

Case 20 (June 30 2006): [N Engl J Med 2006;354:2803-13](#)

Demographic: Male, 84 yrs, North America, General speciality

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

fever
tachycardia
hypertension
shortness of breath
productive cough
generalized weakness
hypoxemia
diminished breath sounds
diffuse bilateral chest crackles
erythematous macular rash
elevated jugular venous pressure
petechiae and purpuric lesions
anemic
thrombocytosis
elevated blood urea nitrogen
high creatinine

Synonyms used by Isabel (optional) for the above query:

hypertension
fever
anemic
productive cough
high creatinine
thrombocytosis
hypoxemia
shortness of breath
elevated blood urea nitrogen

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:

Glomerulonephritis complicating Staphylococcal infection
Staphylococcal Superantigen–Associated Glomerulonephritis
Henoch–Schönlein Purpura
ANCA-associated Vasculitis
Systemic Lupus Erythematosus

Final Diagnoses of the case according to NEJM:

Clinical diagnosis: Glomerulonephritis.

Anatomical diagnosis: Henoch–Schönlein purpura associated with *Staphylococcus aureus* sepsis. Acute tubular necrosis.

Differential Diagnoses of the case as given by Isabel:

Henoch–Schönlein Purpura – Isabel 1st page
Toxic shock syndrome – Staphylococcal TSS – Isabel 1st page
SLE – Isabel 1st page
ARF – Isabel 2nd page
Glomerulonephritis – Isabel 2nd page
ANCA-Associated Vasculitis – by clicking on a heading

Was the final diagnosis given by Isabel:

Yes.

1. GN Isabel 1st page,
2. Henoch
3. ARF

Entire presentation cut and pasted into the Isabel query box:

Toxic shock syndrome – Staphylococcal TSS – Isabel 1st page

Isabel differential:

RESPIRATORY SYSTEM DISORDERS ▾		
COPD	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Lung Neoplasms	<input type="checkbox"/>	<input type="checkbox"/> R
Pulmonary Edema	<input type="checkbox"/>	<input type="checkbox"/> R
ARDS	<input type="checkbox"/>	<input type="checkbox"/> R
BOOP	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Bacterial Pneumonia	<input type="checkbox"/>	<input type="checkbox"/> R
Viral Pneumonia	<input type="checkbox"/>	<input type="checkbox"/> R
Respiratory Failure	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Pneumothorax	<input type="checkbox"/>	<input type="checkbox"/> R
Interstitial Lung Disease	<input type="checkbox"/>	<input type="checkbox"/> R

RHEUMATIC DISEASES ▾		
Henoch-Schönlein Purpura	<input type="checkbox"/>	<input type="checkbox"/> R
SLE	<input type="checkbox"/>	<input type="checkbox"/> R

NEOPLASTIC DISEASES ▾		
↳ Non-Hodgkin's Lymphoma	<input type="checkbox"/>	<input type="checkbox"/> R

NEPHROLOGY ▾		
Glomerulonephritis	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Renal Failure	<input type="checkbox"/>	<input type="checkbox"/> R

CARDIOVASCULAR SYSTEM ▾		
Myocardial Infarction	<input type="checkbox"/>	<input type="checkbox"/> R
Pericardial/Cardiac Tamponade	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Cardiomyopathy	<input type="checkbox"/>	<input type="checkbox"/> R
Pericarditis	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Pericardial Effusion	<input type="checkbox"/>	<input type="checkbox"/> R
Angina	<input type="checkbox"/>	<input type="checkbox"/> R
Heart Failure/CHF	<input type="checkbox"/>	<input type="checkbox"/> R
Cor Pulmonale	<input type="checkbox"/>	<input type="checkbox"/> R

HEMATOLOGY ▾		
↳ Pulmonary Thromboembolism	<input type="checkbox"/>	<input type="checkbox"/> R

INFECTIOUS DISEASES ▾		
Pseudomonas	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Toxic Shock Syndrome	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Tuberculosis	<input type="checkbox"/>	<input type="checkbox"/> R
↳ Salmonella Infections	<input type="checkbox"/>	<input type="checkbox"/> R
Relapsing Fever	<input type="checkbox"/>	<input type="checkbox"/> R
Q Fever	<input type="checkbox"/>	<input type="checkbox"/> R