

**Case 15 (May 16 2013):** [N Engl J Med. 368\(20\):1919-1927](#)

**Demographic:** Male, 76 years, North America

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

fever  
confusion  
urinary frequency  
fatigue  
increasing somnolence  
neck stiffness  
hypertension  
bradycardia  
leucocytosis  
cogwheeling rigidity

**Synonyms used by Isabel for the above query:**

fever  
confusion  
fatigue  
neck stiffness  
hypertension  
bradycardia  
leucocytosis

**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:**

Stroke  
Bacterial meningitis  
Lyme disease

**Final Diagnosis of the case according to NEJM:**

West nile virus infection

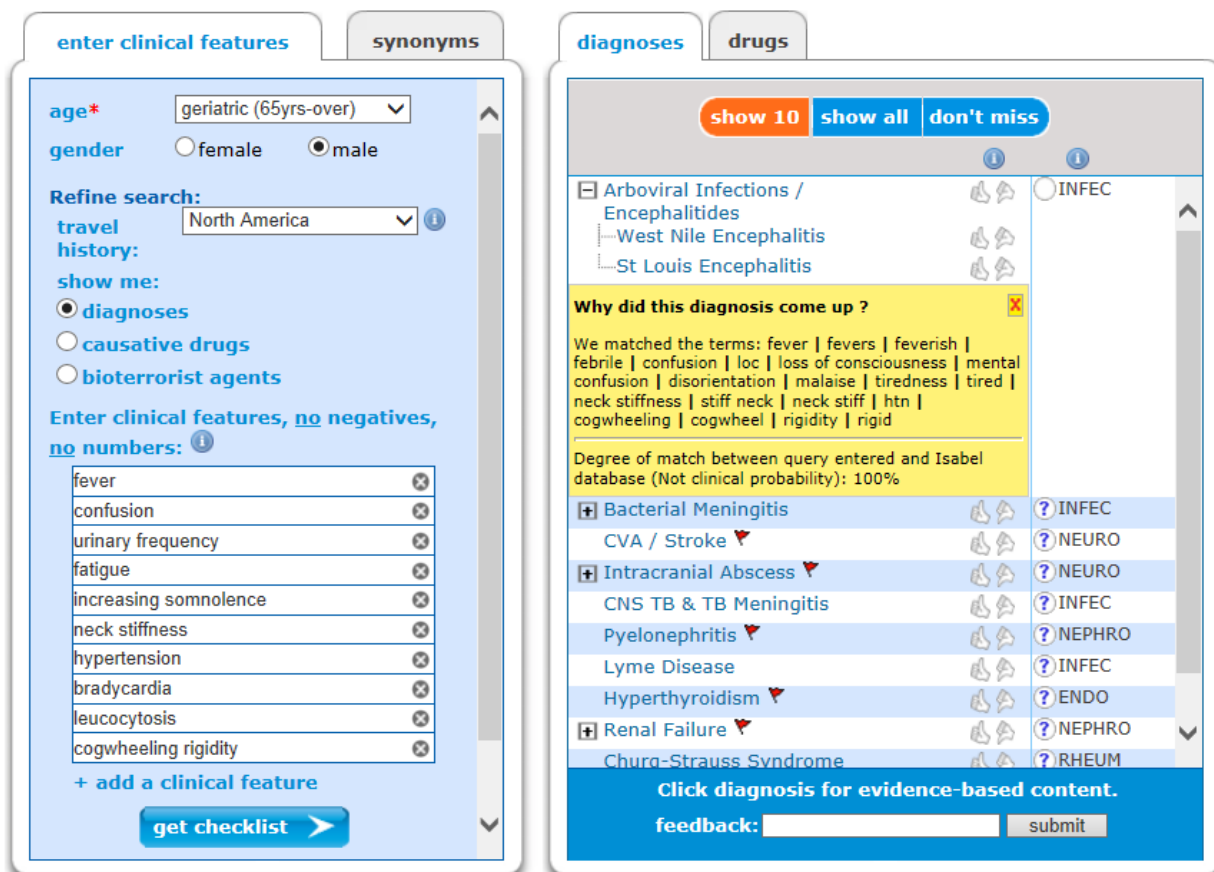
**Differential Diagnoses of the case as given by Isabel:**

- Stroke in Neuro
- Bacterial meningitis in Infectious
- Lyme disease in Infectious

**Was the final diagnosis given by Isabel:**

Yes, West nile encephalitis under Arboviral Infections in Infectious

**Isabel Checklist Differential:**



The screenshot displays the Isabel Checklist Differential interface, divided into two main panels: 'enter clinical features' and 'diagnoses'.

**enter clinical features panel:**

- age\*:** geriatric (65yrs-over)
- gender:** female (unselected), male (selected)
- Refine search:** travel history: North America
- show me:** diagnoses (selected), causative drugs, bioterrorist agents
- Enter clinical features, no negatives, no numbers:** fever, confusion, urinary frequency, fatigue, increasing somnolence, neck stiffness, hypertension, bradycardia, leucocytosis, cogwheeling rigidity
- + add a clinical feature**
- get checklist** button

**diagnoses panel:**

- Buttons: show 10, show all, don't miss
- Search results:
  - Arboviral Infections / Encephalitides (selected)
    - West Nile Encephalitis
    - St Louis Encephalitis
- Why did this diagnosis come up ?** (highlighted)
  - We matched the terms: fever | fevers | feverish | febrile | confusion | loc | loss of consciousness | mental confusion | disorientation | malaise | tiredness | tired | neck stiffness | stiff neck | neck stiff | htn | cogwheeling | cogwheel | rigidity | rigid
  - Degree of match between query entered and Isabel database (Not clinical probability): 100%
- Differential diagnoses list:
  - Bacterial Meningitis (INFEC)
  - CVA / Stroke (NEURO)
  - Intracranial Abscess (NEURO)
  - CNS TB & TB Meningitis (INFEC)
  - Pyelonephritis (NEPHRO)
  - Lyme Disease (INFEC)
  - Hyperthyroidism (ENDO)
  - Renal Failure (NEPHRO)
  - Churg-Strauss Syndrome (RHEUM)
- Click diagnosis for evidence-based content.**
- feedback:** [input field] submit