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Case 3 (January 26 2012): [N Engl J Med. 366\(4\):361-372](#)

Demographic: Male, Neonate, North America

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

bilious vomiting
bloody diarrhea
fever
failure to pass meconium
abdominal distention
lethargy
heme-positive stool
septic shock

Synonyms used by Isabel for the above query:

bilious vomiting
bloody diarrhea
fever
abdominal distention
lethargy
heme-positive stool
septic shock

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:

Volvulus
Necrotising enterocolitis

Final Diagnosis of the case according to NEJM:

Hirschsprung's disease with enterocolitis

Differential Diagnoses of the case as given by Isabel:

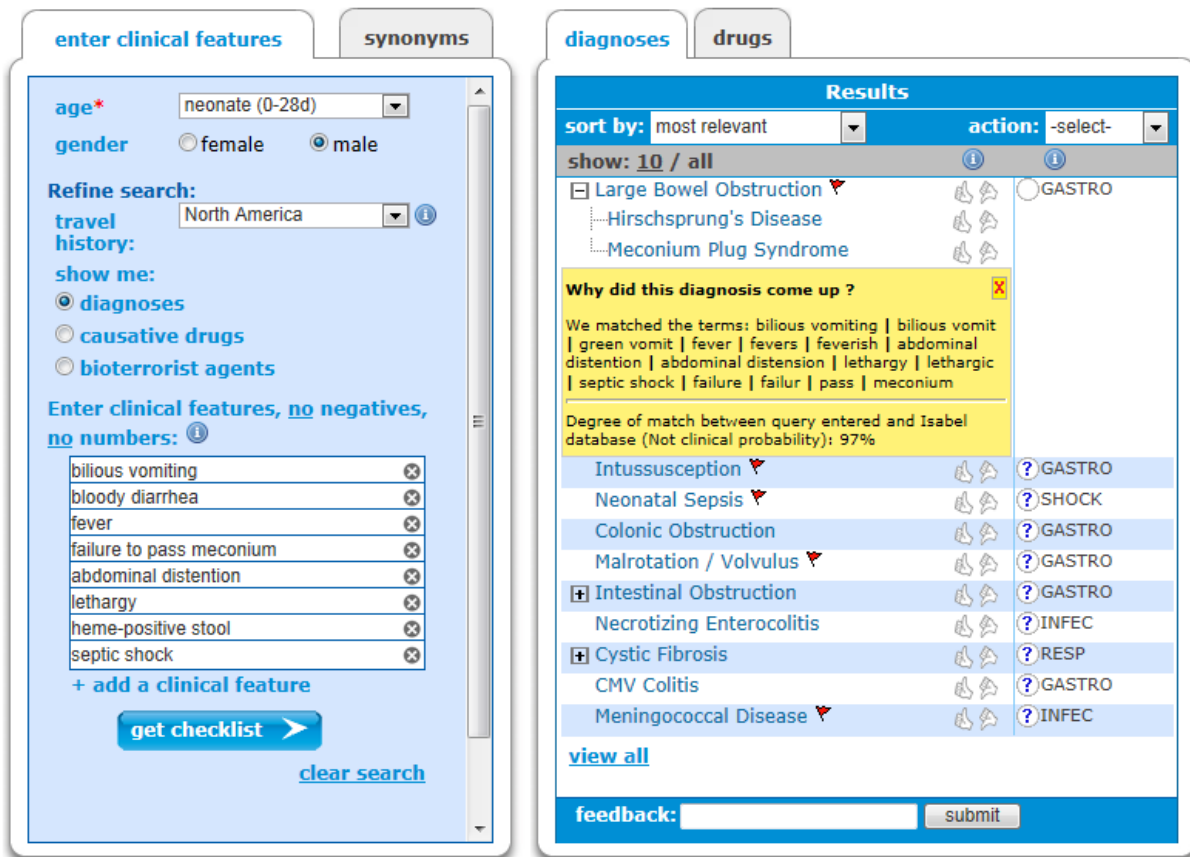
Volvulus in Gastro

Necrotising enterocolitis in Infectious

Was the final diagnosis given by Isabel:

Yes, Hirschsprung's disease under large bowel obstruction 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*:** neonate (0-28d)
- gender:** female (selected), male
- Refine search:** travel history: North America
- show me:** diagnoses (selected), causative drugs, bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
 - bilious vomiting
 - bloody diarrhea
 - fever
 - failure to pass meconium
 - abdominal distention
 - lethargy
 - heme-positive stool
 - septic shock
- Buttons:** + add a clinical feature, get checklist, clear search

diagnoses panel:

- Results:** sort by: most relevant, action: -select-
- show: 10 / all**
- Diagnoses List:**
 - Large Bowel Obstruction (GASTRO)
 - Hirschsprung's Disease (GASTRO)
 - Meconium Plug Syndrome (GASTRO)
- Why did this diagnosis come up ?**

We matched the terms: bilious vomiting | bilious vomit | green vomit | fever | fevers | feverish | abdominal distention | abdominal distension | lethargy | lethargic | septic shock | failure | failur | pass | meconium

Degree of match between query entered and Isabel database (Not clinical probability): 97%
- Additional Diagnoses:**
 - Intussusception (GASTRO)
 - Neonatal Sepsis (SHOCK)
 - Colonic Obstruction (GASTRO)
 - Malrotation / Volvulus (GASTRO)
 - Intestinal Obstruction (GASTRO)
 - Necrotizing Enterocolitis (IN FEC)
 - Cystic Fibrosis (RESP)
 - CMV Colitis (GASTRO)
 - Meningococcal Disease (IN FEC)
- Buttons:** view all, feedback: submit