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**Case 25 (August 18 2011):** [N Engl J Med. 365\(7\):648-658](#)

**Demographic:** Female, 62 yrs, South-East Asia

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

microcytic anemia  
paraspinal masses  
exertional dyspnea  
fatigue  
splenomegaly

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

microcytic anemia  
paraspinal masses  
exertional dyspnea  
fatigue  
splenomegaly

**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:**

Myelofibrosis

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

Thalassemia intermedia (Hemoglobin H disease) with extramedullary hematopoiesis

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

Myelofibrosis in Hematology

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

Yes, Thalassemia intermedia in Hematology

### Isabel Checklist 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:

microcytic anemia	✕
paraspinal masses	✕
exertional dyspnea	✕
fatigue	✕
splenomegaly	✕

+ add a clinical feature

**get checklist** >

[clear search](#)

Isabel is not meant to replace your clinical judgment.

**diagnoses** | drugs

**Results**

sort by: most relevant | action: -select

show: 10 / all

Iron Deficiency Anemia				HEMAT
<input type="checkbox"/> Thalassemia Syndromes				HEMAT
Thalassemia Intermedia				
<b>Why did this diagnosis come up ?</b>				
We matched the terms: microcytic anemia   paraspinal mass   paraspinal masses   splenomegaly   splenomegally				
Degree of match between query entered and Isabel database (Not clinical probability): 56%				
Myelofibrosis				HEMAT
<input checked="" type="checkbox"/> Pericarditis				CARDIO
<input checked="" type="checkbox"/> Liver Neoplasms				NEOPL
CMV Infections				INFECC
TTP				HEMAT
Autoimmune Hemolytic Anemias				HEMAT
<input checked="" type="checkbox"/> Inflammatory Bowel Disease				GASTRO
Brucellosis				INFECC

[view all](#)

feedback: