

**Case 15 (May 15 2008):** [N Engl J Med. 358\(20\):2161-2168](#)

**Demographic:** Male, 55 years, America North, General speciality

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

elevated PSA  
decreasing force of urinary stream  
increasing urinary urgency  
nocturia  
enlarged prostate

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

elevated PSA  
increasing urinary urgency  
nocturia  
enlarged prostate

**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:**

Adenocarcinoma of the prostate.

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

Yes, under Neoplastic diseases heading

**Isabel Differential:**

|  |  |
|--|--|
| <p><b>UROLOGIC DISORDERS</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Cystitis / Urethritis <input type="checkbox"/> Related Dx</li> <li>Prostatic Hyperplasia ♂ <input type="checkbox"/> Related Dx</li> <li>Lower Urinary Tract Obstruction <input type="checkbox"/> Related Dx</li> <li>Prostatitis ♂ <input type="checkbox"/> Related Dx</li> </ul> | <p><b>NEPHROLOGY</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Renal Failure <input type="checkbox"/> Related Dx</li> <li>Urinary Tract Infection <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>ENDOCRINE SYSTEM</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Diabetic Ketoacidosis <input type="checkbox"/> Related Dx</li> </ul>  | <p><b>RESPIRATORY DISORDERS</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Bacterial Pneumonia <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>CARDIAC DISORDERS</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Heart Failure / CHF <input type="checkbox"/> Related Dx</li> </ul>   | <p><b>NERVOUS SYSTEM DISORDERS</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Dystonia Disorders <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>NEUROMUSCULAR DISORDERS</b> &lt;&lt; click to expand</p> <ul style="list-style-type: none"> <li>Chronic Autonomic Failure <input type="checkbox"/> Related Dx</li> </ul>   | <p><b>NEOPLASTIC DISEASES</b></p> <p>Prostate Cancer ♂ <input type="radio"/> Related Dx</p> <div style="border: 1px solid black; background-color: yellow; padding: 5px;"> <p><b>Why did this diagnosis come up ?</b></p> <p>We matched the terms: nocturia   elevated psa   urinari   urinary urgency   urinary</p> <p>Degree of match between query entered and isabel database (Not clinical probability): 49%</p> </div> |
| <p><b>PSYCHOLOGIC DISORDERS</b></p> <ul style="list-style-type: none"> <li>PTSD <input type="checkbox"/> Related Dx</li> </ul>   | <p><b>INFECTIOUS DISEASES</b></p> <ul style="list-style-type: none"> <li>Lyme Disease <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>SHOCK STATES</b></p> <ul style="list-style-type: none"> <li>Cardiogenic Shock <input type="checkbox"/> Related Dx</li> </ul>   | <p><b>LIVER DISORDERS</b></p> <ul style="list-style-type: none"> <li>Hepatocellular Failure <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>GASTROINTESTINAL DISORDERS</b></p> <ul style="list-style-type: none"> <li>Malocclusion <input type="checkbox"/> Related Dx</li> </ul>  | <p><b>HEMATOLOGY</b></p> <ul style="list-style-type: none"> <li>Hemolysis due to Trauma <input type="checkbox"/> Related Dx</li> </ul>   |
| <p><b>ORTHOPEDIC DISORDERS</b></p> <ul style="list-style-type: none"> <li>Foot Fractures <input type="checkbox"/> Related Dx</li> </ul>  | <p><b>ENVIRONMENTAL HEALTH HAZARDS</b></p> <ul style="list-style-type: none"> <li>Internal Radiation Contamination <input type="checkbox"/> Related Dx</li> </ul>  |