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Case 09 (March 24 2011): [N Engl J Med. 364\(12\):1155-1165](#)

Demographic: Male, 37 yrs, North America

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

flushing
hypotension
conjunctival injection
vomiting
diarrhea
irregular pulse
tachycardia
elevated CRP

Synonyms used by Isabel for the above query:

flushing
hypotension
conjunctival injection
vomiting
diarrhea
irregular pulse
tachycardia
elevated CRP

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:

Anaphylaxis
Carcinoid syndrome

Final Diagnosis of the case according to NEJM:

Indolent systemic mastocytosis

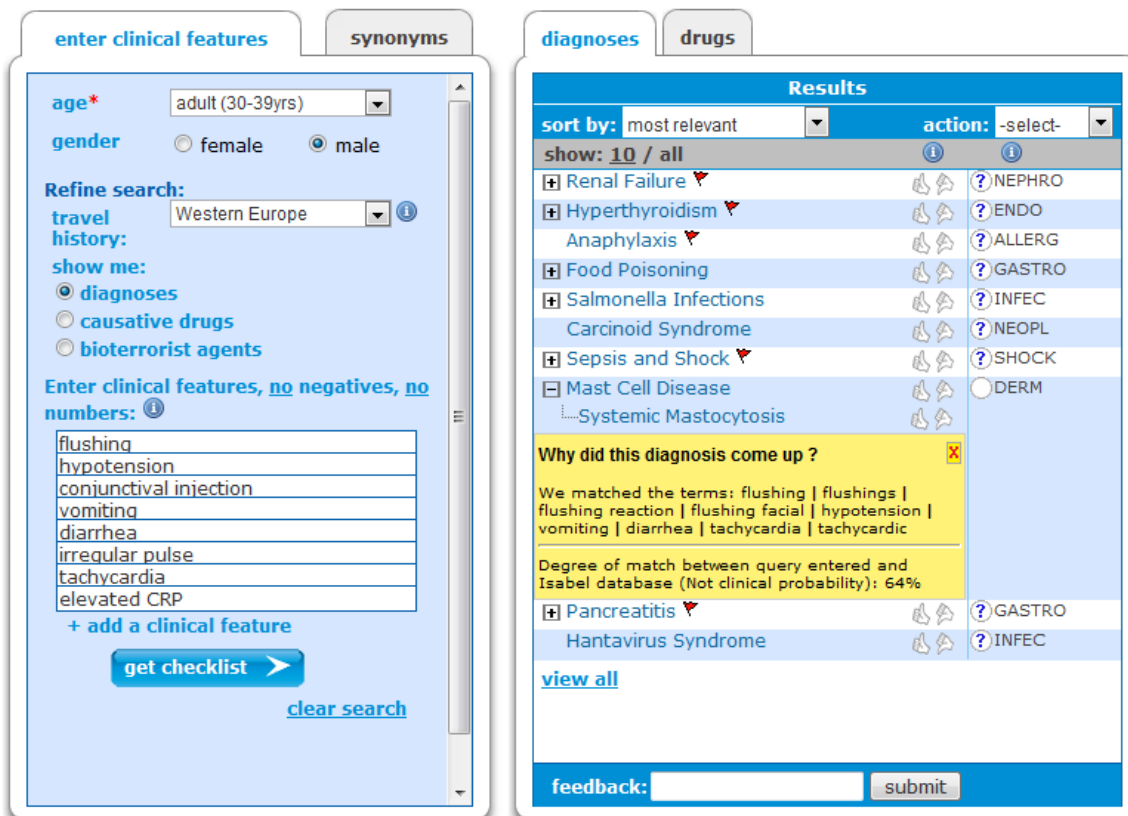
Differential Diagnoses of the case as given by Isabel:

Anaphylaxis in Allergy
 Carcinoid syndrome in Neoplastic

Was the final diagnosis given by Isabel:

Yes, Systemic mastocytosis under Mast cell disease in Dermatology

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*:** adult (30-39yrs)
- gender:** female (radio button), male (radio button)
- Refine search:** travel history: Western Europe
- show me:**
 - diagnoses
 - causative drugs
 - bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
 - flushing
 - hypotension
 - conjunctival injection
 - vomiting
 - diarrhea
 - irregular pulse
 - tachycardia
 - elevated CRP
- Buttons:** + add a clinical feature, get checklist, clear search

diagnoses panel:

- Results:** sort by: most relevant, action: -select-
- show: 10 / all**
- Diagnosis List:**

<input checked="" type="checkbox"/> Renal Failure	NEPHRO
<input checked="" type="checkbox"/> Hyperthyroidism	ENDO
<input checked="" type="checkbox"/> Anaphylaxis	ALLERG
<input checked="" type="checkbox"/> Food Poisoning	GASTRO
<input checked="" type="checkbox"/> Salmonella Infections	INFECTION
<input checked="" type="checkbox"/> Carcinoid Syndrome	NEOPL
<input checked="" type="checkbox"/> Sepsis and Shock	SHOCK
<input type="checkbox"/> Mast Cell Disease	DERM
...Systemic Mastocytosis	
- Why did this diagnosis come up ?**

We matched the terms: flushing | flushings | flushing reaction | flushing facial | hypotension | vomiting | diarrhea | tachycardia | tachycardic

Degree of match between query entered and Isabel database (Not clinical probability): 64%
- Additional Diagnoses:**
 - Pancreatitis (GASTRO)
 - Hantavirus Syndrome (INFECTION)
- Buttons:** view all, feedback, submit