

**Case 26 (August 26 2010):** [N Engl J Med. 363\(9\):865-875](#)

**Demographic:** Male, 54 yrs, North America

**Initial presentation: clinical features extracted from the case and entered into the query box:**

cervical and mediastinal lymphadenopathy  
 night sweats  
 pruritus

**Synonyms used by Isabel for initial clinical features:**

night sweats  
 pruritis

**STOP !**

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

- Final diagnosis

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

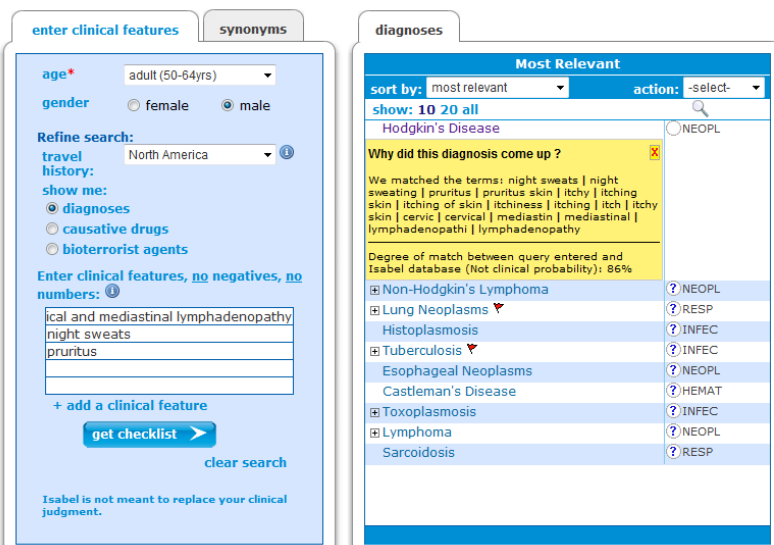
- The final diagnosis of the case
- Did Isabel suggest the final diagnosis

**Initial diagnosis of the case according to NEJM:**

Hodgkin's disease

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

Yes – Hodgkin's disease in Neoplastic



The screenshot shows the Isabel healthcare interface. On the left is the 'enter clinical features' panel, and on the right is the 'diagnoses' panel.

**enter clinical features**

age\* adult (50-64yrs)  
 gender  female  male

Refine search:  
 travel history: North America

show me:  
 diagnoses  
 causative drugs  
 bioterrorist agents

Enter clinical features, no negatives, no numbers:

ical and mediastinal lymphadenopathy  
 night sweats  
 pruritus

+ add a clinical feature  
 get checklist  
 clear search

Isabel is not meant to replace your clinical judgment.

**diagnoses**

Most Relevant

sort by: most relevant action: -select-

show: 10 20 all

Hodgkin's Disease  NEOPL

Why did this diagnosis come up ?

We matched the terms: night sweats | night sweating | pruritus | pruritus skin | itchy | itching skin | itching of skin | itchiness | itching | itch | itchy skin | cervic | cervical | mediastin | mediastinal | lymphadenopathi | lymphadenopathy

Degree of match between query entered and Isabel database (Not clinical probability): 86%

<input checked="" type="checkbox"/> Non-Hodgkin's Lymphoma	? NEOPL
<input checked="" type="checkbox"/> Lung Neoplasms	? RESP
<input checked="" type="checkbox"/> Histoplasmosis	? INFEC
<input checked="" type="checkbox"/> Tuberculosis	? INFEC
<input checked="" type="checkbox"/> Esophageal Neoplasms	? NEOPL
<input checked="" type="checkbox"/> Castleman's Disease	? HEMAT
<input checked="" type="checkbox"/> Toxoplasmosis	? INFEC
<input checked="" type="checkbox"/> Lymphoma	? NEOPL
<input checked="" type="checkbox"/> Sarcoidosis	? RESP



[www.isabelhealthcare.com](http://www.isabelhealthcare.com)

***At Admission: clinical features extracted from the case and entered into the query box:***

unilateral loss of vision  
elevated ESR  
unsteady gait  
papulosquamous rash  
severe anemia  
penile lesion  
optic neuritis

***Synonyms used by Isabel for admission clinical features:***

unilateral loss of vision  
elevated ESR  
unsteady gait  
papulosquamous rash  
severe anemia  
optic neuritis

**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:***

Anterior ischemic optic neuropathy  
Giant cell arteritis

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

Neurosyphilis

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

Anterior ischemic optic neuropathy under Optic neuropathy in Ophthalmology  
Giant cell arteritis in Rheumatic

**Was the final diagnosis given by Isabel:**  
 Yes, Neurosyphilis under Syphilis in Infectious

**Isabel Differential:**

enter clinical features
synonyms

**age\***

**gender**  female  male

**Refine search:**

**travel history:**

**show me:**

diagnoses

causative drugs

bioterrorist agents

Enter clinical features, no negatives, no numbers: ⓘ

unilateral loss of vision
elevated ESR
unsteady gait
papulosquamous rash
severe anemia
penile lesion
optic neuritis

+ add a clinical feature

**get checklist** ➔

[clear search](#)

diagnoses

action: -select-
sort by: most relevant

**show: 10 20 30 all** 🔍

Syphilis  INFEC

- Neurosyphilis
- Secondary Syphilis

**Why did this diagnosis come up ?** ❌

We matched the terms: unilateral loss of vision | abnormal gait | walking difficulty | walking difficult | optic neuritis

Degree of match between query entered and Isabel database (Not clinical probability): 48%

Acute Visual Loss	? OPHTHAL
<input checked="" type="checkbox"/> Neoplasms of the Kidney	? NEPHRO
Cryptococcus Neoformans	? INFEC
Engelmann's Disease	? ORTHO
<input type="checkbox"/> Optic Neuropathy	? OPHTHAL
↳ Arteritic Ischemic Optic Neuropathy	
Transient Ischemic Attack ▼	? NEURO
Behcet's Syndrome	? RHEUM
<input checked="" type="checkbox"/> Malignant Bone Tumors	? NEOPL
<input checked="" type="checkbox"/> Pancreatic Neoplasms	? NEOPL