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Case 35 (November 12 2009): [N Engl J Med. 361\(20\):1980-1989](#)

Demographic: Male, 60 yrs, America North, General speciality

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

mental state changes
diarrhea
renal insufficiency
diabetic ketoacidosis
hypotension
fatigue
somnolence
confusion
orthopnea
paroxysmal nocturnal dyspnea
tremor
clonus
cardiac murmur

Synonyms used by Isabel PRO for the above query:

paroxysmal nocturnal dyspnea
confusion
somnolence
hypotension
orthopnea
diabetic ketoacidosis
diarrhea
cardiac murmur
fatigue
renal insufficiency

STOP !

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

- Complete differential diagnosis
- Final diagnosis

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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

Differential Diagnoses considered by the MGH panel:

Endocarditis

Final Diagnosis of the case according to NEJM:

Disseminated coccidioidomycosis in a renal-allograft recipient.

Differential Diagnoses of the case as given by Isabel PRO:

Endocarditis – under Cardiac disorders

Was the final diagnosis given by Isabel PRO:

Yes, Coccidioidomycosis under Infectious diseases

Isabel PRO Final Diagnosis:

The screenshot displays the Isabel PRO interface with two main panels. The left panel, titled 'ENTER CLINICAL FEATURES', includes dropdown menus for age (adult (50 - 65 years)), gender (male), pregnancy (- not specified -), region (America North), and speciality (General). Below these is a text area for 'ENTER QUERY TERMS ON SEPARATE LINES' containing: mental state changes, diarrhea, renal insufficiency, diabetic ketoacidosis, hypotension, fatigue, somnolence, confusion, orthopnea, paroxysmal nocturnal dyspnea, tremor, clonus, and cardiac murmur. A 'Get Checklist »' button and 'Search Again' link are at the bottom. The right panel, titled 'DEGREE OF MATCH', shows '11 INFECTIOUS DISEASES' with 'Coccidioidomycosis' selected. A yellow box explains the match: 'Why did this diagnosis come up? We matched the terms: loc | diabetic ketoacidosis | malaise | fatigue | mental | tremor | clonu | clonus. Degree of match between query entered and Isabel database (Not clinical probability): 52%'. Below are other diseases like Toxic Shock Syndrome, Rocky Mountain Spotted Fever, Q Fever, and Arboviral Infections / Encephalitides. At the bottom, '17 Body Systems' are listed, including Cardiac Disorders, Infectious Diseases, Respiratory Disorders, Nephrology Disorders, Endocrine Disorders, Nervous System Disorders, Hematology Disorders, Vascular Disorders, Gastrointestinal Disorders, Rheumatic Diseases, Dermatology Disorders, Liver Disorders, and Shock States.