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Case 35 (November 18 2010): [N Engl J Med. 363\(21\):2046-2054](#)

Demographic: Male, 56 yrs, North America

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

dry cough
hypoxemia
rash
diffuse myalgias
chills
extreme fatigue
sharp substernal chest pain on inspiration
night sweats
dyspnea on exertion
eosinophilia

Synonyms used by Isabel for the above query:

dry cough
hypoxemia
rash
diffuse myalgias
chills
extreme fatigue
night sweats
dyspnea on exertion
eosinophilia

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:

- Loffler's syndrome
- Q fever
- Atypical Pneumonia

Final Diagnosis of the case according to NEJM:

Coccidioidomycosis

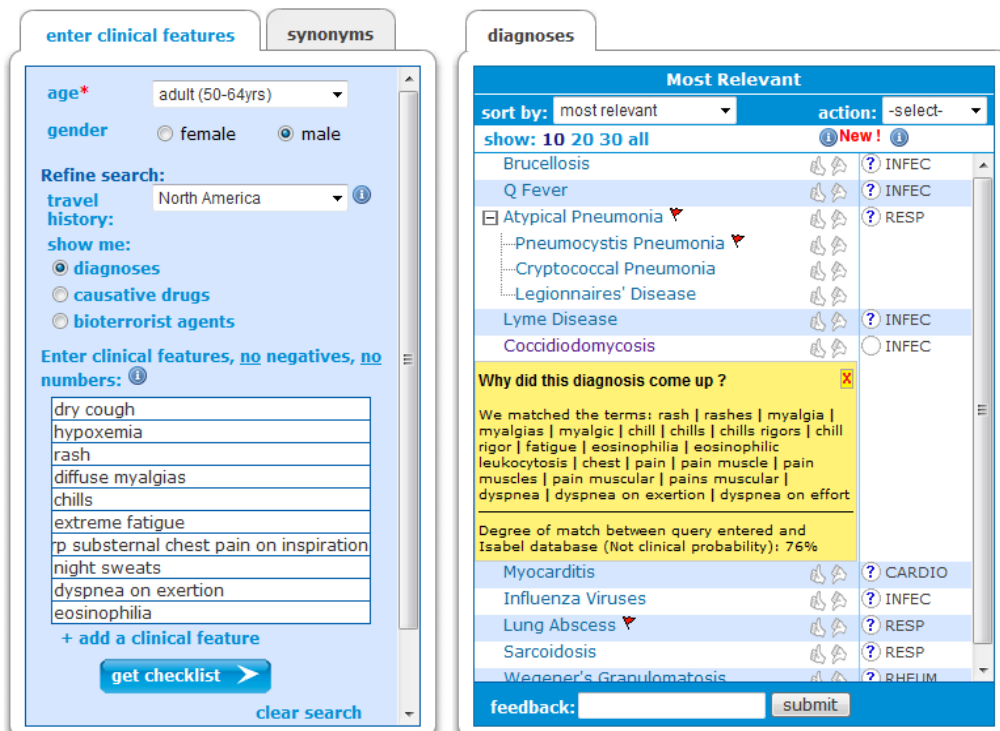
Differential Diagnoses of the case as given by Isabel:

- Loffler's syndrome in Respiratory
- Q fever in Infectious
- Atypical pneumonia in Respiratory

Was the final diagnosis given by Isabel:

Yes, Coccidioidomycosis in Infectious diseases

Isabel Differential:



The screenshot shows the Isabel Differential interface. On the left, the 'enter clinical features' panel includes fields for age (adult 50-64yrs), gender (male), travel history (North America), and a list of symptoms: dry cough, hypoxemia, rash, diffuse myalgias, chills, extreme fatigue, p substernal chest pain on inspiration, night sweats, dyspnea on exertion, and eosinophilia. On the right, the 'diagnoses' panel shows a list of 'Most Relevant' diagnoses sorted by relevance. The top results are Brucellosis, Q Fever, Atypical Pneumonia (with sub-diagnoses: Pneumocystis Pneumonia, Cryptococcal Pneumonia, Legionnaires' Disease), Lyme Disease, and Coccidioidomycosis. A yellow box highlights the match for Coccidioidomycosis with a 76% degree of match. Other diagnoses include Myocarditis, Influenza Viruses, Lung Abscess, Sarcoidosis, and Wegener's Granulomatosis.

Diagnosis	Category
Brucellosis	IN FEC
Q Fever	IN FEC
Atypical Pneumonia	RES P
Pneumocystis Pneumonia	
Cryptococcal Pneumonia	
Legionnaires' Disease	
Lyme Disease	IN FEC
Coccidioidomycosis	IN FEC
Myocarditis	CARD IO
Influenza Viruses	IN FEC
Lung Abscess	RES P
Sarcoidosis	RES P
Wegener's Granulomatosis	RHEUM