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Case 33 (October 22 2009): [N Engl J Med. 361\(17\):1689-1697](#)

Demographic: Female, 35yrs, America North, General speciality

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

abdominal pain
fever
hypotension
rigors
abdominal distension
decreased blood pressure
tachycardia
decreased urine output
tachypnea
decreased bowel sounds

Synonyms used by Isabel PRO for the above query:

abdominal pain
tachypnea
hypotension
decreased blood pressure
fever
decreased urine output
tachycardia
abdominal distension
rigors

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 PRO contain
- Did Isabel PRO suggest the final diagnosis

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Differential Diagnoses considered by the MGH panel:

Appendicitis

Final Diagnosis of the case according to NEJM:

Streptococcal toxic shock syndrome causing necrotizing fasciitis

Differential Diagnoses of the case as given by Isabel PRO:

Appendicitis – under Gastrointestinal disorders

Was the final diagnosis given by Isabel PRO:

Yes, Streptococcal toxic shock syndrome – under Infectious diseases.

Isabel PRO Final Diagnosis:

The screenshot displays the Isabel PRO interface. On the left, the 'ENTER CLINICAL FEATURES' section includes dropdown menus for age (adult (30 - 40 years)), gender (female), pregnancy (- not specified -), region (America North), and speciality (General). Below this is a text input area for 'ENTER QUERY TERMS ON SEPARATE LINES:' containing terms like 'abdominal pain', 'fever', 'hypotension', 'rigors', 'abdominal distension', 'decreased blood pressure', 'tachycardia', 'decreased urine output', 'tachypnea', and 'decreased bowel sounds'. A 'Get Checklist »' button is present. On the right, the 'DEGREE OF MATCH' section shows '48 DIAGNOSES- DEGREE OF MATCH' with a list including Peritonitis, Cardiogenic Shock, and Toxic Shock Syndrome. A yellow box explains the match: 'We matched the terms: abdominal pain | abdominal pains | tachypnea | hypotension | hypotensive | fever | febrile | fevers | oliguria | decreased urine output | tachycardia | tachycardic | chill | chills | decreas | decreased bp | decreased'. It also states 'Degree of match between query entered and Isabel database (Not clinical probability): 72%'. Below this is a list of '19 Body Systems' including Nutritional Disorders, Endocrine Disorders, Liver Disorders, Allergic Disorders, Hematology Disorders, Nervous System Disorders, Vascular Disorders, Rheumatic Diseases, Toxicology Disorders, Neoplastic Diseases, Metabolic Diseases, and Iatrogenic Disorders.

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