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**Case 16 (May 23 2013):** [N Engl J Med. 368\(21\):2015-2024](#)

**Demographic:** Female, 12 years, North America

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

severe irritability  
hypersomnia  
somnolent  
social withdrawal  
chronic weakness  
psychomotor retardation  
fatigue  
anorexia  
vomiting  
abdominal pain  
dizziness  
muscle and joint pain  
hyperpigmentation  
hypotension  
hyponatremia  
hyperkalemia  
hypercalcemia  
anemia  
esinophilia  
medical history of celiac disease

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

hypersomnia  
severe irritability  
chronic weakness  
fatigue  
anorexia  
vomiting  
abdominal pain  
dizziness  
hyperpigmentation  
hypotension  
hyponatremia  
hyperkalemia  
hypercalcemia  
anemia  
eosinophilia  
medical history of celiac disease  
psychomotor retardation

## STOP !

**Before you read further you might want to construct your own:**

- Final diagnosis

**In the following section you will find:**

- The final diagnosis of the case
- Did Isabel suggest the final diagnosis

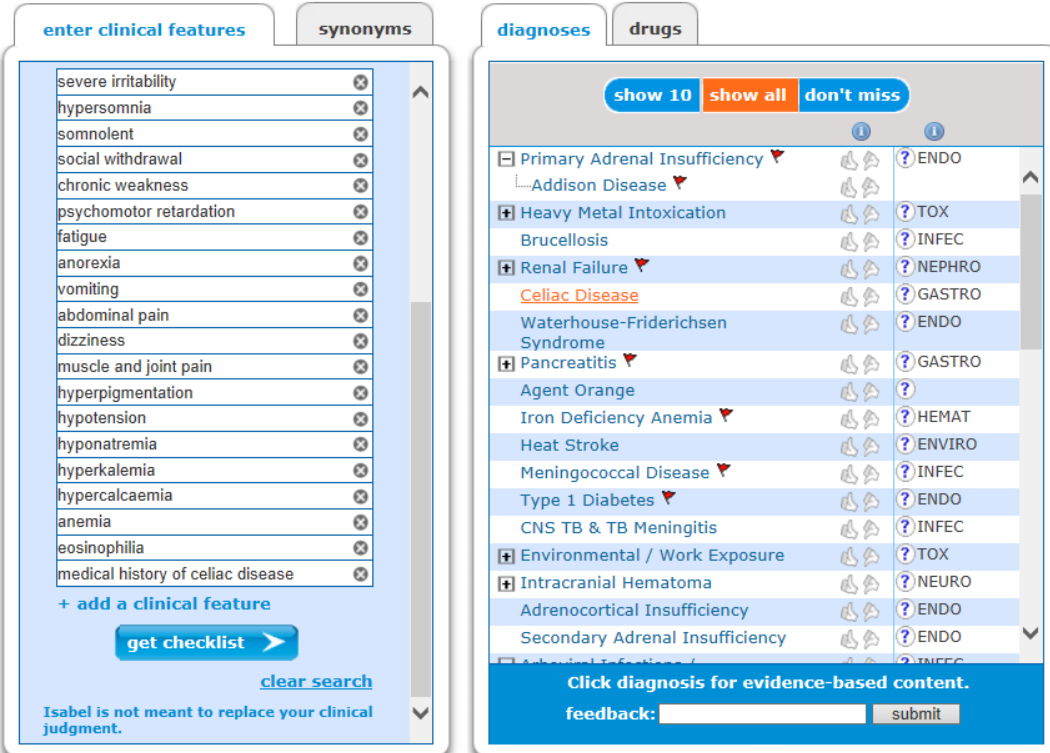
**Final Diagnosis of the case according to NEJM:**

- Yes, (i) Celiac disease  
 (ii) Addison's disease  
 (iii) Major depressive disorder

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

- Yes, (i) Celiac disease in Gastro  
 (ii) Addison's disease under Primary adrenal insufficiency in Endo  
 (iii) Major depressive disorder under Depression in Psych

**Isabel Checklist Differential:**



The screenshot shows the Isabel Checklist Differential interface. On the left, under 'enter clinical features', a list of symptoms is displayed with checkboxes: severe irritability, hypersomnia, somnolent, social withdrawal, chronic weakness, psychomotor retardation, fatigue, anorexia, vomiting, abdominal pain, dizziness, muscle and joint pain, hyperpigmentation, hypotension, hyponatremia, hyperkalemia, hypercalcaemia, anemia, eosinophilia, and medical history of celiac disease. Below this list are buttons for '+ add a clinical feature', 'get checklist', and 'clear search'. A disclaimer at the bottom states: 'Isabel is not meant to replace your clinical judgment.'

On the right, under 'diagnoses', a list of potential diagnoses is shown with associated organ systems and a 'show 10 show all don't miss' filter. The list includes: Primary Adrenal Insufficiency (Addison Disease) - ENDO; Heavy Metal Intoxication - TOX; Brucellosis - INFEC; Renal Failure - NEPHRO; Celiac Disease - GASTRO; Waterhouse-Friderichsen Syndrome - ENDO; Pancreatitis - GASTRO; Agent Orange - ?; Iron Deficiency Anemia - HEMAT; Heat Stroke - ENVIRO; Meningococcal Disease - INFEC; Type 1 Diabetes - ENDO; CNS TB & TB Meningitis - INFEC; Environmental / Work Exposure - TOX; Intracranial Hematoma - NEURO; Adrenocortical Insufficiency - ENDO; and Secondary Adrenal Insufficiency - ENDO. At the bottom of the diagnoses list, there is a prompt: 'Click diagnosis for evidence-based content.' and a feedback form with a 'submit' button.



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