

Case 23 (July 26 2007): [N Engl J Med. 357\(4\):392-400](#)

Demographic: Male, 9 yrs, America North, General speciality

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

hip pain
limping
decreased energy
irritable
decreased appetite
weight loss
gingival swelling with bleeding
perifollicular petechiae

Synonyms used by Isabel for the above query:

decreased appetite
weight loss
limping
irritable

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:

Chronic recurrent multifocal osteomyelitis
Micronutrient deficiencies – vitamin C
Juvenile Rheumatoid Arthritis

Final Diagnosis of the case according to NEJM:

Scurvy / Vitamin C deficiency

Differential Diagnoses of the case as given by Isabel:

Vitamin C deficiency – Isabel top 10

Juvenile Rheumatoid Arthritis – click on Rheumatic diseases heading

Chronic recurrent multifocal osteomyelitis – click on Infectious diseases heading

Was the final diagnosis given by Isabel:

Yes, Isabel top 10

Isabel differential:

NUTRITIONAL DISORDERS	IMMUNOLOGIC SYSTEM << Click here
Vit C Deficiency ? Related Dx	NEPHROLOGY << Click here
INFECTIOUS DISEASES << Click here	ORTHOPEDIC DISORDERS << Click here
<ul style="list-style-type: none"> ⊕ Bacterial Meningitis ? Related Dx <ul style="list-style-type: none"> Streptococcus Pneumonia Infection ? Related Dx Meningococcal Disease ? Related Dx ⊕ Osteomyelitis and Septic Arthritis ? Related Dx <ul style="list-style-type: none"> Chronic Nonsuppurative Sclerosing Osteomyelitis Hematogenous Osteomyelitis Hemophilus Influenza Septic Arthritis ⊕ Osteomyelitis of the Jaw <ul style="list-style-type: none"> Chronic Recurrent Multifocal Osteomyelitis Suppurative Osteomyelitis ⊕ Brucellosis ? Related Dx ⊕ Yersinia Infection ? Related Dx <ul style="list-style-type: none"> Babesiosis ? Related Dx Rat-Bite Fever ? Related Dx Tetanus ? Related Dx 	PSYCHOLOGIC DISORDERS << Click here
ENDOCRINE SYSTEM << Click here	CARDIAC DISORDERS << Click here
Type 1 Diabetes ? Related Dx	HEMATOLOGY << Click here
Adrenocortical Insufficiency ? Related Dx	RHEUMATIC DISEASES << Click here
NEOPLASTIC DISEASES << Click here	TOXICOLOGY << Click here
<ul style="list-style-type: none"> ⊕ Leukemia ? Related Dx ⊕ Non-Hodgkin's Lymphoma ? Related Dx <ul style="list-style-type: none"> Neuroblastoma ? Related Dx 	NERVOUS SYSTEM DISORDERS << Click here
RESPIRATORY SYSTEM DISORDERS << Click here	LIVER DISORDERS << Click here
Pulmonary TB ? Related Dx	ENVIRONMENTAL HEALTH HAZARDS << Click here
GASTROINTESTINAL DISORDERS << Click here	METABOLIC DISEASES << Click here
⊕ Inflammatory Bowel Disease ? Related Dx	