
**Demographic:** Female, 56yrs, Not Pregnant, America North, General speciality

**Clinical features extracted from the case and entered into the query box:**
dysarthria
dizziness
vertigo
nausea
vomiting
ataxia
oscillopsia
blurred vision
diplopia
nystagmus
tremor
dysphagia
memory and cognitive deficits
proximal leg weakness
dysmetria
dysdiadochokinesia

**Synonyms used by Isabel for the above query:**
dysarthria
dizziness
vertigo
vomiting
blurred vision
diplopia
dysphagia
dysmetria
ataxia

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:**
Paraneoplastic Syndromes Affecting the Central Nervous System
Neoplasm - Breast cancer
Sarcoidosis

**Final Diagnosis of the case according to NEJM:**
Paraneoplastic syndrome with paraneoplastic cerebellar degeneration, probably associated with anti-Yo antibodies and a primary breast cancer.

**Differential Diagnoses of the case as given by Isabel:**
Paraneoplastic Neurologic Syndromes – Isabel 1\textsuperscript{st} page

**Was the final diagnosis given by Isabel:**
Yes, Isabel 1\textsuperscript{st} page

**Entire presentation cut and pasted into the Isabel query box:**
None of the above
### Isabel differential:

<table>
<thead>
<tr>
<th>NERVOUS SYSTEM DISORDERS</th>
<th>NEUROMUSCULAR DISORDERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Sclerosis</td>
<td></td>
</tr>
<tr>
<td>Paraneoplastic Neurologic Syndrome</td>
<td></td>
</tr>
<tr>
<td>CVA / Stroke</td>
<td>Radioactive isotopes</td>
</tr>
<tr>
<td>Ataxic Disorders</td>
<td></td>
</tr>
<tr>
<td>Transient Ischemic Attack</td>
<td></td>
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<tr>
<td>Migraine</td>
<td></td>
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<tr>
<td>Intracranial Hypertension</td>
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<tr>
<td>Intracranial Hemorrhage</td>
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<thead>
<tr>
<th>RHEUMATIC DISEASES</th>
<th>TOXICOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
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<td>+ Radioactive isotopes</td>
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<tr>
<th>NEOPLASTIC DISEASES</th>
<th>INFECTIOUS DISEASES</th>
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<tbody>
<tr>
<td></td>
<td>+ Botulism</td>
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<thead>
<tr>
<th>GASTROINTESTINAL DISORDERS</th>
<th>LIVER DISORDERS</th>
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<tr>
<th>ENVIRONMENTAL HEALTH HAZARDS</th>
<th>TRAUMA INJURIES</th>
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