

Case 7 (February 28 2008): [N Engl J Med. 358\(9\):941-952](#)

Demographic: Female, 17yrs, Not-pregnant, America North, General speciality

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

chest pain
hemoptysis
cough
fever
tachycardia
hypoalbuminemia
tachypnea
lower limb edema
proteinuria
hematuria
hyperlipidemia
low oxygen saturation
elevated jugular venous pressure
right ventricular heave
elevated levels of brain natriuretic peptide
right ventricular dilatation
pulmonary hypertension
elevated troponin
elevated lipoprotein a

Synonyms used by Isabel for the above query:

Chest pain
Hemoptysis
Cough
Fever
Tachycardia
Lower limb edema
Hypoalbuminemia
Tachypnea
Proteinuria
Hematuria
Hyperlipidemia
Low oxygen saturation
Pulmonary hypertension
Elevated troponin

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:

Pulmonary embolism

Nephrotic syndrome - Membranous glomerulonephritis

Final Diagnosis of the case according to NEJM:

Membranous glomerulonephritis with the nephrotic syndrome and pulmonary embolus.

Differential Diagnoses of the cases given by Isabel:

Pulmonary embolism (PE)– under Respiratory System Disorders heading

Nephrotic syndrome (NS)– under Nephrology heading

Was the final diagnosis given by Isabel:

Yes, under PE under Respiratory system disorders and NS under Nephrology heading

Isabel Differential:

<p>+ INFECTIOUS DISEASES << click to expand</p> <p>Tuberculosis 47% ? Related Dx</p>	<p>+ RESPIRATORY SYSTEM DISORDERS << click to expand</p> <p><input type="checkbox"/> Pulmonary Thromboembolism 65% ? Related Dx</p>
<p>+ RHEUMATIC DISEASES << click to expand</p> <p><input type="checkbox"/> SLE 56% ? Related Dx</p>	<p>Why did this diagnosis come up ? <input type="checkbox"/></p> <p>We matched the terms: chest pain coughing cough hemoptysis bloody sputum tachypnea rapid breathing fever fevers lower extremity edema lower limb edema tachycardia tachycardic rapid heart rate elevated troponin elevated troponin i elevated troponin t right ventricular elev elevated jugular venous pressure elevated</p> <p>Degree of match (NOT clinical probability) : 65%</p> <p>Pulmonary Embolism and Infarction</p> <p><input type="checkbox"/> Sarcoidosis 50% ? Related Dx</p>
<p>+ CARDIAC DISORDERS << click to expand</p> <p>Heart Failure / CHF 62% ? Related Dx</p> <p><input type="checkbox"/> Cardiomyopathy 51% ? Related Dx</p> <p>Pulmonary Hypertension Disorder 55% ? Related Dx</p> <p><input type="checkbox"/> Myocarditis 59% ? Related Dx</p>	<p>+ HEMATOLOGY << click to expand</p> <p><input type="checkbox"/> Sickle Cell Disease / Crisis 50% ? Related Dx</p>
<p>SHOCK STATES</p> <p>Cardiogenic Shock 51% ? Related Dx</p>	<p>UROLOGIC DISORDERS</p> <p><input type="checkbox"/> Neoplasms of the Kidney 48% ? Related Dx</p>
<p>TRAUMA INJURIES</p> <p>Cardiac Contusion 24% ? Related Dx</p>	<p>- NEPHROLOGY >> click to collapse</p> <p><input type="checkbox"/> Renal Failure 51% ? Related Dx</p> <p><input type="checkbox"/> Nephrotic Syndrome 57% ? Related Dx</p> <p>Why did this diagnosis come up ? <input type="checkbox"/></p> <p>We matched the terms: hematuria hyperlipidemia hypoalbuminemia increased rr proteinuria level levels natriuret natriuretic peptid peptide lipoprotein</p> <p>Degree of match (NOT clinical probability) : 57%</p> <p>Diabetic Nephropathy 49% ? Related Dx</p> <p>Renal Arterial Thrombosis 39% ? Related Dx</p>