
**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

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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 case as 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

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**Isabel Differential:**
### Infectious Diseases

- **Tuberculosis** (47%)

### Rheumatic Diseases

- **SLE** (56%)

### Cardiac Disorders

- **Heart Failure / CHF** (62%)
- **Cardiomyopathy** (51%)
- **Pulmonary Hypertension Disorder** (55%)
- **Myocarditis** (59%)

### Shock States

- **Cardiogenic Shock** (51%)

### Trauma Injuries

- **Cardiac Contusion** (24%)

### Respiratory System Disorders

- **Pulmonary Thromboembolism** (65%)

**Why did this diagnosis come up?**

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 | right ventricular | elev | elevated jugular venous pressure | elevated

**Degree of match (NOT clinical probability):** 65%

- **Pulmonary Embolism and Infarction**

### Hematology

- **Sickle Cell Disease / Crisis** (50%)

### Urologic Disorders

- **Neoplasms of the Kidney** (48%)

### Nephrology

- **Renal Failure** (51%)
- **Nephrotic Syndrome** (57%)

**Why did this diagnosis come up?**

We matched the terms: hematuria | hyperlipidemia | hypoalbuminemia | increased ur | proteinuria | level | levels | natriuret | natriuretic | peptide | peptide | lipoprotein

**Degree of match (NOT clinical probability):** 57%

- **Diabetic Nephropathy** (49%)
- **Renal Arterial Thrombosis** (39%)