

Case 5 (February 12 2009): [N Engl J Med. 360\(7\):711-720](#)

Demographic: Female, 47 yrs, Pregnancy not specified, America North, General speciality

Clinical features extracted from the case and entered into the query

box:

rash

mottled discoloration and intermittent swelling of legs

dry eyes

paraesthesia

tender cutaneous nodules

Synonyms used by Isabel for the above query:

rash

paraesthesia

dry eyes

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 contain
- Did Isabel suggest the Final diagnosis

Differential Diagnoses considered by the MGH panel:

Polyarteritis Nodosa

Sjögren's Syndrome

Final Diagnosis of the case according to NEJM:

Lymphocyte-mediated vasculopathy, with fibrin microthrombi and vascular hyalinization (livedoid vasculopathy), secondary to SLE.

Differential Diagnoses of the case as given by Isabel:

Polyarteritis Nodosa – under Rheumatic diseases heading

Sjögren's Syndrome – under Rheumatic diseases heading

Was the final diagnosis given by Isabel:

Yes, Systemic Lupus Erythematosus – under Rheumatic diseases heading, Livedoid Vasculopathy – under Vascular disorders heading.

Isabel Differential:

- RHEUMATIC DISEASES >> click to collapse	+ DERMATOLOGY << click to expand									
<input checked="" type="checkbox"/> SLE ○ RD <div style="border: 1px solid black; background-color: #ffff00; padding: 5px; margin: 5px 0;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: rash swelling intermittent cutan cutaneous nodul nodules</p> <hr/> <p>Degree of match between query entered and isabel database (Not clinical probability): 50%</p> </div> <ul style="list-style-type: none"> Henoch-Schonlein Purpura ? RD Rheumatoid Arthritis ? RD Wegener's Granulomatosis ? RD <input checked="" type="checkbox"/> Systemic Sclerosis ? RD Sjogren's Syndrome ? RD Thromboangiitis Obliterans ? RD Polyarteritis Nodosa ? RD Lymphomatoid Granulomatosis ? RD Antiphospholipid Syndrome ? RD Cryoglobulinemia ? RD Fibromyalgia ? RD Relapsing Polychondritis ? RD <input checked="" type="checkbox"/> Neutrophilic Dermatoses ? RD Familial Mediterranean Fever ? RD 	<input checked="" type="checkbox"/> Necrotizing Fasciitis ? RD <input checked="" type="checkbox"/> Malignant Melanoma ? RD <hr/> <td style="background-color: #e0f0ff;">- VASCULAR DISORDERS >> click to collapse</td> <td> <input checked="" type="checkbox"/> Varicose Veins ? RD <input checked="" type="checkbox"/> Peripheral Arterial Disease ? RD Livedo Reticularis ○ RD <div style="border: 1px solid black; background-color: #ffff00; padding: 5px; margin: 5px 0;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: mottl mottled leg legs cutan cutaneous</p> <hr/> <p>Degree of match between query entered and isabel database (Not clinical probability): 42%</p> </div> <input checked="" type="checkbox"/> Aortic Aneurysm / Dissection ? RD Chronic Venous Insufficiency ? RD <hr/> <td style="background-color: #e0f0ff;">TOXICOLOGY</td> <td> <input checked="" type="checkbox"/> Radioactive Isotopes ? RD <hr/> <td style="background-color: #e0f0ff;">+ HEMATOLOGY << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ CARDIAC DISORDERS << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ NUTRITIONAL DISORDERS << click to expand</td> </td></td></td></td>	- VASCULAR DISORDERS >> click to collapse	<input checked="" type="checkbox"/> Varicose Veins ? RD <input checked="" type="checkbox"/> Peripheral Arterial Disease ? RD Livedo Reticularis ○ RD <div style="border: 1px solid black; background-color: #ffff00; padding: 5px; margin: 5px 0;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: mottl mottled leg legs cutan cutaneous</p> <hr/> <p>Degree of match between query entered and isabel database (Not clinical probability): 42%</p> </div> <input checked="" type="checkbox"/> Aortic Aneurysm / Dissection ? RD Chronic Venous Insufficiency ? RD <hr/> <td style="background-color: #e0f0ff;">TOXICOLOGY</td> <td> <input checked="" type="checkbox"/> Radioactive Isotopes ? RD <hr/> <td style="background-color: #e0f0ff;">+ HEMATOLOGY << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ CARDIAC DISORDERS << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ NUTRITIONAL DISORDERS << click to expand</td> </td></td></td>	TOXICOLOGY	<input checked="" type="checkbox"/> Radioactive Isotopes ? RD <hr/> <td style="background-color: #e0f0ff;">+ HEMATOLOGY << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ CARDIAC DISORDERS << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ NUTRITIONAL DISORDERS << click to expand</td> </td></td>	+ HEMATOLOGY << click to expand	<hr/> <td style="background-color: #e0f0ff;">+ CARDIAC DISORDERS << click to expand</td> <td> <hr/> <td style="background-color: #e0f0ff;">+ NUTRITIONAL DISORDERS << click to expand</td> </td>	+ CARDIAC DISORDERS << click to expand	<hr/> <td style="background-color: #e0f0ff;">+ NUTRITIONAL DISORDERS << click to expand</td>	+ NUTRITIONAL DISORDERS << click to expand