

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