

Case 40 (December 29 2005): [N Engl J Med 2005;353:2798-805](#)

Demographic: Male, 18yrs, America North, General Speciality

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

mandibular enlargement

firm, nontender swelling on ramus and posterior body of the mandible

gingivitis

Synonyms used by Isabel for the above query:

Gingivitis

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

Final Diagnoses of the case according to NEJM:

Odontogenic keratocyst

Differential Diagnoses of the case as given by Isabel:

Odontogenic keratocyst (Mandibular cysts) – Isabel 1st page

Was the final diagnosis given by Isabel:

Yes, Isabel 1st page

Entire presentation cut and pasted into the Isabel query box:

Odontogenic keratocyst – click on Gastrointestinal disorders heading

Isabel differential for extracted features of entire case presentation:

GASTROINTESTINAL DISORDERS << Click here ↳ Mandibular Cysts RD Oral Cancer RD Acute Pericoronitis RD Neoplasms of the Jaw RD Gingivitis / Stomatitis RD	RESPIRATORY SYSTEM DISORDERS << Click here Sarcoidosis RD
DERMATOLOGY << Click here Granuloma Annulare RD	ORTHOPEDIC DISORDERS << Click here Torticollis RD
NEOPLASTIC DISEASES << Click here	ENDOCRINE SYSTEM << Click here Hypothyroidism RD
HEMATOLOGY << Click here	INFECTIOUS DISEASES << Click here HIV / AIDS RD
NUTRITIONAL DISORDERS << Click here	CARDIAC DISORDERS << Click here
IMMUNOLOGIC SYSTEM << Click here	HUMAN GENETICS << Click here
NERVOUS SYSTEM DISORDERS << Click here	VASCULAR DISORDERS << Click here
RHEUMATIC DISEASES << Click here	TRAUMA INJURIES << Click here

Table1: Cystic Lesions of the Mandible

Odontogenic lesions

Cysts

Dentigerous cyst

Odontogenic keratocyst (now considered to be a neoplasm)

Calcifying odontogenic cyst

Glandular odontogenic cyst

Tumors

Ameloblastoma

Ameloblastic fibroma

Calcifying epithelial odontogenic tumor

Squamous odontogenic tumor

Nonodontogenic benign tumors

Aggressive giant-cell tumor

Ossifying and cementifying fibromas

Desmoplastic fibroma

Aneurysmal bone cyst

Vascular malformations

Isabel differential for cystic lesions of the mandible:

<p>GASTROINTESTINAL DISORDERS << Click here</p> <p><u>Oral Cancer</u> RD</p> <p>↳ <u>Mandibular Cysts</u> RD</p> <p><u>Gingivitis / Stomatitis</u> RD</p> <p><u>Duplications of the Gastrointestinal Tract</u> RD</p>	<p>INFECTIOUS DISEASES << Click here</p> <p><u>Actinomycoses Infection</u> RD</p>
<p>NEPHROLOGY << Click here</p> <p><u>Medullary Sponge Kidney</u> RD</p>	<p>NEOPLASTIC DISEASES << Click here</p> <p><u>Yolk Sac Tumor</u> RD</p> <p><u>Head and Neck Neoplasms</u> RD</p>
<p>HEMATOLOGY << Click here</p>	<p>NERVOUS SYSTEM DISORDERS << Click here</p> <p>↳ <u>Brain Neoplasms</u> RD</p>
<p>ENDOCRINE SYSTEM << Click here</p> <p>↳ <u>Adrenal Neoplasms</u> RD</p>	<p>RESPIRATORY SYSTEM DISORDERS << Click here</p>
<p>DERMATOLOGY << Click here</p>	<p>HUMAN GENETICS << Click here</p>
<p>UROLOGIC DISORDERS << Click here</p>	
<p>ORTHOPEDIC DISORDERS << Click here</p>	