Case 21 (July 10 2008):  

**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
- perihiliar 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
### INFECTIONOUS DISEASES

- Meningococcal Disease
- EBV Infection
- *Tuberculosis*
- *Fluke Infection*
- *Pseudomonas*
- *Herpes Simplex Virus Infection*
- Coccidioidomycosis
- Histoplasmosis
- *Yersinia Infection*
- *Aspergillus Infection*

**Why did this diagnosis come up?**
We matched the terms: hemoptysis | productive cough | fever | fevers | pulmonary infiltrate | pulmonary infiltrates

Degree of match between query entered and Isabel database (Not clinical probability): 44%

- Allergic Bronchopulmonary Aspergillosis
- Pulmonary / Invasive Aspergillosis

### RESPIRATORY DISORDERS

- **Bacterial Pneumonia**
- **Atypical Pneumonia**
- **Viral Pneumonia**
- **Pulmonary TB**

### RHEUMATIC DISEASES

### IMMUNOLOGIC SYSTEM

- Chronic Granulomatous Disease

### DERMATOLOGY

### CARDIAC DISORDERS