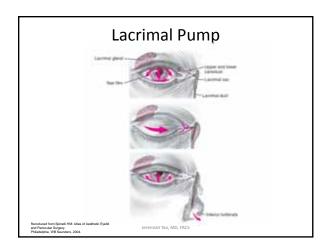


### Pathophysiology

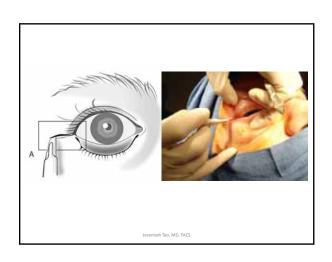
- Involutional
  - Horizontal laxity
  - Vertical laxity
- Cicatricial
- Paralytic
- Mechanical
- Negative vector (prominent eye, midface ptosis, or both)

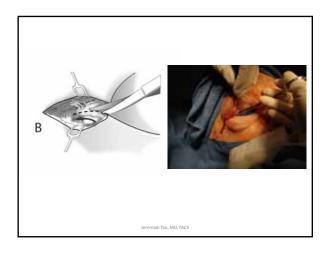
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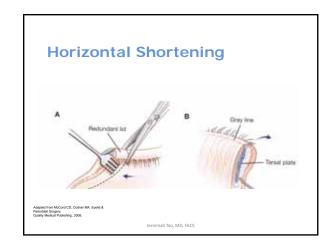






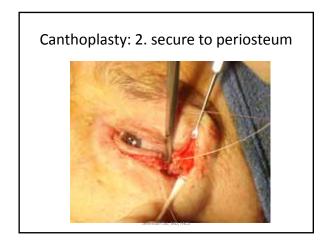




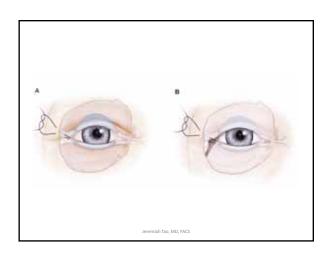


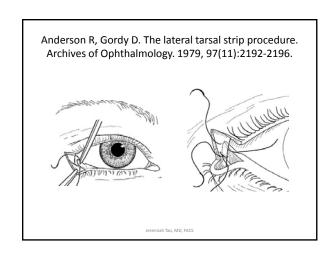




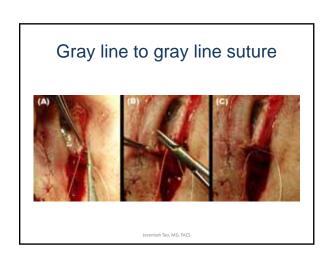


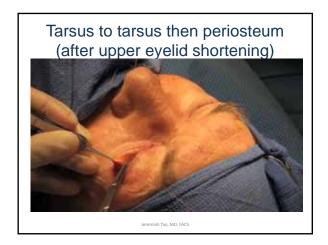








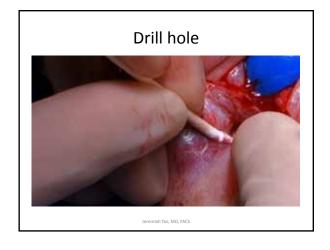




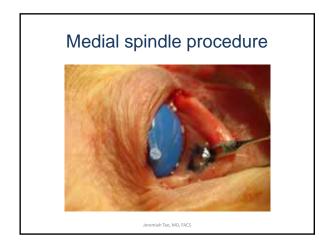


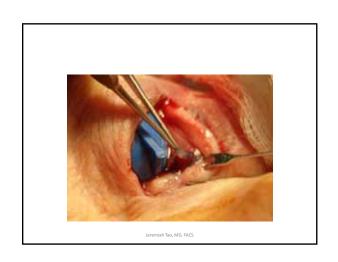
- Usually Periosteum
- Drill hole
- Miniplate
- Wire

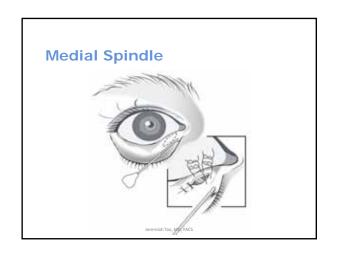
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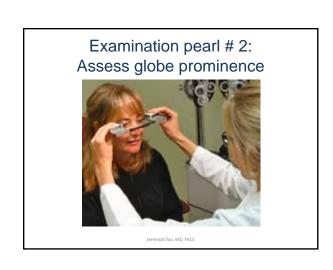


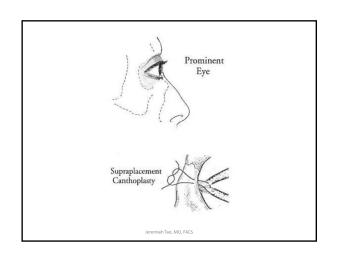










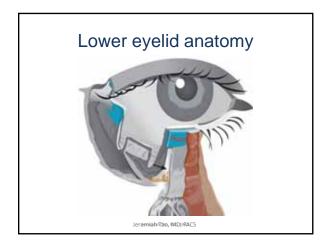


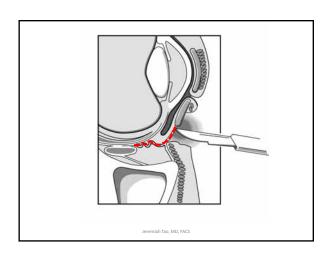


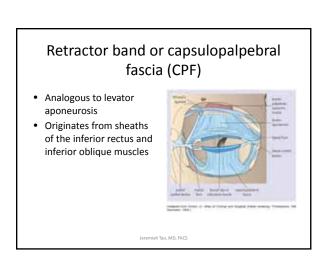
## Vertical vector eyelid considerations

- Globe prominence
- Vertical laxity
- Vertical cicatrix
- Lower eyelid retractors
- Midface ptosis

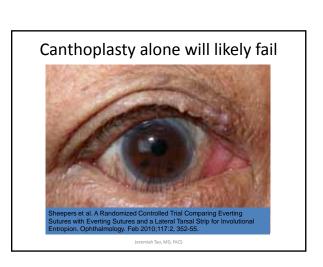
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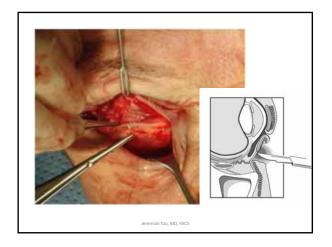




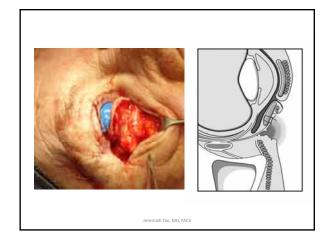


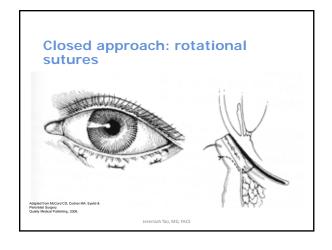


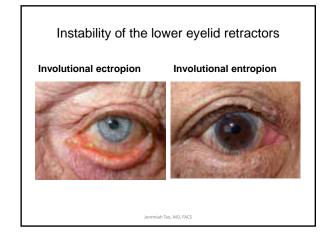


















## Examination pearl # 3: Assess vertical vectors..."2 finger test"



- Patipa M. [Cosmetic Discussion]. PRS June 2005; 115(7):2115-2117.
- One finger at lateral canthus to mimic canthal fixation
- If second finger necessary to achieve correct position of mid eyelid, canthal anchoring alone WON T WORK.

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## Treating lid retraction

- Recess eyelid retractors, then:
- Add tissue
- Lift tissue
- Both of the above

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## Lengthen eyelid: recess retractors & release any vertical cicatrix



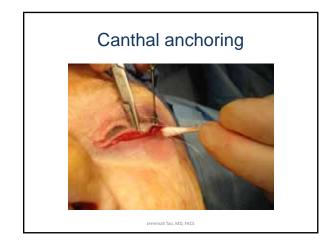
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### Dissection down to conjunctiva



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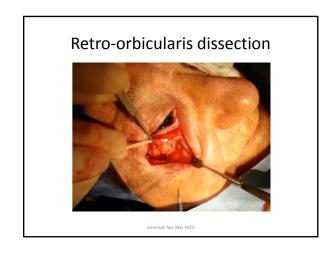


## Skin graft to lower eyelid

- Effective
- May leave an undesirable scar or noticeable tissue mismatch; patient selection is key:
  - Fair complexion
  - Rhytids (elderly)

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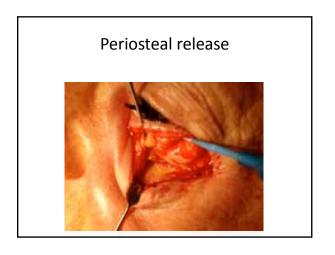


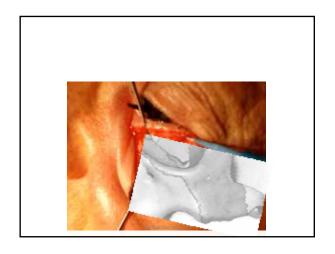


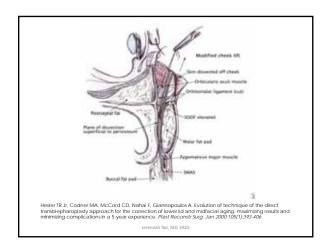




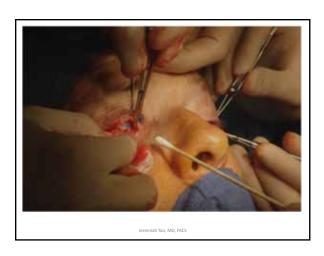


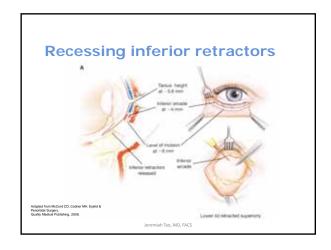




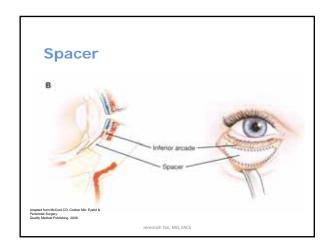




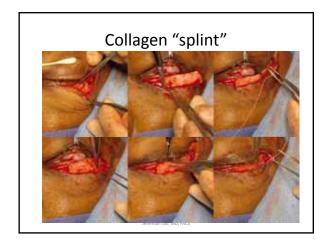


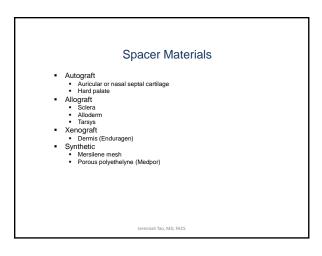


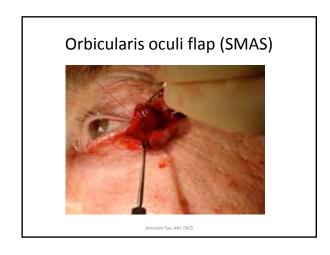






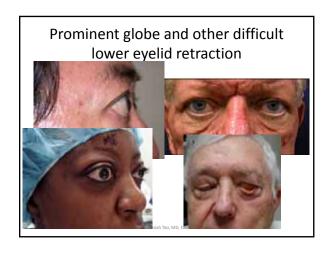




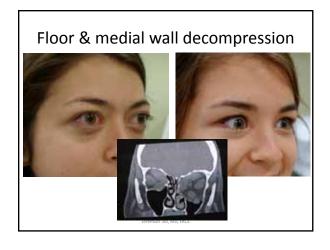








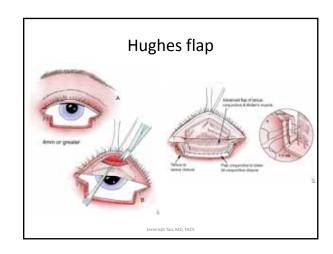


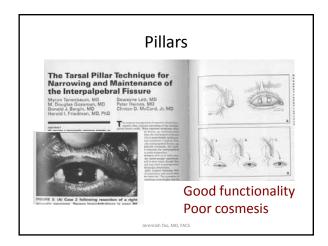


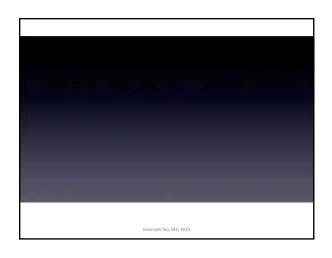


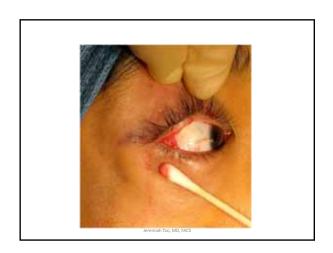








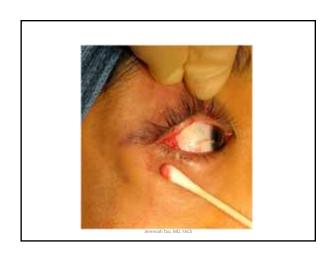




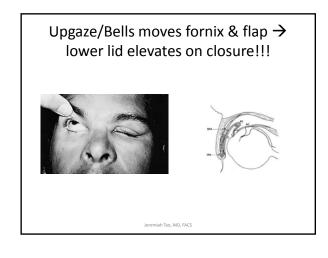
















#### Conclusions

- Correct treatment for lower eyelid malposition depends on clinical findings:
  - Laxity (horizontal & vertical)
     Snap test
     Lid distraction test
  - Prominent globeExophthalmometry
  - Midface ptosis and other vertical vectors
  - 2 finger test

  - Paralysis
    Study the blink!

Jeremiah Tao, MD, FACS

# Thank you! Jeremiah Tao, MD, FACS