



Case 6 (February 19 2009): [N Engl J Med. 360\(8\):802-809](#)

Demographic: Female, 37 yrs, Pregnancy not specified, America North, General speciality

Clinical features extracted from the case and entered into the query

box:

seizure
vertigo
nausea
vomiting
tinnitus
diminished hearing
ear fullness
difficulty walking
facial weakness
fatigue
agitation
confusion
ear pain
headache
hypertonia

Synonyms used by Isabel for the above query:

ear pain
fatigue
seizure
vertigo
vomiting
facial weakness
headache
difficulty walking
tinnitus
confusion
agitation
ear fullness



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:

Lymphoma
Tuberculosis
Neuroborreliosis/Lyme Disease

Final Diagnosis of the case according to NEJM:

Neurosarcoidosis

Differential Diagnoses of the case as given by Isabel:

Lymphoma – under Brain Neoplasms in Nervous system disorders
Tuberculosis – under Infectious diseases heading
Neuroborreliosis/Lyme Disease – under Infectious diseases heading

Was the final diagnosis given by Isabel:

Yes, Neurosarcoidosis – under Sarcoidosis in Respiratory disorders heading

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Isabel Differential:

- INFECTIOUS DISEASES >> click to collapse	- NERVOUS SYSTEM DISORDERS >> click to collapse
<input type="checkbox"/> Bacterial Meningitis ? RD	<input type="checkbox"/> Migraine ? RD
<input type="checkbox"/> Viral Meningoencephalitis ? RD	<input type="checkbox"/> Transient Ischemic Attack ? RD
<input type="checkbox"/> Tuberculosis ? RD	<input type="checkbox"/> Intracranial Hemorrhage ? RD
<input type="checkbox"/> Herpes Zoster ? RD	<input type="checkbox"/> Head Injury ? RD
<input type="checkbox"/> Toxic Shock Syndrome ? RD	<input type="checkbox"/> Multiple Sclerosis ? RD
<input type="checkbox"/> Arboviral Infections / Encephalitides ? RD	<input type="checkbox"/> Ataxic Disorders ? RD
<input type="checkbox"/> Fungal Meningitis ? RD	<input type="checkbox"/> Cerebral Sinus Venous Thrombosis ? RD
<input type="checkbox"/> Lyme Disease ? RD	<input type="checkbox"/> Cerebral AV Malformations ? RD
<input type="checkbox"/> Rocky Mountain Spotted Fever ? RD	<input type="checkbox"/> Brain Neoplasms ? RD
<input type="checkbox"/> Cryptococcus Neoformans ? RD	<input type="checkbox"/> Susac Syndrome ? RD
<input type="checkbox"/> Brucellosis ? RD	
<input type="checkbox"/> Primary Amoebic Meningoencephalitis ? RD	
+ DISORDERS OF THE EAR << click to expand	- RESPIRATORY DISORDERS >> click to collapse
<input type="checkbox"/> Otitis Media Complications ? RD	<input type="checkbox"/> Atypical Pneumonia ? RD
<input type="checkbox"/> Menière's Disease ? RD	<input type="checkbox"/> Lung Neoplasms ? RD
	<input type="checkbox"/> Sarcoidosis ? RD
NEPHROLOGY	
<input type="checkbox"/> Renal Failure ? RD	
+ ENVIRONMENTAL HEALTH HAZARDS << click to expand	
+ RHEUMATIC DISEASES << click to expand	
+ CARDIAC DISORDERS << click to expand	

Why did this diagnosis come up ?

We matched the terms: malaise | fatigue | seizures | seizure | facial nerve palsy | headache | headaches | loc | loss of consciousness | confused | hear | head ache | hearing

Degree of match between query entered and isabel database (Not clinical probability): 48%

- Lofgren' Syndrome
- Neurosarcoidosis