
**Demographic**: Male, 53yrs, America North, General speciality

**Clinical features extracted from the case and entered into the query box**:
- fatigue
- weight loss
- anorexia
- dyspnea on exertion
- profuse sweating
- ruddy facial complexion
- anemia
- bibasilar rales
- lymphadenopathy
- splenomegaly
- elevated serum lactate dehydrogenase
- pancytopenia
- changing murmurs
- high ESR

**Synonyms used by Isabel for the above query**:  
- Fatigue
- Weight loss
- Anorexia
- Anemia
- Splenomegaly
- Pancytopenia
- High ESR
- Lymphadenopathy
- Dyspnea on exertion

**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:**
Infectious endocarditis
*C. burnetii* (Q fever) endocarditis
Bartonella infection - *B. Quintana, B. henselae*

**Final Diagnosis of the case according to NEJM:**
*C. burnetii* (Q fever) endocarditis

**Differential Diagnoses of the case as given by Isabel:**
Infectious endocarditis – Isabel 1st page
Q fever – click on Infectious diseases heading

**Was the final diagnosis given by Isabel:**
Yes, Isabel 1st page

**Entire presentation cut and pasted into the Isabel query box:**
Infectious endocarditis – click on Cardiac disorders heading
Q fever – click on Infectious diseases heading
Isabel differential:

<table>
<thead>
<tr>
<th>RESPIRATORY SYSTEM DISORDERS</th>
<th>INFECTIOUS DISEASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sarcoidosis</td>
<td>Brucellosis</td>
</tr>
<tr>
<td>Interstitial Lung Disease</td>
<td>Q Fever</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CARDIAC DISORDERS</th>
<th>HEMATOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infective Endocarditis</td>
<td>Castleman's Disease</td>
</tr>
<tr>
<td>Heart Failure / CHE</td>
<td>Aplastic Anemia</td>
</tr>
<tr>
<td>Cardiac Neoplasms</td>
<td>Polycythemia Disorders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NEOPLASTIC DISEASES</th>
<th>LIVER DISORDERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hodgkin's Lymphoma</td>
<td>Liver Abscess</td>
</tr>
<tr>
<td>Leukemia</td>
<td></td>
</tr>
<tr>
<td>Lymphoma</td>
<td></td>
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</tbody>
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<thead>
<tr>
<th>RHINITIC DISEASES</th>
<th>ALLERGIC DISORDERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giant Cell Arteritis</td>
<td></td>
</tr>
<tr>
<td>Polymyalgia Rheumatica</td>
<td></td>
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</tbody>
</table>