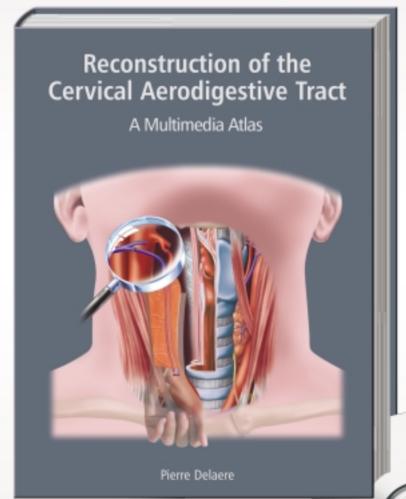
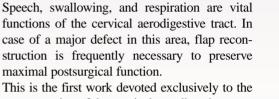
# Reconstruction of the Cervical Aerodigestive Tract

A Multimedia Atlas



Pierre Delaere, MD, PhD Professor of ORL Head & Neck Surgery University Hospital K.U. Leuven Belgium



Inis is the first work devoted exclusively to the reconstruction of the cervical aerodigestive tract. In this lavishly illustrated atlas, flap reconstruction of the larynx, trachea, hypopharynx, and cervical esophagus is covered. It provides step-by-step details of the technique leading to functional repair and improved quality of life.

### 442 images • 366 in color • demonstrate key concepts

160 pp, hardcover 290 mm x 220 mm

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€ **149.95** (Postage and handling are not included)

A DVD-VIDEO provides illustrations of the technical details. 34 movies included



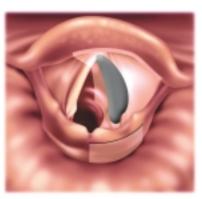
Leuven University Press Blijde-Inkomststraat 5 B-3000 Leuven Belgium Tel +32 16 32 53 45 Fax +32 16 32 53 52 info@upers.kuleuven.be



### **Chapter 1. Larynx Reconstruction**

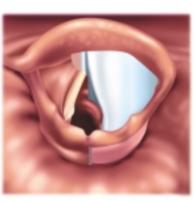
Illustrates the repair techniques of the larynx by using vascularized tissue transplants.



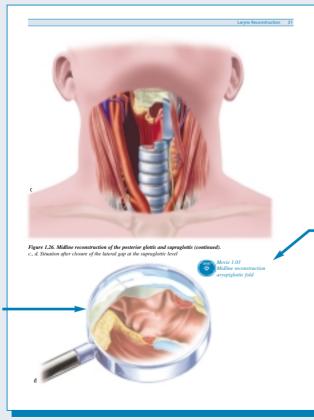


T3 glottic cancer with delineation of amount of resection





The optimal reconstruction of the laryngeal defect after resection of an advanced unilateral tumor is shown



#### CONTENTS

Introduction Anatomy Total laryngeal replacement Partial laryngeal defects that may need flap reconstruction Reconstruction of the glottic/subglottic defect The battle of speech and swallowing versus respiration The reconstructive tissue Overview of tracheal autotransplantation First stage reconstruction  $-T_3$  glottic cancer

Second stage reconstruction - T<sub>3</sub> glottic cancer Closure of tracheostomy

Stenosis after tracheal autotransplantation

Tracheal autotransplantation for chondrosarcoma Treatment of chondroradionecrosis

- 17 movies on larynx reconstruction included
  - 1. Tracheal autotransplantation overview
  - 2. Tumor resection T3 glottic cancer
  - 3. Midline reconstruction aryepiglottic fold
  - 4. Radial forearm flap
  - 5. Tracheal revascularization
  - 6. Temporary reconstruction and function after first operation
  - 7. Removal of skin flap from defect
  - 8. Tracheal isolation
- 9. Tracheal transplantation
- 10. Mediastinal trachea to reconstructed larynx
- 11. Closure of tracheostomy
- 12. Closure of tracheostomy with pectoralis major muscle
- 13. Function after tracheostomy closure
- 14. Tumor resection chondrosarcoma
- 15. Function after resection chondrosarcoma
- 16. Revascularization chondroradionecrosis
- 17. Delayed exposed skin grafting

Enlarged lateral view to show procedure in detail



### **Chapter 2. Trachea Reconstruction**

Highlights the tissues that may be used to correct a tracheal restenosis after segmental resection, a long-sement tracheal stenosis and a combined posterior glottic /subglottic stenosis.



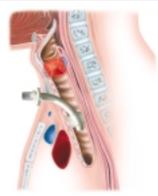
Restenosis before and after reconstruction



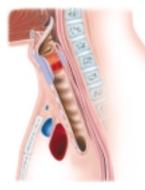


Long-segment stenosis before and after reconstruction





Combined glottic/subglottic stenosis before and after reconstruction

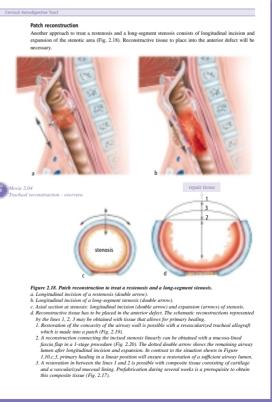


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Introduction Anatomy Trachea transplantation Tracheal defects that may need flap reconstruction The reconstructive tissue Restenosis Long-segment stenosis Combined posterior glottic and subglottic stenosis Stenosis after percutaneous dilatational tracheotomy Future prospects

#### 10 movies on trachea reconstruction included

- 1. Experimental tracheal transplantation
- 2. Tracheal resection
- 3. Limits in reconstruction of tracheal stenosis
- 4. Tracheal reconstruction overview
- 5. Experimental tracheal reconstruction: search for optimal tissue
- 6. Mucosa-lined fascia for restenosis
- Mucosa-lined fascia for long-segment stenosis
  Mucosa-lined fascia for combined subglottic and posterior glottic stenosis 1.
- Mucosa-lined fascia for combined subglottic and posterior glottic stenosis 2.
- 10. Healing of tubes of autologous cartilage





## Chapter 3. Reconstruction of Hypopharynx and Cervical Esophagus

Highlights reconstruction of partial and total pharyngectomy defects after cancer surgery as well as reconstruction for stenosis.



Reconstruction of partial pharyngectomy defect

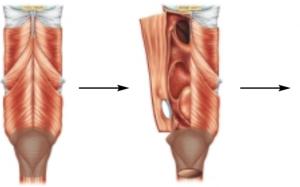
Postcricoid

stenosis after

chemoradiation

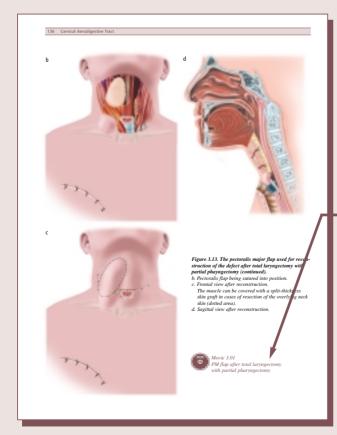


Reconstruction after total laryngopharyngectomy



-

Tube reconstruction to bypass stenosis



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Introduction Defects that may need flap reconstruction

- Reconstruction after tumor removal without laryngectomy Breakdown of the pharyngeal closure line after laryngectomy Partial pharyngectomy
  - Total pharyngectomy
  - Total pharyngo-esophagectomy
  - Defects resulting from stenosis

Reconstructive tissue

- Muscle and musculocutaneous flap Fasciocutaneous flaps Visceral flaps
- 7 movies on reconstruction of pharynx and cervical esophagus included
  - 1. PM flap after total laryngectomy with partial pharyngectomy
- 2. Protection of pharyngeal closure line
- 3. Harvesting free jejunum
- 4. Free jejunum tube
- 5. Hypopharyngeal reconstruction general principles
- 6. Free jejunum patch 1
- 7. Free jejunum patch 2