
**Demographic:** Female, 51 yrs, Not Pregnant, America North, General speciality

**Clinical features extracted from the case and entered into the query box:**
anemia
massive splenomegaly
fatigue
night sweats
left upper quadrant fullness
leg edema
dyspnea on exertion
lymphadenopathy
fever
migraines
tremor
anxiety
tachycardia
scleral icterus
paraproteinemia
coagulopathy

**Synonyms used by Isabel for the above query:**
dyspnea on exertion
fatigue
night sweats
paraproteinemia
lymphadenopathy
anemia
fever
leg edema
tachycardia
anxiety
scleral icterus
left upper quadrant fullness
massive 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:**
Waldenström's macroglobulinemia
Hairy-cell leukemia

**Final Diagnosis of the case according to NEJM:**
Splenic marginal-zone lymphoma, with an IgM paraprotein, antiphospholipid antibodies (lupus anticoagulant and IgM anticardiolipin antibody), and autoimmune hemolytic anemia.

**Differential Diagnoses of the case as given by Isabel:**
Waldenström's macroglobulinemia – under Neoplastic diseases heading
Hairy-cell leukemia – under Neoplastic diseases heading

**Was the final diagnosis given by Isabel:**
Yes, Splenic Marginal Lymphoma and Autoimmune Hemolytic Anemias – under Hematology heading.
### Isabel Differential:

#### HEMATOLOGY

- **Iron Deficiency Anemia**
- **Sickle Cell Disease / Crisis**
- **Hemochromatosis**

**Spleenic Marginal Lymphoma**
- Why did this diagnosis come up?
  - We matched the terms: tiredness | fatigue | tired | night sweats | paroxysmal
- Degree of match between query entered and Isabel database: (Not clinical probability): 54%

**Autoimmune Hemolytic Anemia**
- Why did this diagnosis come up?
  - We matched the terms: exertional dyspnea | malaise | fatigue | anemia | anemic | tachycardia | palpitations
- Degree of match between query entered and Isabel database: (Not clinical probability): 39%

- **Thrombocytosis**
  - Castleman’s Disease

#### RESPIRATORY DISORDERS

- **Pneumonia**
- **Respiratory Failure**
- **Critical Illness**

- **Leukemia**
  - Acute Lymphoblastic Leukemia
  - Acute Myeloid Leukemia
  - B-Cell Prolymphocytic Leukemia
  - Chronic Lymphocytic Leukemia
  - Chronic Myelogenous Leukemia
  - Essential Leukemia
  - Hairy-Cell Leukemia
  - Intrasellar Leukocyte Lymphoma
  - Large Granular Lymphocytic Leukemia
  - T-Cell Prolymphocytic Leukemia

- **Non-Hodgkin’s Lymphoma**
- **Hodgkin’s Disease**
- **Liver Neoplasms**
- **Lymphoma**
  - Lymphoma- Like Disorders
  - Subcutaneous Panniculitis-Like T-Cell Lymphoma
  - Waldenstrom’s Macroglobulinemia