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Case 12 (April 18 2013): [N Engl J Med. 368\(16\):1537-1545](#)

Demographic: Female, 18 years, North America

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

pulmonary infiltrates
respiratory failure
fever
productive cough
night sweats
pharyngitis
pleuritic chest pain
shortness of breath
nausea
vomiting
diarrhea
abdominal tenderness
costovertebral angle tenderness

Synonyms used by Isabel for the above query:

pulmonary infiltrates
respiratory failure
fever
productive cough
night sweats
pharyngitis
pleuritic chest pain
shortness of breath
nausea
vomiting
diarrhea
abdominal tenderness

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:

Tularemia

Final Diagnosis of the case according to NEJM:

Herpes simplex virus pneumonia

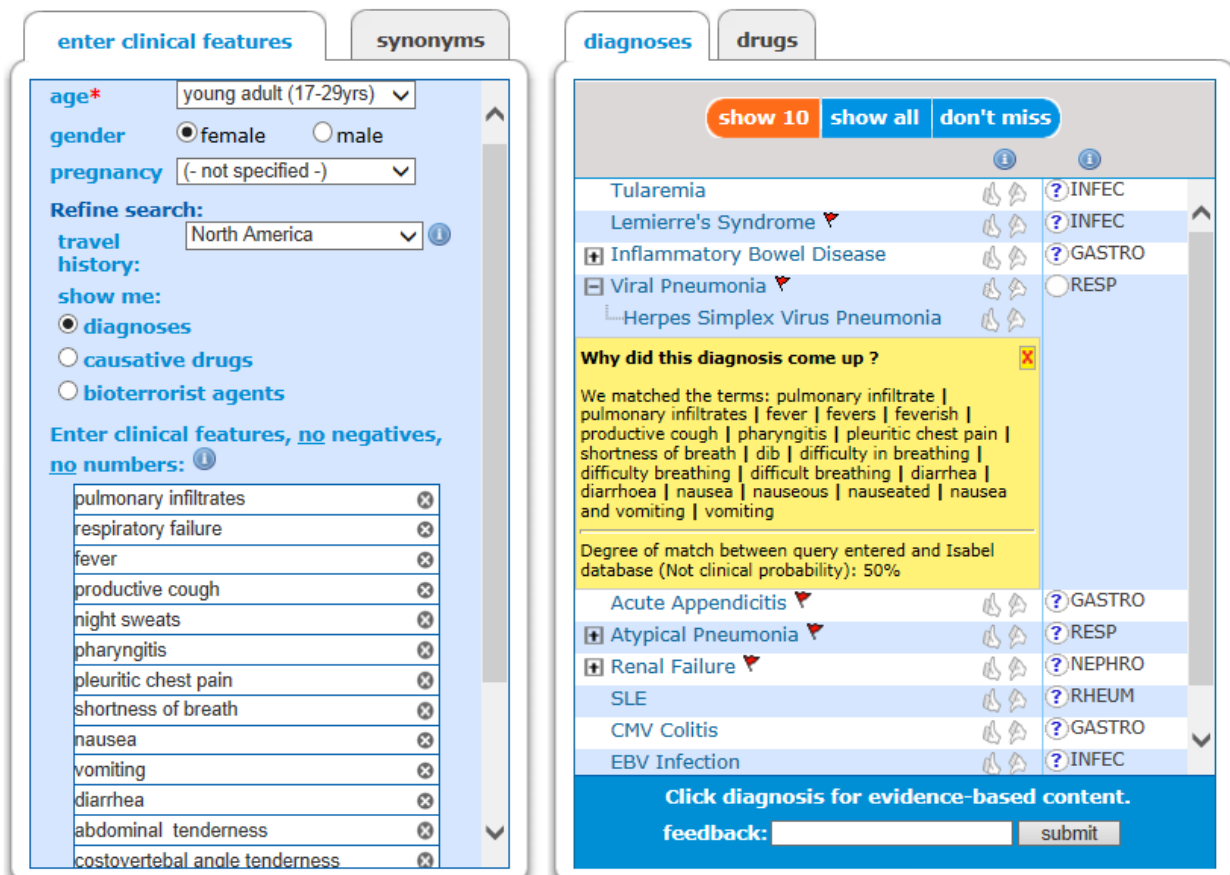
Differential Diagnoses of the case as given by Isabel:

Tularemia in Infectious

Was the final diagnosis given by Isabel:

Yes, Herpes simplex virus pneumonia under Viral pneumonia in Respiratory

Isabel Checklist Differential:



The screenshot displays the Isabel Checklist Differential interface, divided into two main sections: 'enter clinical features' and 'diagnoses'.

enter clinical features: This section includes fields for 'age*' (young adult (17-29yrs)), 'gender' (female selected), 'pregnancy' (- not specified -), and 'travel history' (North America). It also has a 'show me:' section with radio buttons for 'diagnoses' (selected), 'causative drugs', and 'bioterrorist agents'. Below this is a list of clinical features with checkboxes: pulmonary infiltrates, respiratory failure, fever, productive cough, night sweats, pharyngitis, pleuritic chest pain, shortness of breath, nausea, vomiting, diarrhea, abdominal tenderness, and costovertebral angle tenderness.

diagnoses: This section shows a list of suggested diagnoses. At the top, there are buttons for 'show 10', 'show all', and 'don't miss'. The list includes: Tularemia (INFEC), Lemierre's Syndrome (INFEC), Inflammatory Bowel Disease (GASTRO), Viral Pneumonia (RESP), and Herpes Simplex Virus Pneumonia (RESP). A yellow box highlights the match for Herpes Simplex Virus Pneumonia, stating: 'Why did this diagnosis come up? We matched the terms: pulmonary infiltrate | pulmonary infiltrates | fever | fevers | feverish | productive cough | pharyngitis | pleuritic chest pain | shortness of breath | dib | difficulty in breathing | difficulty breathing | difficult breathing | diarrhea | diarrhoea | nausea | nauseous | nauseated | nausea and vomiting | vomiting. Degree of match between query entered and Isabel database (Not clinical probability): 50%'. Below this, more diagnoses are listed: Acute Appendicitis (GASTRO), Atypical Pneumonia (RESP), Renal Failure (NEPHRO), SLE (RHEUM), CMV Colitis (GASTRO), and EBV Infection (INFEC). At the bottom, there is a 'Click diagnosis for evidence-based content.' button and a 'feedback:' field with a 'submit' button.



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