



IX Congresso
Novas Fronteiras
em Medicina
Cardiovascular

22 a 24 de Fevereiro 2019

The Village Praia
D'El Rey - Óbidos

Aorto – esophageal and aortic-enteric fistulae: the general surgeon perspective

José Freire

CAML/Departamento de Cirurgia do CHULN

CENTRO HOSPITALAR
UNIVERSITÁRIO
LISBOA NORTE, EPE



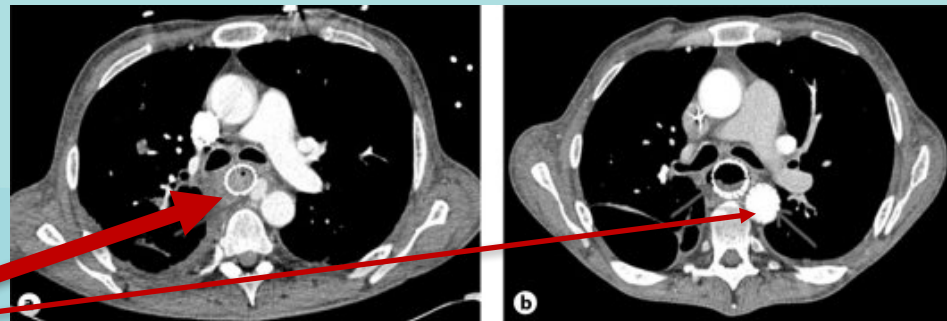
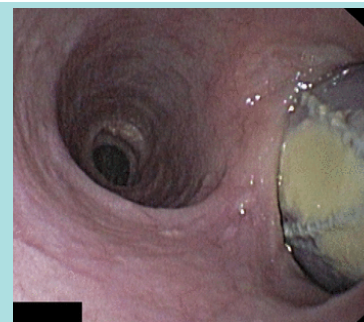
Secondary Aorto Esophageal Fistulae

60% mortality at 6 months

- Chiari Triad
 - Mid thoracic/chest pain
 - Sentinel haemorrhage
 - Fatal haemorrhage

- Main causes

- Malignancy (esophagus)
- Foreign body/iatrogenic
- Open aortic surgery
- TEVAR



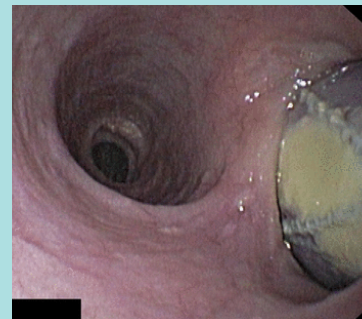
Esophageal surgical experience is mandatory...

Secondary Aorto Esophageal Fistulae

Yutaka Okita et al. 2014; Kaname Uno et al. 2017

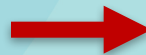
Infection control is critical...

No 1 year surviving without esophagectomy; *Czerny et al. 2014*



- Management

- 
- Bridge TEVAR
 - ...
 - Aortic reconstruction/CBP
 - Esophagectomy/Cervical esophagostomy/gastro and/or feeding jejunostomy
 - ...
 - Retro or pre sternal colon/gastric interposition



- Left or right thoracotomy?
- Thoracoscopy?
- ...
- (if...)

Secondary Aortic – Enteric (duodenal) Fistulae

More information compared with esophageal fistulas but...

Eur J Vasc Endovasc Surg (2016) 52, 770–786

REVIEW

Editor's Choice — Management of Secondary Aorto-enteric and Other Abdominal Arterio-enteric Fistulas: A Review and Pooled Data Analysis

S.K. Kakkos ^{a,b,*}, C.D. Bicknell ^b, I.A. Tsolakis ^a, D. Bergqvist ^c, the Hellenic Co-operative Group on Aortic Surgery ^d

- Short term results (mortality): 41,5% case control, 31% case series, 16,4% reports

- **Mortality and vascular procedure**

– Graft removal/extra anatomic by pass	31,2%
– Graft removal/ in situ repair	34%
– Primary closure	62,5%
– Graft removal	42,1%
– Others	27%
– N/A	42,9%

- **Cause of death**

- Hemorrhage (recurrence/stump blow-out).
- Sepsis/MOF (ongoing?, secondary?)
- GI complications including leak from the repair

Secondary Aortic – Enteric (duodenal) Fistulae

More information compared with esophageal fistulas but...



ELSEVIER

Ann Vasc Surg 2014; 28: 756–762

General Review

Enteric Repair in Aortoduodenal Fistulas: A Forgotten but Often Lethal Player

*Catarina Rodrigues dos Santos,^{1,3} Rui Casaca,^{1,3} José Crespo Mendes de Almeida,^{1,3} and
Luis Mendes-Pedro,^{2,3} Lisbon, Portugal*

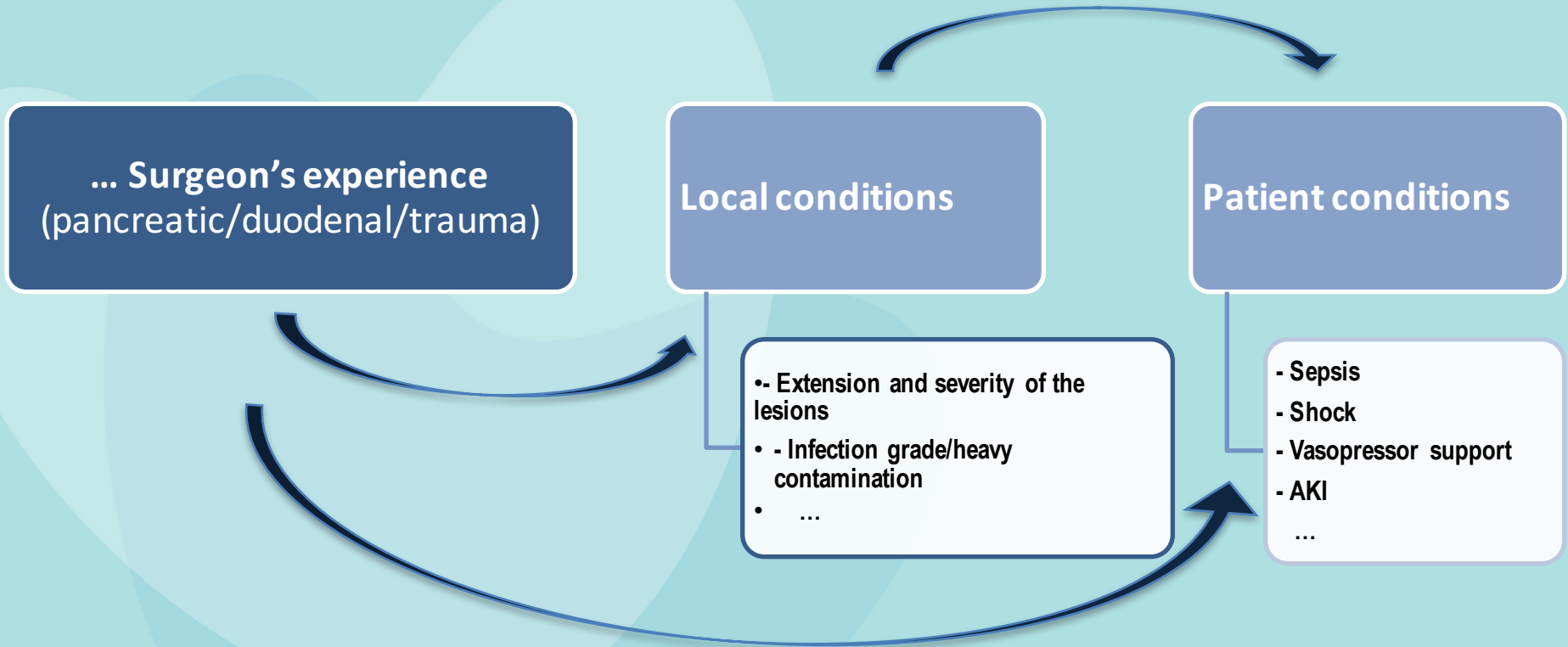
- Short term results (mortality): 30 to 77%
- ...enteric indications and impact are unknown.

Secondary Aortic – Enteric (duodenal) Fistulae

- **...enteric indications and impact are unknown, but... not totally**
 - Duodenal resection/reconstruction is marginally preferable to simple suture (trend)
 - Omentum interposition gave better results (applies to Vascular and GI solutions)

Infection control is critical...

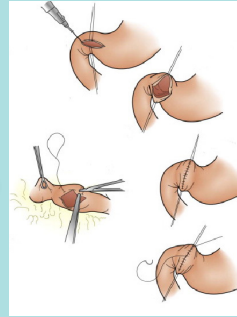
Secondary Aortic – Enteric (duodenal) Fistulae



Secondary Aortic – Enteric (duodenal) Fistulae

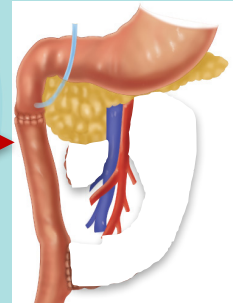
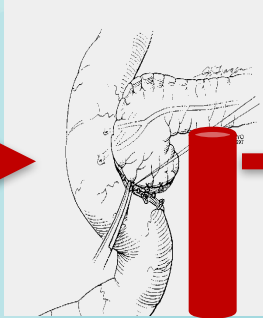
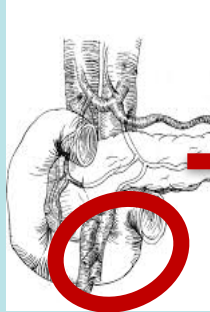
- ...surgical GI procedures

- simple



Omentum interposition...

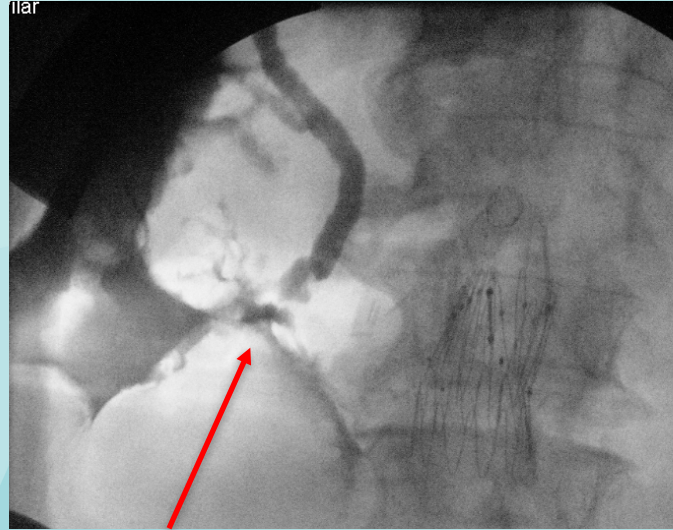
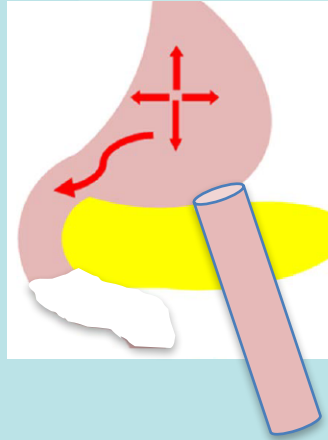
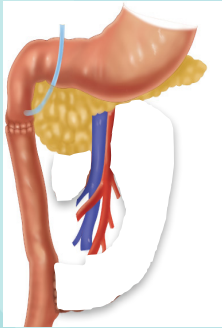
- complex



Duodenal resection/reconstruction is marginally preferable to simple suture (trend)

Secondary Aortic – Enteric (duodenal) Fistulae

J. R; ♂, 79 years
operated on
november 2018



CDP!

Secondary Aortic - Esophageal and Aortic - Enteric Fistulae

... Surgeon's experience and skills

Local conditions

- Extension and severity of the lesions
- Infection grade/heavy contamination
- ...

Patient conditions

- Sepsis
- Shock
- Vasopressor support
- AKI
- ...

**Be wise
Be smart
...Be afraid**

**Infection control is critical...
AB do not control or treat...**

Secondary Aortic - Esophageal and Aortic - Enteric Fistulae

- ...Big data...
- No RCT possible!
- General surgeons even less likely to assemble significant experience

Oesophago-Gastric Anastomosis Audit...

A Global Collaborative

We hope that everyone has enjoyed this multi-centre international cohort study, which involved, >20 national leads & >500 collaborators from >120 centres from 43 countries



Thanks!

Steering Committee