

Case 3 (January 25 2007): [N Engl J Med 2007;356:398-407](#)

Demographic: Male, 3 yrs, America North, General speciality

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

recurrent respiratory distress
anemia
pulmonary hemorrhage

Synonyms used by Isabel for the above query:

anemia

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:

Congenital malformations

Infections

Pulmonary–renal syndromes (Goodpasture’s syndrome, Systemic lupus erythematosus, Wegener’s granulomatosis, Microscopic polyangiitis, Henoch–Schönlein purpura)

Idiopathic pulmonary hemosiderosis

Final Diagnosis of the case according to NEJM:

Idiopathic pulmonary hemosiderosis

Differential Diagnoses of the case as given by Isabel:

Idiopathic pulmonary hemosiderosis – Isabel 1st page
Tuberculosis – click on Infectious diseases heading
Pulmonary TB – click on Respiratory system disorders
Goodpasture’s syndrome – click on nephrology heading
Microscopic polyangiitis – click on Rheumatic diseases heading
Systemic lupus erythematosus - click on Rheumatic diseases heading
Congenital malformations...

Was the final diagnosis given by Isabel:

Yes, Isabel 1st page

Entire presentation cut and pasted into the Isabel query box:

Henoch–Schönlein purpura - click on Rheumatic diseases heading
Congenital malformations...

Isabel differential for extracted features:

<p>RESPIRATORY SYSTEM DISORDERS << Click here</p> <p><u>Pulmonary Hemorrhagic Disorders</u> RD</p> <p><u>Mediastinal Cysts</u> RD</p> <p>+ <u>Bronchiolitis</u> RD</p> <p><u>Sinusitis</u> RD</p> <p><u>Pulmonary TB</u> RD</p> <p><u>Pulmonary Agenesis</u> RD</p> <p><u>Viral Induced Wheeze</u> RD</p> <p>+ <u>FB in the Respiratory Tract</u> RD</p> <p><u>Subglottic Hemanqioma</u> RD</p> <p><u>Adenoid Hypertrophy</u> RD</p> <p><u>Emphysema</u> RD</p>	<p>HEMATOLOGY << Click here</p> <p>+ <u>Hemochromatosis</u> RD</p> <p><u>Sickle Cell Disease / Crisis</u> RD</p>
<p>NEOPLASTIC DISEASES << Click here</p> <p>+ <u>Leukemia</u> RD</p> <p>+ <u>Soft Tissue Neoplasms</u> RD</p>	<p>INFECTIOUS DISEASES << Click here</p> <p><u>Histoplasmosis</u> RD</p> <p>+ <u>Influenza and Parainfluenza Viruses</u> RD</p> <p>+ <u>CMV Infections</u> RD</p> <p><u>Rocky Mountain Spotted Fever</u> RD</p> <p>+ <u>Tuberculosis</u> RD</p> <p>+ <u>Pseudomonas</u> RD</p> <p><u>HIV / AIDS</u> RD</p> <p><u>Amoebiasis</u> RD</p> <p><u>Pertussis</u> RD</p>
<p>RHEUMATIC DISEASES << Click here</p> <p><u>Microscopic Polyangiitis</u> RD</p> <p><u>SLE</u> RD</p>	<p>GASTROINTESTINAL DISORDERS << Click here</p> <p>+ <u>Duplications of the Gastrointestinal Tract</u> RD</p> <p><u>Peptic Ulcer Disease</u> RD</p>
<p>NEPHROLOGY << Click here</p> <p><u>Goodpasture's Syndrome</u> RD</p>	<p>CARDIAC DISORDERS << Click here</p> <p>+ <u>Left-to-Right Shunt Lesions</u> RD</p>
<p>TRAUMA INJURIES << Click here</p>	<p>IMMUNOLOGIC SYSTEM << Click here</p>

