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Case 2 (January 21 2010): [N Engl J Med. 362\(3\):254-262](#)

Demographic: Male, 47 yrs, America Central, General speciality

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

lower quadrant abdominal pain
flank pain
hematuria
hypertension
constipation
abdominal bloating
hypoactive bowel sounds
sinus bradycardia
palpitations
lightheadedness

Synonyms used by Isabel PRO for the above query:

lower quadrant abdominal pain
flank pain
hematuria
hypertension
constipation
abdominal bloating
palpitations
lightheadedness

STOP !

Before you read further you might want to construct your own:

- Final diagnosis

In the following section you will find:

- The final diagnosis of the case
- Which of the MGH panel differential diagnoses did Isabel PRO contain
- Did Isabel PRO suggest the Final diagnosis

Final Diagnosis of the case according to NEJM:

Chronic infection with *Trypanosoma cruzi* (Chagas' disease) and cardiomyopathy, apical left ventricular aneurysm and thromboembolic disease with renal infarctions.

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Was the final diagnosis given by Isabel PRO:

Yes,

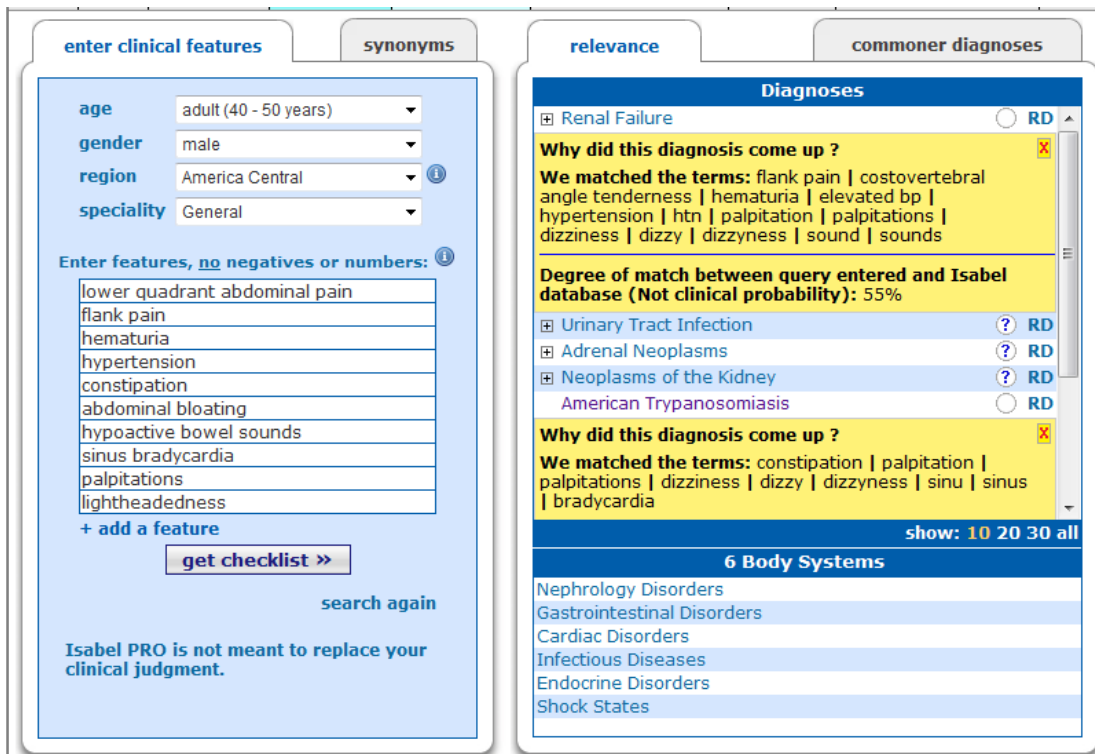
(i) Chagas' disease – within Infectious diseases

(ii) Chagas' Cardiomyopathy – under Cardiomyopathy in Cardiac disorders

(iii) Renal failure – under Nephrology disorders

Isabel PRO Final Diagnosis:

(i) Chagas' disease and **(iii)** Renal failure:



The screenshot displays the Isabel PRO interface with two main panels: 'enter clinical features' and 'Diagnoses'.

enter clinical features panel:

- age:** adult (40 - 50 years)
- gender:** male
- region:** America Central
- speciality:** General
- Enter features, no negatives or numbers:**
 - lower quadrant abdominal pain
 - flank pain
 - hematuria
 - hypertension
 - constipation
 - abdominal bloating
 - hypoactive bowel sounds
 - sinus bradycardia
 - palpitations
 - lightheadedness
- + add a feature**
- get checklist >>**
- search again**
- Isabel PRO is not meant to replace your clinical judgment.**

Diagnoses panel:

- Diagnoses**
- Renal Failure** (RD)
 - Why did this diagnosis come up ?**

We matched the terms: flank pain | costovertebral angle tenderness | hematuria | elevated bp | hypertension | htn | palpitation | palpitations | dizziness | dizzy | dizziness | sound | sounds
 - Degree of match between query entered and Isabel database (Not clinical probability): 55%**
- Urinary Tract Infection** (RD)
- Adrenal Neoplasms** (RD)
- Neoplasms of the Kidney** (RD)
- American Trypanosomiasis** (RD)
- Why did this diagnosis come up ?**

We matched the terms: constipation | palpitation | palpitations | dizziness | dizzy | dizziness | sinu | sinus | bradycardia
- show: 10 20 30 all**
- 6 Body Systems**
 - Nephrology Disorders
 - Gastrointestinal Disorders
 - Cardiac Disorders
 - Infectious Diseases
 - Endocrine Disorders
 - Shock States

(ii) Chagas' Cardiomyopathy:

enter clinical features | synonyms

age: adult (40 - 50 years) ▼
gender: male ▼
region: America Central ▼ ⓘ
speciality: General ▼

Enter features, no negatives or numbers: ⓘ

lower quadrant abdominal pain
flank pain
hematuria
hypertension
constipation
abdominal bloating
hypoactive bowel sounds
sinus bradycardia
palpitations
lightheadedness

+ add a feature

get checklist >>

search again

Isabel PRO is not meant to replace your clinical judgment.

relevance | **commoner diagnoses**

Diagnoses

- Lower Urinary Tract Obstruction ? RD
- Genitourinary TB ? RD
- Tuberculosis ? RD
- Arterial Aneurysms / Dissection ? RD
- Cardiac Neoplasms ? RD
- Interstitial Nephritis ? RD
- Polycystic Kidney Disease ? RD
- Cardiomyopathy ○ RD
 - Chaga's Cardiomyopathy
 - [+ More](#)

Why did this diagnosis come up ? ⓘ

We matched the terms: palpitation | palpitations | sinu | sinus | bradycardia

Degree of match between query entered and Isabel database (Not clinical probability): 38%

- Cholecystitis ? RD

show: 10 20 30 all

10 Body Systems

- Nephrology Disorders
- Gastrointestinal Disorders
- Cardiac Disorders
- Infectious Diseases
- Endocrine Disorders
- Urologic Disorders
- Vascular Disorders