

**Case 1 (January 12 2006):** [N Engl J Med 2006;354:180-7](#)

**Case 1-2006 — A 64-Year-Old Male Lung-Transplant Recipient with Fever, Cough, Hemoptysis, and Abdominal Pain**

**Demographic:** Male, 64, America North, General speciality

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

Lung transplant six months ago  
Emphysema  
Cough  
Hemoptysis on awakening  
Left lower quadrant “abdominal pain”  
Poor appetite  
Fever  
Chest x-ray showed infiltrate in right upper lung lobe  
Tachycardic  
Few crackles on left lung base  
Moderate edema of right leg  
Mild erythema over lower tibia

***Synonyms used by Isabel (optional) for the above query:***

Fever  
Cough  
Abdominal Pain  
Left lower quadrant

**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:***

Pulmonary hemorrhage  
CMV  
PCP  
Listeria Monocytogenes  
Aspergillus Infection  
Reoccurrence of squamous cell carcinoma  
M Avium Complex Infection  
Post Transplantation Lymphoproliferative Disease  
Pulmonary Emboli  
Diverticulitis  
Colitis

***Final Diagnoses of the case according to NEJM:***

Primary CMV Infection  
Colitis  
Cytomegaloviral Colitis

***Differential Diagnoses of the case as given by Isabel:***

Pulmonary Embolism – Isabel 1<sup>st</sup> page  
CMV infection - Isabel 1<sup>st</sup> page  
PCP - Isabel 2<sup>nd</sup> page & on clicking on the speciality heading  
Lung Neoplasms – Bronchogenic Carcinoma - Isabel 1<sup>st</sup> page  
Ulcerative Colitis - Isabel 3<sup>rd</sup> page & on clicking on the speciality heading

***Was the final diagnosis given by Isabel:***

Yes, CMV Infection in the Immunocompromised (Isabel 1<sup>st</sup> page)  
and  
on click on a headingUlcerative Colitis (Isabel 3<sup>rd</sup> page & on clicking on the speciality heading)

***Entire presentation cut and pasted into the Isabel query box:***

CMV Disease in the Immunocompromised Host - Isabel 1<sup>st</sup> page  
Lung Neoplasms – Bronchogenic Carcinoma - Isabel 1<sup>st</sup> page  
PCP - Isabel 2<sup>nd</sup> page / & on clicking on the speciality heading

Ulcerative Colitis - Isabel 3<sup>rd</sup> page / & on clicking on the speciality heading

**Isabel differential:**

<p><b>RESPIRATORY SYSTEM DISORDERS</b></p> <p>COPD <input type="checkbox"/></p> <p>↳ Lung Neoplasms <input type="checkbox"/></p> <p>Sarcoidosis <input type="checkbox"/></p> <p>↳ Bacterial Pneumonia <input type="checkbox"/></p> <p>Pulmonary Edema <input type="checkbox"/></p> <p>Cryptococcal Pneumonia <input type="checkbox"/></p> <p>↳ Interstitial Lung Disease <input type="checkbox"/></p> <p>Bronchiectasis <input type="checkbox"/></p> <p>Pulmonary TB <input type="checkbox"/></p> <p>ARDS <input type="checkbox"/></p> <p>Lung Collapse <input type="checkbox"/></p> <p>Pneumocystis Pneumonia <input type="checkbox"/></p>	<p><b>INFECTIOUS DISEASES</b></p> <p>Histoplasmosis <input type="checkbox"/></p> <p>Tuberculosis <input type="checkbox"/></p> <p>Amoebiasis <input type="checkbox"/></p> <p>Anthrax <input type="checkbox"/></p> <p>Yersinia Infection <input type="checkbox"/></p> <p>↳ CMV Infections <input type="checkbox"/></p> <p>Brucellosis <input type="checkbox"/></p> <p>Pseudomonas <input type="checkbox"/></p> <p>Nocardia Infection <input type="checkbox"/></p> <p>Tularemia <input type="checkbox"/></p> <p>↳ Salmonella Infections <input type="checkbox"/></p> <p>Hydatid Cyst <input type="checkbox"/></p>
<p><b>CARDIOVASCULAR SYSTEM</b></p> <p>Heart Failure/CHF <input type="checkbox"/></p>	<p><b>HEMATOLOGY</b></p> <p>↳ Pulmonary Thromboembolism <input type="checkbox"/></p>
<p><b>GASTROINTESTINAL DISORDERS</b></p> <p>Acute Appendicitis <input type="checkbox"/></p> <p>Liver Abscess <input type="checkbox"/></p> <p>↳ Inflammatory Bowel Disease <input type="checkbox"/></p>	<p><b>RHEUMATIC DISEASES</b></p> <p>SLE <input type="checkbox"/></p> <p>Systemic Sclerosis <input type="checkbox"/></p>
<p><b>ALLERGIC DISORDERS</b></p> <p>Hypersensitivity Pneumonitis <input type="checkbox"/></p>	<p><b>NEPHROLOGY</b></p> <p>↳ Glomerulonephritis <input type="checkbox"/></p>
<p><b>IATROGENIC DISORDERS</b></p> <p>Blood Transfusion Reaction <input type="checkbox"/></p>	<p><b>TOXICOLOGY</b></p> <p>↳ Heavy Metal Intoxication <input type="checkbox"/></p>