

Case 9 (March 20 2008): [N Engl J Med. 358\(12\):1283-1291](#)

Demographic: Female, 65 yrs, America North, General speciality

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

nonhealing mandible ulcer
gingival inflammation
mucosal ulceration with exposed bone

Synonyms used by Isabel for the above query:

None

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:

Untreated or inadequately treated osteomyelitis
Cancer or the effects of its treatment - Bisphosphonate-Related Osteonecrosis of the Jaw

Final Diagnosis of the case according to NEJM:

Gingival ulceration, inflammation, and acute osteomyelitis with actinomyces, all associated with necrosis of bone (bisphosphonate-related osteonecrosis of bone).



Differential Diagnoses of the cases given by Isabel:

Bisphosphonate-Related Osteonecrosis of jaw – under Infectious diseases heading, under Osteomyelitis & Septic Arthritis diagnosis

Was the final diagnosis given by Isabel:

Yes, under Infectious diseases heading

Isabel Differential:

INFECTIOUS DISEASES << click to expand	
<input type="checkbox"/> Osteomyelitis and Septic Arthritis	<input type="radio"/> Related Dx
<div style="border: 1px solid black; padding: 5px;"> <p>Why did this diagnosis come up ?</p> <p>We matched the terms: nonhealing NONHEAL MANDIBL mandible ULCER ulcer ulceration GINGIV gingival INFLAMM inflammation MUCOS mucosal EXPOS exposed BONE bone</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 88%</p> <ul style="list-style-type: none"> · Hematogenous Osteomyelitis · <input type="checkbox"/> Osteomyelitis of the Jaw <ul style="list-style-type: none"> · Bisphosphonate-Related Osteonecrosis of Jaw </div>	
<input type="checkbox"/> Tuberculosis	<input type="radio"/> Related Dx
RHEUMATIC DISEASES << click to expand	
<input type="checkbox"/> SLE	<input type="radio"/> Related Dx
NEOPLASTIC DISEASES << click to expand	
<input type="checkbox"/> Colorectal Cancer	<input type="radio"/> Related Dx
RESPIRATORY DISORDERS << click to expand	
<input type="checkbox"/> Sarcoidosis	<input type="radio"/> Related Dx
TOXICOLOGY << click to expand	
<input type="checkbox"/> Environmental / Work Exposure	<input type="radio"/> Related Dx
OPHTHALMOLOGY	
<input type="checkbox"/> Blepharitis	<input type="radio"/> Related Dx
ENVIRONMENTAL HEALTH HAZARDS	
<input type="checkbox"/> Spider Bites	<input type="radio"/> Related Dx

GASTROINTESTINAL DISORDERS << click to expand	
<input type="checkbox"/> Celiac Disease	<input type="radio"/> Related Dx
DERMATOLOGY << click to expand	
<input type="checkbox"/> Non Melanoma Skin Cancer	<input type="radio"/> Related Dx
<input type="checkbox"/> Steven-Johnson Syndrome	<input type="radio"/> Related Dx
VASCULAR DISORDERS << click to expand	
<input type="checkbox"/> Chronic Venous Insufficiency	<input type="radio"/> Related Dx
GYNECOLOGICAL DISORDERS << click to expand	
<input type="checkbox"/> Vaginal Carcinoma	<input type="radio"/> Related Dx
IMMUNOLOGIC SYSTEM	
<input type="checkbox"/> Chronic Granulomatous Disease	<input type="radio"/> Related Dx
HEMATOLOGY	
<input type="checkbox"/> Aplastic Anemia	<input type="radio"/> Related Dx