
Demographic: Male, 19 yrs, America North, General speciality

Clinical features extracted from the case and entered into the query box:
abdominal pain
distended abdomen
weightloss
nausea
bradycardia
slow breathing rate
orthostatic hypotension
dry skin
underweight
short stature
decreased caloric intake
hypothermia
delayed bone maturation
low bone density
anemia
leukopenia
thrombocytopenia

Synonyms used by Isabel for the above query:
Abdominal pain
Distended abdomen
Weightloss
Bradycardia
Slow breathing rate
Orthostatic hypotension
Dry skin
Underweight
Short stature
Decreased caloric intake
low bone density
anemia
leukopenia
thrombocytopenia
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:**
Fecal impaction
Superior mesenteric artery syndrome
Perforation of the bowel
Anorexia Nervosa

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

**Differential Diagnoses of the case as given by Isabel:**
Anorexia Nervosa - under Psychologic disorders heading
Fecal impaction – under Gastrointestinal disorders heading

**Was the final diagnosis given by Isabel:**
Yes, under Psychologic disorders heading
### Isabel Differential:

<table>
<thead>
<tr>
<th><strong>INFECTIOUS DISEASES</strong></th>
<th><strong>GASTROINTESTINAL DISORDERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Salmonella Infections</em></td>
<td><em>Gastritis</em></td>
</tr>
<tr>
<td><em>Tuberculosis</em></td>
<td><em>Celiac Disease</em></td>
</tr>
<tr>
<td><em>Toxic Shock Syndrome</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>NEOPLASTIC DISEASES</strong></th>
<th><strong>ENDOCRINE SYSTEM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Gastric Neoplasms</em></td>
<td><em>Hyperthyroidism</em></td>
</tr>
<tr>
<td><em>Colorectal Cancer</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TOXICOLOGY</strong></th>
<th><strong>PSYCHOLOGIC DISORDERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Heavy Metal Intoxication</em></td>
<td><em>Eating Disorders</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>HEMATOLOGY</strong></th>
<th><strong>LIVER DISORDERS</strong></th>
</tr>
</thead>
</table>

### Why did this diagnosis come up?

We matched the terms: anorexia | weight loss | xerosis | dry skin | leukopenia | leukopenic | thrombocytopenia | underweight | low body weight | anemia | anemic | bradycardia | bradycardic | slow pulse | bradypnea | low breathing rate | osteopenia | low bone density | hypothermia | delirium | delayed | bone |

Degree of match between query entered and Isabel database (Not clinical probability): 58% **Anorexia Nervosa**

*Atypical Eating Disorder*  
*Bulimia Nervosa*