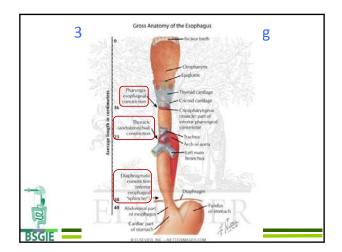
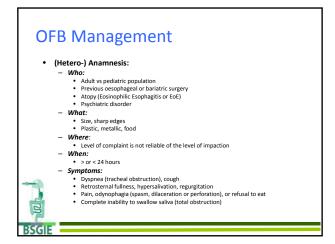
# -SHOULD I STAY OR SHOULD I GO ? September 2016





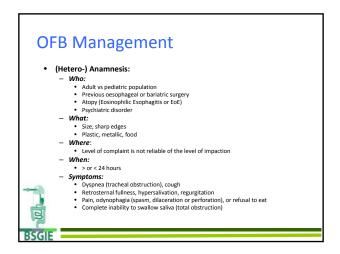


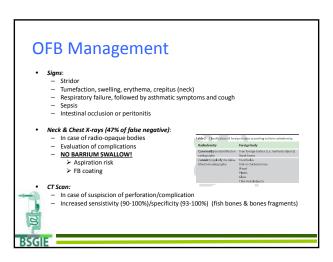
# Oesophageal Foreign Bodies (OFB) Food Bolus Impaction (FBI) • 80-90% will pass sponteanously • 10-20% require non operative intervention • ~1% require surgery • Very low mortality (« recent » series): - 0/852 adults - 1/2206 children | Renberry et al, GIE, 2011 | Birk et al, Endoscopy, 2016

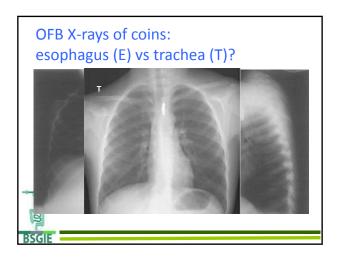


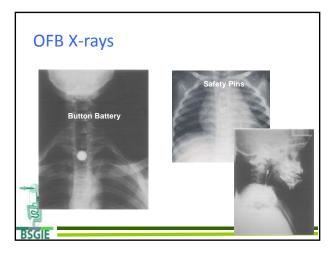
| Туре                  | Examples  |
|-----------------------|---|
| Blunt objects         | Round objects: coin, button, toy<br>Batteries, magnets  |
| Sharp-pointed objects | Fine objects: needle, toothpick, bone, safety-pin,<br>glass pieces<br>Sharp irregular objects: partial denture, razor blade |
| Long objects          | Soft objects: string, cord<br>Hard objects: toothbrush, cutlery, screwdriver, pen,<br>pencil                                |
| Food bolus            | With or without bones   |
| Others                | Packets of illegal drugs  |

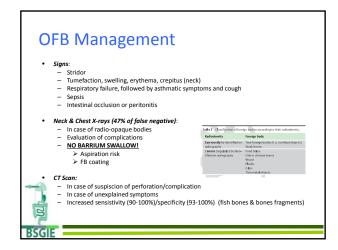
# -SHOULD I STAY OR SHOULD I GO ? September 2016

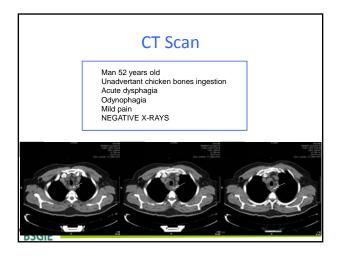












# GASTROINTESTINAL EMERGENCIES IN ENDOSCOPY -SHOULD I STAY OR SHOULD I GO ? September 2016

### **OFB Management**

- Principles:
  - Avoid risks of aspiration
  - Avoid risks of perforation (2.3%; especially if present from more than 24hours)
- In case of unknown duration of oesophageal FB remaining: endoscopy under general anesthesia (+surgical advice)



( cargoan aurroc)

## **ESGE Guidelines Management**

- Emergent (< 2 hours-6 hours max) Endoscopy is recommended in case of
  - Complete esophageal obstruction (hypersalivation, inability to swallow liquids)
  - Sharp objects ingested (pins, dentures, toothpicks, bones,...)
  - Button batteries lodged in the esophagus
- Urgent (< 24 hours) Endoscopy is recommended in case of</li>
  - Esophageal Foreign bodies whithout complete obstruction
  - Gastric Foreign (sharp- pointed, magnets, batteries and/or large long objects) bodies

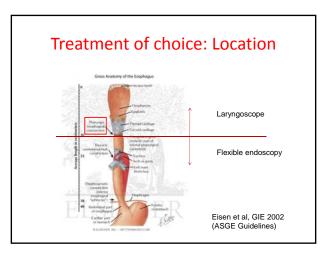
Non urgent (<72 hours) Endoscopy for medium sized foreign bodies remaining in the stomach

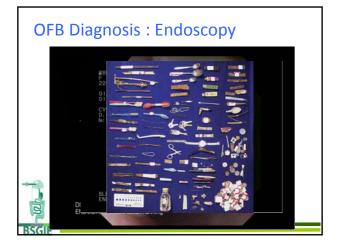
BSGII

### ASGE/ESGE Guidelines Management

- « No treatment is needed in asymptomatic patient with negative plains radiographs »
- Clinical observation without the need for endoscopic removal for management of asymptomatic patients with ingestion of small or blunt object (except batteries and magnets):
  - <2,5 cm in diameter
- <6 cm in lenght
- In case of « body packing »

SSGIE







## **GASTROINTESTINAL EMERGENCIES IN ENDOSCOPY** -SHOULD I STAY OR SHOULD I GO? September 2016





### OFB Management: type-specific

- Food impaction (aspiration risk)
  - NO TENDERIZERS
  - Immediate intervention in case of total obstruction, or within 24 hours
  - « Glucagon administration (1mg, IV) », in absence of anatomical stricture
  - « Push technique »
  - Fragmentation / removal
- In absence of previous surgery, perform biopsy and cautious dilation of the stricture (after FB removal!)
  - Half could be Eosinophilic esophagitis (EoE)

# OFB Management: type-specific

- Blunt objects (coins)
  - Eventually pushed within the stomach
  - use of rat-tooth forceps or net retrieval (Roth-net)
  - If already migratred in the stomach:
    - < 2.5 cm diameter and < 6 cm long: spontaneous migration in 6-28 days
    - · Weekly radiogram
    - $\bullet\;$  Surgery if symptomatic (obstruction) or stay in place more than 1 week (except in the stomach>endoscopy)

Narcotic packets

No role for endoscopy

Webb, GIE, 1995 Faigel et al, GIE, 1997 Panieri and Bass, Eur J Emerg Med, 1995 Hachimi-Idrissi et al, Eur J Emrg Med, 199

# OFB Management: type-specific

- Sharp pointed objects (fish or chicken bones, dentures, tooth sticks...)
  - 35% of complications in the first series
  - Emergency
  - Under general anesthesia (GA)
  - Use of an overtube or protector hood
- Disk Batteries (DB)
  - Emergency if lodged in the esophagus ( potentially fatal electrolytic necrosis/perforation)
  - Endoscopic Fogartysation (under GA), net retrieval or pushed within
  - Endoscopic removal of gastric DB

Litovitz and Schmitz, Pediatrics, 1992 Gordon and Gough, Ann R Coll Surg Engl, 1993 Birk et al Endoscopy 2016

# Foreign body-induced perforation

- Endoscopic closure has been considered in highly selected patients (case reports)
  - Endoclips Qadeer et al, GIE, 2007
  - Esophageal stent Freeman et al, Ann Thorac Surg, 2003
- Surgery is still the recommended treatment
  - Esophageal perforation, with symptoms lasting for more than 24 hours

Bryant and Cerfolio, Thorac Surg Clin, 2007

# September 2016

# Take-home messages

- Most Ingested foreign bodies pass readily throughout the gastrointestinal tract
- Food impaction occur above a pathologic luminal narrowing
- · Prompt treatment aims to avoid complications of OFB (aspiration, perforation)
- No treatment is required in asymptomatic patient with normal plained X-rays.

FB already migrated into the stomach should be managed on a case by case basis

## **ESGE Guidelines Management**

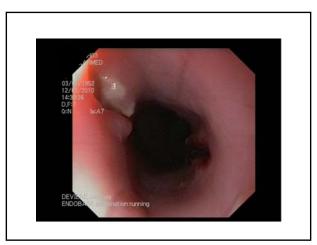
- Emergent (< 2 hours-6 hours max) Endoscopy is recommended in case of
  - Complete esophageal obstruction (hypersalivation, inability to swallow
  - Sharp objects in the esophagus (pins, dentures, toothpicks, bones,...)
  - Button batteries lodged in the esophagus
- Urgent (< 24 hours) Endoscopy is recommended in case of

  - Esophageal Foreign bodies whithout complete obstruction
    Gastric Foreign (sharp- pointed, magnets, batteries and/or large long objects)

Non urgent (<72 hours) Endoscopy for medium sized foreign bodies remaining in the stomach

Birk et al 2016





### **OFB: Diagnosis**

- Hetero- Anamnesis
- Physical examination
- X-ray
- Endoscopy

### Foreign bodies already passed in the stomach

- · Case by case management
- · Likelihood of spontaneous passage
  - Size, shape and composition
  - Patient anatomical abnormalities (previous surgery, Crohn disease, diverticular disease,...)
- Informed and followed expectation (X-rays if radio opaque)

