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Case 32 (October 20 2011): [N Engl J Med. 365\(16\):1528-1536](#)

Demographic: Male, 19 yrs, North America

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

abdominal pain
nausea
decreased appetite
lightheadedness
hypertension
pain in upper quadrants radiating to back
splenomegaly
febrile
elevated white cell count

Synonyms used by Isabel for the above query:

abdominal pain
nausea
decreased appetite
lightheadedness
hypertension
splenomegaly
febrile
elevated white cell count

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:

Cholelithiasis
EBV infection

Final Diagnosis of the case according to NEJM:

Recurrent pancreatitis due to CFTR and SPINK1 mutations, triggered by alcohol

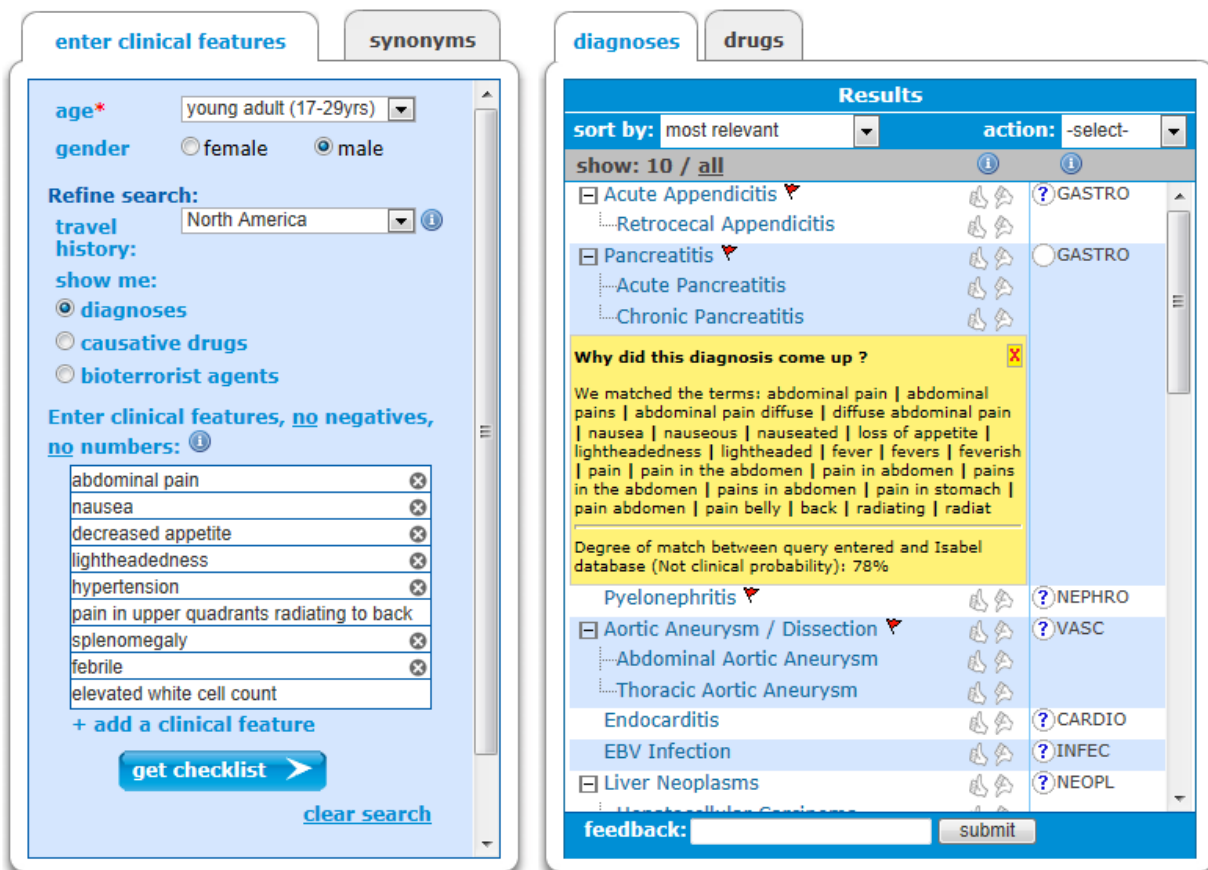
Differential Diagnoses of the case as given by Isabel:

Cholelithiasis in Hepatology
EBV infection in Infectious

Was the final diagnosis given by Isabel:

Yes, Pancreatitis in Gastro

Isabel Checklist Differential:



The screenshot displays the Isabel interface with two main panels: 'enter clinical features' and 'diagnoses'.

enter clinical features panel:

- age*:** young adult (17-29yrs)
- gender:** female, male (selected)
- Refine search:** travel history: North America
- show me:**
 - diagnoses
 - causative drugs
 - bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
 - abdominal pain
 - nausea
 - decreased appetite
 - lightheadedness
 - hypertension
 - pain in upper quadrants radiating to back
 - splenomegaly
 - febrile
 - elevated white cell count
- Buttons:** + add a clinical feature, get checklist, clear search

diagnoses panel:

- Results:** sort by: most relevant, action: -select-
- show: 10 / all**
- Diagnoses List:**
 - Acute Appendicitis (GASTRO)
 - ↳ Retrocecal Appendicitis
 - Pancreatitis (GASTRO)
 - ↳ Acute Pancreatitis
 - ↳ Chronic Pancreatitis
 - Why did this diagnosis come up ?** (78% match)
 - We matched the terms: abdominal pain | abdominal pains | abdominal pain diffuse | diffuse abdominal pain | nausea | nauseous | nauseated | loss of appetite | lightheadedness | lightheaded | fever | fevers | feverish | pain | pain in the abdomen | pain in abdomen | pains in the abdomen | pains in abdomen | pain in stomach | pain abdomen | pain belly | back | radiating | radiat
 - Degree of match between query entered and Isabel database (Not clinical probability): 78%
 - Pyelonephritis (NEPHRO)
 - Aortic Aneurysm / Dissection (VASC)
 - ↳ Abdominal Aortic Aneurysm
 - ↳ Thoracic Aortic Aneurysm
 - Endocarditis (CARDIO)
 - EBV Infection (INFEC)
 - Liver Neoplasms (NEOPL)
- Buttons:** feedback, submit