HIATAL HERNIA-INDUCED NON-ST ELEVATION MYOCARDIAL INFARCTION (NSTEMI): A UNIQUE COMPLICATION OF HIATAL HERNIA

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INTRODUCTION

- Hiatal Hernia (HH) is characterized by the displacement of abdominal viscera into the mediastinum.
- It is usually an incidental finding on imaging or endoscopy, but may present with non-specific clinical signs and symptoms, often linked to gastroesophageal reflux disease (GERD).
- Some patients may develop cardiac complications secondary to the direct compressive effects of a large HH.
- We describe a unique case of HH leading to Non-ST Elevation Myocardial Infarction (NETMI) in an elderly female.

CASE DESCRIPTION

- A 90-year-old female with a past medical history of GERD presented to the ED for worsening nausea, vomiting, and epigastric abdominal pain for 3 days.
- Abdominal pain was sharp, severe, non-radiating, and associated with vomiting consisting undigested food particles without blood.
- Abdominal pain 30 minutes after oral intake and on lying down shortly after meals.
- Admitted to increasing use of over-the-counter antacids for symptomatic relief of her GERD.
- No history of prior abdominal surgeries reported.
- On clinical evaluation, she was hemodynamically stable.
- Abdominal examination elicited mild tenderness in the epigastric region.

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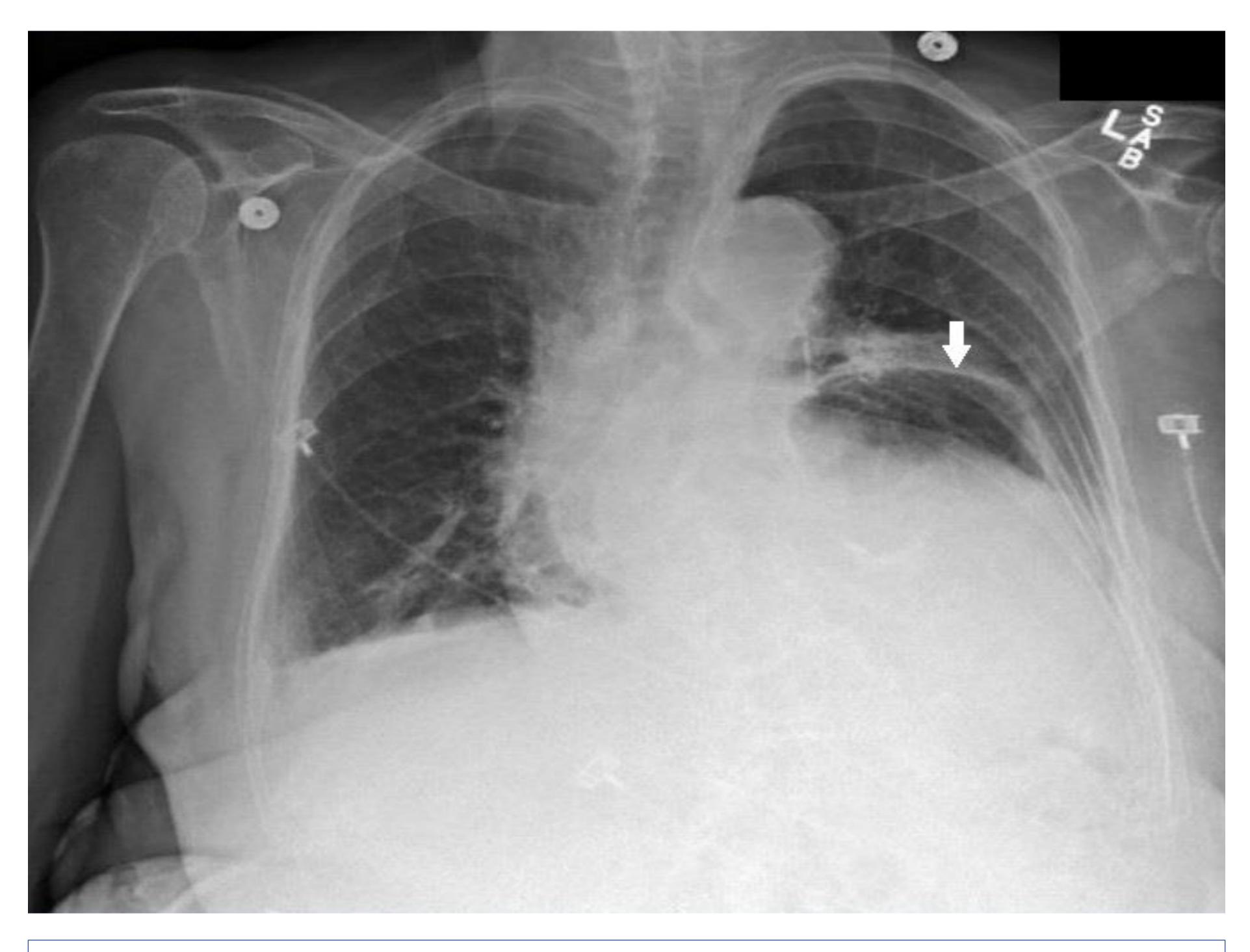


Figure 1: Chest X-ray obtained in the ED demonstrating a large Hiatal Hernia.

CONTACT

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 - 0.721 ng/mL.

 - was established.

 - advanced age.

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CASE DESCRIPTION

Laboratory investigations revealed an elevated troponin level of

• EKG demonstrated new T-wave inversions in leads V5 and V6.

Patient given aspirin, atorvastatin, ticagrelor, metoprolol, pantoprazole and started on a heparin infusion.

Cardiology consulted and a diagnosis of HH-induced NSTEMI

• Nasogastric tube (NGT) inserted for decompression which led to a downtrend in troponin levels.

Cardiology and cardiothoracic surgery deemed her to be a poor candidate for cardiac catheterization and HH repair by due to

Symptoms improved and she was discharged home on guidelinedirected medical therapy, and outpatient cardiology and gastroenterology follow-up.

DISCUSSION

• We describe a rare case of HH-induced NSTEMI.

Per the American College of Cardiology guidelines, these patients should be given aspirin, ticagrelor, metoprolol, and heparin.

Decompression via NGT may result in decreased cardiac compression by the large HH.

• In select patients, HH repair may be viable treatment to treat the underlying cause and prevent further episodes.