

Office Based Injection Procedures in Laryngologic Care

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2/8/2026



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Disclosures

- None



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Learning Objectives

- Participants will gain a deeper understanding of the principals of vocal biomechanics related to glottic competence and mucosal pliability and how procedural alterations can lead to improved voice through office-based procedures
- Learners will gain competence in a number of office based injection techniques using a variety of approaches and injectable materials to improve vocal quality
- Participants will acquire the knowledge and skills necessary to incorporate office based injection techniques into their practice, including an understanding of indications, techniques, as well as equipment needs and billing and coding
- Patients will benefit from improved access to advanced specialty procedures closer to home without the need to seek out a fellowship trained laryngologist



Realistic goals



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Traditional Office Based Procedures in Laryngology

- Flexible laryngoscopy (31575)
- ...with biopsy (31576)
- ...with foreign body removal (31577)
- ...with (cold) excision of lesion (31578)
- Videostrobolaryngoscopy (31579)
- Chemodenervation, muscle of larynx (64617)
- Transnasal esophagoscopy (43197)



Next Generation Codes (2017)

- Therapeutic vocal fold injection (31573)
- Injection Medialization (31574)
- Office laryngoscopy with laser excision (31572)
- Superior Laryngeal Nerve Block (64408)
- Office esophageal dilation (43220 vs 43226)



Equipment and Setup



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Office



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Surgery Center



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Bedside



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Bedside



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Setup



Transoral injection instruments



Transnasal Flexible

- Working channel laryngoscopes

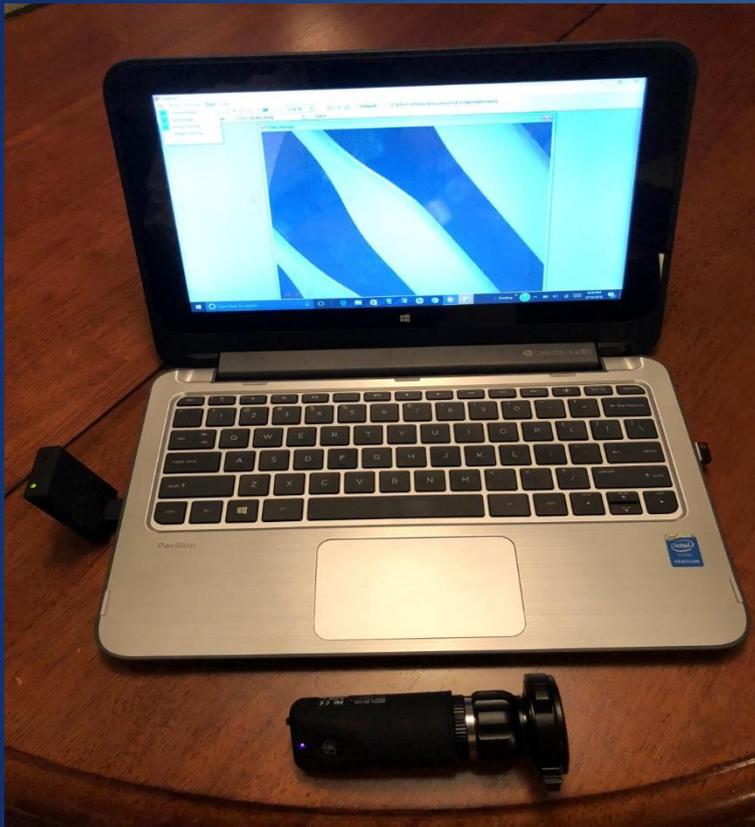


Transnasal Flexible

- Single-use working channel laryngoscopes



Doesn't have to be expensive



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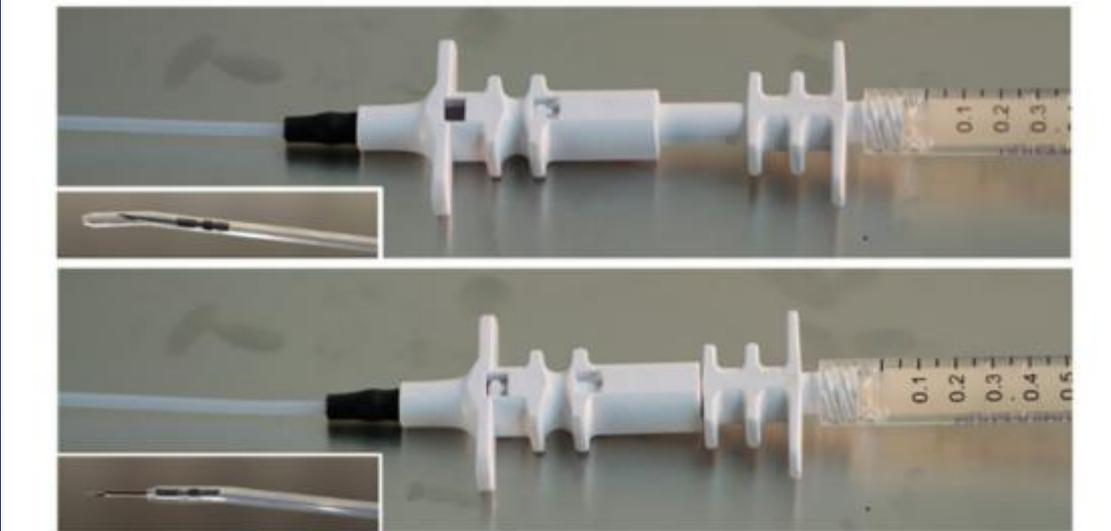


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Flexible injection instruments

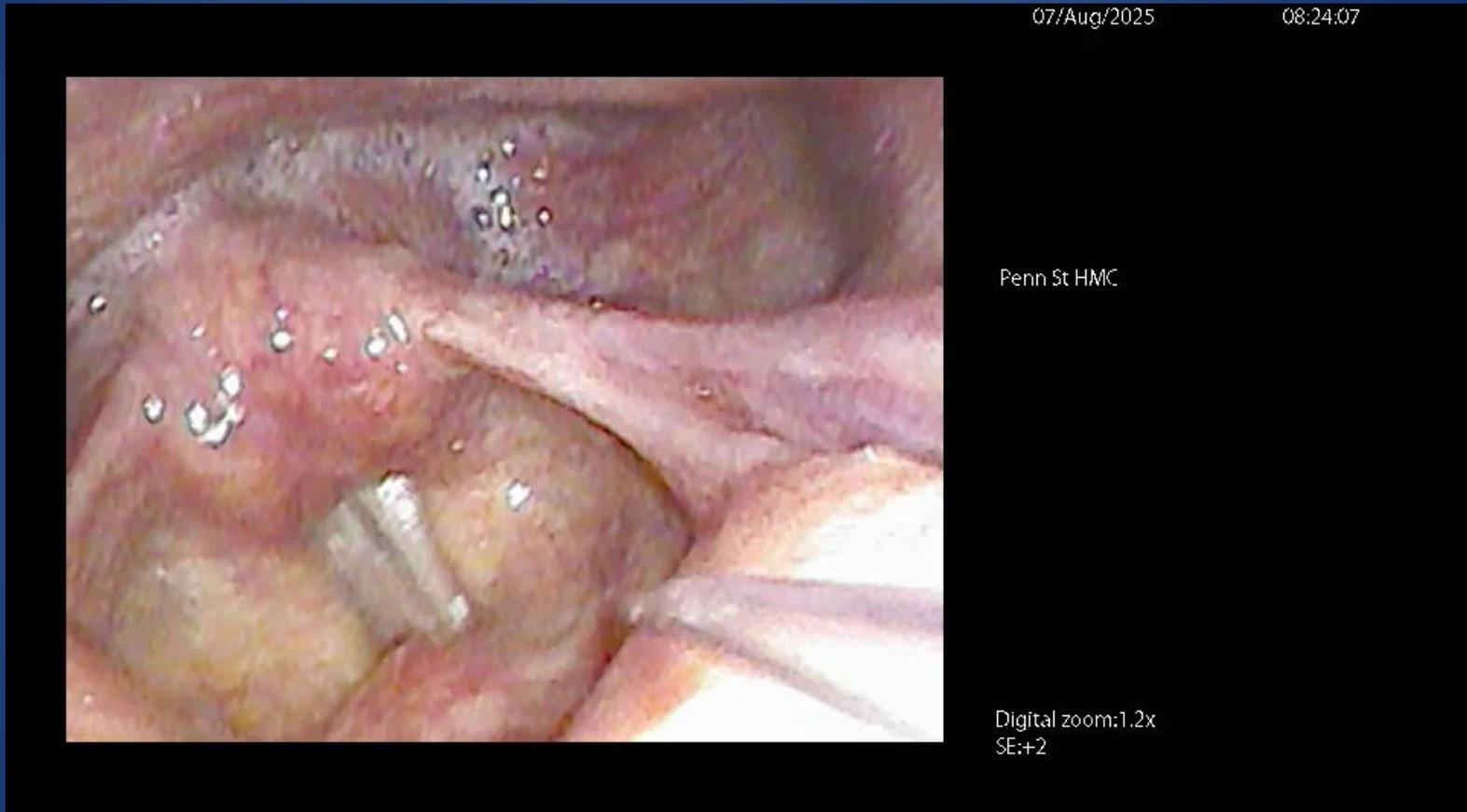


Flexible injection instruments

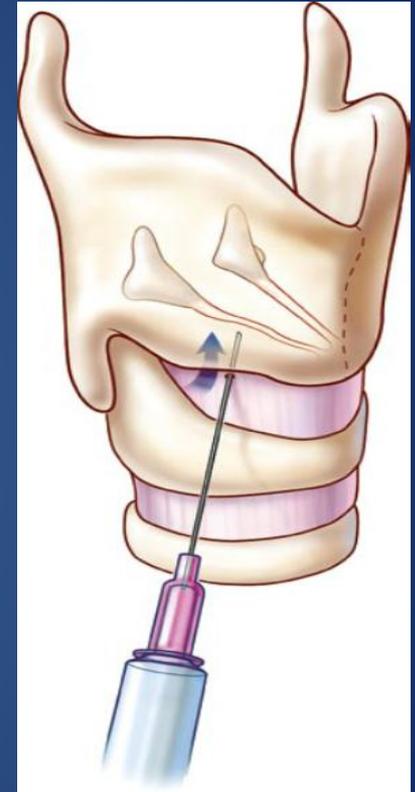
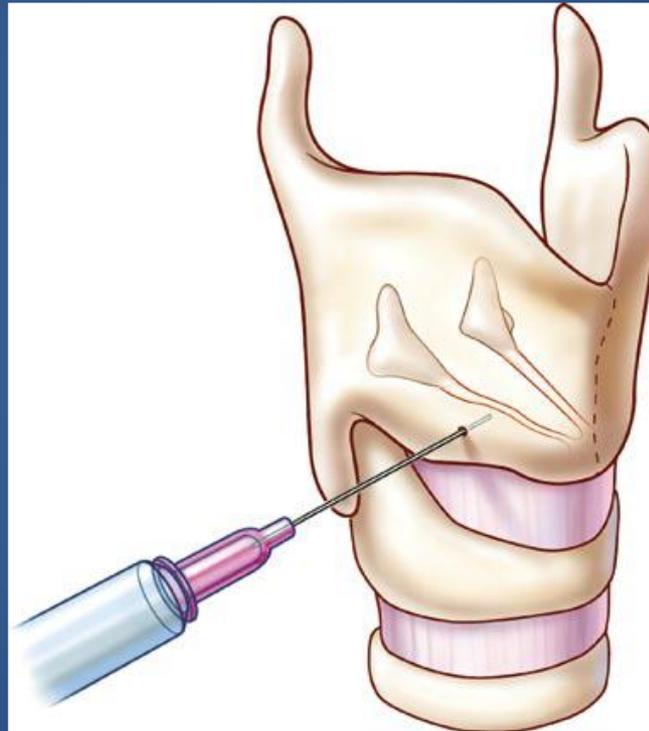
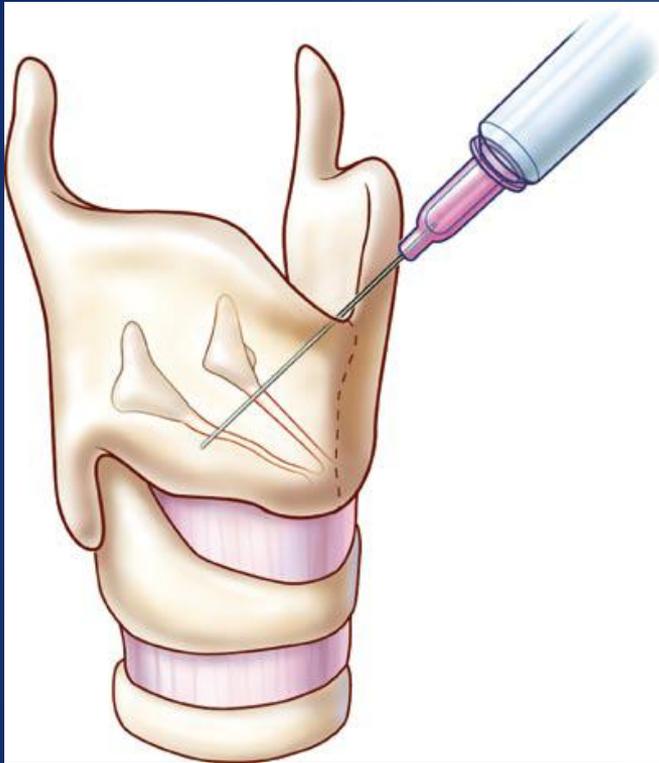


Silk Voice Injection catheter

20g epidural catheter



Standard hypodermics



Rosen and Simpson. Operative Techniques in Laryngology. Springer. 2008



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Techniques



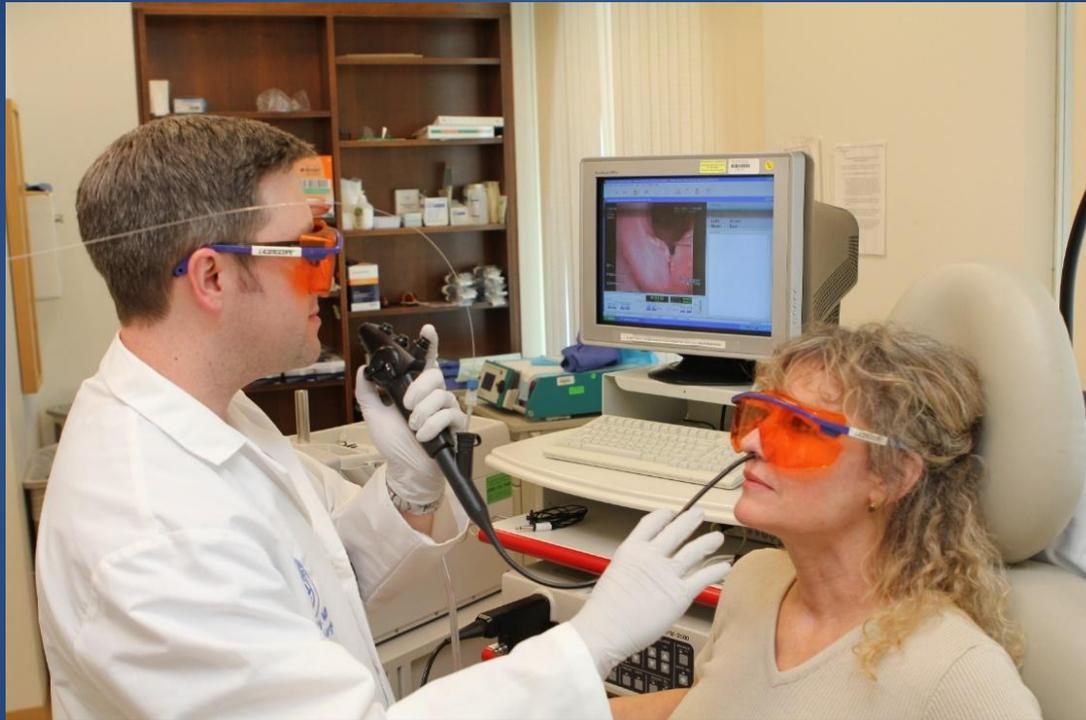
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Transnasal flexible



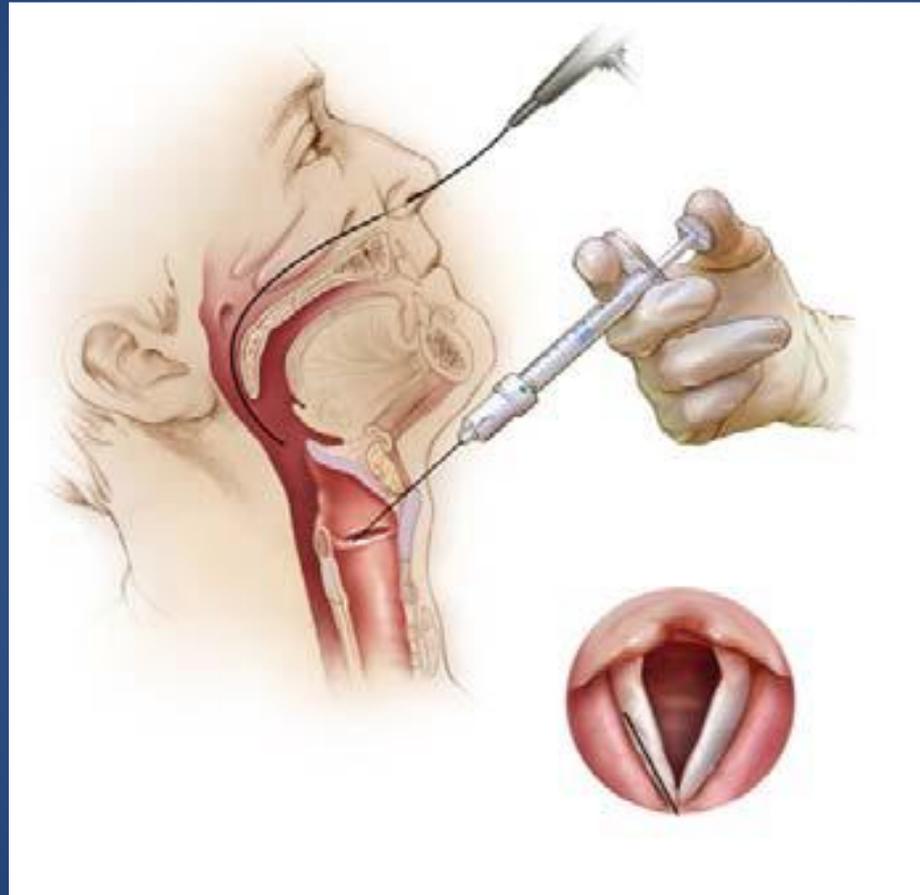
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Thyrohyoid



Merz



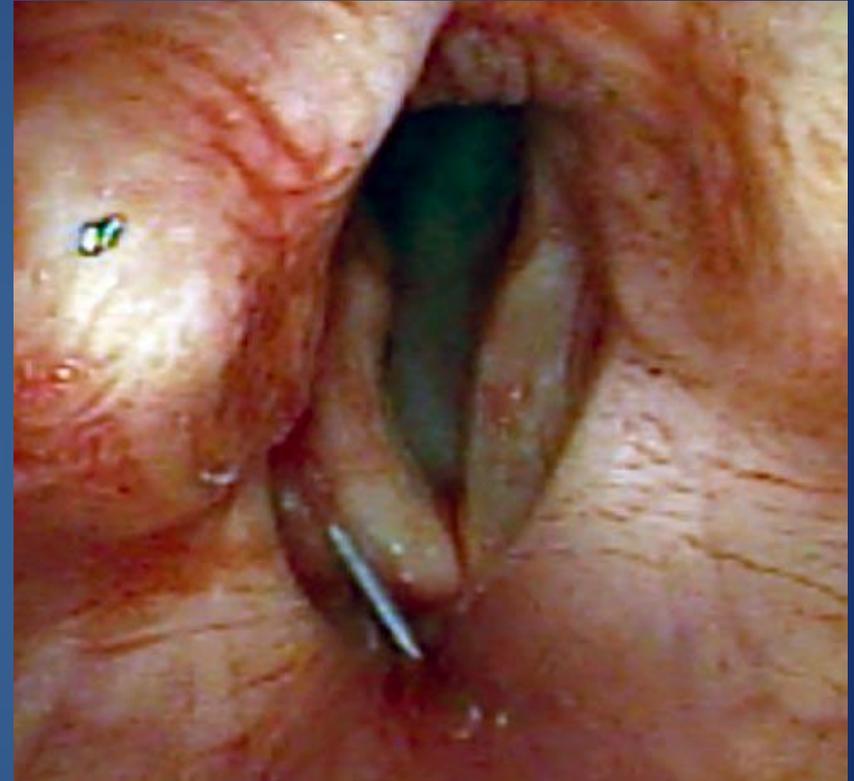
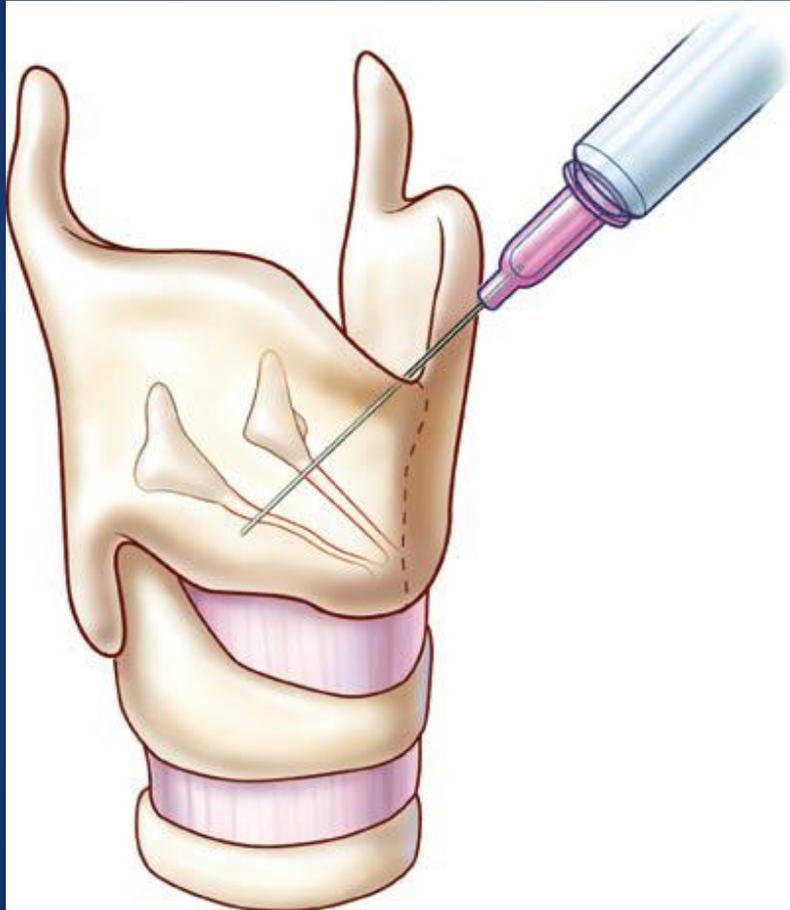
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Thyrohyoid



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Trans-oral



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Trans-oral



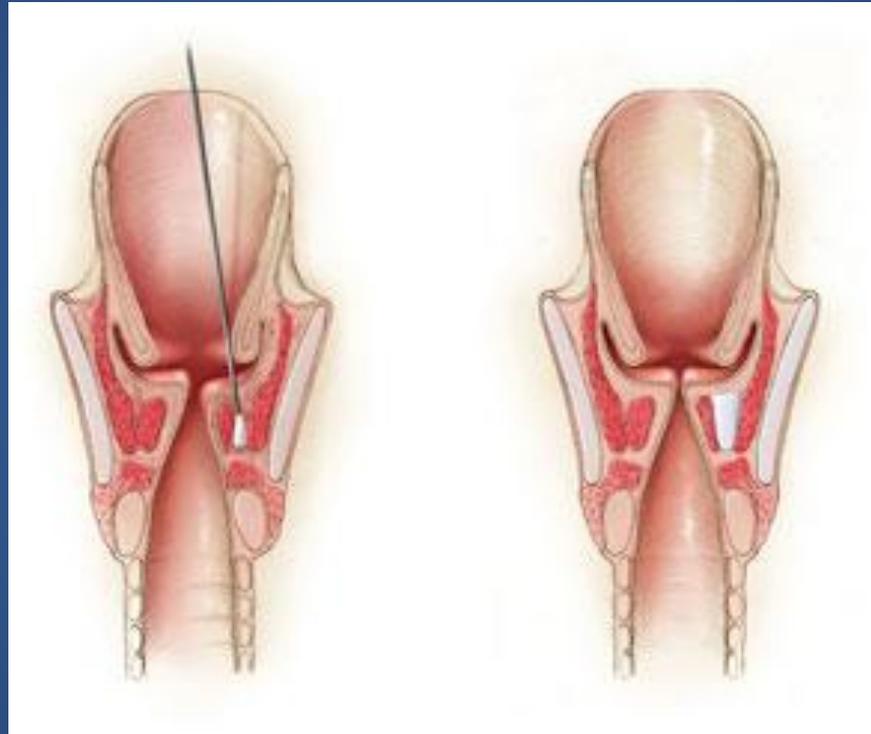
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Transoral



Rosen and Simpson. Operative Techniques in Laryngology. Springer. 2008



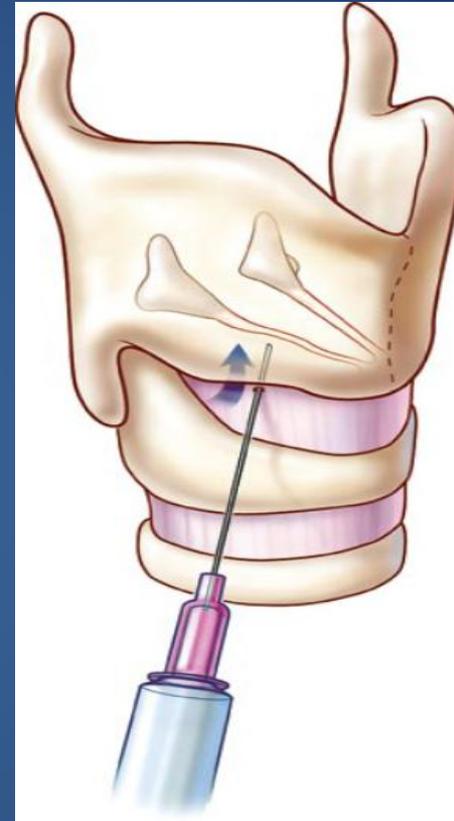
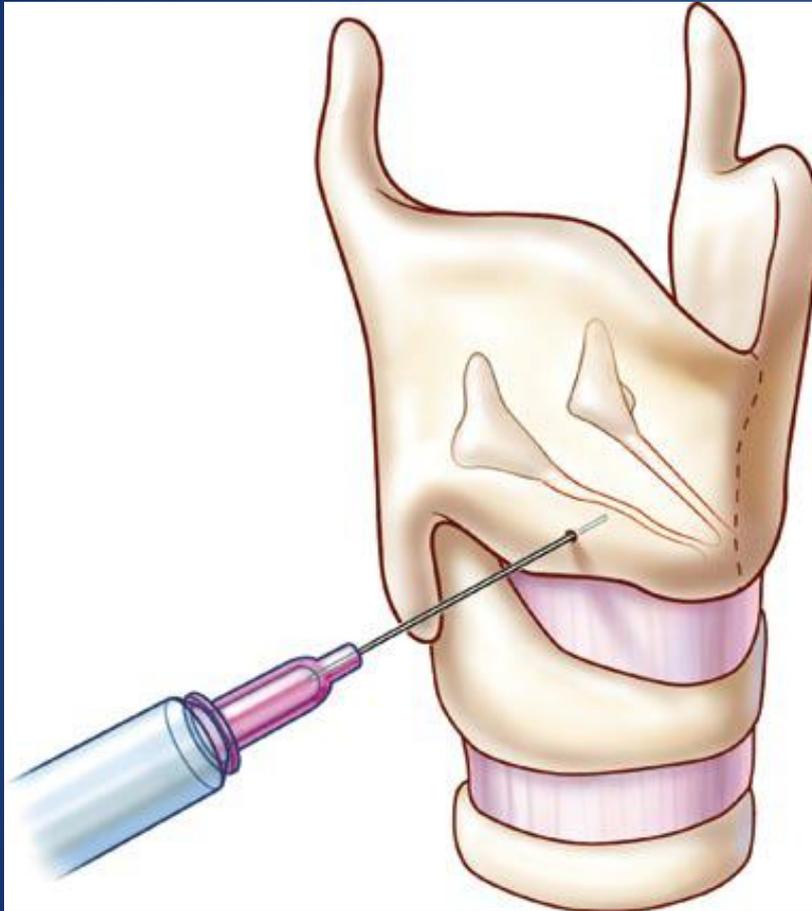
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Trans-thyroid/Cricothyroid



Rosen and Simpson. Operative Techniques in Laryngology. Springer. 2008.



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Therapeutic Laryngeal Injections

CPT 31573



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Therapeutic Injections

- Indications

- Granuloma
- Scar softening
- Sulcus
- Papilloma adjuvant
- Stenosis
- Dystonia
- Muscle tension dysphonia

- Technique

- Thyrohyoid
- Transoral
- Flexible injection system
- Trans-cartilaginous

- Materials

- Triamcinolone 10mg/mL
- Triamcinolone 40mg/mL
- Betamethasone
- Dexamethasone
- Saline
- 5 – fluorouracil
- Platelet rich plasma
- Botulinum toxin
- Bevacizumab

Pathology For Therapeutic Injections



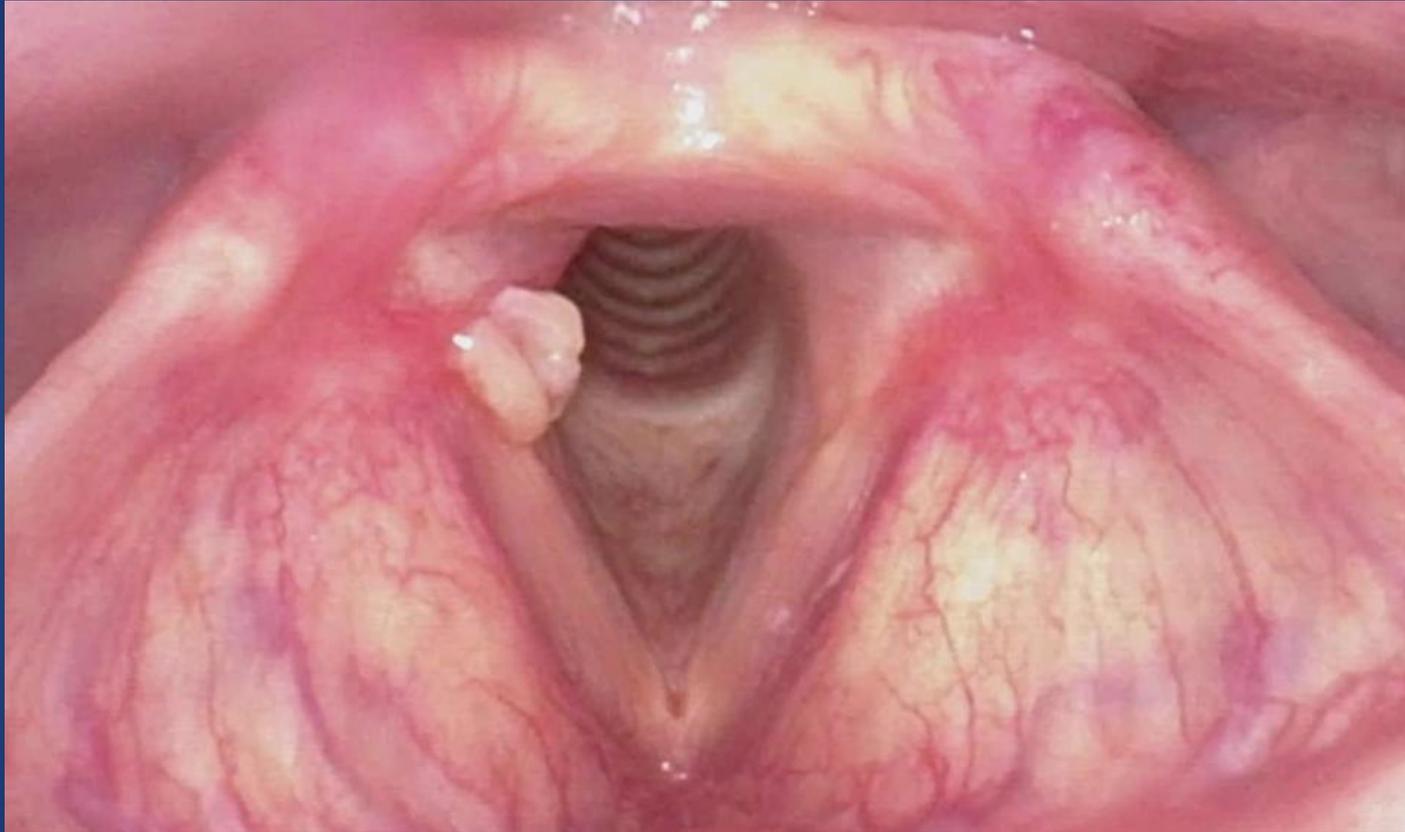
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Vocal Process Granulomas



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Vocal Scar



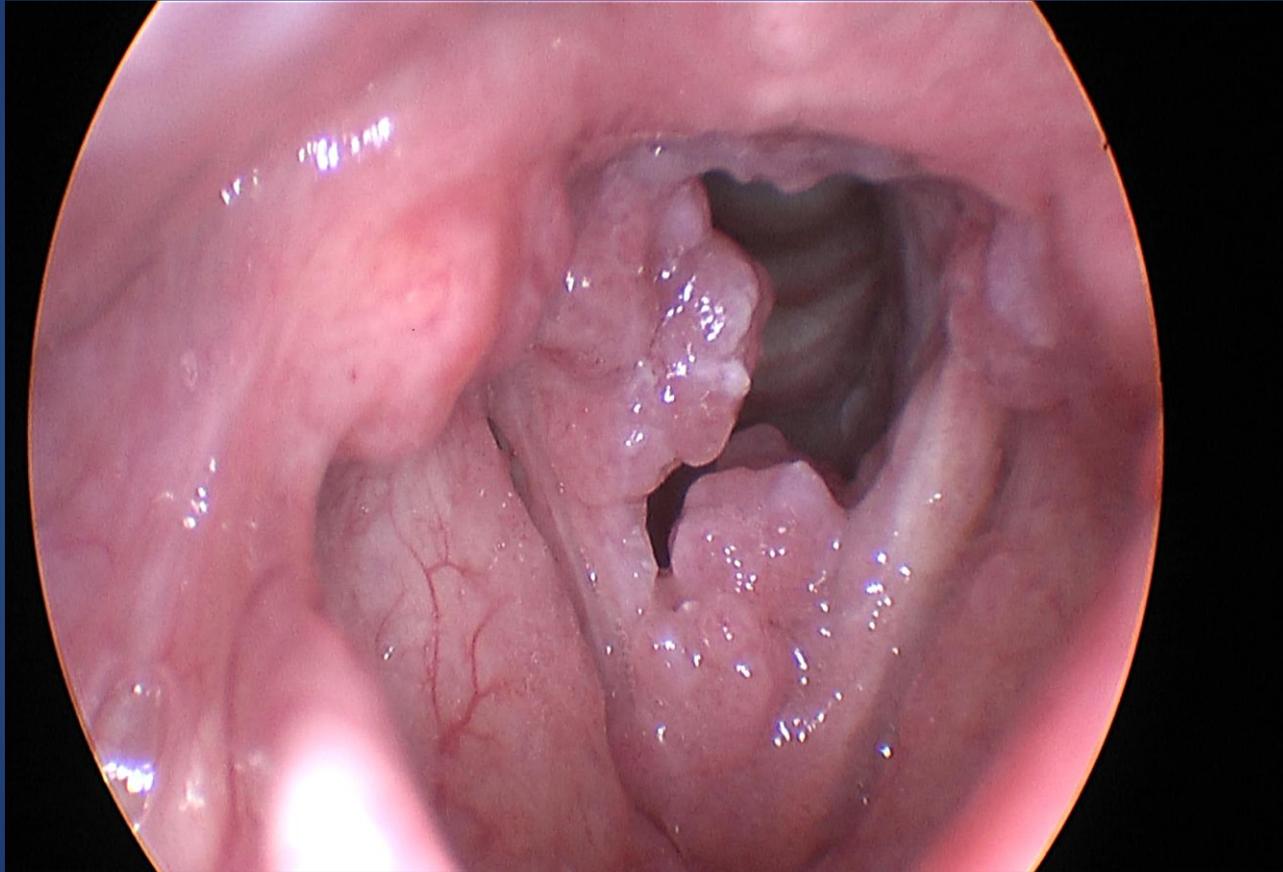
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Papilloma



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Subglottic Stenosis



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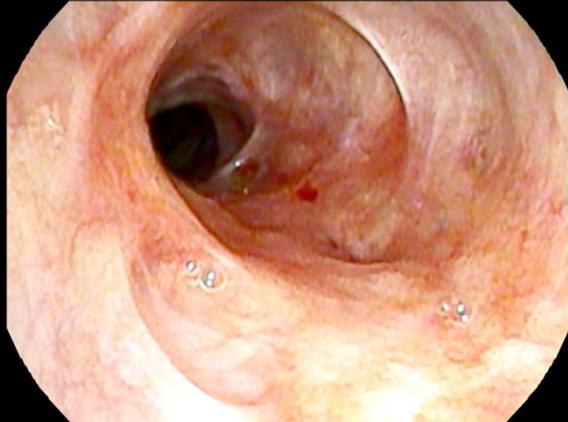
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Subglottic Stenosis

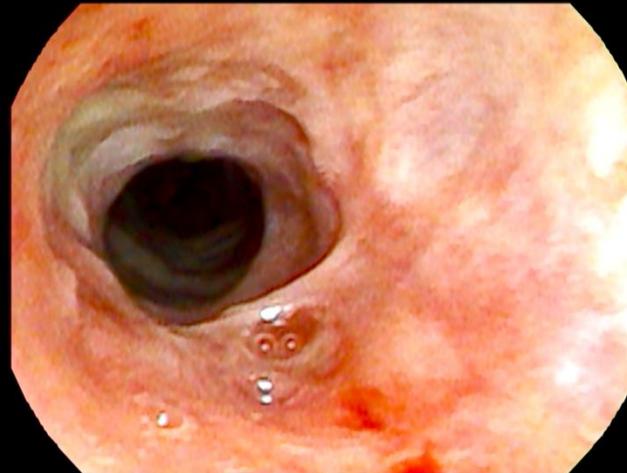
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Penn St HMC

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22/Dec/2021 12:21:04



Penn St HMC

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Examples



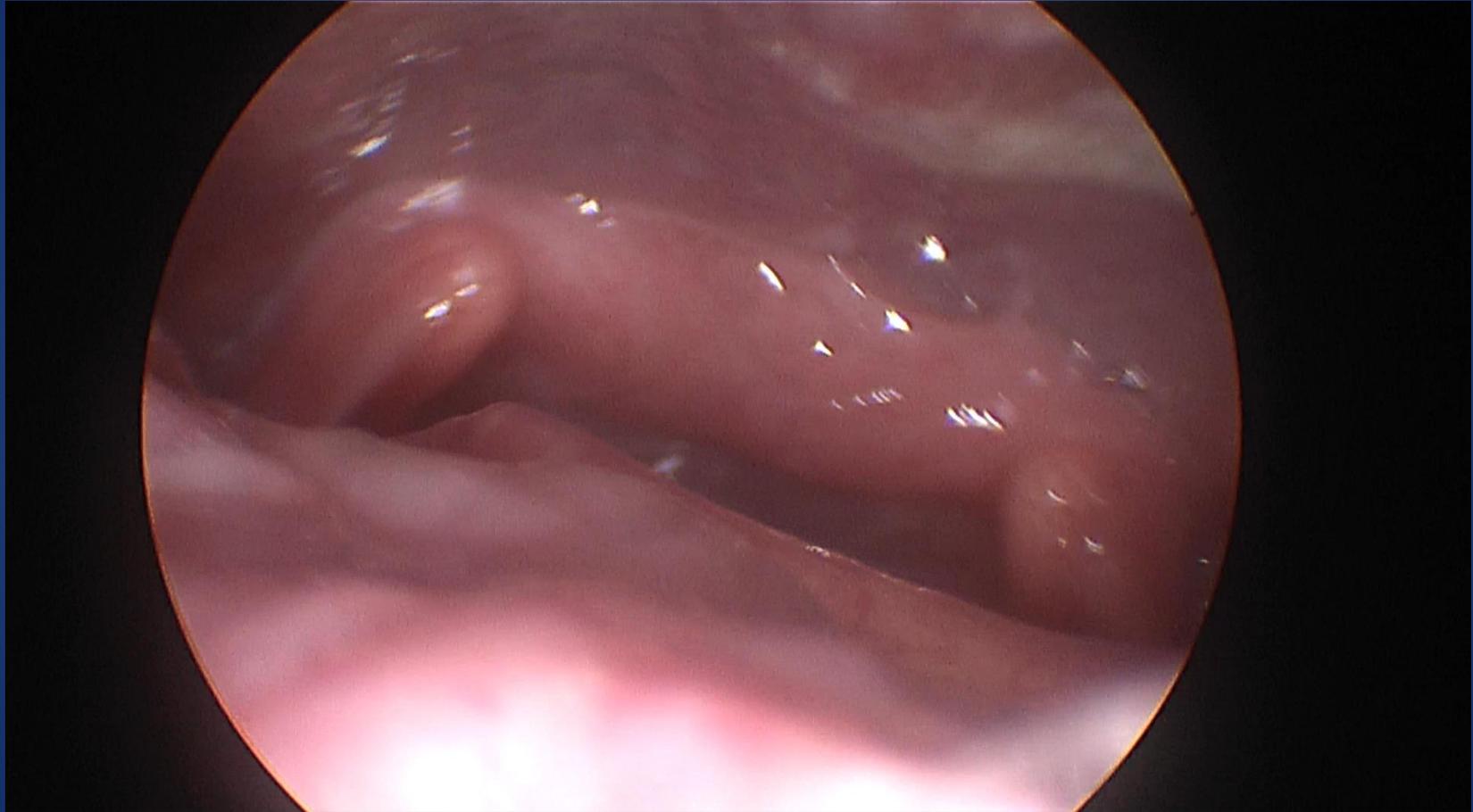
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Granulomas (rigid injector)



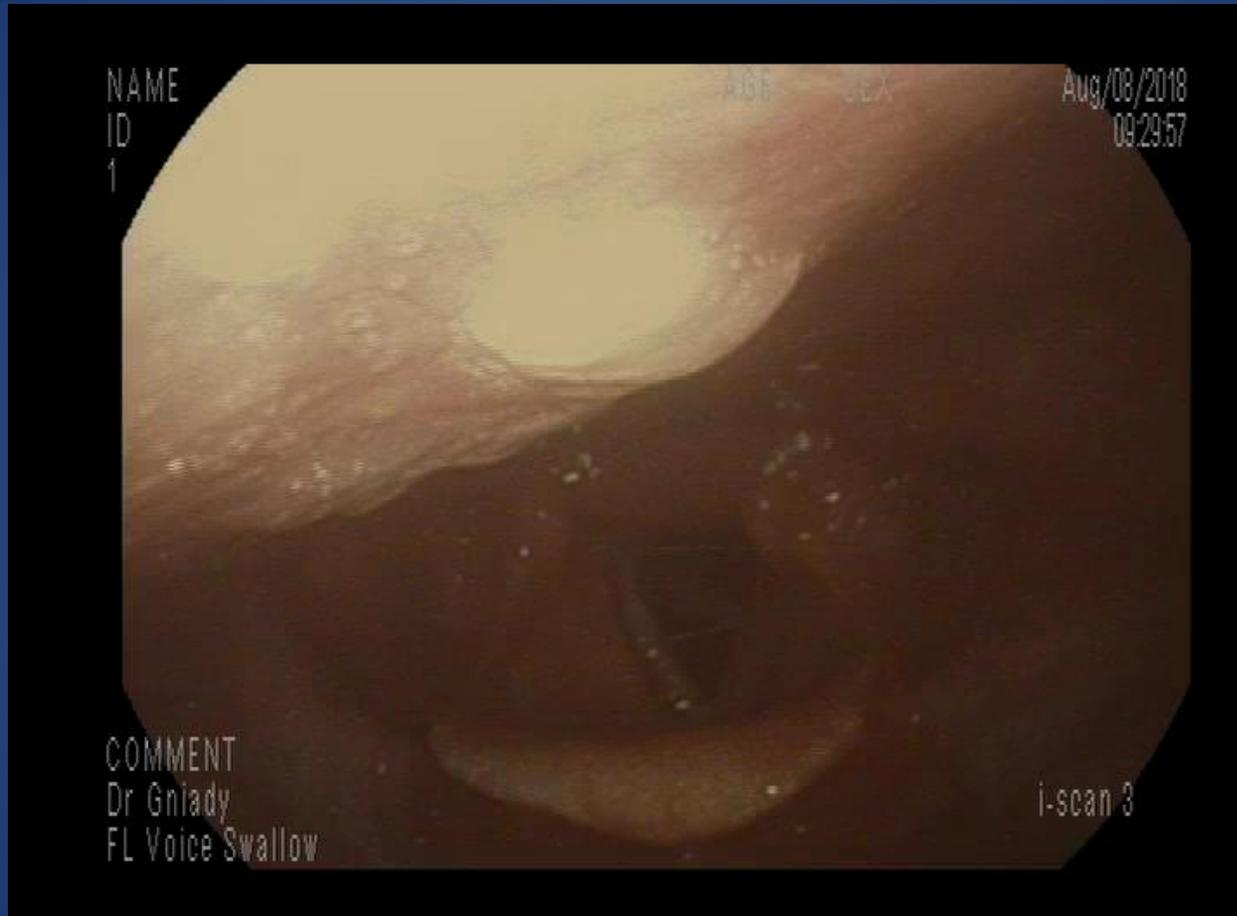
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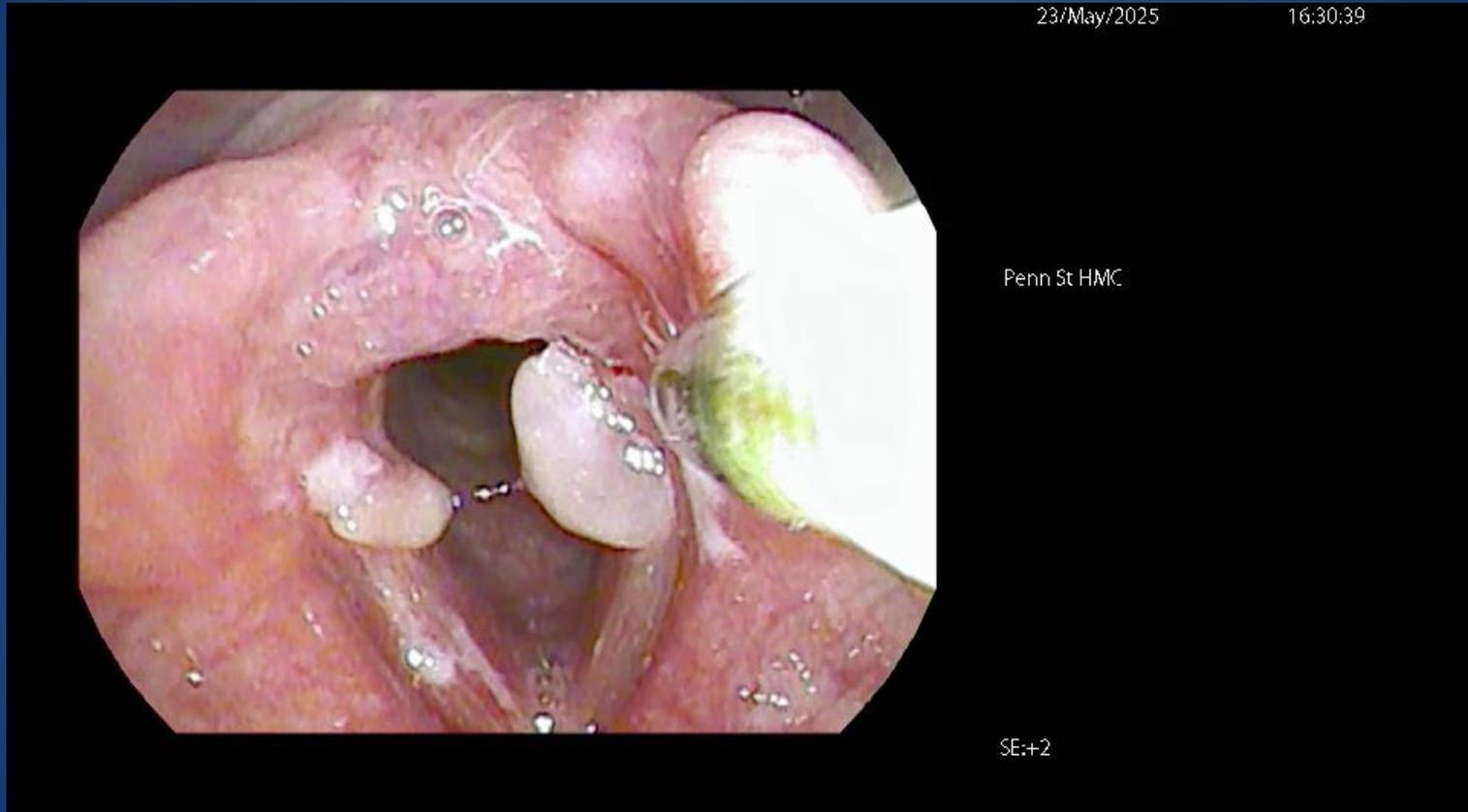


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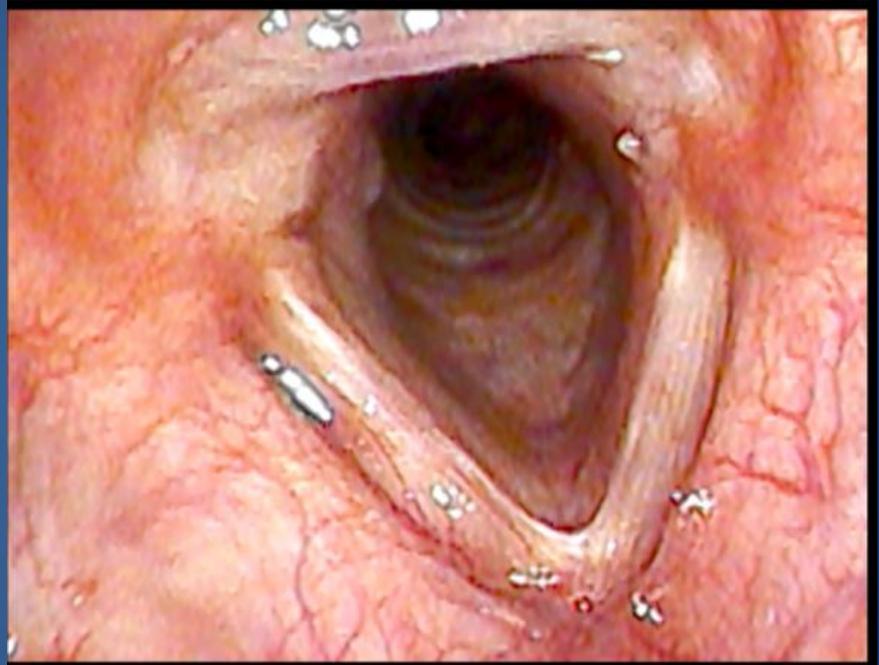
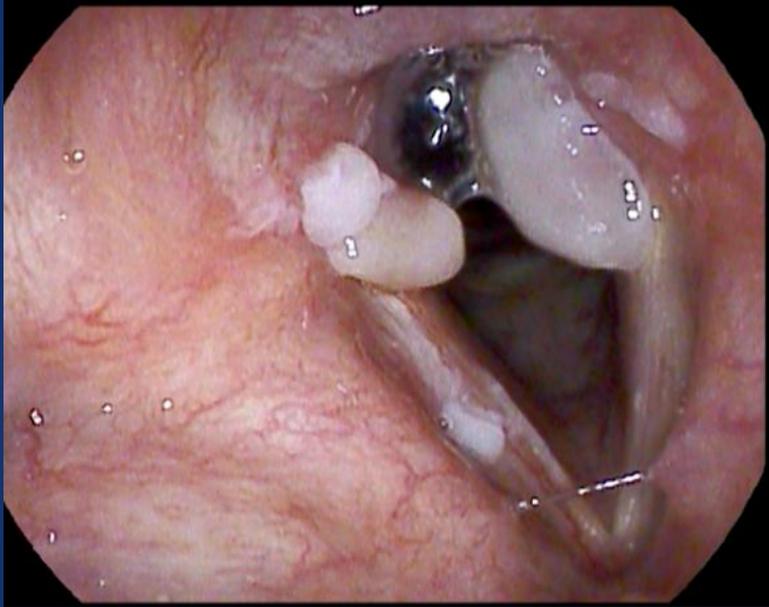
Granulomas



Flexible Granuloma Injections



Flexible Granuloma Injections



6 weeks post-injection

Hydrodissection

07/Aug/2025

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Subglottic Stenosis (flexible injector)



Injection Medialization

CPT 31574



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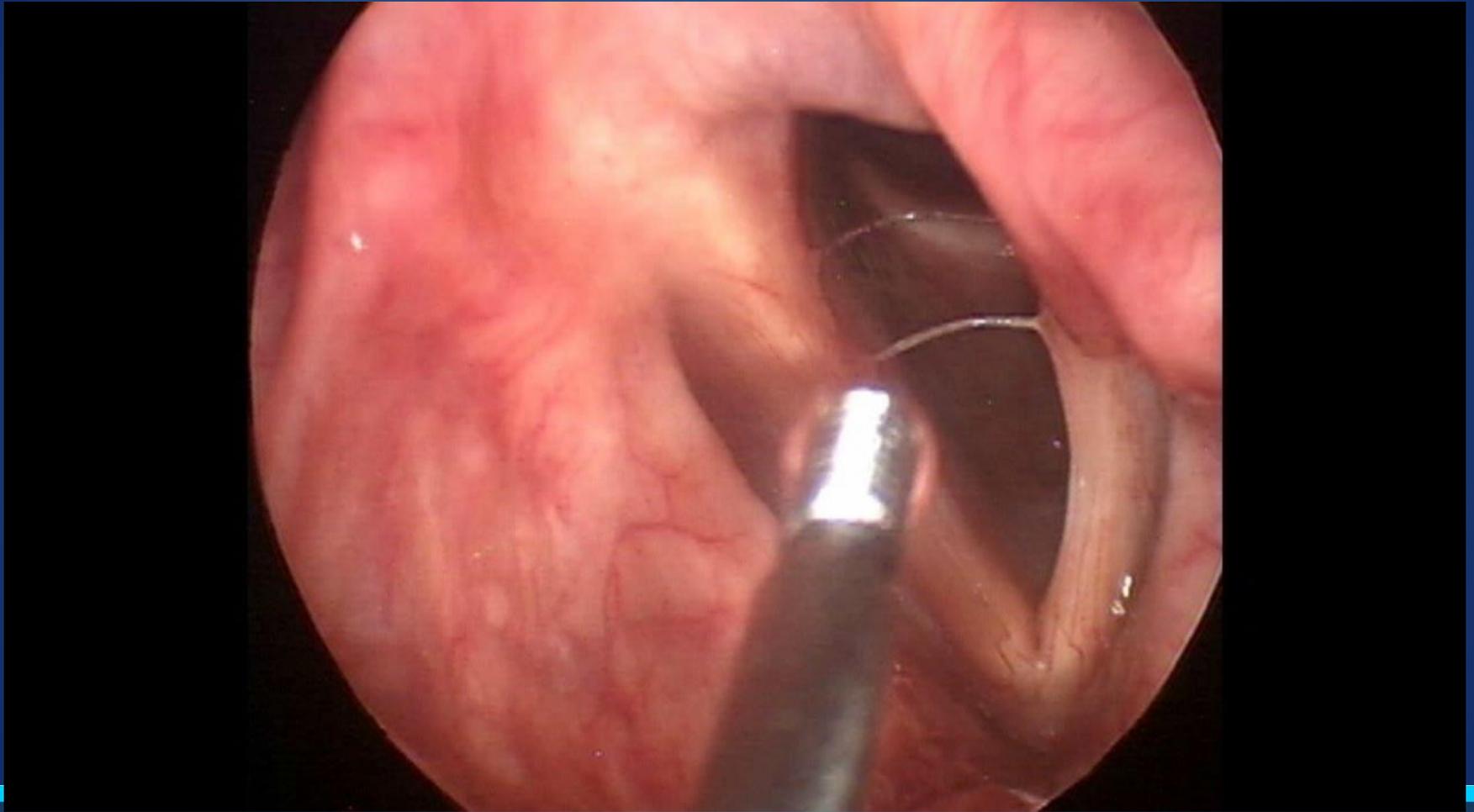
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Injection Medialization

- Indications
 - Vocal fold paresis/paralysis
 - Glottic insufficiency/Presbylarynx
- Technique
 - Thyrohoid
 - Transoral
 - Flexible catheter (Silk Voice)
 - Trans cartilaginous
- Materials
 - Carboxymethylcellulose
 - Calcium hydroxyappetite
 - Hyaluronic acid (HA)
 - Mecronized dermis
 - Silk HA



Transoral Injection Medialization



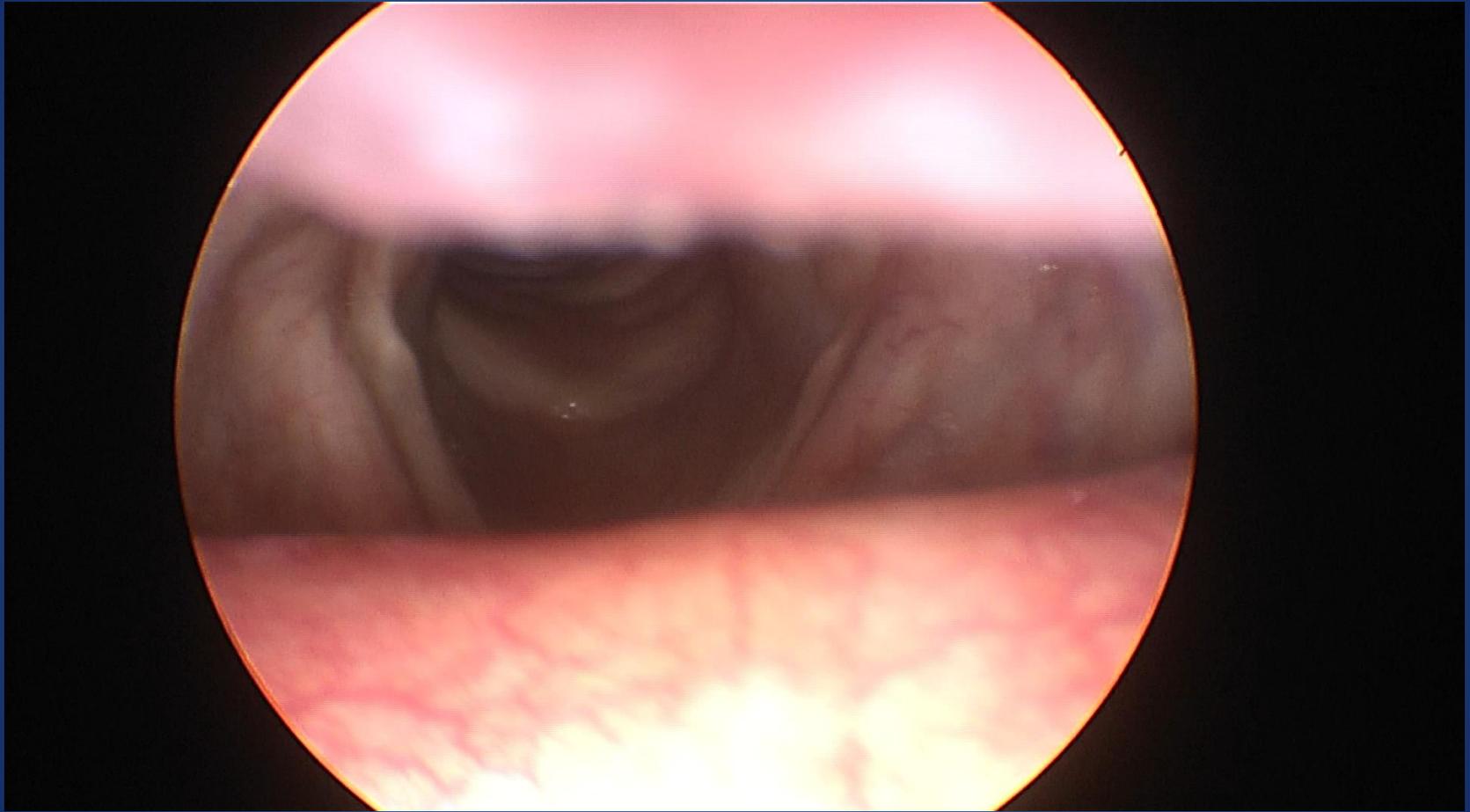
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Glottic Insufficiency/Presbylarynges



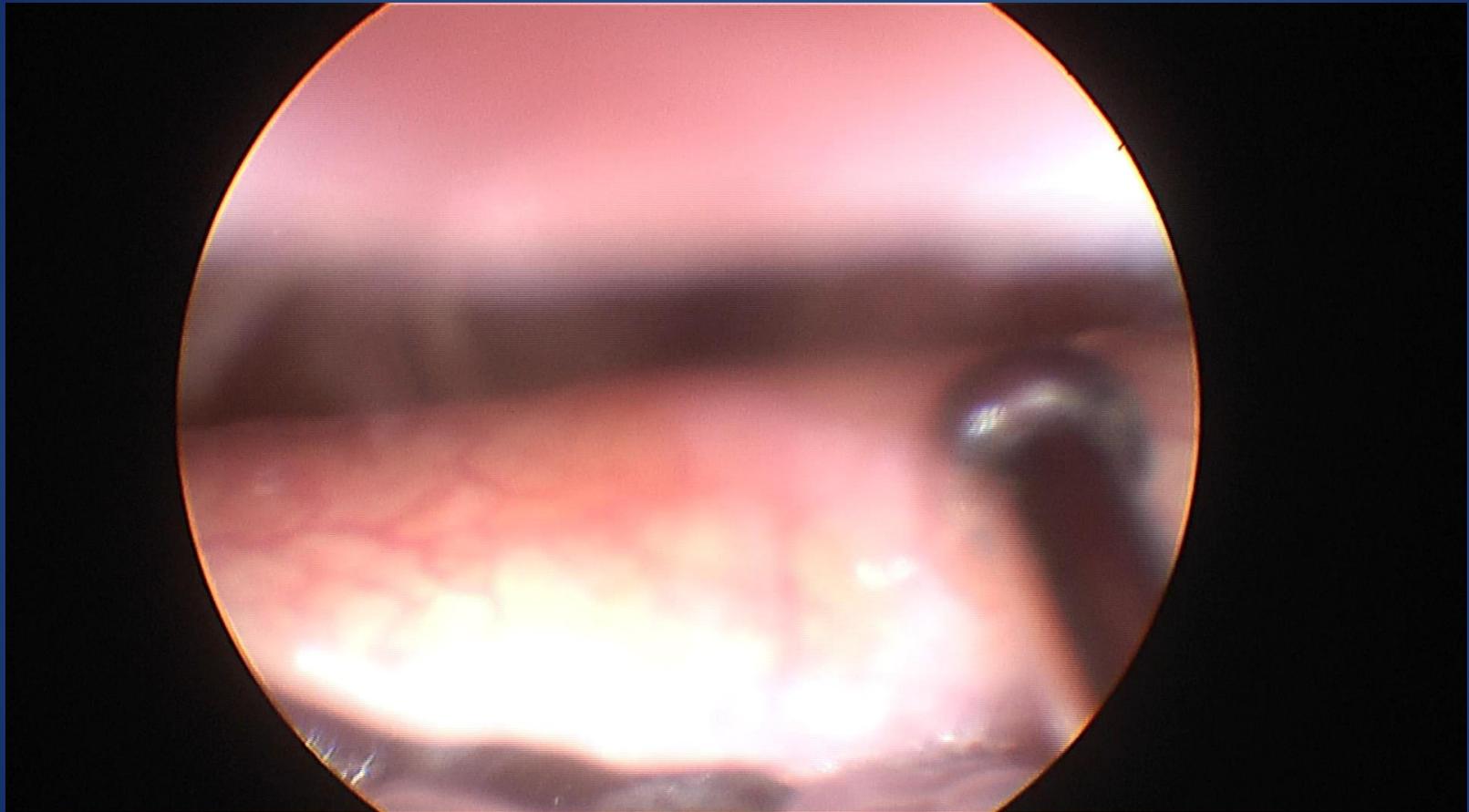
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Bilateral Injection Medialization



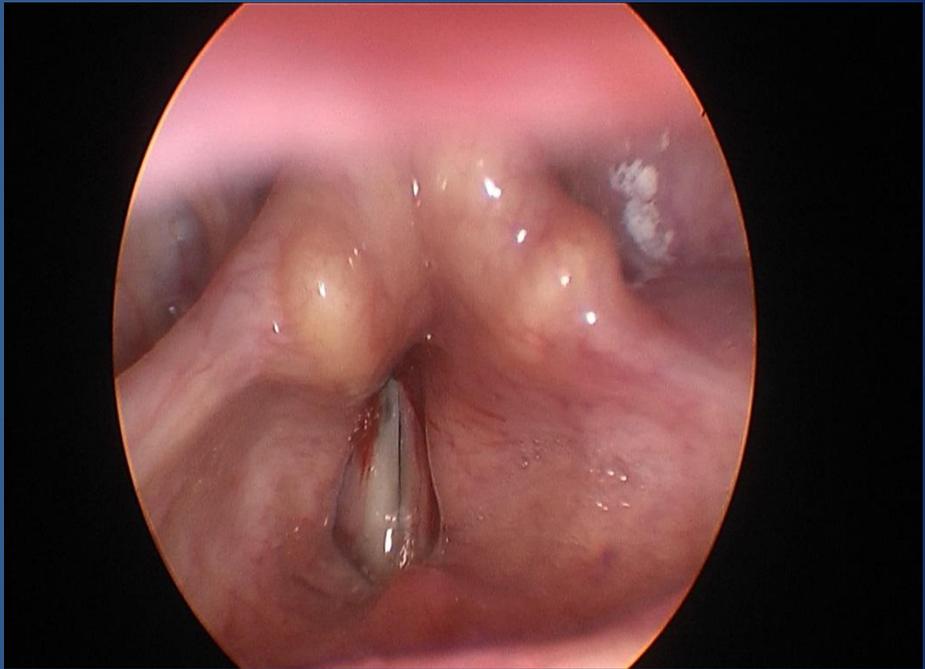
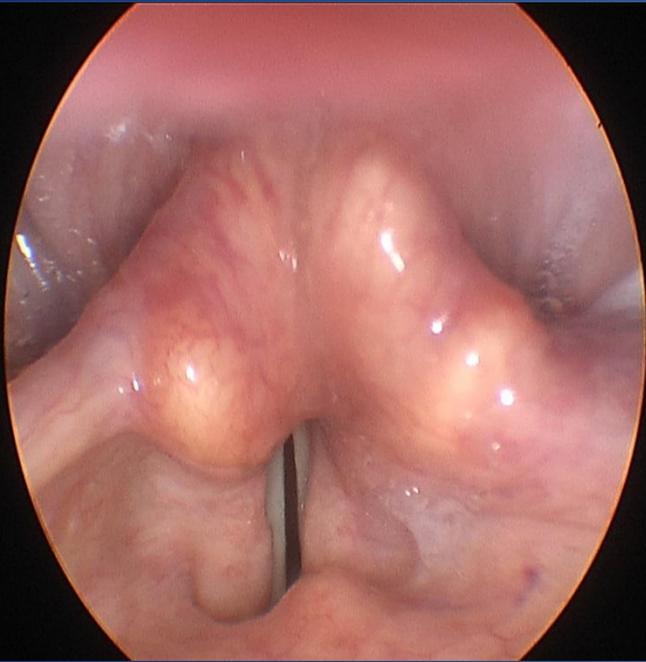
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Pre and Post Injection



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Pre and Post Injection



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Billing and Coding



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Billing for Office Injections

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- “Flexible” laryngoscopy with therapeutic injection
- Unilateral code
 - i.e. can use -50 modifier
- wRVU – 2.37
- Non-facility – \$284.67
- Facility - \$133.32
- Global – 0 days
- J - codes

- CPT 31574

- “Flexible” laryngoscopy with injection medialization
- Unilateral code
 - i.e. can use -50 modifier
- wRVU – 2.37
- Non-facility – \$872.20
- Facility - \$133.63
- Global – 0 days



Questions and Further Discussion



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