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**Case 2 (January 20 2011):** [N Engl J Med. 364\(3\):266-275](#)

**Demographic:** Female, Not pregnant, 30 yrs, North America

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

hypotension  
respiratory failure  
fever  
tachycardia  
abscess

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

hypotension  
respiratory failure  
tachycardia  
fever

**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:**

Streptococcal infection

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

Sepsis due to community-acquired methicillin-resistant *Staphylococcus aureus*

**Differential Diagnoses of the case as given by Isabel:**

Streptococcal infection

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

Yes, (i) Sepsis in Shock  
(ii) MRSA in Infectious

**Isabel Differential:**

**enter clinical features** | **synonyms**

age\*

gender  female  male

pregnancy

**Refine search:**

travel history:

**show me:**

diagnoses

causative drugs

bioterrorist agents

Enter clinical features, no negatives, no numbers: ⓘ

hypotension
respiratory failure
fever
tachycardia
abscess

+ add a clinical feature

**get checklist** >

clear search

Isabel is not meant to replace your clinical judgment.

**diagnoses**

**Most Relevant**

sort by: most relevant | action: -select-

show: 10 20 30 all ⓘ **New!** ⓘ

<p><b>MRSA</b> ⓘ</p> <p><b>Why did this diagnosis come up ?</b> ⓘ</p> <p>We matched the terms: low bp   low blood pressure   hypotension   hypotensive   respiratory failure   respiratory distress   fever   fevers   feverish   tachycardia   tachycardic   abscess</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 100%</p> <p>⊕ Sepsis and Shock ⓘ</p> <p><b>Why did this diagnosis come up ?</b> ⓘ</p> <p>We matched the terms: decreased bp   decreased blood pressure   low bp   low blood pressure   hypotension   respiratory distress   fever   fevers   feverish   tachycardia   tachycardic   rapid heart rate</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 78%</p> <p>⊕ Renal Failure ⓘ</p> <p>Myocarditis ⓘ</p> <p>⊖ Pulmonary Thromboembolism ⓘ</p> <p>...Pulmonary Embolism and Infarction ⓘ</p> <p>ARDS ⓘ</p>	<p>INFEC</p> <p>SHOCK</p> <p>NEPHRO</p> <p>CARDIO</p> <p>RESP</p> <p>RESP</p> <p>ENDO</p>
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feedback:  submit