

Case 31 (October 9 2008): [N Engl J Med. 359\(15\):1603-1614](#)

Demographic: Male, 39 yrs, America North, General speciality

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

chest pain
arthralgias
morning stiffness
mediastinal mass
hematuria
fatigue
axillary lymphadenopathy
shortness of breath
oropharyngeal erythema
night sweats
peripheral neuropathy
myalgias
anemia
thrombocytosis
elevated ESR
positive ANCA test

Synonyms used by Isabel for the above query:

Chest pain
Arthralgias
Morning stiffness
Mediastinal mass
Hematuria
Fatigue
Shortness of breath
Night sweats
Peripheral neuropathy
Myalgias
Anemia
Thrombocytosis
Elevated ESR

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:

Wegener's granulomatosis
Sarcoidosis
Lung neoplasms
Arthritis
Tuberculosis
SLE

Final Diagnosis of the case according to NEJM:

Wegener's granulomatosis

Differential Diagnoses of the case as given by Isabel:

Wegener's granulomatosis - under Rheumatic diseases heading
Sarcoidosis – under Respiratory disorders heading
Lung neoplasms - under Respiratory disorders heading
Arthritis - under Rheumatic diseases heading
Tuberculosis – under Infectious diseases heading
SLE - under Rheumatic diseases heading

Was the final diagnosis given by Isabel:

Yes, under Rheumatic diseases heading

Isabel Differential:

- RHEUMATIC DISEASES >> click to collapse	+ INFECTIOUS DISEASES << click to expand
<input type="checkbox"/> SLE ? RD Henoch-Schonlein Purpura ? RD <input type="checkbox"/> Giant Cell Arteritis ? RD Wegener's Granulomatosis ○ RD	<input type="checkbox"/> EBV Infection ? RD <input type="checkbox"/> Tuberculosis ? RD <input type="checkbox"/> Yersinia Infection ? RD <input type="checkbox"/> Toxic Shock Syndrome ? RD Lyme Disease ? RD
Why did this diagnosis come up ? ✕ We matched the terms: chest pain elevated esr hematuria malaise fatigue myalgia muscle pain myalgias muscle pains night sweats sob shortness of breath dyspnea dib arthralgias joint pains arthralgia joint pain posit positive anca test <hr/> Degree of match between query entered and isabel database (Not clinical probability): 64%	+ NEOPLASTIC DISEASES << click to expand
	<input type="checkbox"/> Non-Hodgkin's Lymphoma ? RD <input type="checkbox"/> Hodgkin's Disease ? RD
	+ CARDIAC DISORDERS << click to expand
	+ ENDOCRINE SYSTEM << click to expand
	+ TOXICOLOGY << click to expand
- RESPIRATORY DISORDERS >> click to collapse	
<input type="checkbox"/> Atypical Pneumonia ? RD <input type="checkbox"/> Lung Neoplasms ? RD Pulmonary TB ? RD <input type="checkbox"/> Sarcoidosis ? RD	