
Demographic: Male, 46 yrs, America North, General speciality

Clinical features extracted from the case and entered into the query box:
- hemiparesis
- aphasia
- migraines
- dysarthria
- facial weakness
- brisk reflexes
- dysphagia
- severe fatigue
- nausea
- vomiting
- phonophobia

Synonyms used by Isabel for the above query:
- dysphagia
- dysarthria
- brisk reflexes
- fatigue
- vomiting
- facial weakness
- aphasia
- hemiparesis
- phonophobia

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:**
MELAS

**Final Diagnosis of the case according to NEJM:**  Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL).

**Differential Diagnoses of the case as given by Isabel:**
MELAS – Mitochondrial Encephalomyopathies - under Infectious diseases heading

**Was the final diagnosis given by Isabel:**
Yes, Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL) – under Infectious diseases heading
Isabel Differential:

- **NERVOUS SYSTEM DISORDERS**

  - Migraine
  - Headache Disorders
  - CVA / Stroke
  - Transient Ischemic Attack
  - Intracranial Abscess
  - Intracranial Hemorrhage
  - Head Injury
  - Multiple Sclerosis
  - Vascular Dementia

  **Why did this diagnosis come up?**

  We matched the terms: dysphagia | dysarthria | slurring of speech | migraine | migraines

  **Degree of match between query entered and Isabel database (Not clinical probability): 33%**

  - CADASIL
  - Ataxic Disorders
  - Cerebral Sinus Venous Thrombosis
    - Bell's Palsy
  - Mitochondrial Encephalomyopathies
    - MELAS
    - Cerebral AV Malformations
  - HIV Neuro Complications
  - Brain Neoplasms
  - Aphasic Syndromes
    - Progressive Supranuclear Palsy