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**Case 10 (March 29 2012):** [N Engl J Med. 366\(13\):1241-1249](#)

**Demographic:** Male, 16 yrs, North America

**Clinical features extracted from the case and entered into the query box:**

mediastinal cystic mass  
nonbloody emesis  
epigastric pain  
nausea  
decreased appetite  
constipation  
dysphagia

**Synonyms used by Isabel for the above query:**

mediastinal mass  
epigastric pain  
nausea  
decreased appetite  
constipation  
dysphagia

**STOP !**

**Before you read further you might want to construct your own:**

- Complete differential diagnosis
- Final diagnosis

**In the following section you will find:**

- The differential diagnosis constructed by the MGH panel
- The final diagnosis of the case
- Which of the MGH panel differential diagnoses did Isabel contain
- Did Isabel suggest the final diagnosis

**Differential Diagnoses considered by the MGH panel:**

Bronchogenic cyst

**Final Diagnosis of the case according to NEJM:**

Esophageal duplication cyst

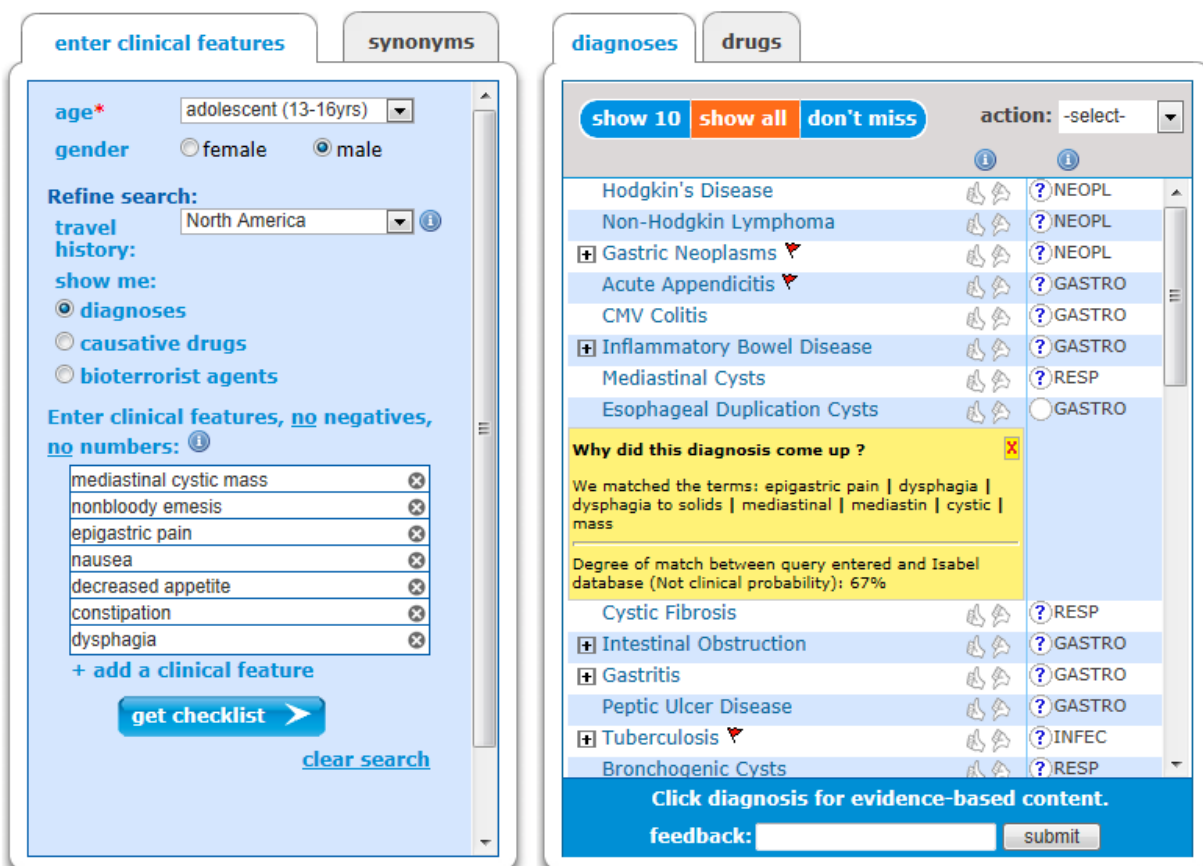
**Differential Diagnoses of the case as given by Isabel:**

Bronchogenic cyst in Respiratory

**Was the final diagnosis given by Isabel:**

Yes, Esophageal duplication cyst in Gastro

**Isabel Checklist Differential:**



The screenshot displays the Isabel healthcare interface, divided into two main panels: 'enter clinical features' and 'diagnoses'.

**enter clinical features panel:**

- age\*:** adolescent (13-16yrs)
- gender:** female (radio button), male (radio button, selected)
- Refine search:**
  - travel history:** North America
  - show me:**
    - diagnoses (selected)
    - causative drugs
    - bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
  - mediastinal cystic mass
  - nonbloody emesis
  - epigastric pain
  - nausea
  - decreased appetite
  - constipation
  - dysphagia
- Buttons:** '+ add a clinical feature', 'get checklist', 'clear search'

**diagnoses panel:**

- Filters:** show 10, show all, don't miss, action: -select-
- Diagnosis List:**

Diagnosis	Icons	Category
Hodgkin's Disease	👤 👤	? NEOPL
Non-Hodgkin Lymphoma	👤 👤	? NEOPL
Gastric Neoplasms	👤 👤	? NEOPL
Acute Appendicitis	👤 👤	? GASTRO
CMV Colitis	👤 👤	? GASTRO
Inflammatory Bowel Disease	👤 👤	? GASTRO
Mediastinal Cysts	👤 👤	? RESP
Esophageal Duplication Cysts	👤 👤	? GASTRO
Cystic Fibrosis	👤 👤	? RESP
Intestinal Obstruction	👤 👤	? GASTRO
Gastritis	👤 👤	? GASTRO
Peptic Ulcer Disease	👤 👤	? GASTRO
Tuberculosis	👤 👤	? INFECTION
Bronchogenic Cysts	👤 👤	? RESP
- Why did this diagnosis come up ?**
  - We matched the terms: epigastric pain | dysphagia | dysphagia to solids | mediastinal | mediastin | cystic | mass
  - Degree of match between query entered and Isabel database (Not clinical probability): 67%
- Buttons:** 'Click diagnosis for evidence-based content.', 'feedback:', 'submit'