

Case 21 (July 10 2008): [N Engl J Med. 359\(2\):178-187](#)

Demographic: Male, 11 months, Asia Indian Subcontinent (as patient had travelled to India in the month prior to admission), General speciality

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

fevers
perihilar opacities
tachycardic
hepatosplenomegaly
erythematous nodule
bilateral pulmonary infiltrates
lymphadenopathy
tachypnea
productive cough
elevated CRP
hemoptysis
failure to thrive

Synonyms used by Isabel for the above query:

failure to thrive
hemoptysis
lymphadenopathy
tachypnea
productive cough
fevers
elevated CRP
tachycardic
bilateral pulmonary infiltrates

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:

Tuberculosis
Histoplasmosis
Nocardia

Final Diagnosis of the case according to NEJM:

Necrotizing Granulomatous Pneumonitis due to *A. terreus*, complicating
Chronic Granulomatous Disease

Differential Diagnoses of the case as given by Isabel:

Tuberculosis – under Infectious diseases heading
Histoplasmosis – under Infectious diseases heading
Nocardia – under Infectious diseases heading

Was the final diagnosis given by Isabel:

Yes, Necrotizing Granulomatous Pneumonitis – Aspergillus Infection under
Infectious diseases heading
Chronic Granulomatous Diseases – under Immunologic system heading

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Isabel Differential:

- INFECTIOUS DISEASES >> click to collapse	+ RESPIRATORY DISORDERS << click to expand
Meningococcal Disease ? RD EBV Infection ? RD <input checked="" type="checkbox"/> Tuberculosis ? RD <input checked="" type="checkbox"/> Fluke Infection ? RD <input checked="" type="checkbox"/> Pseudomonas ? RD <input checked="" type="checkbox"/> Herpes Simplex Virus Infection ? RD Coccidioidomycosis ? RD Histoplasmosis ? RD <input checked="" type="checkbox"/> Yersinia Infection ? RD <input checked="" type="checkbox"/> Aspergillus Infection ○ RD	<input checked="" type="checkbox"/> Bacterial Pneumonia ? RD <input checked="" type="checkbox"/> Atypical Pneumonia ? RD <input checked="" type="checkbox"/> Viral Pneumonia ? RD Pulmonary TB ? RD
<div style="border: 1px solid black; background-color: #ffff00; padding: 5px;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: hemoptysis productive cough fever fevers pulmonary infiltrate pulmonary infiltrates</p> <hr/> <p>Degree of match between query entered and isabel database (Not clinical probability): 44%</p> </div> <p> <input type="checkbox"/> Allergic Bronchopulmonary Aspergillus <input type="checkbox"/> Pulmonary / Invasive Aspergillosis </p>	+ RHEUMATIC DISEASES << click to expand
<input checked="" type="checkbox"/> Anthrax ? RD Corynebacterium Infection ? RD Brucellosis ? RD Lyme Disease ? RD Nocardia Infection ? RD Rubella Infection ? RD Relapsing Fever ? RD <input checked="" type="checkbox"/> Mucormycosis / Zygomycosis ? RD <input checked="" type="checkbox"/> Salmonella Infections ? RD Nontuberculous Mycobacteria ? RD Tularemia ? RD	- IMMUNOLOGIC SYSTEM >> click to collapse
	Chronic Granulomatous Disease ○ RD <div style="border: 1px solid black; background-color: #ffff00; padding: 5px;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: productive cough fever fevers opac opacities nodul nodule</p> <hr/> <p>Degree of match between query entered and isabel database (Not clinical probability): 42%</p> </div>
	+ DERMATOLOGY << click to expand
	+ CARDIAC DISORDERS << click to expand