



www.isabelhealthcare.com

**Case 29 (September 17 2009):** [N Engl J Med. 361\(12\):1189-1198](#)

**Demographic:** Male, 81yrs, America North, General speciality

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

productive cough  
dizziness  
weight loss  
odynophagia  
hypertension  
pancytopenia  
malaise  
hypoxemia  
fever  
mediastinal lymphadenopathy  
candidiasis

**Synonyms used by Isabel PRO for the above query:**

dizziness  
hypoxemia  
productive cough  
fever  
hypertension  
weight loss  
odynophagia  
malaise  
candidiasis  
pancytopenia  
lymphadenopathy

**STOP !**

**Before you read further you might want to construct your own:**

- Final diagnosis

**In the following section you will find:**

- The final diagnosis of the case
- Did Isabel suggest the Final diagnosis



**Differential Diagnoses considered by the MGH panel:**

Lung cancer  
Histoplasmosis

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

- (i) Diffuse Large B Cell Lymphoma
- (ii) HIV Infection

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

Lung cancer – under Neoplastic diseases  
Histoplasmosis – under Infectious diseases

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

- (i) Yes, Diffuse Large B Cell Lymphoma – Non-Hodgkins Lymphoma under Neoplastic diseases
- (ii) HIV Infection

**Isabel PRO Final Diagnosis:**

- (i) Diffuse Large B Cell Lymphoma

The screenshot displays the Isabel PRO interface. On the left, the 'ENTER CLINICAL FEATURES' section includes dropdown menus for age (geriatric (65 years - onwards)), gender (male), pregnancy (- not specified -), region (America North), and speciality (General). Below this is a text input area for 'ENTER QUERY TERMS ON SEPARATE LINES' containing terms like 'productive cough', 'dizziness', 'weight loss', 'odynophagia', 'hypertension', 'pancytopenia', 'malaise', 'hypoxemia', 'fever', 'mediastinal lymphadenopathy', and 'candidiasis'. A 'Get Checklist »' button is present. The right side shows 'DEGREE OF MATCH' with 'Your Customized View' selected. It lists '7 NEOPLASTIC DISEASES' under 'Non-Hodgkin's Lymphoma', with 'Diffuse Large B Cell Lymphoma' highlighted. Below this is a list of '10 Body Systems' including Infectious Diseases, Respiratory Disorders, Rheumatic Diseases, Gastrointestinal Disorders, Nephrology Disorders, Liver Disorders, Hematology Disorders, Cardiac Disorders, Neoplastic Diseases, and Toxicology Disorders.

(ii) HIV Infection

ENTER CLINICAL FEATURES	Synonyms	DEGREE OF MATCH	Your Customized View
<p>age: geriatric (65 years - onwards)</p> <p>gender: male</p> <p>pregnancy: (- not specified -)</p> <p>region: America North</p> <p>speciality: General</p> <p>ENTER QUERY TERMS ON SEPARATE LINES:</p> <p>productive cough</p> <p>dizziness</p> <p>weight loss</p> <p>odynophagia</p> <p>hypertension</p> <p>pancytopenia</p> <p>malaise</p> <p>hypoxemia</p> <p>fever</p> <p>mediastinal lymphadenopathy</p> <p>candidiasis</p> <p>+ Add a Clinical Feature</p> <p><b>Get Checklist »</b></p> <p><a href="#">Help</a>      <a href="#">Search Again</a></p> <p>Isabel PRO is not meant to replace your clinical judgment.</p>		<p><b>16 INFECTIOUS DISEASES</b></p> <p><input checked="" type="checkbox"/> HIV / AIDS <span style="float:right">RD</span></p> <p><b>Why did this diagnosis come up ?</b></p> <p>We matched the terms: lymphadenopathy   swollen lymph node   swollen lymph nodes   fever   fevers   weight loss   malaise   fatigue   candidiasis   pancytopenia</p> <p><b>Degree of match between query entered and Isabel database (Not clinical probability): 45%</b></p> <p>Babesiosis <span style="float:right">RD</span></p> <p>Q Fever <span style="float:right">RD</span></p> <p><input checked="" type="checkbox"/> Bartonella Infection <span style="float:right">RD</span></p>	
		<p><b>10 Body Systems</b></p> <p><b>INFECTIOUS DISEASES</b></p> <p>RESPIRATORY DISORDERS</p> <p>RHEUMATIC DISEASES</p> <p>GASTROINTESTINAL DISORDERS</p> <p>NEPHROLOGY DISORDERS</p> <p>LIVER DISORDERS</p> <p>HEMATOLOGY DISORDERS</p> <p>CARDIAC DISORDERS</p> <p>NEOPLASTIC DISEASES</p> <p>TOXICOLOGY DISORDERS</p> <p>SHOW ALL DIAGNOSES</p>	