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Case 37 (November 26 2009): [N Engl J Med. 361\(22\):2166-2176](#)

Demographic: Female, 46 yrs, Not pregnant, America North, General speciality

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

legs swelling
skin hyperpigmentation
pruritic thigh rash
pitting edema
joint pain
fatigue
skin tightness
difficulty swallowing

Synonyms used by Isabel PRO for the above query:

legs swelling
joint pain
skin hyperpigmentation
difficulty swallowing
fatigue
pitting edema
hyperpigmentation
rash
swelling

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 PRO contain
- Did Isabel PRO suggest the Final diagnosis



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Differential Diagnoses considered by the MGH panel:

Scleroderma

Final Diagnosis of the case according to NEJM:

Nephrogenic systemic fibrosis

Differential Diagnoses of the case as given by Isabel PRO:

Scleroderma – under Rheumatic diseases

Was the final diagnosis given by Isabel PRO:

Yes, Nephrogenic systemic fibrosis under Dermatology disorders.

Isabel PRO Final Diagnosis:

The screenshot displays the Isabel PRO interface, divided into two main sections: 'ENTER CLINICAL FEATURES' and 'DEGREE OF MATCH'.

ENTER CLINICAL FEATURES: This section includes dropdown menus for 'age' (adult (40 - 50 years)), 'gender' (female), 'pregnancy' (- not specified -), 'region' (America North), and 'speciality' (General). Below these is a text area for 'ENTER QUERY TERMS ON SEPARATE LINES:' containing the following terms: peripheral oedema, skin hyperpigmentation, pruritic thigh rash, pitting edema, joint pain, fatigue, skin tightness, and difficulty swallowing. There is a '+ Add a Clinical Feature' button and a 'Get Checklist »' button. At the bottom, there are links for 'Help' and 'Search Again', and a disclaimer: 'Isabel PRO is not meant to replace your clinical judgment.'

DEGREE OF MATCH: This section shows search results under 'Your Customized View'. It lists '11 DERMATOLOGY DISORDERS' with 'Nephrogenic Systemic Fibrosis' highlighted. A yellow box provides a match explanation: 'Why did this diagnosis come up ? We matched the terms: hyperpigmentation | calcs | foot swelling | skin | thigh'. Below this, it states 'Degree of match between query entered and Isabel database (Not clinical probability): 53%'. Other disorders listed include Steven-Johnson Syndrome, Skin Pigmentation Disorders, and Scleromxedema. Below the dermatology disorders, it shows '18 Body Systems' with a 'Show All' button. The listed systems are: RHEUMATIC DISEASES, DERMATOLOGY DISORDERS, INFECTIOUS DISEASES, CARDIAC DISORDERS, RESPIRATORY DISORDERS, HEMATOLOGY DISORDERS, ENDOCRINE DISORDERS, GASTROINTESTINAL DISORDERS, GYNECOLOGICAL DISORDERS, NEPHROLOGY DISORDERS, NUTRITIONAL DISORDERS, LIVER DISORDERS, and VASCULAR DISORDERS.

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