

**Case 8 (March 13 2008):** [N Engl J Med. 358\(11\):1176-1187](#)

**Demographic:** Male, 33 yrs, America North, General speciality

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

fever  
ruq abdominal pain  
pancytopenia  
malaise  
nausea  
hepatosplenomegaly  
ascites  
leukopenia  
elevated LDH  
lactic acidosis  
vomiting

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

Fever  
RUQ abdominal pain  
Pancytopenia  
Malaise  
Nausea  
Ascites  
Leukopenia  
Elevated LDH  
Vomiting  
Lactic acidosis

**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:***

Hemophagocytic syndrome  
Hepatosplenic T-cell lymphoma  
EBV infection  
Babesiosis  
Ehrlichiosis  
Cholangitis

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

Post-transplant lymphoproliferative disorder: Hepatosplenic T-cell lymphoma, [gamma]/[delta] type.

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

Hepatosplenic T-cell lymphoma – under Neoplastic diseases heading  
Hemophagocytic syndrome – under Neoplastic diseases heading, under ...Hemophagocytic Lymphohistiocytosis  
EBV infection – under Infectious diseases heading  
Babesiosis - under Infectious diseases heading  
Ehrlichiosis - under Infectious diseases heading  
Cholangitis – under Liver disorders

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

Yes, under Neoplastic diseases heading



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**Isabel Differential:**

**INFECTIOUS DISEASES** >> click to collapse

- [EBV Infection](#) ? Related Dx
- [Tuberculosis](#) ? Related Dx
- [Fluke Infection](#) ? Related Dx
- [Yersinia Infection](#) ? Related Dx
- [Toxic Shock Syndrome](#) ? Related Dx
- [Brucellosis](#) ? Related Dx
- [Q Fever](#) ? Related Dx
- [Anthrax](#) ? Related Dx
- [CMV Infections](#) ? Related Dx
- [Histoplasmosis](#) ? Related Dx
- [Amebiasis](#) ? Related Dx
- [Dengue Fever](#) ? Related Dx
- [Hantavirus Syndrome](#) ? Related Dx
- [Listeriosis](#) ? Related Dx
- [Babesiosis](#) ? Related Dx
- [Arboviral Infections / Encephalitides](#) ? Related Dx
- [Chromobacterium Violaceum Infection](#) ? Related Dx
- [Arenaviral Infections](#) ? Related Dx
- [Ehrlichiosis and Anaplasmosis](#) ? Related Dx
- [Salmonella Infections](#) ? Related Dx
- [Ascariasis](#) ? Related Dx

**NEOPLASTIC DISEASES** << click to expand

- [Colorectal Cancer](#) ? Related Dx
- [Non-Hodgkin's Lymphoma](#) ? Related Dx

**Why did this diagnosis come up ?**

We matched the terms: fatigue | elevated LDH | fever | fevers | pancytopenia | cytopenia | HEPATOSPLENOMEGA | hepatosplenomegaly

**Degree of match between query entered and isabel database (Not clinical probability): 57%**

- Angioimmunoblastic T-Cell Lymphoma
- Burkitt Lymphoma
- Diffuse Large B Cell Lymphoma
- Follicular Lymphoma
- HIV / AIDS Related NHL
- Hepatosplenic T-Cell Lymphoma
- Intravascular Large B-Cell Lymphoma
- Lymphoblastic Lymphoma
- Mantle-Cell Lymphoma
- Marginal Zone B Cell Lymphoma
- Peripheral T Cell Lymphoma
- Small Lymphocytic Lymphoma

**RHEUMATIC DISEASES** << click to expand

- [SLE](#) ? Related Dx

**METABOLIC DISEASES** << click to expand

- [Lysine Disorders](#) ? Related Dx

**NEPHROLOGY**

- [Renal Failure](#) ? Related Dx

**LIVER DISORDERS** << click to expand

- [Alcoholic Liver Disease](#) ? Related Dx
- [Viral Hepatitis](#) ? Related Dx
- [Autoimmune Hepatitis](#) ? Related Dx
- [Cholangitis](#) ? Related Dx

**Why did this diagnosis come up ?**

We matched the terms: fatigue | right upper quadrant pain | HEPATOSPLENOMEGA | hepatosplenomegaly

**Degree of match between query entered and isabel database (Not clinical probability): 47%**

**CARDIAC DISORDERS** << click to expand

- [Infective Endocarditis](#) ? Related Dx

**TOXICOLOGY** << click to expand

- [Heavy Metal Intoxication](#) ? Related Dx

**HEMATOLOGY**

- [Castleman's Disease](#) ? Related Dx

**RESPIRATORY DISORDERS**

- [Pulmonary Alveolar Proteinosis](#) ? Related Dx