

**Case 17 (May 29 2008):** [N Engl J Med. 358\(22\):2389-2396](#)

**Demographic:** Male, 63 yrs, America North, General speciality

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

mass in kidney  
pulmonary nodules  
nausea  
loss of appetite  
abdominal pain  
constipation  
fatigue  
weight loss  
scrotal varicocele  
nonproductive cough

**Synonyms used by Isabel for the above query:**

loss of appetite  
abdominal pain  
constipation  
fatigue  
weight loss

**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



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

Renal-cell carcinoma, with metastases to the left adrenal gland and lungs.

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

Yes, under Urologic disorders heading



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**Isabel Differential:**

<div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>INFECTIOUS DISEASES</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Salmonella Infections</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Tuberculosis</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>RESPIRATORY DISORDERS</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Atypical Pneumonia</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Lung Neoplasms</a> <span style="float: right;">○RD</span> </div> <div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> <p><b>Why did this diagnosis come up ?</b> <span style="float: right;">✖</span></p> <p><b>We matched the terms:</b> Loss of appetite   weight loss   fatigue   constipation   MASS   mass   PULMONARI   pulmonary   NODUL   nodules   NAUSEA   nausea   COUGH   cough</p> <hr/> <p><b>Degree of match between query entered and Isabel database (Not clinical probability):</b> 62%</p> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Pleural Effusion</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>LIVER DISORDERS</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Alcoholic Liver Disease</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>GASTROINTESTINAL DISORDERS</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>ENDOCRINE SYSTEM</b> &gt;&gt; click to collapse         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Primary Adrenal Insufficiency</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Adrenal Neoplasms</a> <span style="float: right;">○RD</span> </div> <div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> <p><b>Why did this diagnosis come up ?</b> <span style="float: right;">✖</span></p> <p><b>We matched the terms:</b> abdominal pain   abdominal pains   loss of weight   weight loss   tiredness   fatigue   tired   constipation   PULMONARI   pulmonary   NAUSEA   nausea</p> <hr/> <p><b>Degree of match between query entered and Isabel database (Not clinical probability):</b> 50%</p> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>TOXICOLOGY</b> &lt;&lt; click to expand         </div>	<div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>RHEUMATIC DISEASES</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">SLE</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>NEOPLASTIC DISEASES</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Colorectal Cancer</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Non-Hodgkin's Lymphoma</a> <span style="float: right;">?RD</span> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>UROLOGIC DISORDERS</b> </div> <div style="border: 1px solid black; padding: 2px;"> <input type="checkbox"/> <a href="#">Neoplasms of the Kidney</a> <span style="float: right;">○RD</span> </div> <div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> <p><b>Why did this diagnosis come up ?</b> <span style="float: right;">✖</span></p> <p><b>We matched the terms:</b> abdominal pain   abdominal pains   weight loss   Malaise   fatigue   constipation   MASS   mass   KIDNEI   kidney   PULMONARI   pulmonary   NODUL   nodules   SCROTAL   scrotal   VARICOCEL   varicocele</p> <hr/> <p><b>Degree of match between query entered and Isabel database (Not clinical probability):</b> 88%</p> </div> <div style="border: 1px solid black; padding: 2px;"> <ul style="list-style-type: none"> <li><a href="#">Birt-Hogg-Dube Syndrome</a></li> <li><a href="#">Carcinoma of Renal Pelvis &amp; Ureter</a></li> <li><a href="#">Clear Cell Sarcoma</a></li> <li><a href="#">Hereditary Papillary Renal Carcinoma</a></li> <li><a href="#">Metastatic Renal Carcinoma</a></li> <li><a href="#">Paraneoplastic Renal Manifestations</a></li> <li><a href="#">Renal-Cell Carcinoma</a></li> </ul> </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>NEPHROLOGY</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>CARDIAC DISORDERS</b> &lt;&lt; click to expand         </div> <div style="border: 1px solid black; padding: 2px; background-color: #e0f0ff;"> <input type="checkbox"/> <b>DERMATOLOGY</b> &lt;&lt; click to expand         </div>
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