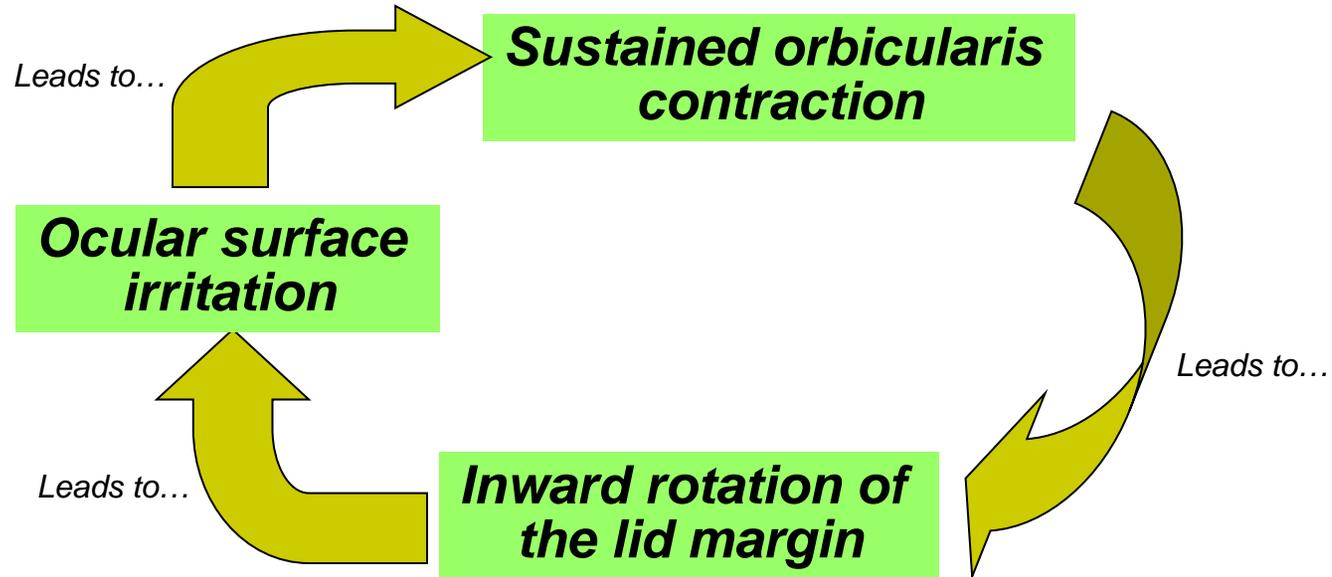




Spastic Entropion

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

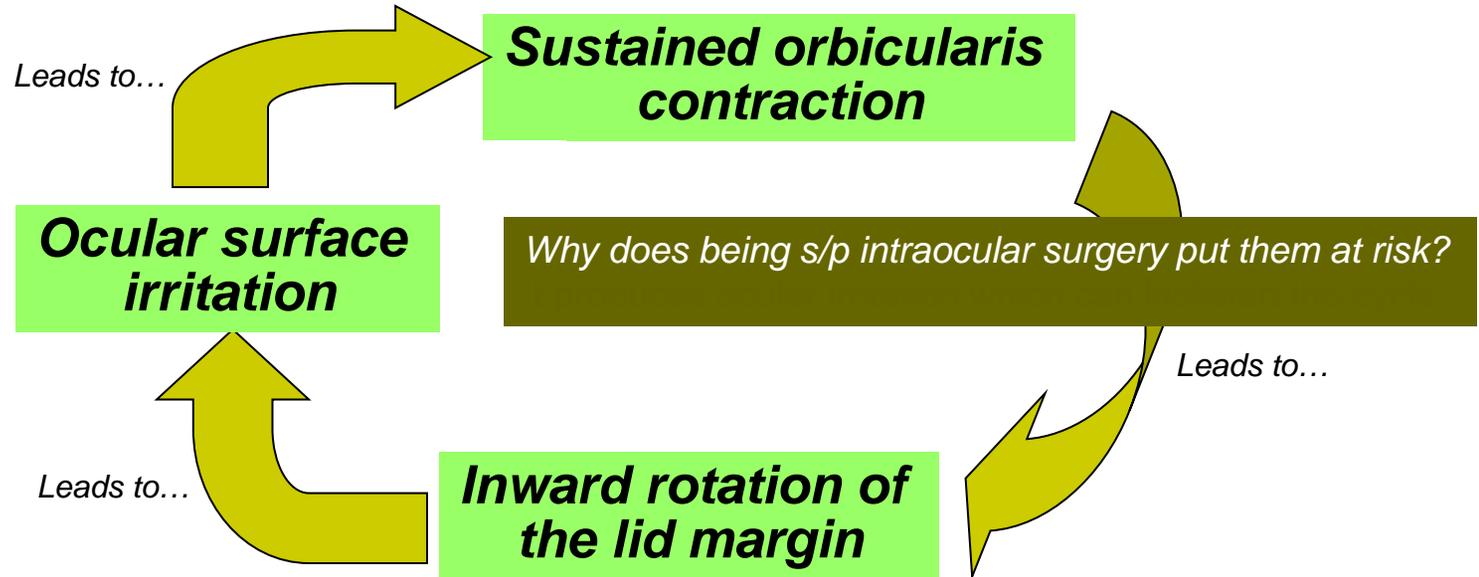




Spastic Entropion

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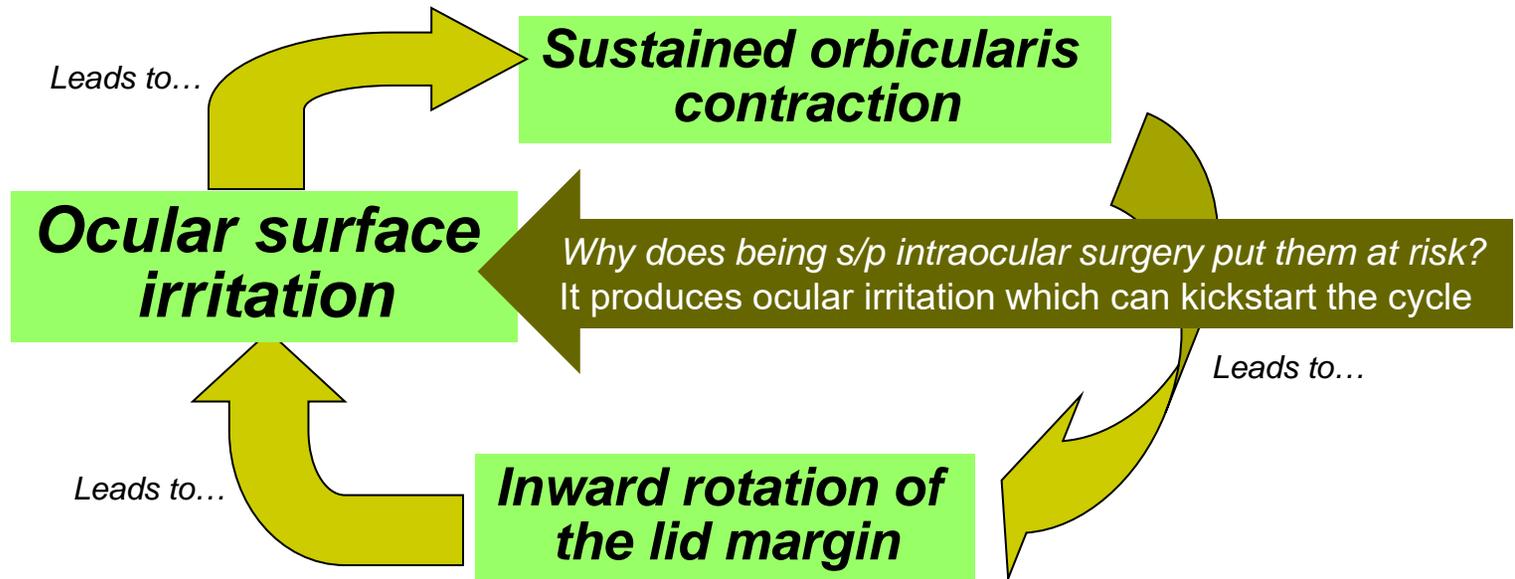




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Spastic Entropion



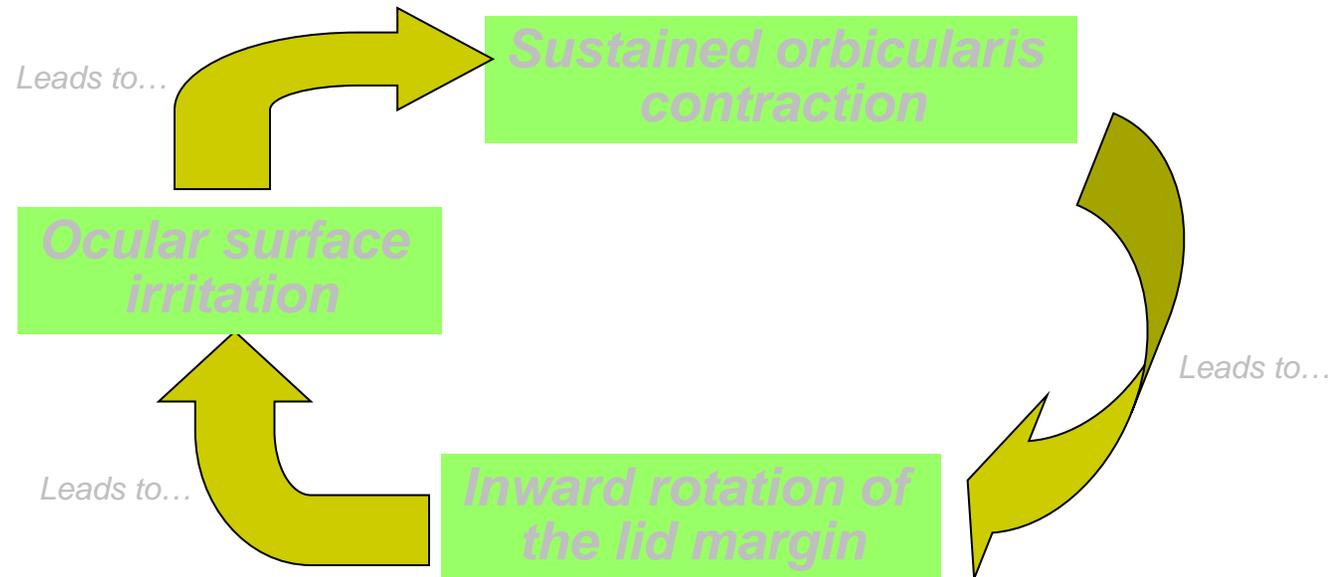
An interesting aside: Spastic entropion precipitated by a corneal ulcer



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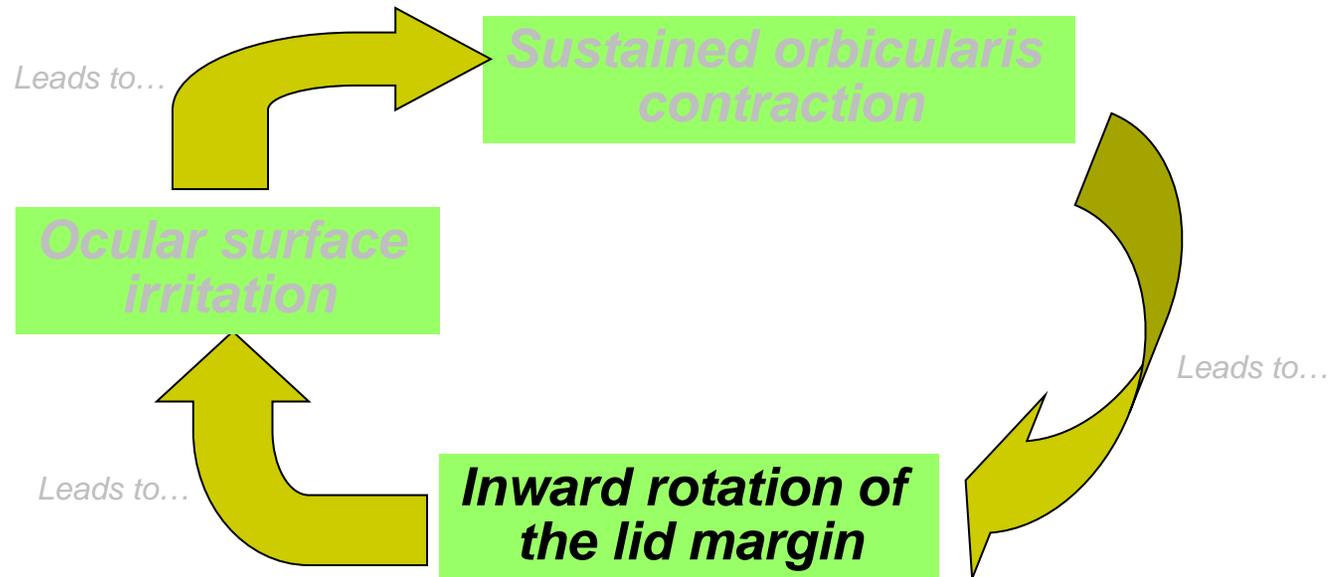
Why are the elderly predisposed to acute spastic entropion?



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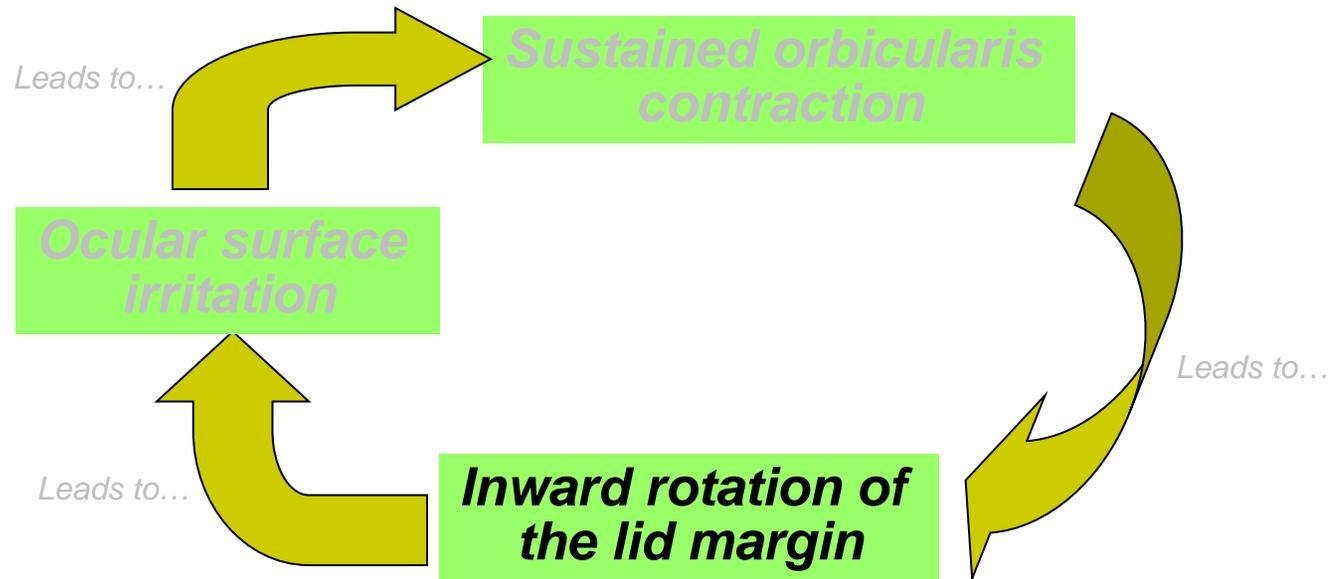
Because of the involutional changes that are inevitably present in these pts—changes that make possible the inturning of the lid margin



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
 changes that make possible the inturning

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

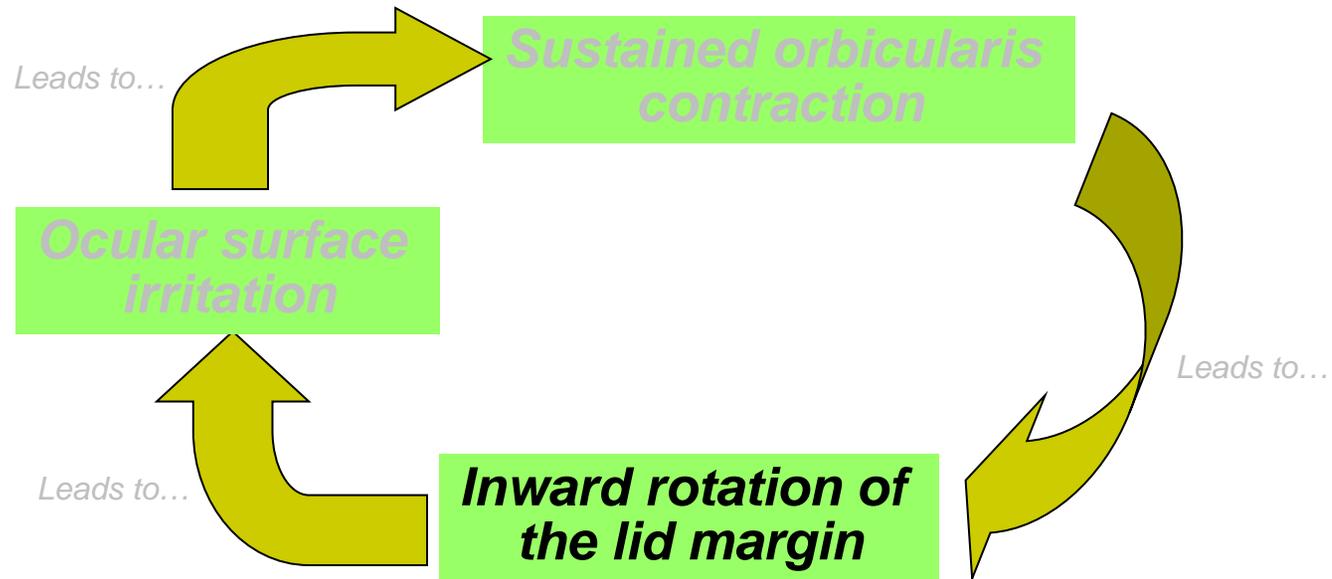
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Spastic Entropion

Q/A

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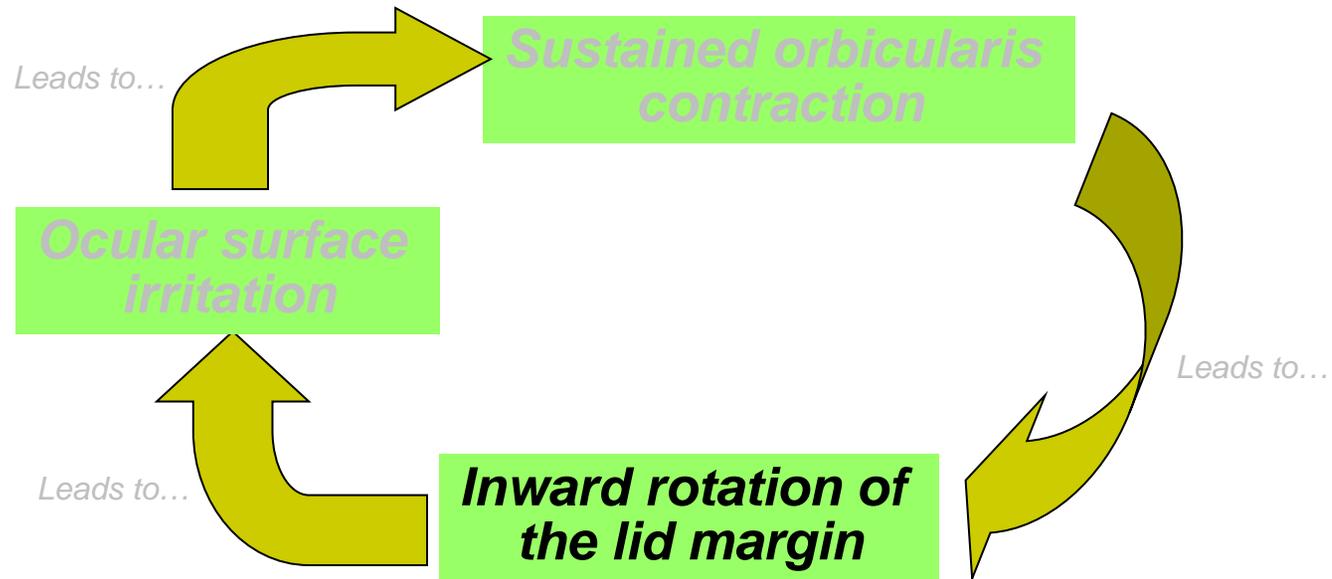
- Horizontal lid laxity
- Dis-insertion of the [two words] from the lower border of the tarsal plate
- [one word] due to age-related loss of orbital fat



Spastic Entropion

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Because of the **involutional changes** that make possible the inturning

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

- 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?
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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**

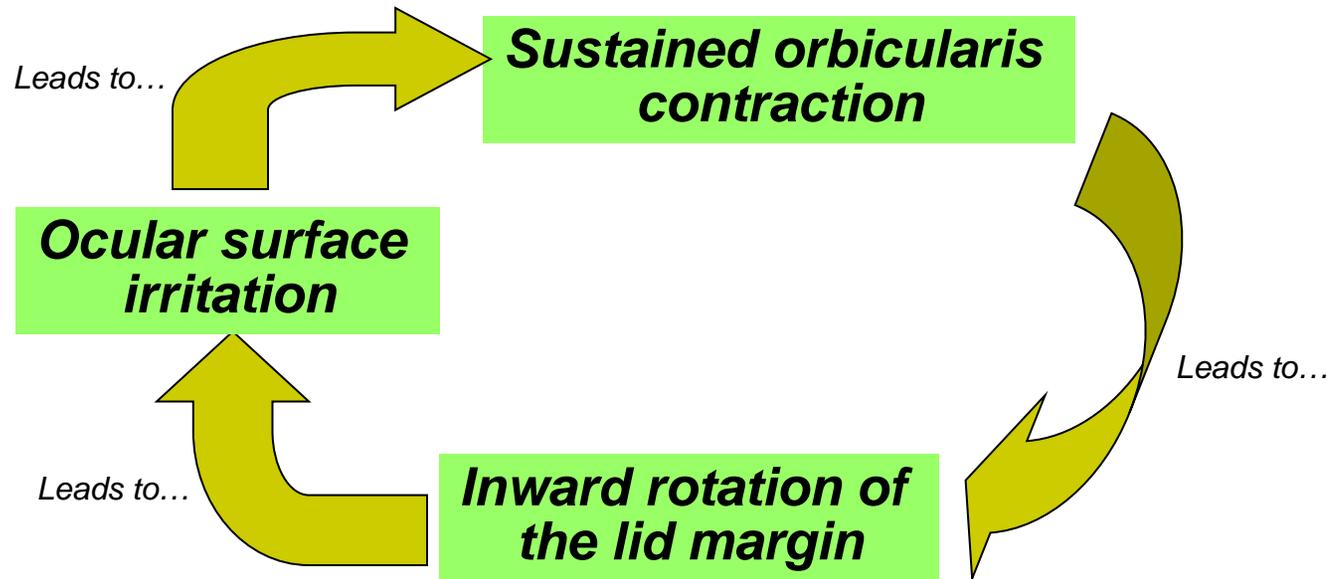
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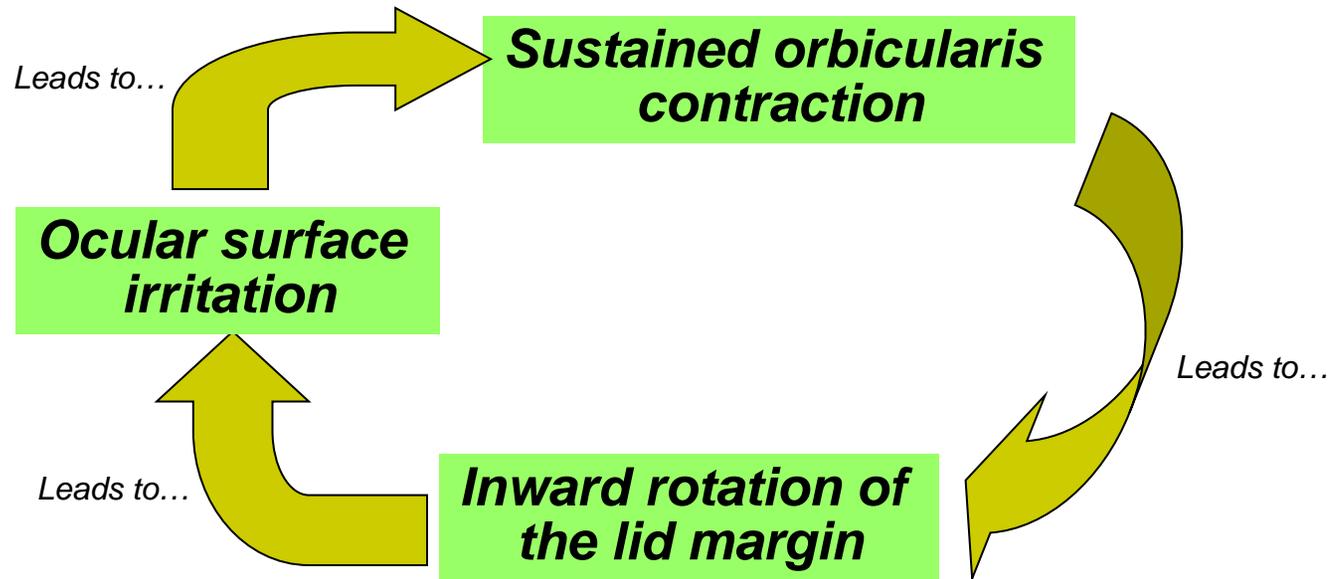
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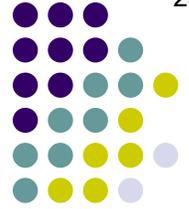
To treat acute spastic entropion...



Spastic Entropion



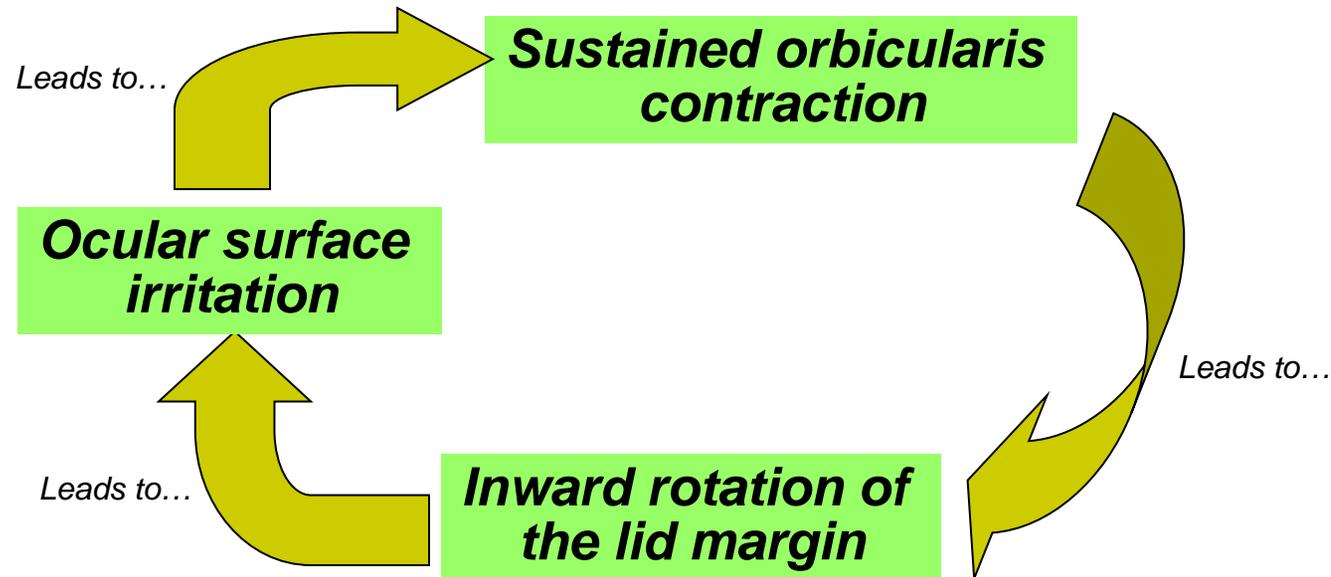
To treat acute spastic entropion... *Break the cycle!*



Spastic Entropion

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

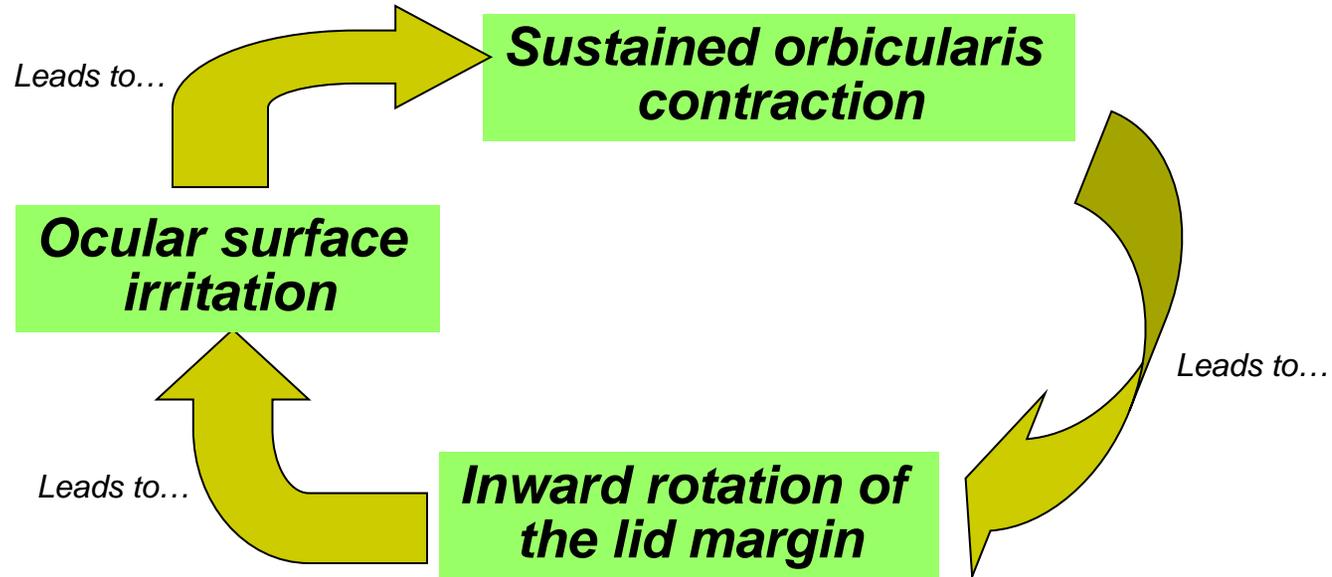


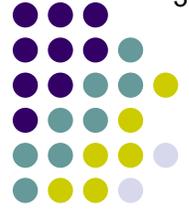


Spastic Entropion

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

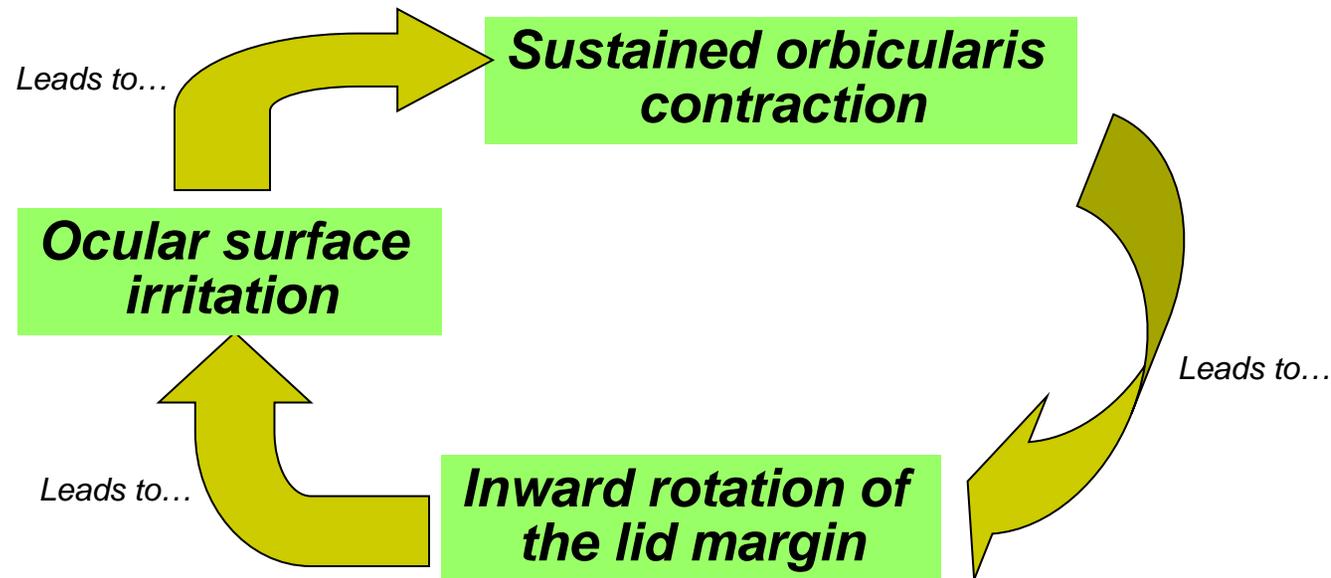


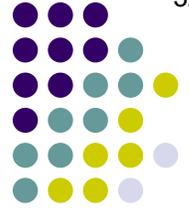


Spastic Entropion

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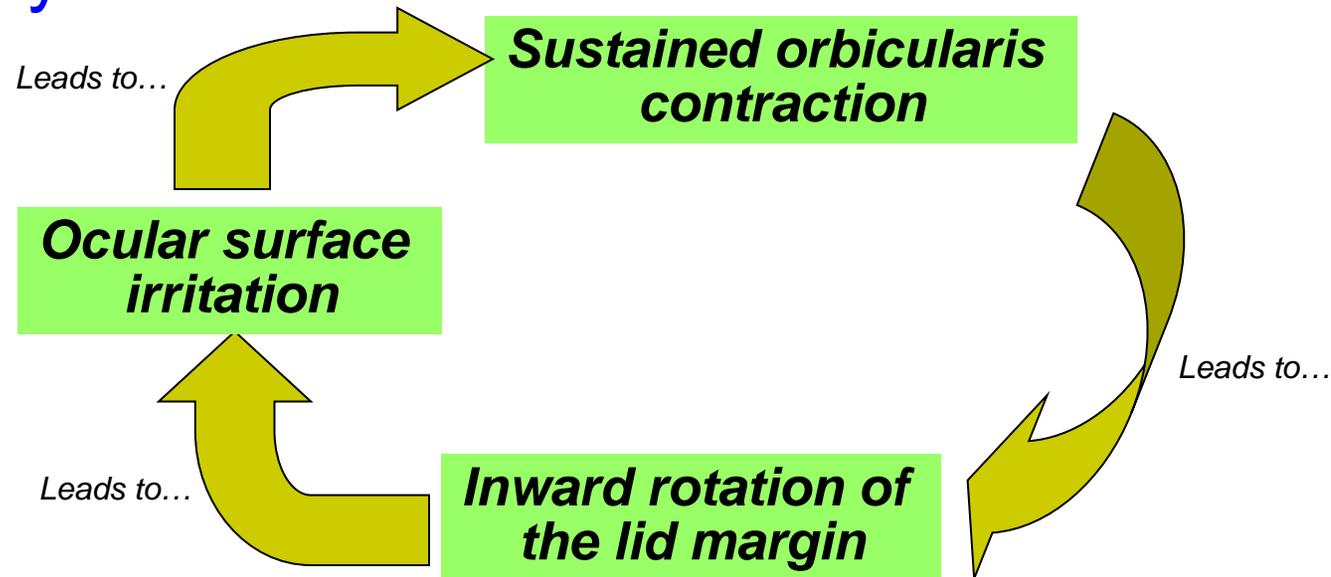




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- What three **surgical** counter-rotation techniques could you consider? **Botox; Quickert sutures; cautery**

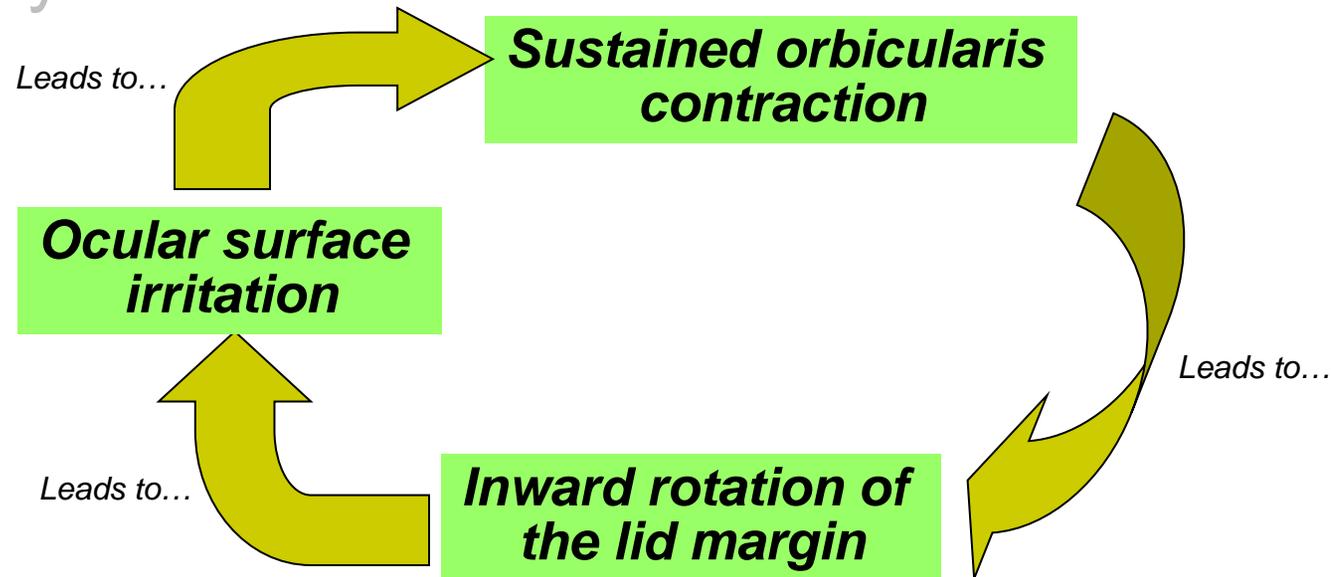




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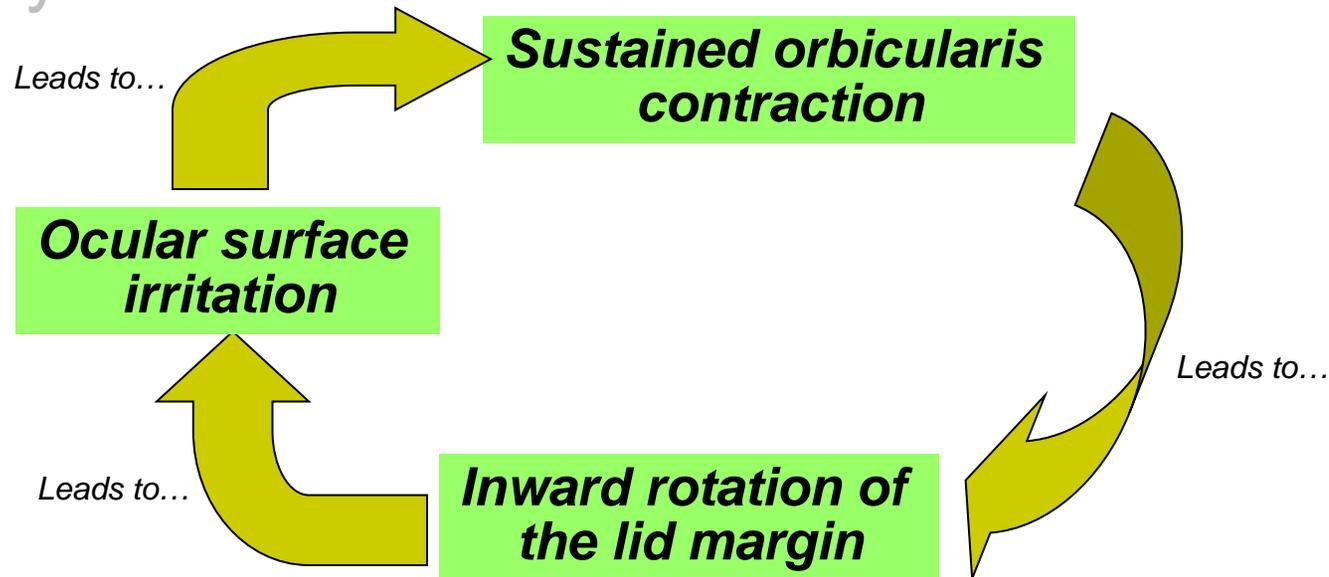
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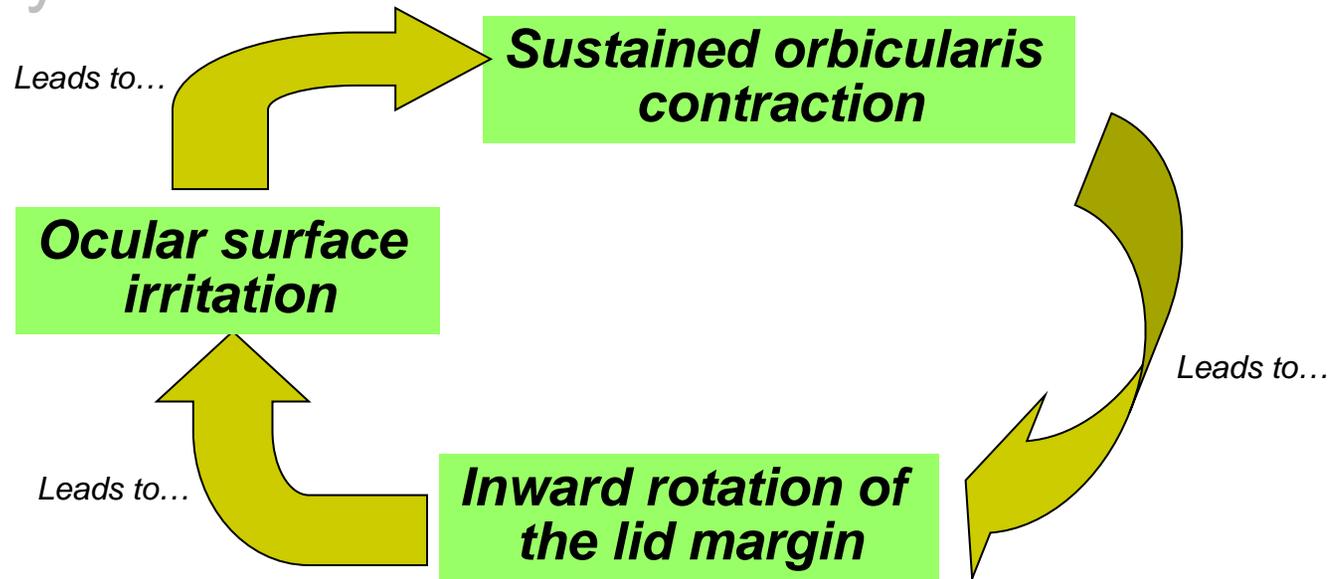
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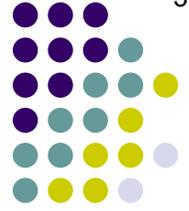
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A suturing technique that everts an entropic lid

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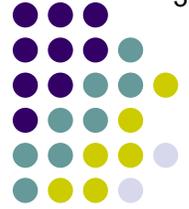
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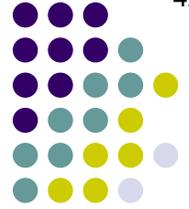
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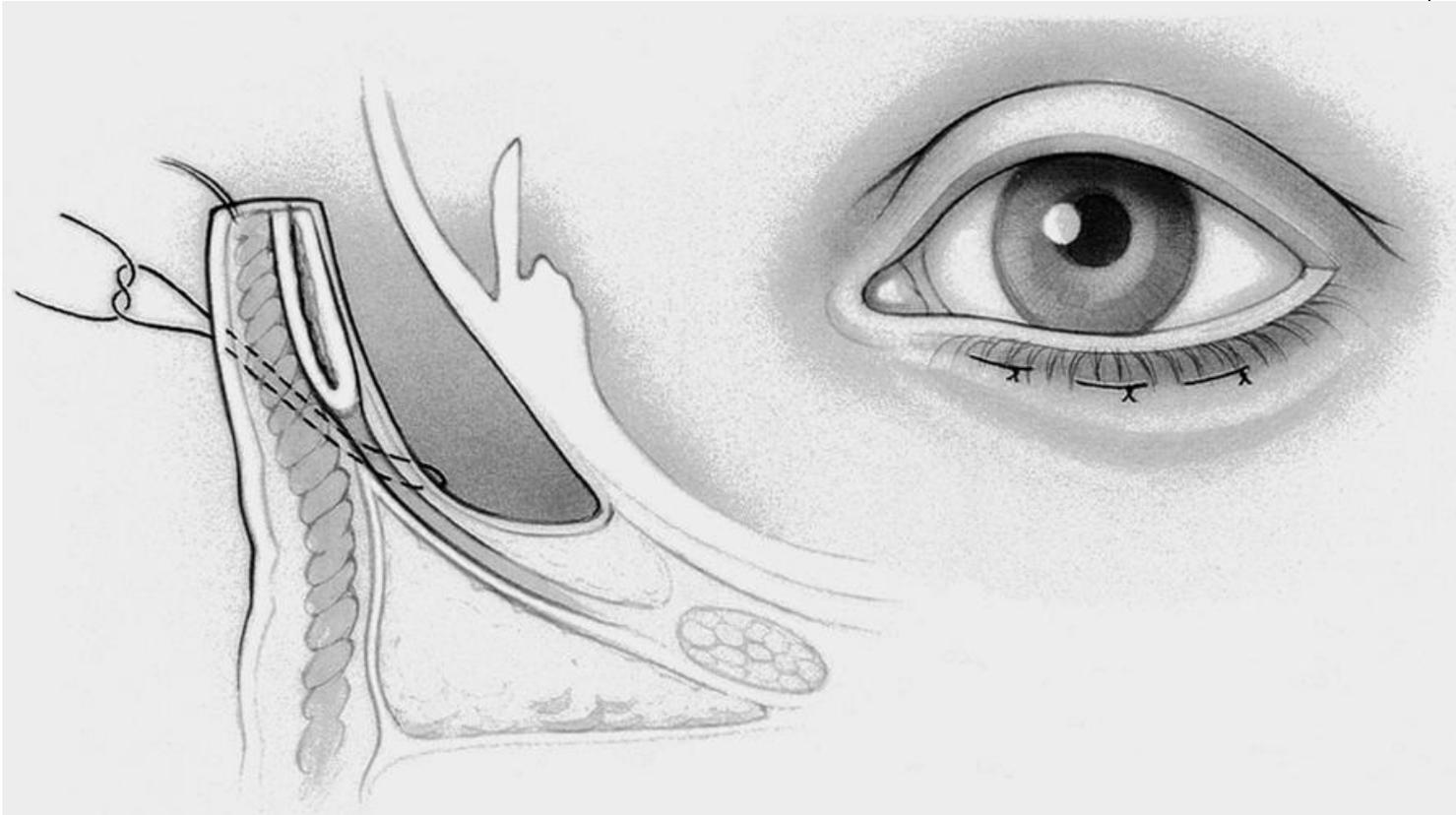
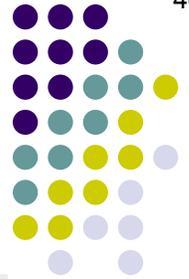
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Usually three

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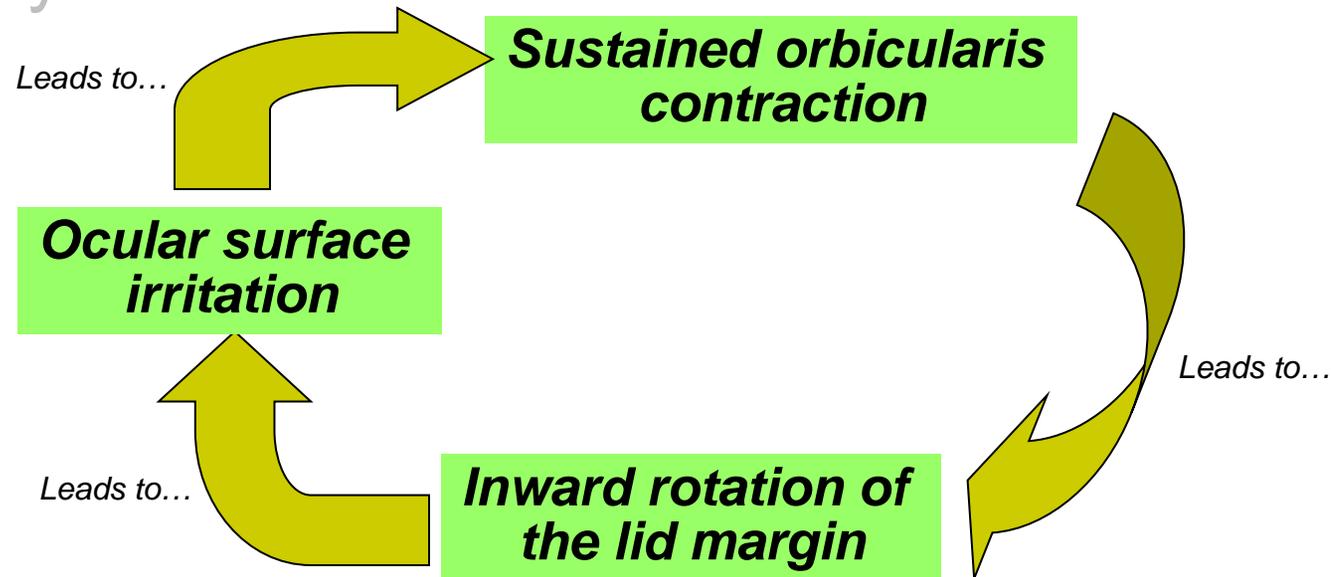
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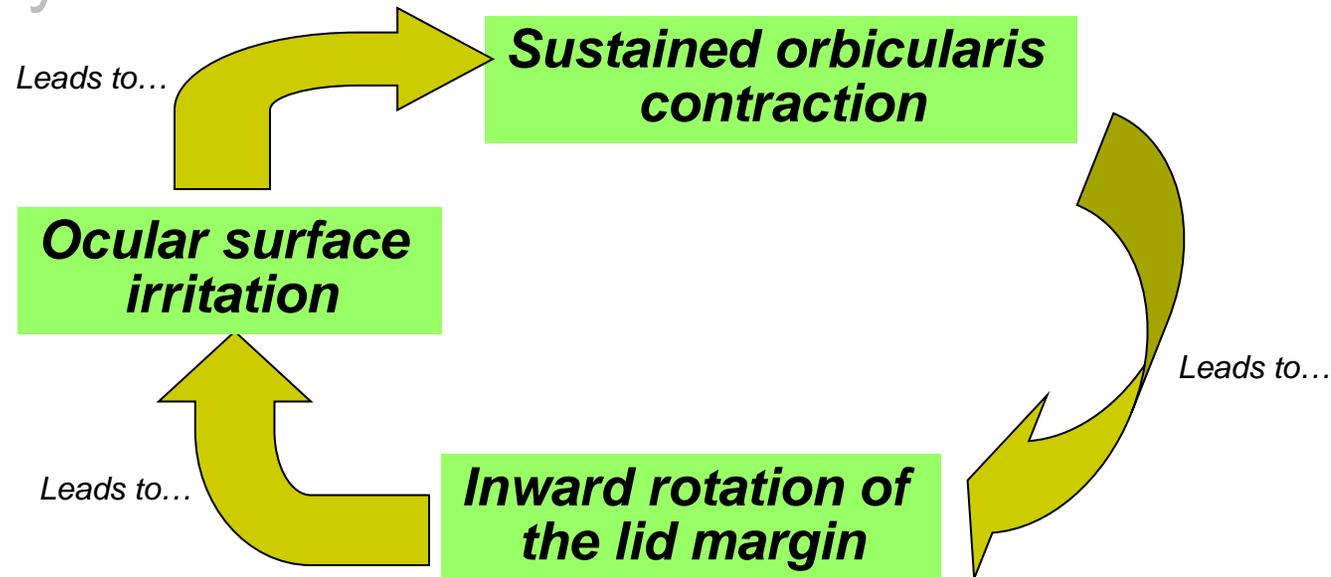
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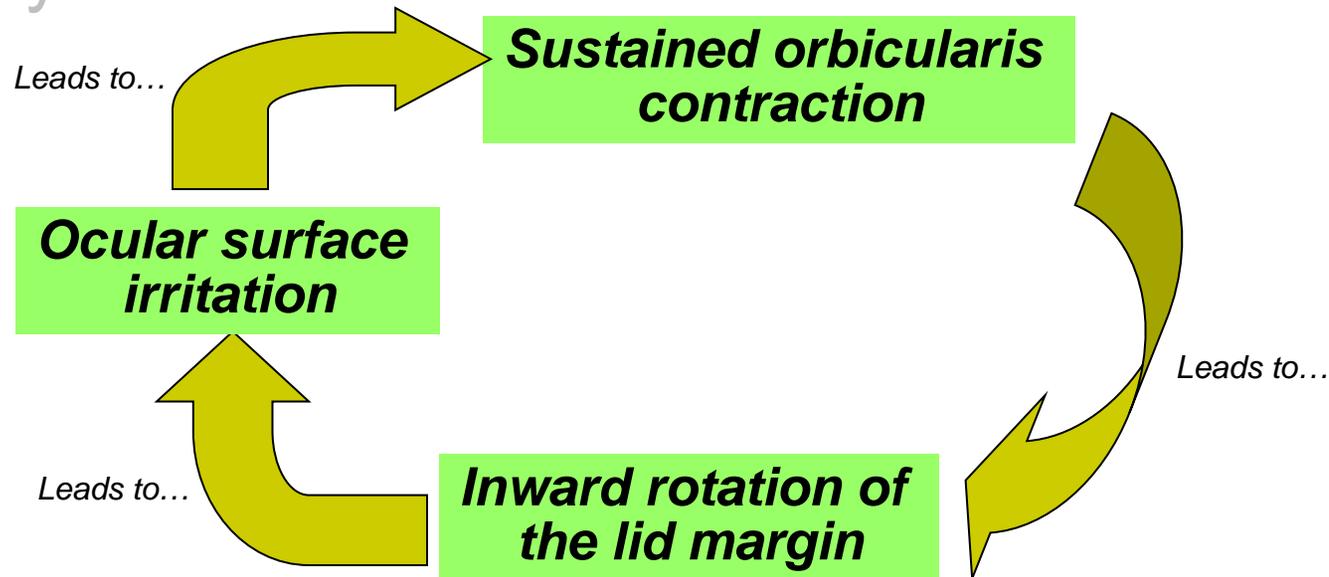
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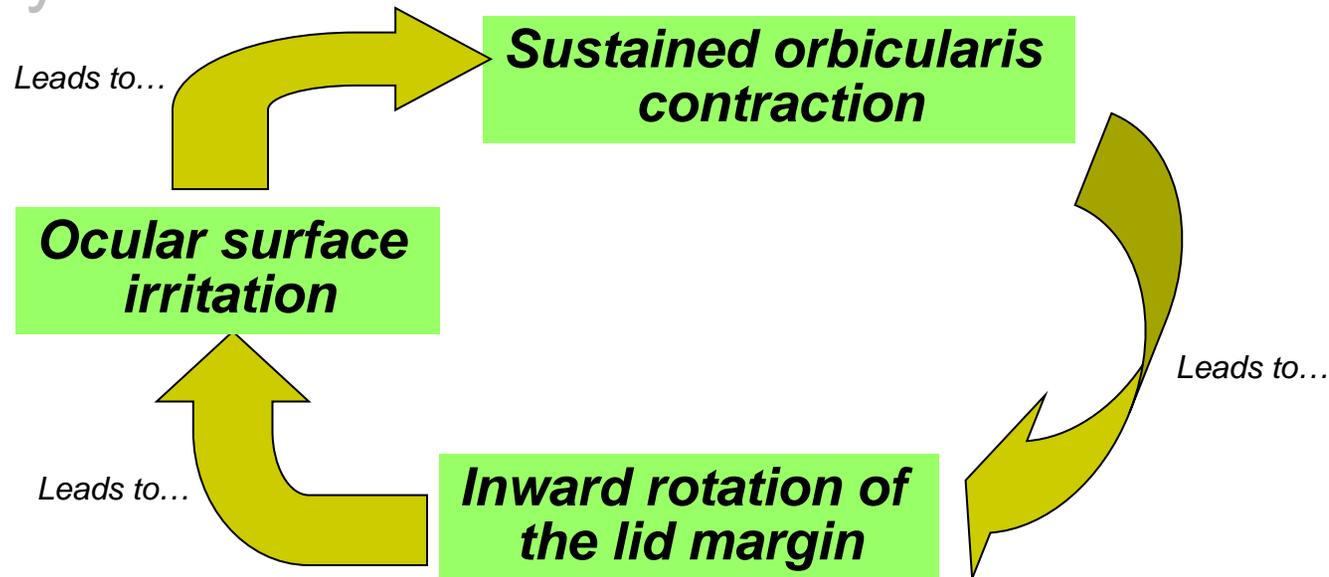
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 Does the Quickert procedure work well? **Yes, very**
 Does it have any drawbacks?*



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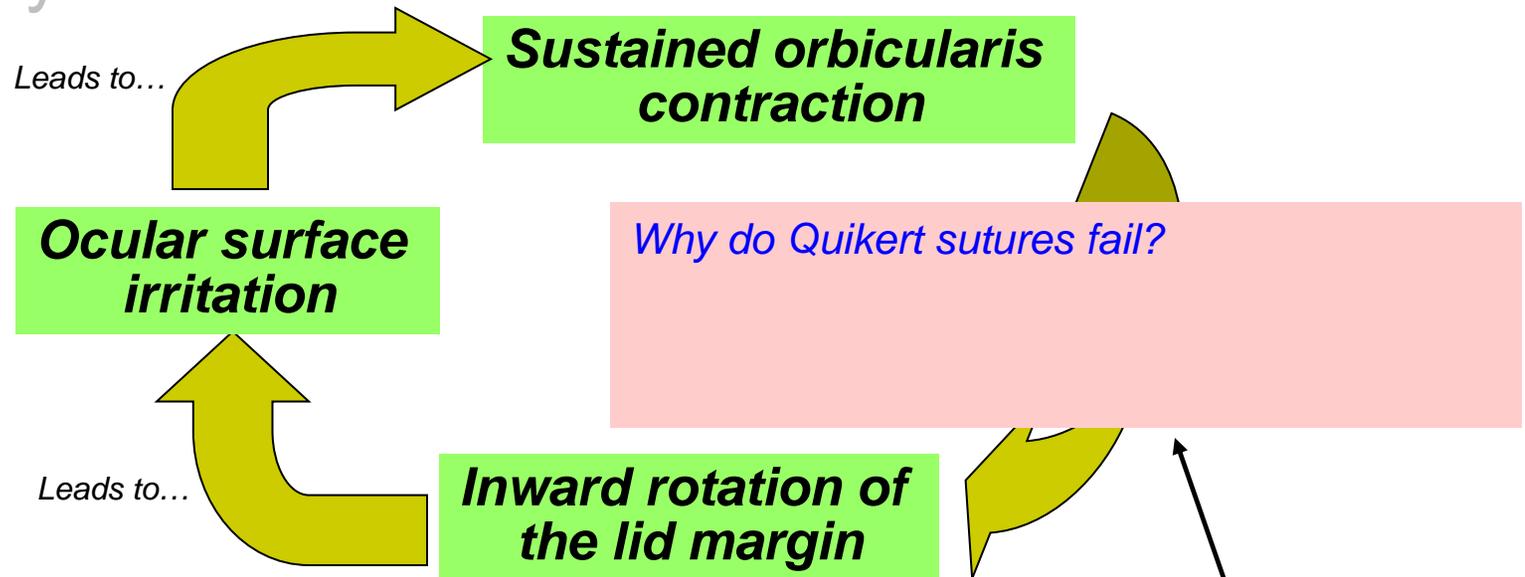
Does it have any drawbacks? Yes—it is a temporizing measure; it fails eventually



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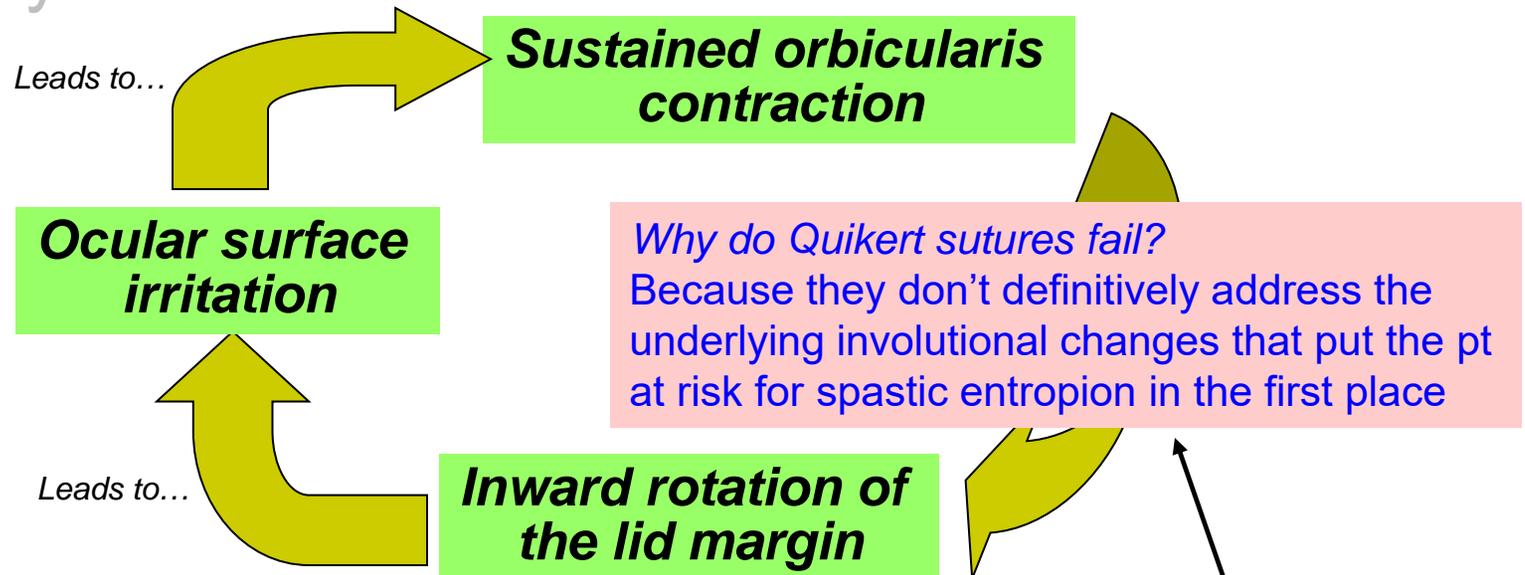
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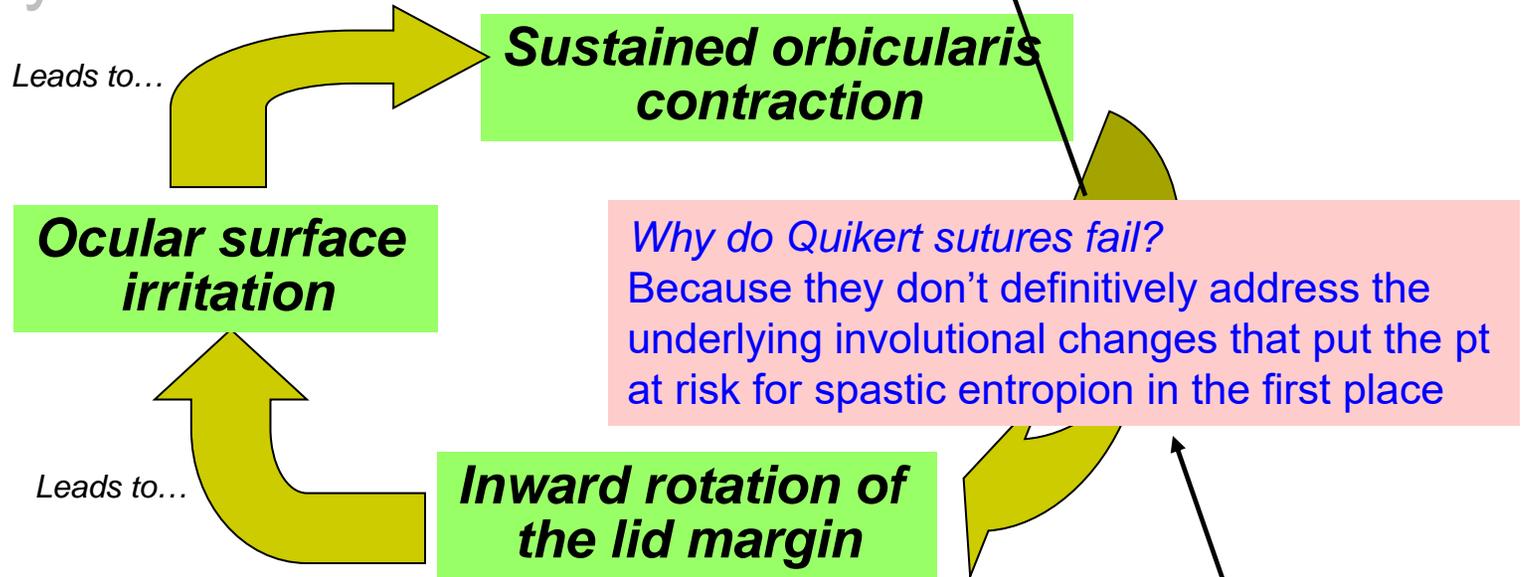
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--?
--?
--?

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



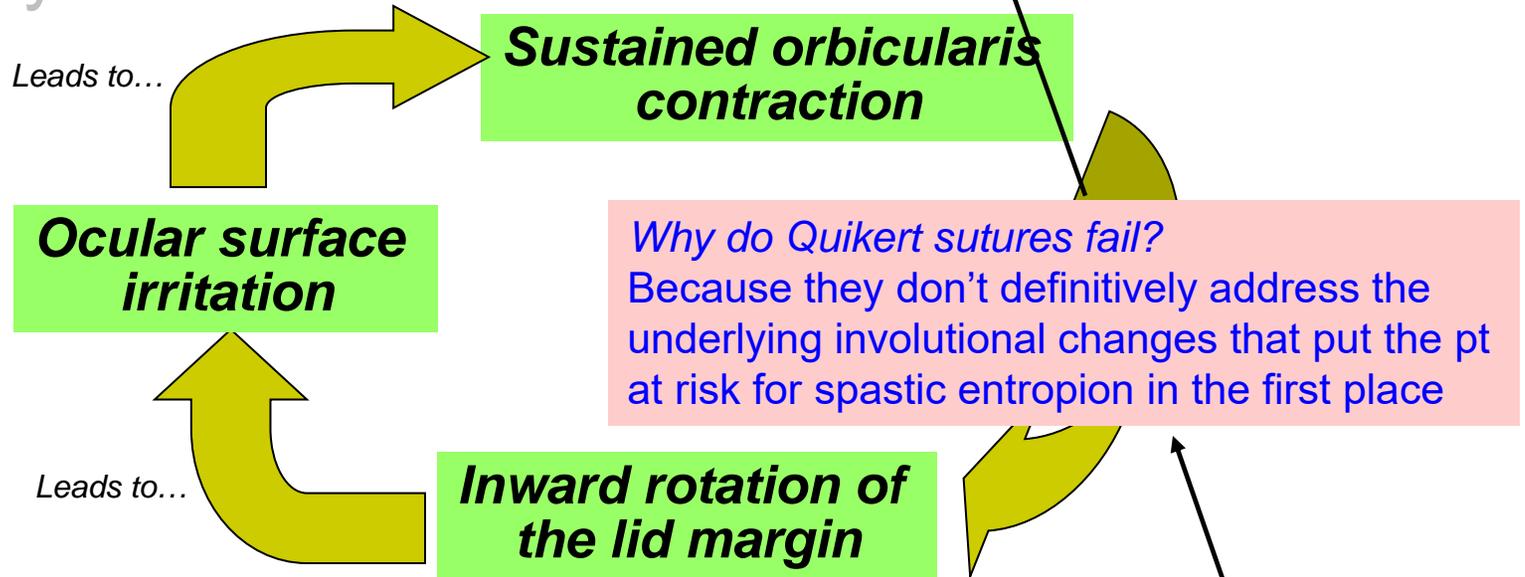
In a nutshell, how does the Quickert procedure work? What does it do?
 Quickert sutures re-insert the **lower-lid retractors** onto the **tarsal plate**
Does the Quickert procedure work well? Yes, very
Does it have any drawbacks? Yes—it is a temporizing measure



A

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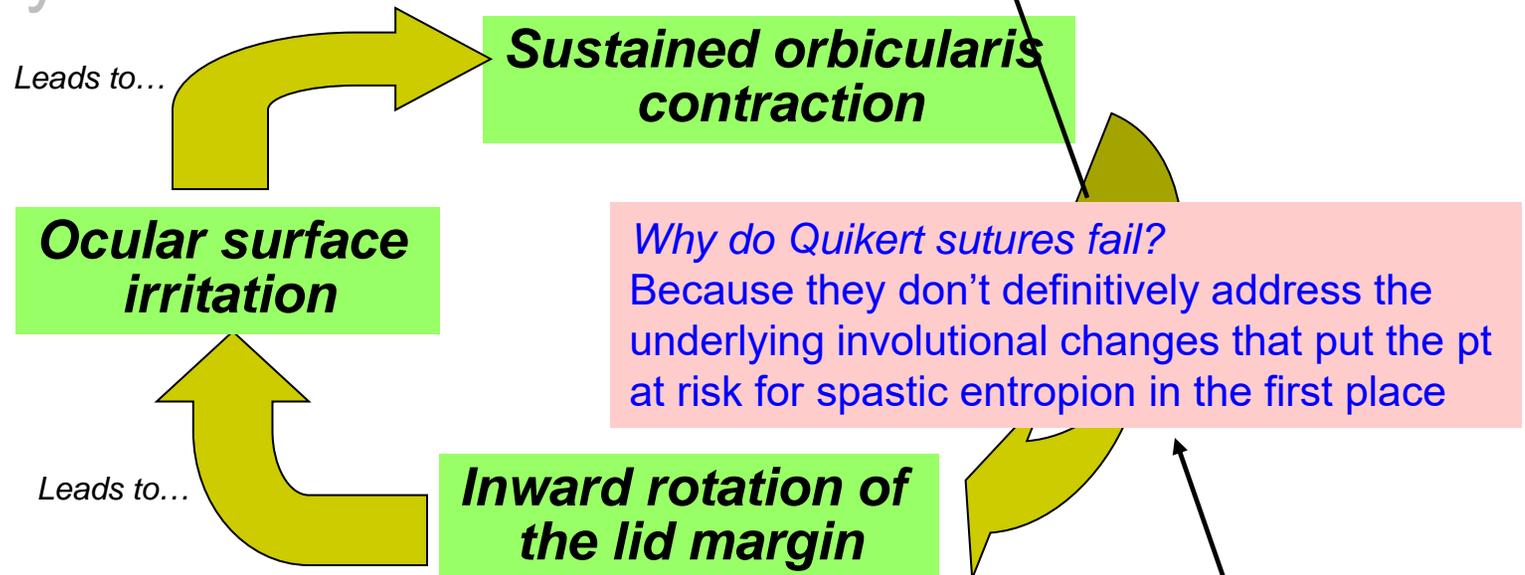
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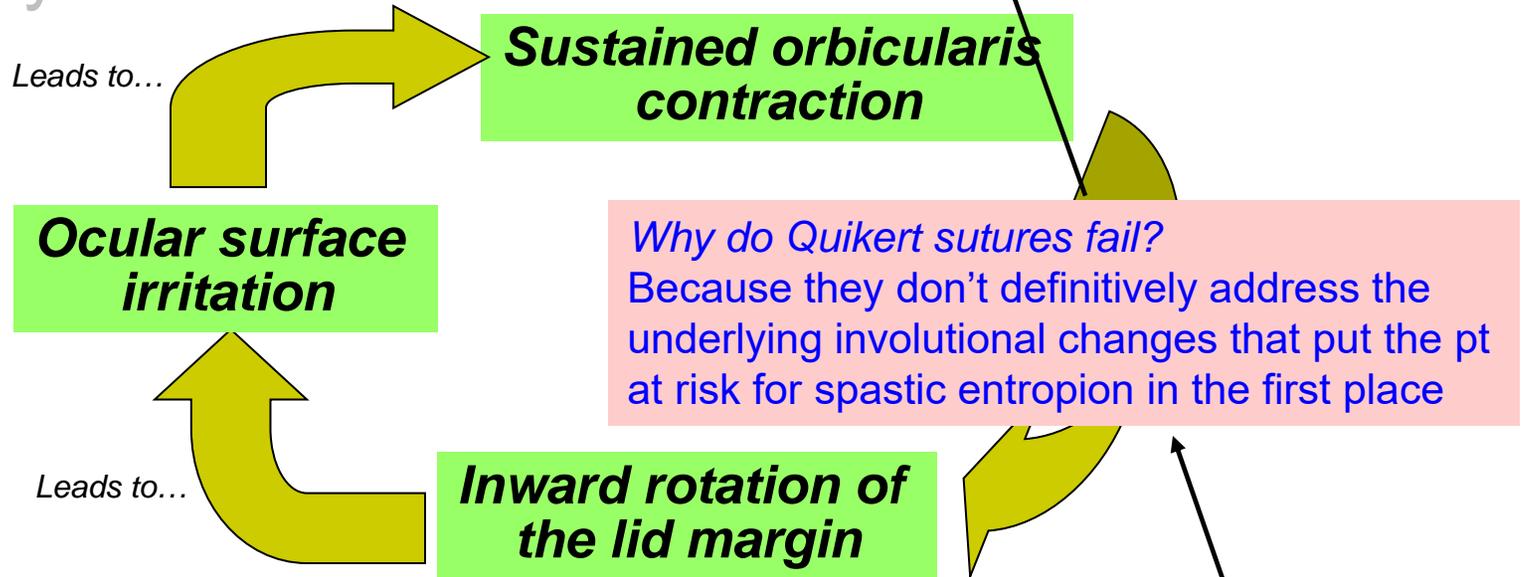


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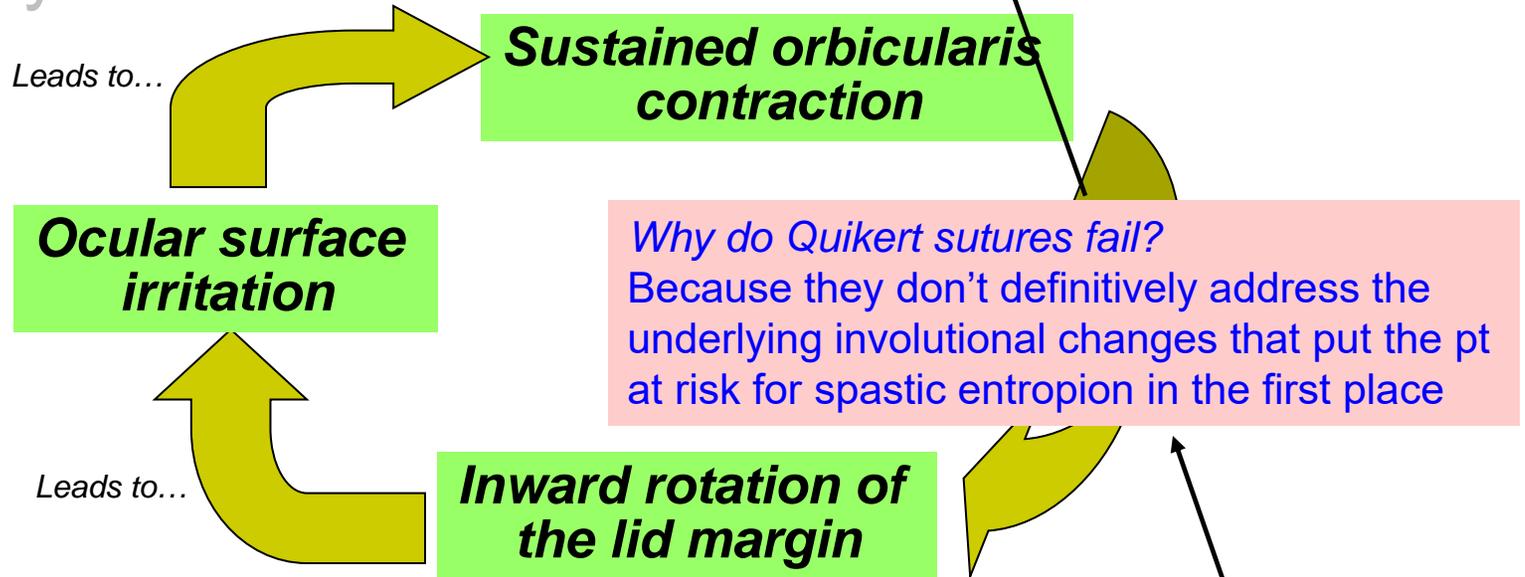
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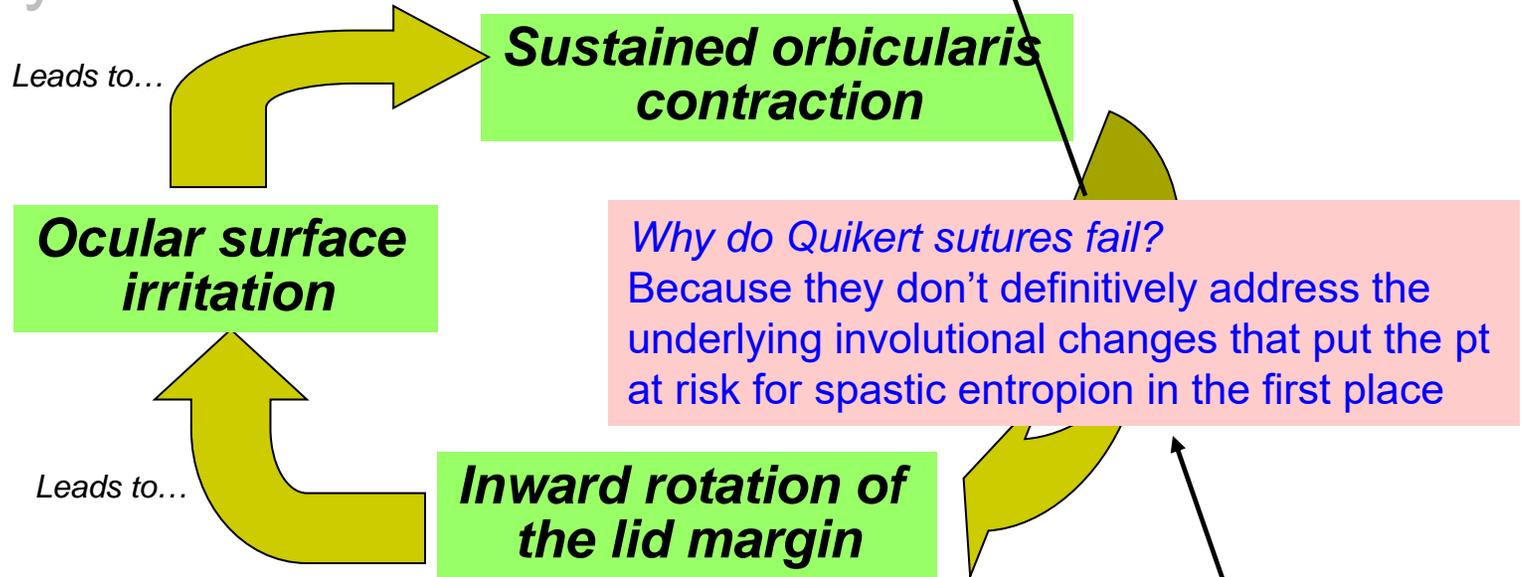


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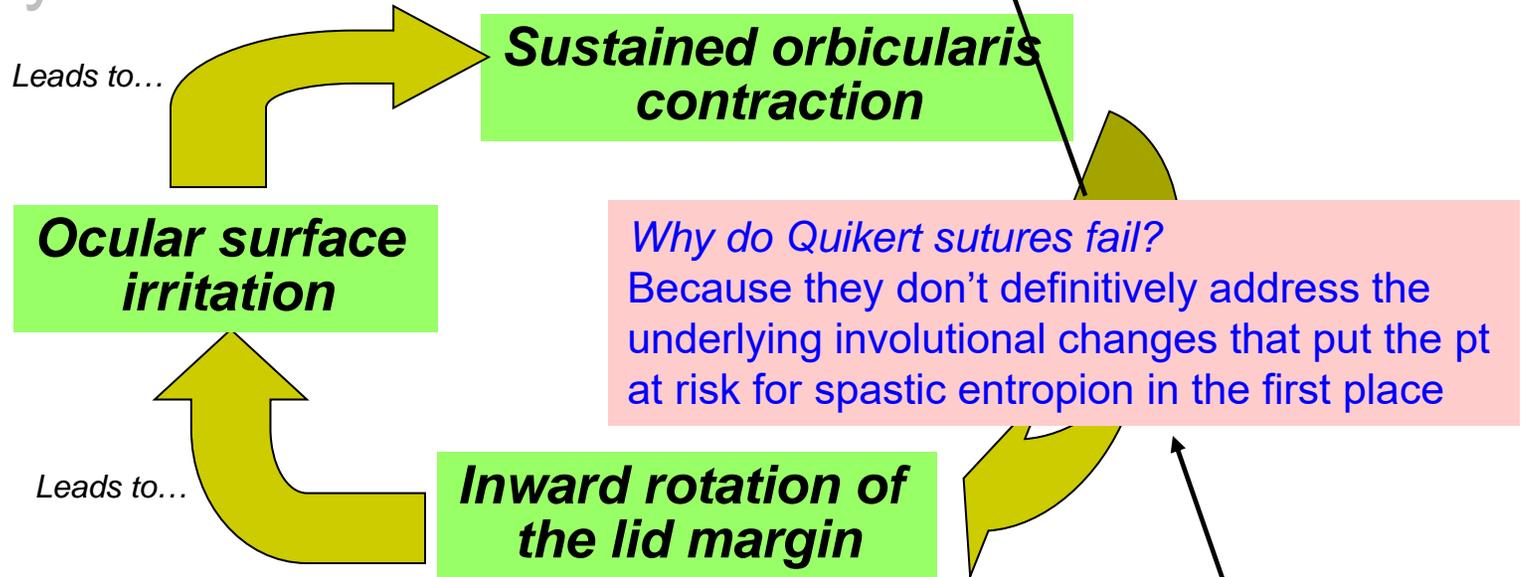


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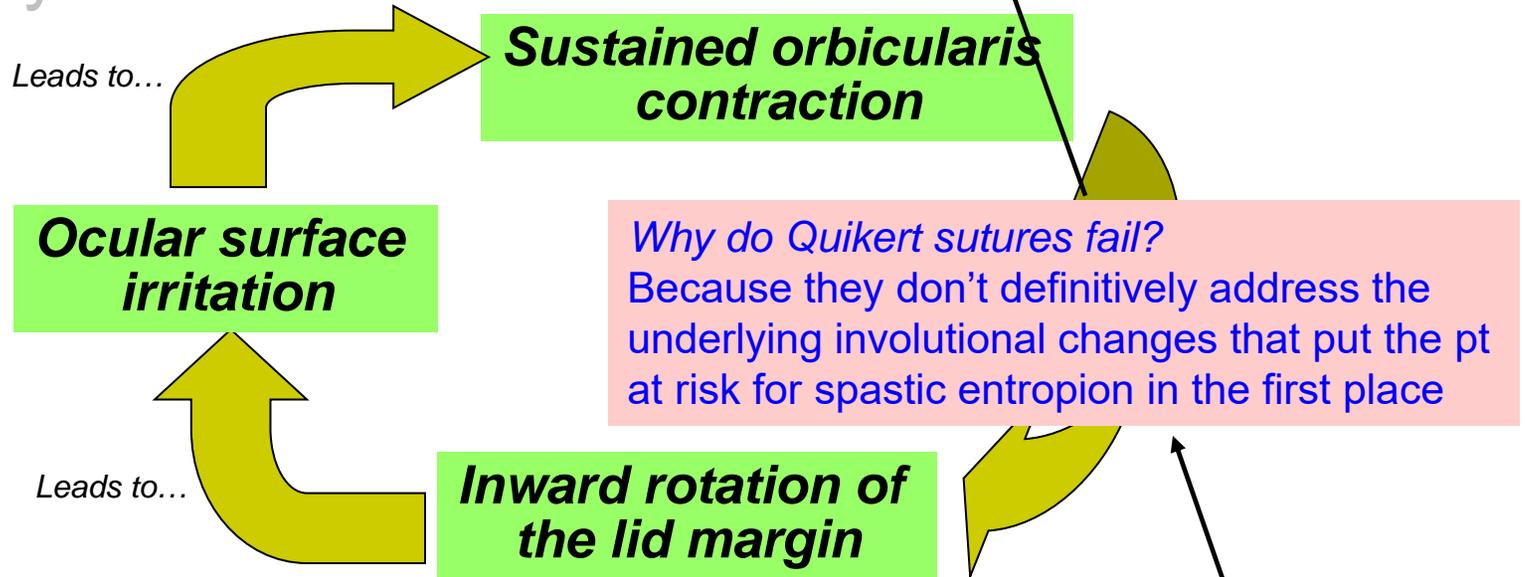


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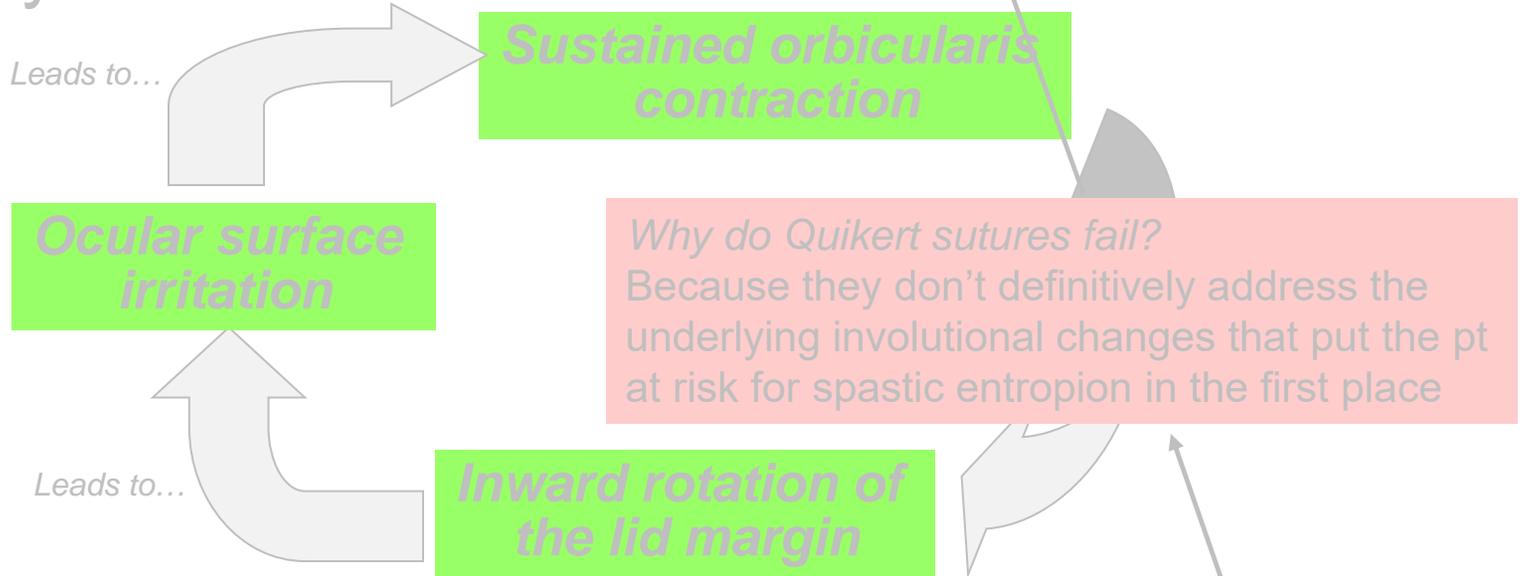


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Let's take a closer look at these interventions



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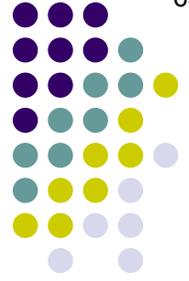
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Q

Spastic Entropion

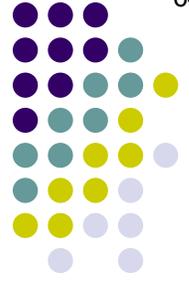
- Many surgical approaches to involutional lid changes have been developed. However, the most effective approaches address the same two therapeutic goals:
 - 1)
 - 2)



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
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Spastic Entropion

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Spastic Entropion

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2)

This is usually accomplished with a **three words** procedure



A

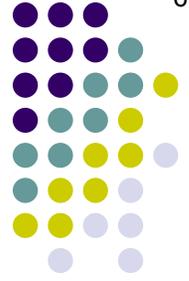
Spastic Entropion

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Q

Spastic Entropion

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Briefly, how is the lateral tarsal strip procedure performed?

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



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Spastic Entropion

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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.

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



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Spastic Entropion



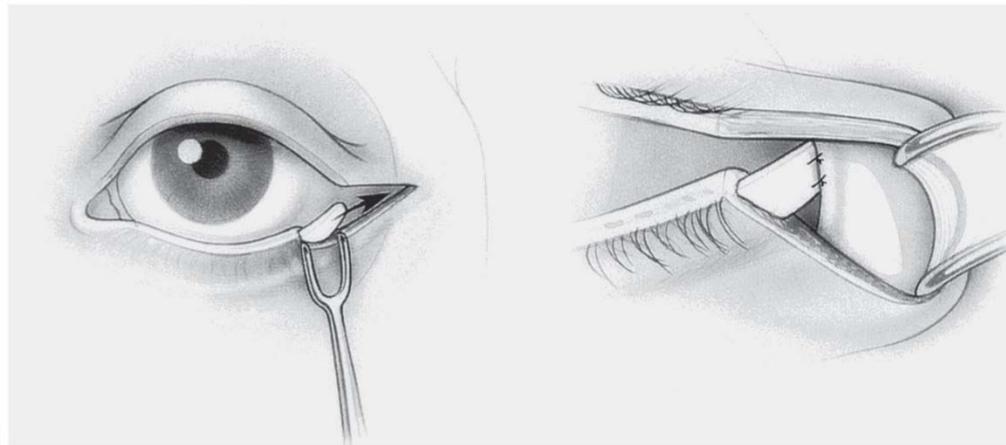
Lateral tarsal strip procedure. A, Lateral stretching of the eyelid demonstrates the potential of lower lid tightening. (Note: The is pt has *ectropion*, not entropion.)



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

Q

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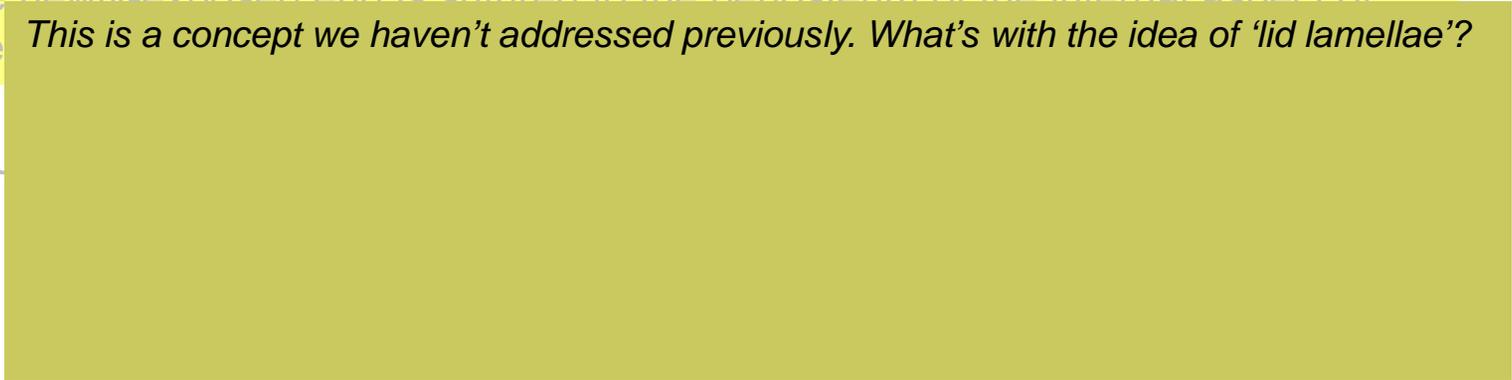
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What structures comprise each lamella?

Anterior:

Posterior:



A

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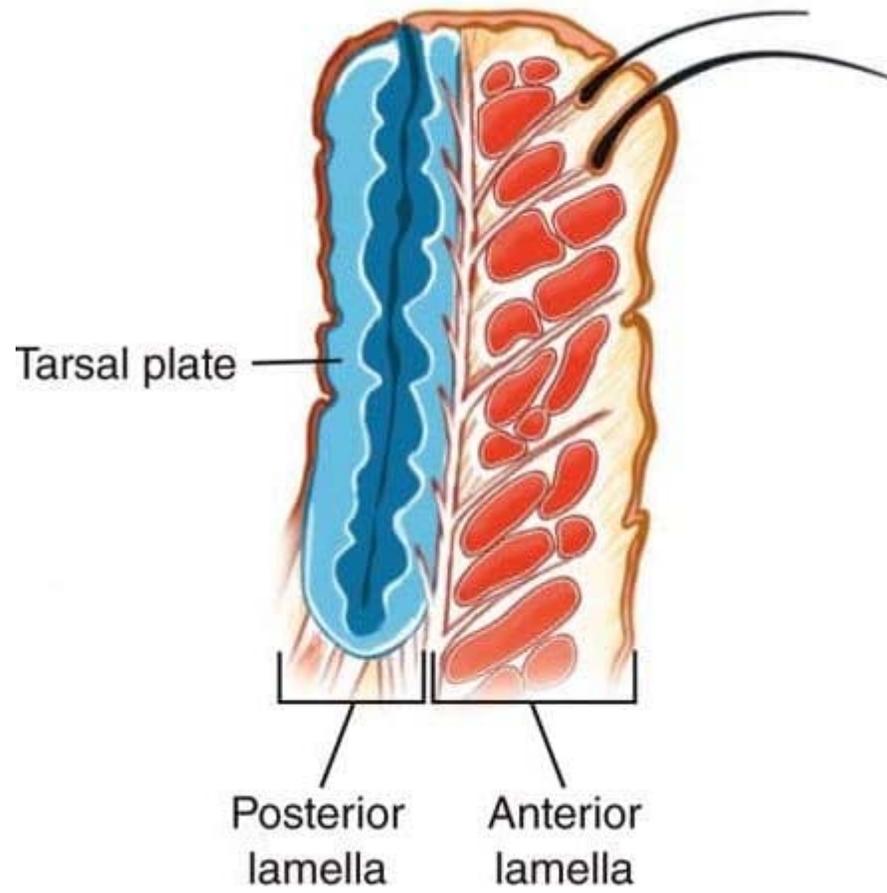


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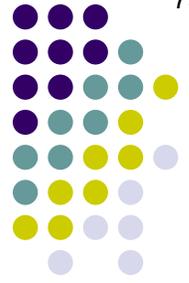
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Spastic Entropion



Eyelid lamellae



Q

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What comprises the dividing line between the two lamellae?



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The muscle of Riolan/gray line



Spastic Entropion

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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!

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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