

Case 40 (December 25 2008): [N Engl J Med. 359\(26\):2825-2833](#)

Demographic: Male, 26 yrs, America North, General speciality

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

periorbital pain
nasal congestion
headache
hypertension
tachycardia
swollen eye
nasal discharge
decreased visual acuity
dyschromatopsia

Synonyms used by Isabel for the above query:

hypertension
nasal congestion
nasal discharge
headache
tachycardia
dyschromatopsia
decreased visual acuity

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:

Optic neuritis
Meningiomas

Final Diagnosis of the case according to NEJM:

Allergic fungal sinusitis

Differential Diagnoses of the case as given by Isabel:

Optic neuritis – under Ophthalmology heading
Meningiomas – under Nervous system heading

Was the final diagnosis given by Isabel:

Yes, Fungal sinusitis – under Respiratory diseases heading

Isabel Differential:

+ INFECTIOUS DISEASES << click to expand	+ RESPIRATORY DISORDERS << click to expand
<input type="checkbox"/> Influenza and Parainfluenza Viruses ? RD	<input checked="" type="checkbox"/> Sarcoidosis ? RD
<input type="checkbox"/> Measles Infection ? RD	<input type="checkbox"/> Sinusitis ? RD
+ NERVOUS SYSTEM DISORDERS << click to expand	Why did this diagnosis come up ? We matched the terms: htn nasal congestion rhinorrhea periorbit periorbital pain ey eye <hr/> Degree of match between query entered and isabel database (Not clinical probability): 54%
<input type="checkbox"/> Headache Disorders ? RD	<input type="checkbox"/> Bacterial Rhinosinusitis ? RD
<input type="checkbox"/> Intracranial Hypertension ? RD	<input checked="" type="checkbox"/> Fungal Rhinosinusitis ? RD
<input type="checkbox"/> Cerebral Sinus Venous Thrombosis ? RD	<input type="checkbox"/> Common Cold / Nasopharyngitis ? RD
GASTROINTESTINAL DISORDERS	+ ENDOCRINE SYSTEM << click to expand
<input type="checkbox"/> Food Poisoning ? RD	<input checked="" type="checkbox"/> Hyperthyroidism ? RD
- OPHTHALMOLOGY >> click to collapse	+ RHEUMATIC DISEASES << click to expand
<input type="checkbox"/> Optic Neuritis ? RD	+ TOXICOLOGY << click to expand
<input type="checkbox"/> Neoplasms of the Eye ? RD	+ HEMATOLOGY << click to expand
<input type="checkbox"/> Refraction Abnormalities ? RD	+ NUTRITIONAL DISORDERS << click to expand
<input type="checkbox"/> Uveitis ? RD	+ TRAUMA INJURIES << click to expand
<input type="checkbox"/> Endophthalmitis ? RD	
<input type="checkbox"/> Trauma to the Eye ? RD	
+ NEPHROLOGY << click to expand	
+ ENVIRONMENTAL HEALTH HAZARDS << click to expand	