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# IFOS DUBAI ENT WORLD CONGRESS 2023

17 - 21 January 2023

**Dubai, UAE**

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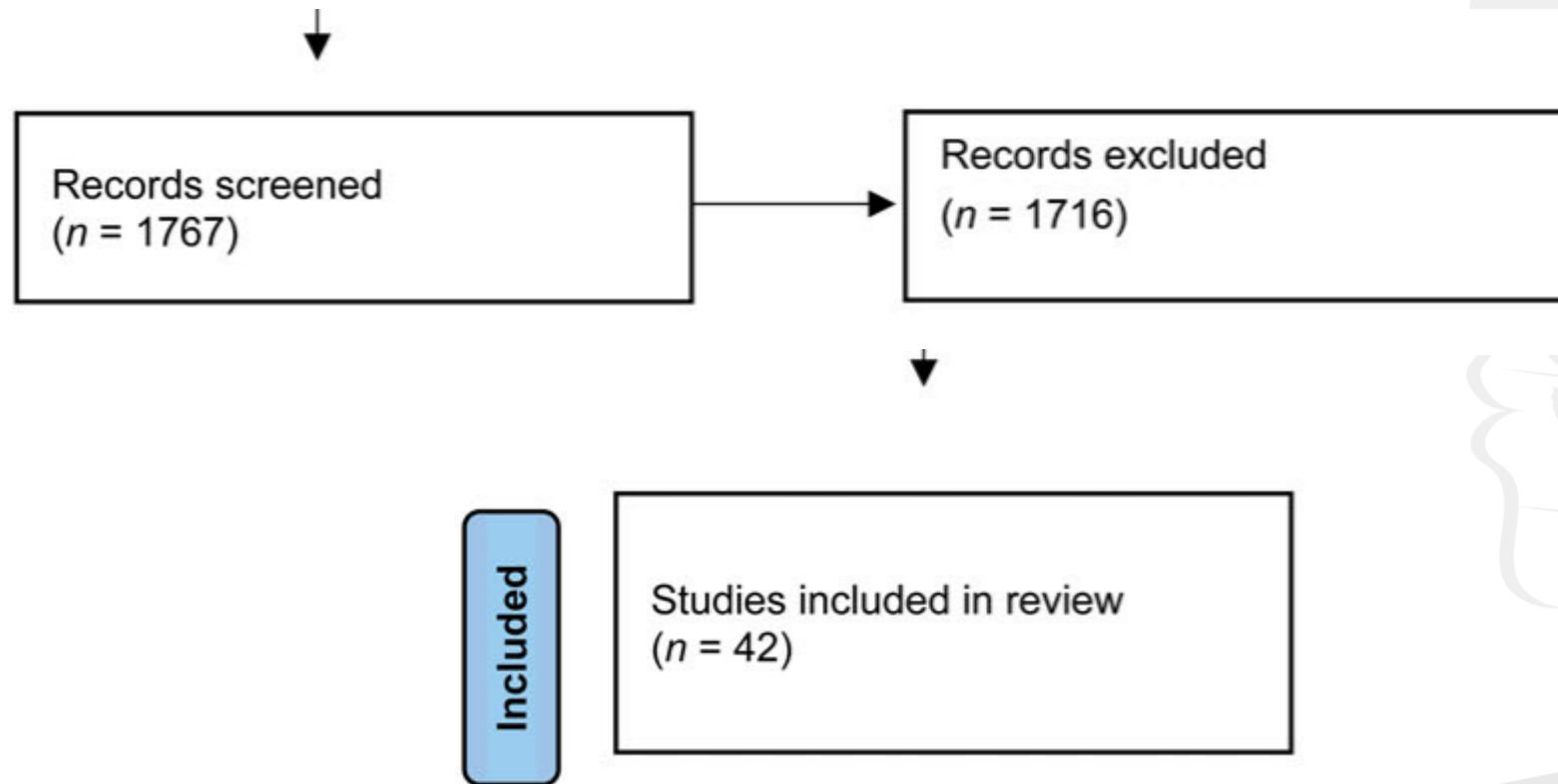
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# Dysplasia and early laryngeal tumours Functional outcomes and management

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# Functional assessment of voice

- [Functional outcomes of early laryngeal cancer - endoscopic laser surgery versus external beam radiotherapy: a systematic review.](#) Boyle K, Jones S.J Laryngol Otol. 2022 Oct;136(10):898-908. doi: 10.1017/S0022215121002887.



# Functional assessment of voice

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- Self-questionnaires
  - VHI is the most spread
  - Quality of life questionnaires
- Perceptual scoring of the voice
  - GRBAS (Hirano)
- Acoustic assessment of the voice
  - Easy and reliable measure: MPT
  - Other acoustic parameters with variable repetability



# Functional assessment of voice

- [Functional outcomes of early laryngeal cancer - endoscopic laser surgery versus external beam radiotherapy: a systematic review](#). Boyle K, Jones S.J Laryngol Otol. 2022 Oct;136(10):898-908. doi: 10.1017/S0022215121002887.
- 26 articles analyzed quality of life
- 23 articles analyzed voice outcomes:
  - Only one randomized clinical trial (GRBAS)
  - Two prospective studies (Electro-acoustic parameter: better voice with RT>TOLMS, and no difference in the other one)
  - 20 case-control studies
- 3 articles analyzed swallowing
  - Questionnaires, one with FEES



# Functional assessment of voice

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.....Surprisingly, no differences were found between the treatments



# Cordectomy

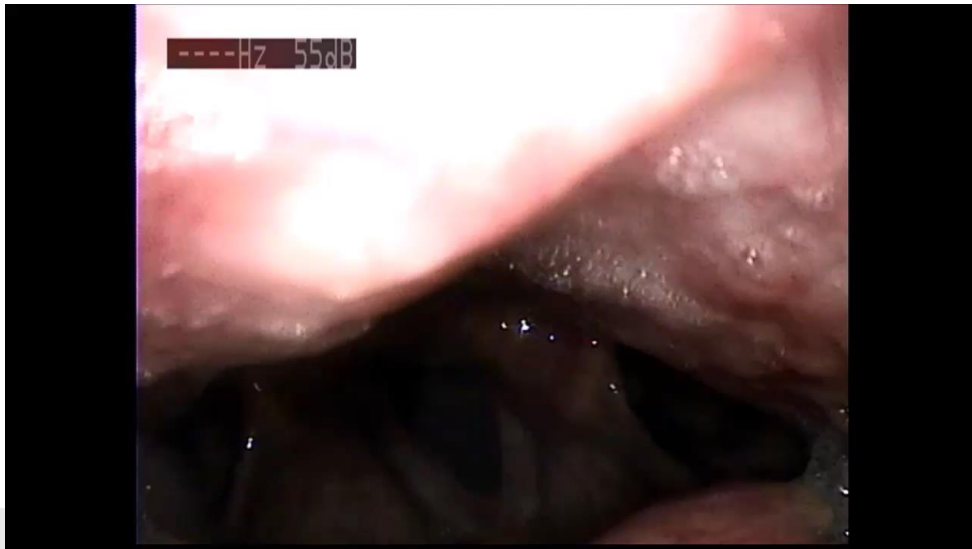
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- Functional consequences
  - Elarged glottal gap
    - Breathy, rough voice,
    - High pitched voice, strained voice
    - Possible transient inhalation
  - Vocal fold scars
    - Vocal fold rigidity
    - Anterior synechia



# Cordectomy

- Functional consequences
  - Elarged glottal gap
    - Breathy, rough voice,
    - High pitched voice, strained voice
    - Possible transient inhalation



- What can we do?
  - Try to reduce the glottal gap
    - Speech therapy
      - Improve compensation from controlat. VF
    - Augmentation
      - Injection/thyroplasty
      - In office/OR





# Cordectomy

- Functional consequences
  - Elarged glottal gap
    - Breathy, rough voice,
    - High pitched voice, strained voice
    - Possible transient inhalation

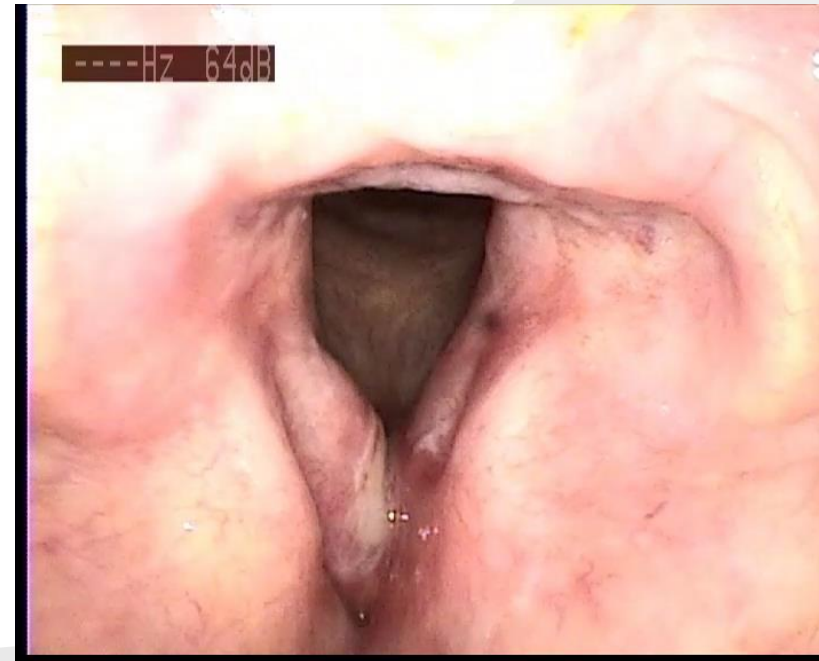
- What can we do?
  - Try to reduce the glottal gap



# Corpectomy

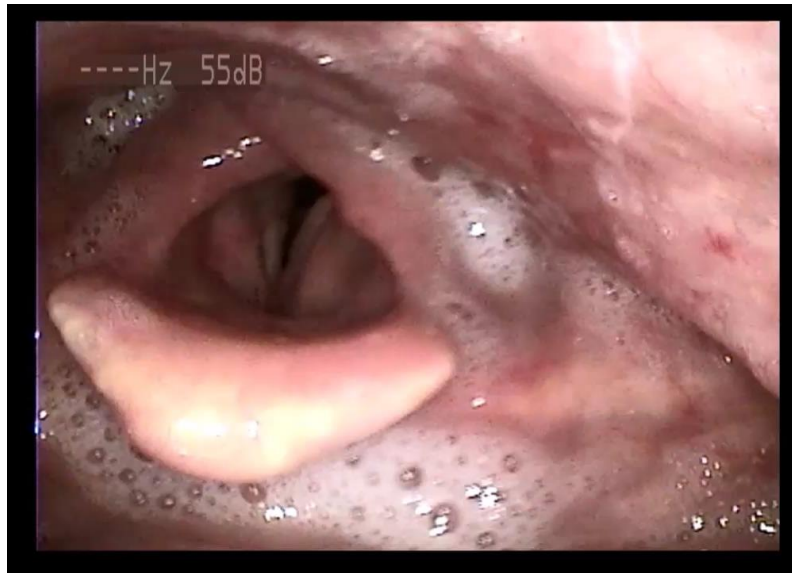
- Functional consequences
  - Vocal fold scars
    - Vocal fold rigidity
    - Anterior synechia

- What can we do?
  - Try to reduce the synechia

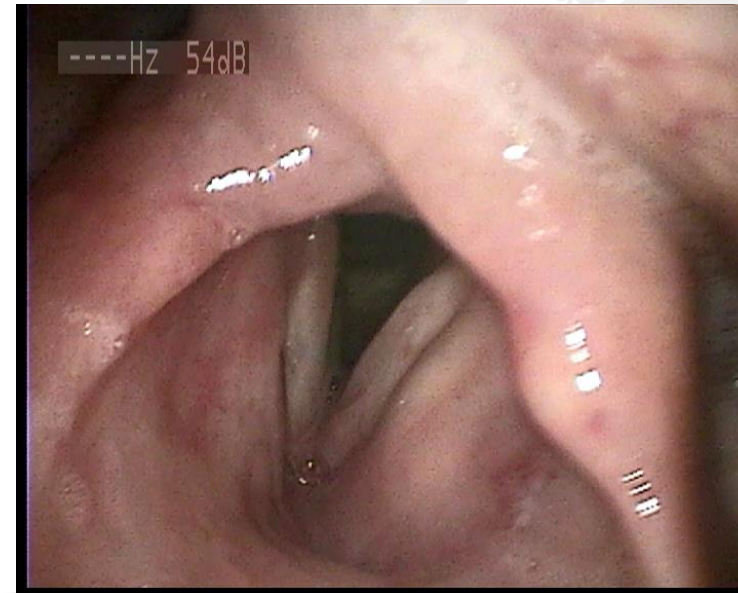


# Radiotherapy

- Oedema
  - Mucosa, muscles
- Rigidity
- Hypo/Immobility



- What can we do?
  - Try to mobilize the structures
    - Speech therapy ASAP
  - Try to reduce potential glottal gap in case of hypomobility



# Partial laryngectomy

- Wide glottal gap
  - Dysphonia
  - Dysphagia
  - Inhalations

[Swallowing ability and chronic aspiration after supracricoid partial laryngectomy.](#) Simonelli M, et al. Otolaryngol Head Neck Surg. 2010 Jun;142(6):873-8. doi: 10.1016/j.otohns.2010.01.035.

- What can we do?
  - adapt diet thickness to accurate assessment
  - Speech therapy
  - Very selected cases, augmentations injections





# Take home message

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- Functional outcomes after treatment for early glottic cancer are:
  - Life threatening, sometimes
  - decreasing quality of life, often
  
- Functional outcomes after treatment for early glottic cancer are always:
  - Underestimated
  - Underassessed
  - Misdiagnosed
  - Undertreated/non treated



Thanks for your attention!

**30<sup>th</sup> Congress of  
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