
**Demographic:** Male, 84 yrs, North America, General speciality

**Clinical features extracted from the case and entered into the query box:**
- fever
- tachycardia
- hypertension
- shortness of breath
- productive cough
- generalized weakness
- hypoxemia
- diminished breath sounds
- diffuse bilateral chest crackles
- erythematous macular rash
- elevated jugular venous pressure
- petechiae and purpuric lesions
- anemic
- thrombocytosis
- elevated blood urea nitrogen
- high creatinine

**Synonyms used by Isabel (optional) for the above query:**
- hypertension
- fever
- anemic
- productive cough
- high creatinine
- thrombocytosis
- hypoxemia
- shortness of breath
- elevated blood urea nitrogen

**STOP!**
Before you read further you might want to construct your own:

- Complete differential diagnosis
- Final diagnosis

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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:**
- Glomerulonephritis complicating Staphylococcal infection
- Staphylococcal Superantigen–Associated Glomerulonephritis
- Henoch–Schönlein Purpura
- ANCA-associated Vasculitis
- Systemic Lupus Erythematosus

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

**Clinical diagnosis:** Glomerulonephritis.

**Anatomical diagnosis:** Henoch–Schönlein purpura associated with *Staphylococcus aureus* sepsis. Acute tubular necrosis.

**Differential Diagnoses of the case as given by Isabel:**
- Henoch–Schönlein Purpura – Isabel 1st page
- Toxic shock syndrome – Staphylococcal TSS – Isabel 1st page
- SLE – Isabel 1st page
- ARF – Isabel 2nd page
- Glomerulonephritis – Isabel 2nd page
- ANCA-Associated Vasculitis – by clicking on a heading

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

1. GN Isabel 1st page,
2. Henoch
3. ARF

**Entire presentation cut and pasted into the Isabel query box:**
Toxic shock syndrome – Staphylococcal TSS – Isabel 1st page
### Isabel differential:

<table>
<thead>
<tr>
<th>Respiratory System Disorders</th>
<th>Cardiovascular System</th>
</tr>
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<tbody>
<tr>
<td>COPD</td>
<td>Myocardial Infarction</td>
</tr>
<tr>
<td>Lung Neoplasms</td>
<td>Pericardial/Cardiac Tamponade</td>
</tr>
<tr>
<td>Pulmonary Edema</td>
<td>Cardiomyopathy</td>
</tr>
<tr>
<td>ARDS</td>
<td>Pericarditis</td>
</tr>
<tr>
<td>BOOP</td>
<td>Pericardial Effusion</td>
</tr>
<tr>
<td>Bacterial Pneumonia</td>
<td>Angina</td>
</tr>
<tr>
<td>Viral Pneumonia</td>
<td>Heart Failure/CHF</td>
</tr>
<tr>
<td>Respiratory Failure</td>
<td>Cor Pulmonale</td>
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<tr>
<td>Pneumothorax</td>
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<tr>
<td>Interstitial Lung Disease</td>
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<table>
<thead>
<tr>
<th>Rheumatic Diseases</th>
<th>Hematology</th>
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</thead>
<tbody>
<tr>
<td>Henoch-Schönlein Purpura</td>
<td>Pulmonary Thromboembolism</td>
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<tr>
<td>SLE</td>
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<table>
<thead>
<tr>
<th>Neoplastic Diseases</th>
<th>Infectious Diseases</th>
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<tbody>
<tr>
<td>Non-Hodgkin's Lymphoma</td>
<td>Pseudomonas</td>
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<tr>
<td></td>
<td>Toxic Shock Syndrome</td>
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<tr>
<td></td>
<td>Tuberculosis</td>
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<td>Salmonella Infections</td>
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<table>
<thead>
<tr>
<th>Nephrology</th>
<th>Relapsing Fever</th>
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</thead>
<tbody>
<tr>
<td>Glomerulonephritis</td>
<td></td>
</tr>
<tr>
<td>Renal Failure</td>
<td>Q Fever</td>
</tr>
</tbody>
</table>