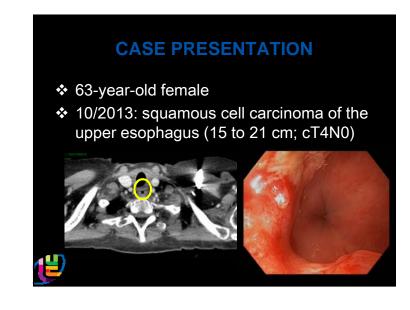
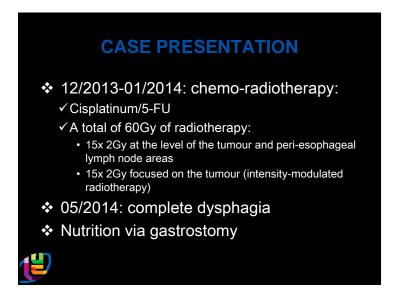
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A LONG ESOPHAGEAL STRICTURE: SURGERY VS. ENDOSCOPIC APPROACH
Christophe Stratamoet Habort Pierseryaux Cliniques Universitaires Saint-Luc, Bruxelles

BSGLE
Louven, September 17th 2015







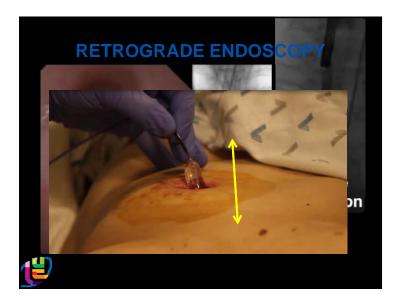
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QUESTION #1: NEXT STEP?

- 1. PET-CT
- 2. Retrograde endoscopy
- 3. EUS to exclude underlying mass
- 4. Fluoroscopy-guided puncture with an EUS-needle and passage of a guidewire





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QUESTION #1: ANSWER

- 1. PET-CT
- 2. Retrograde endoscopy
- 3. EUS to exclude underlying mass
- 4. Fluoroscopy-guided puncture with an EUS-needle and passage of a guidewire



QUESTION #2: NEXT STEP?

- 1. Cervicostomy
- 2. Esophagectomy (+ colon interposition)
- 3. Esophageal reconstitution by simultaneous antegrade/retrograde endoscopy (antegrade puncture with an EUS-needle, passing guidewire and subsequent dilation)
- 4. Esophageal recanalisation by means of ESD



QUESTION #2: ANSWER

- 1. Cervicostomy
- 2. Esophagectomy (+ colon interposition)
- 3. Esophageal reconstitution by simultaneous antegrade/retrograde endoscopy (antegrade puncture with an EUS-needle, passing guidewire and subsequent dilation)
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c wire-guided bouginage is then performed; and finally d an endoscope is passed through the fully re-

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COMPLETE ESOPHAGEAL OBSTRUCTION

- Uncommon but severe side-effect of radiotherapy for esophageal and head and neck cancers
- ❖ Morbidity +++:
 - ✓ Patients must constantly spit saliva
 - ✓ Depend on feeding tubes for all nutrition and hydration
 - ✓ Those without a tracheostomy risk aspiration
- ❖ Risk of esophageal stricture:
 - √ 4% after radiation in excess of 45 Gy
 - √ 21% in case of concomitant chemotherapy



THIS CASE?

Endoscopic approach

Retrograde recanalization by means of endoscopic submucosal dissection techniques (ESD)



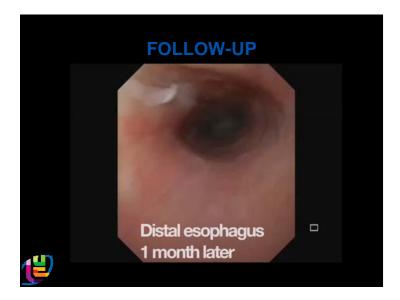
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KEY POINTS IN ENDOSCOPIC RECANALISATION BY ESD

- Dilation of the gastrostomy tract and insertion of a 12 mm trocar to allow access of a standard gastroscope (and standard accessories)
- Submucosal injection at the level of the distal stenosis; submucosal tunneling (DualKnife, Spray Coag); direct visual control to prevent perforation
- Recanalisation of the hypopharynx under endoscopic and fluoroscopic guidance
- Anterograde endoscopy with an ultra-slim 5.9 mm endoscope and passing of a guidewire
- ❖ Rendez-vous and 10 mm balloon dilation
- Insertion of a large nasogastric tube to maintain patency for subsequent follow-up endoscopic treatment





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POSSIBLE RISKS

- Perforation/pneumomediastinum
- Mediastinitis
- Cervical osteomyelitis
- ❖ Peri-esophageal abscess
- ❖ Bleeding
- **...**



REEPITHELIALISATION?

- After recanalisation (by needle puncture or by ESD), a new tract is established that does not necessarily contain all the elements of an esophageal wall
- In experiments with dogs in which the esophagus was completely transected, new esophageal mucosa eventually regenerated over an indwelling stent, even with a gap of 5 cm



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QUESTION #3: PREFERRED TREATMENT FOR THE RESIDUAL STENOSIS?

- Insertion of a covered metallic 8 or 10 mm biliary stent
- 2. Fully covered, self-expanding plastic esophageal stent
- 3. Fully covered SEMS
- 4. Serial balloon dilation



CONCLUSIONS

- Long esophageal post-radiation strictures can be managed endoscopically by ESD
- Multidisciplinary approach is required given the possibility of serious complications



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- 3. Fully covered SEMS
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Serial dilations are now performed every 6 weeks

