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**Case 23 (July 25 2013):** [N Engl J Med. 369\(4\):374-274-382](#)

**Demographic:** Female, 54 years, North America

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

abdominal pain  
vomiting  
confusion  
weakness  
chills  
shortness of breath  
Type 2 diabetes  
increasing somnolence  
oliguria  
metabolic acidosis

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

abdominal pain  
vomiting  
confusion  
weakness  
chills  
shortness of breath  
oliguria  
metabolic alkalosis

**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:**

Cardiogenic shock in Shock states

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

Metformin toxic effects

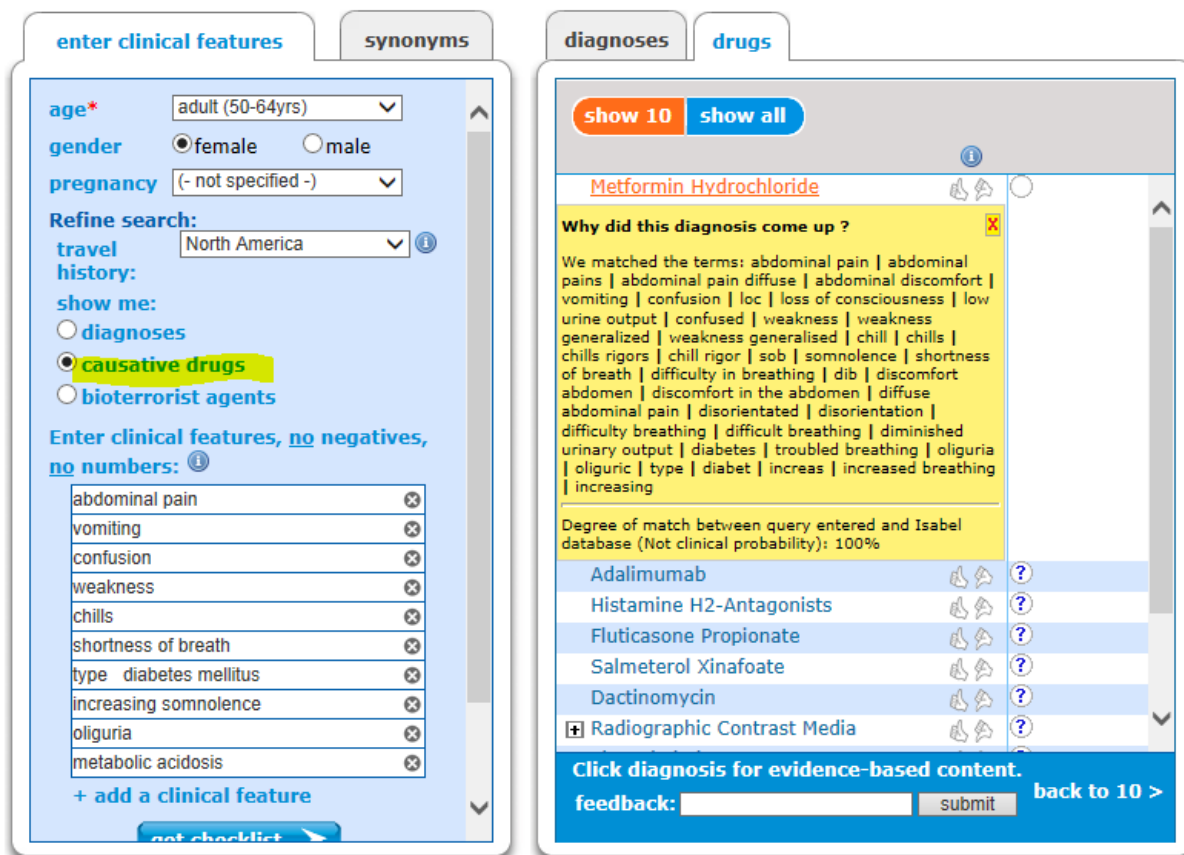
**Differential Diagnoses of the case as given by Isabel:**

Cardiogenic shock in Shock states

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

Yes, Metformin hydrochloride

**Isabel Checklist Differential:**



The screenshot displays the Isabel healthcare interface, divided into two main panels: 'enter clinical features' and 'diagnoses'.

**enter clinical features panel:**

- age\*:** adult (50-64yrs)
- gender:** female (selected), male
- pregnancy:** (- not specified -)
- Refine search:**
  - travel history:** North America
- show me:**
  - diagnoses
  - causative drugs**
  - bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
  - abdominal pain
  - vomiting
  - confusion
  - weakness
  - chills
  - shortness of breath
  - type diabetes mellitus
  - increasing somnolence
  - oliguria
  - metabolic acidosis
- + add a clinical feature**
- get checklist**

**diagnoses panel:**

- show 10** | **show all**
- Metformin Hydrochloride** (highlighted)
- Why did this diagnosis come up ?**
  - We matched the terms: abdominal pain | abdominal pains | abdominal pain diffuse | abdominal discomfort | vomiting | confusion | loc | loss of consciousness | low urine output | confused | weakness | weakness generalized | weakness generalised | chill | chills | chills rigors | chill rigor | sob | somnolence | shortness of breath | difficulty in breathing | dib | discomfort abdomen | discomfort in the abdomen | diffuse abdominal pain | disorientated | disorientation | difficulty breathing | difficult breathing | diminished urinary output | diabetes | troubled breathing | oliguria | oliguric | type | diabet | increas | increased breathing | increasing
  - Degree of match between query entered and Isabel database (Not clinical probability): 100%
- Adalimumab**
- Histamine H2-Antagonists**
- Fluticasone Propionate**
- Salmeterol Xinafoate**
- Dactinomycin**
- Radiographic Contrast Media**
- Click diagnosis for evidence-based content.**
- feedback:** [input field] **submit** **back to 10 >**