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**Case 4 (January 31 2013):** [N Engl J Med. 368\(5\):466-472](#)

**Demographic:** Male, 50 years, North America

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

left flank pain  
fever  
cardiac murmurs

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

fever  
left flank pain

**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:**

Pyelonephritis

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

Streptococcus mutans bacteremia and endocarditis and methicillin-resistant Staphylococcus aureus bacteremia

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

Pyelonephritis in Nephrology

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

Yes, Endocarditis in Cardiac

### Isabel Checklist Differential:

**enter clinical features** | synonyms

age\*

gender  female  male

**Refine search:**

travel

history:

show me:

diagnoses

causative drugs

bioterrorist agents

Enter clinical features, no negatives, no numbers: ⓘ

left flank pain	✕
fever	✕
cardiac murmurs	✕

+ add a clinical feature

**get checklist** >

[clear search](#)

Isabel is not meant to replace your clinical judgment.

**diagnoses** | drugs

**show 10** | **show all** | **don't miss**

Renal Failure	👍👎	🔍 NEPHRO
Rheumatic Heart Disease	👍👎	🔍 CARDIO
Pyelonephritis	👍👎	🔍 NEPHRO
Hydronephrosis	👍👎	🔍 UROL
Aortic Aneurysm / Dissection	👍👎	🔍 VASC
Male Urinary Tract Infection	👍👎	🔍 NEPHRO
Neoplasms of the Kidney	👍👎	🔍 NEPHRO
Pericardial Effusion / Tamponade	👍👎	🔍 CARDIO
Endocarditis	👍👎	🔍 CARDIO
<b>Why did this diagnosis come up ?</b> ✕		
We matched the terms: flank pain   fever   fevers   feverish   murmurs   murmur		
Degree of match between query entered and Isabel database (Not clinical probability): 52%		
Urinary Lithiasis / Nephrolithiasis	👍👎	🔍 NEPHRO

[view all](#)

**Click diagnosis for evidence-based content.**

feedback: