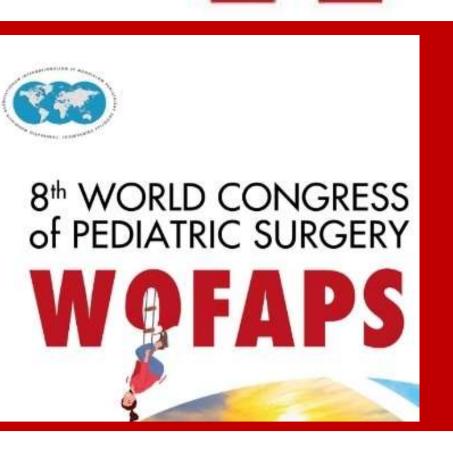
# WEADS



# UNUSUAL CAUSES OF PNEUMOPERITONEUM IN ADOLESCENTS THINK GASTRIC ULCER!



Malek Mezni, Yosra Ben Ahmed, Wiem Hamouda, Mariem Marzouki, Faouzi Nouira, Said Jlidi. Bechir Hamza Children's Hospital, Pediatric Surgery Department B, Tunis, Tunisia.

### **Background:**

- Gastric ulcer in children and adolescents is a rare entity. Perforated ulcer is even more unlikely to happen.
- Few cases were described in the litterature over the years. It often mimics other causes of acute abdomen.

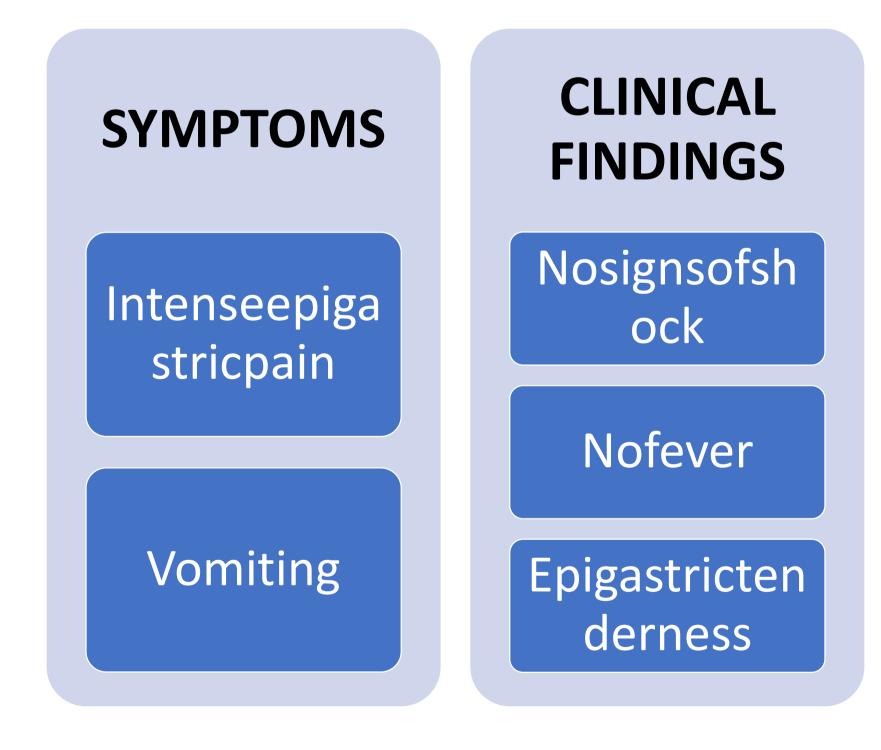
### Methods:

• We present **two cases** of gastric perforation in previously healthy adolescents, each with a distinct clinical presentation but a shared underlying pathology.

# Case presentation:

#### **CASE 1:**

- A 13-year-old boy with no medical history
- One-month history of ulcer-like pain.



#### **CHEST X-RAY**

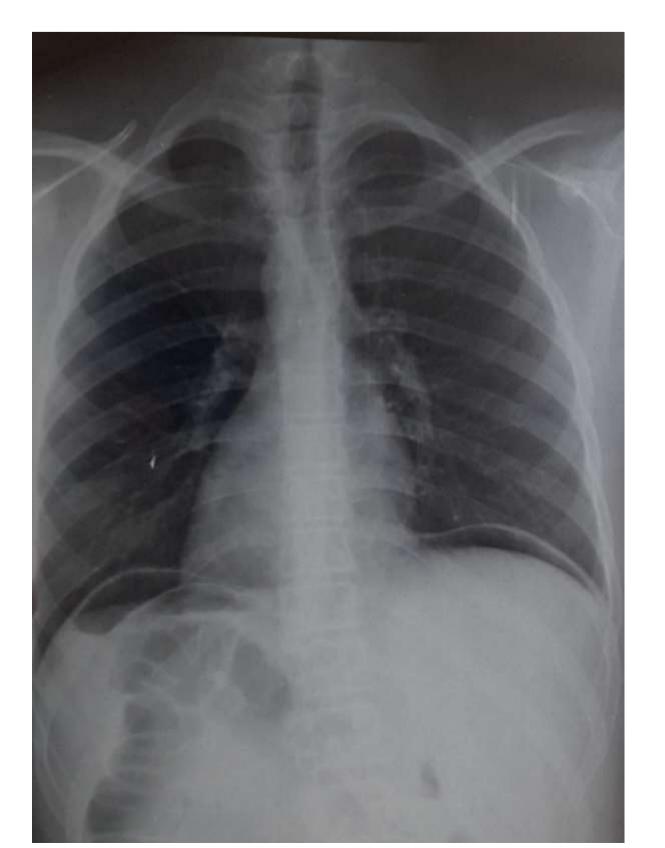


Figure 1:
Bilateral pneumoperitoneum

# ABDOMINAL ULTRASOUND

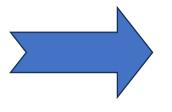
 No intra-abdominal fluid and no obvious pathology

## EMERGENCY LAPAROSCOPY

- Localized inflammation of the stomach.
- No significant peritoneal contamination, no visible perforation.

#### **CONVERSION TO LAPAROTOMY**

• A 0.5 cm perforation was identified on the **anterior prepyloric region** of the stomach.



The ulcer was sutured after biopsies.

#### **CASE 2:**

• A 13-year-old boy with no medical history.

### SYMPTOMS

Acute abdominal pain

Vomiting

# **CLINICAL FINDINGS**

Signsofshock

Fever

Abdominalgu anrding

#### **CHEST X-RAY**

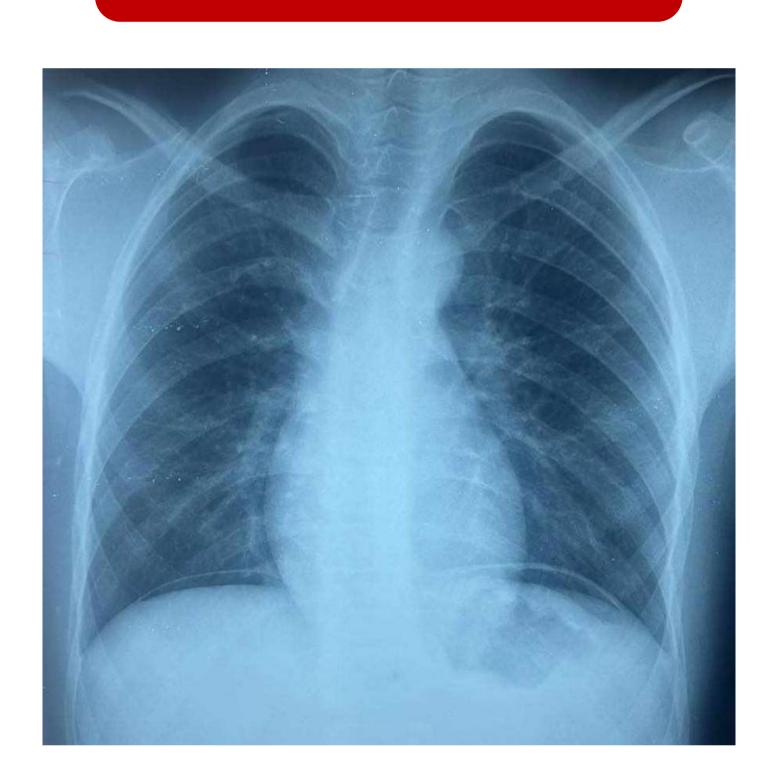


Figure 2: Pneumoperitoneum

#### **OUTCOMES**

- Anatomopathology revealed ulceration of the gastric wall in both cases.
- Postoperative course: uneventful, both adolescents recovered well and were discharged on antibiotics and proton pump inhibitors.

# Fluid resuscitation and reanimation first!

# EMERGENCY LAPAROSCOPY

Sus-mesocolic peritonitis with **Gastric** wall inflammatory lesions

#### **CONVERSION TO LAPAROTOMY**

 Small gastric perforation <0,5cm on the greater curvature.



Primary repair of the perforation with biopsy was performed after decontamination.

# **Conclusions:**

- Although rare, gastric ulcer perforation should be considered in adolescents presenting with acute abdomen.
- In this case, **pneumoperitoneum** was the key radiologic finding that guided diagnosis.
- These cases highlight the variable presentation—from stable patients to those in shock—and the essential role of surgical exploration and H. pylori management in achieving **favorable outcomes**.