

Case 5 (February 14 2013): [N Engl J Med. 368\(7\):664-673](#)

Demographic: Female, 52 years, North America

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

thyroid mass
lump in throat when swallowing
thyroid nodules
cardiac murmur
mild productive cough
cervical lymphadenopathy

Synonyms used by Isabel for the above query:

thyroid mass
thyroid nodules
cardiac mumur
mild productive cough
cervical lymphadenopathy

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:

Hashimoto's thyroiditis
Papillary thyroid carcinoma
Anaplastic thyroid carcinoma
Thyroid lymphoma

Final Diagnosis of the case according to NEJM:

Medullary thyroid carcinoma, metastatic to cervical lymph nodes and the liver

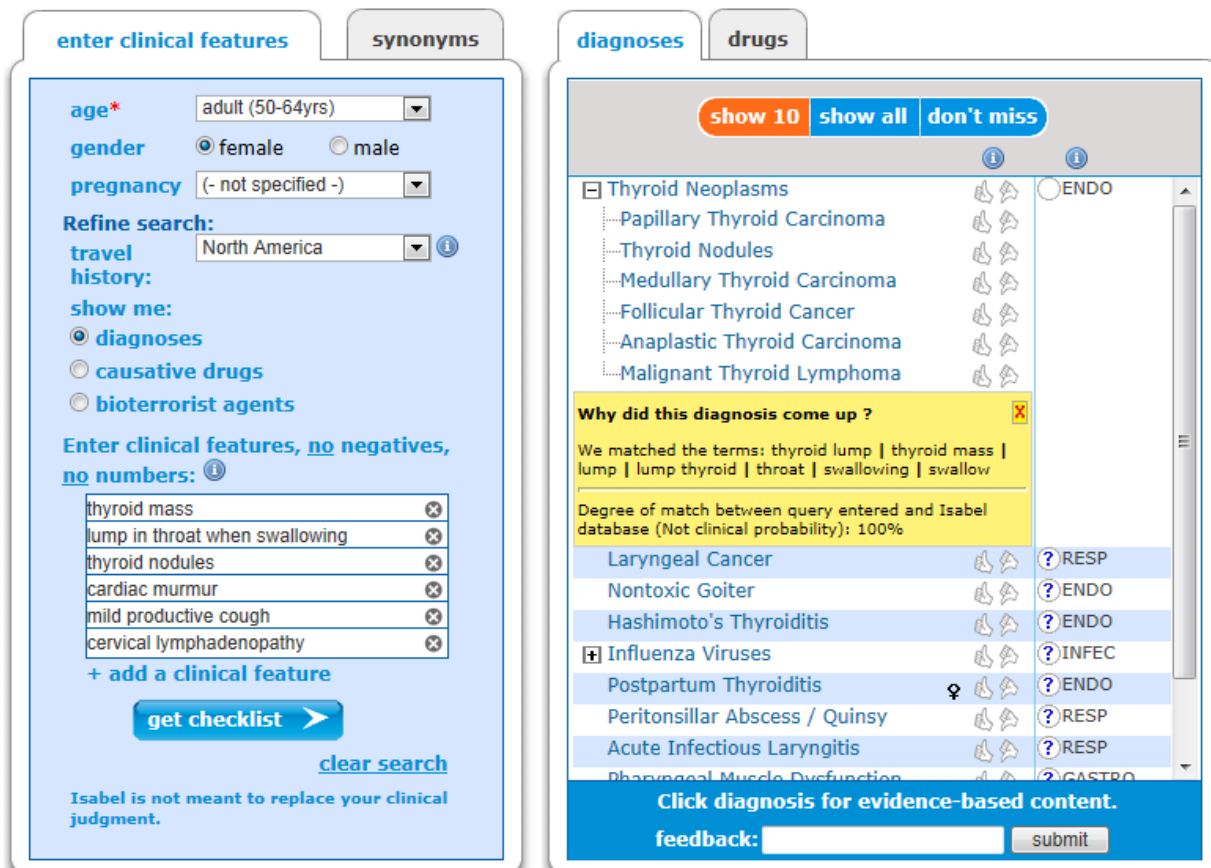
Differential Diagnoses of the case as given by Isabel:

- Hashimoto's thyroiditis in Endocrinology
- Papillary thyroid carcinoma
- Anaplastic thyroid carcinoma
- Thyroid lymphoma
- All these were under Thyroid neoplasms in Endocrinology

Was the final diagnosis given by Isabel:

Yes, Medullary thyroid carcinoma under Thyroid neoplasms in Endocrinology

Isabel Checklist Differential:



The screenshot shows the Isabel interface with two main panels: 'enter clinical features' and 'diagnoses'.

enter clinical features panel:

- age*:** adult (50-64yrs)
- gender:** female (selected), male
- pregnancy:** (- not specified -)
- Refine search:**
 - travel history:** North America
- show me:**
 - diagnoses (selected)
 - causative drugs
 - bioterrorist agents
- Enter clinical features, no negatives, no numbers:**
 - thyroid mass
 - lump in throat when swallowing
 - thyroid nodules
 - cardiac murmur
 - mild productive cough
 - cervical lymphadenopathy
- Buttons:** get checklist, clear search
- Disclaimer:** Isabel is not meant to replace your clinical judgment.

diagnoses panel:

- Filters:** show 10, show all, don't miss
- Diagnosis List:**
 - Thyroid Neoplasms (selected)
 - Papillary Thyroid Carcinoma
 - Thyroid Nodules
 - Medullary Thyroid Carcinoma
 - Follicular Thyroid Cancer
 - Anaplastic Thyroid Carcinoma
 - Malignant Thyroid Lymphoma
 - Laryngeal Cancer
 - Nontoxic Goiter
 - Hashimoto's Thyroiditis
 - Influenza Viruses
 - Postpartum Thyroiditis
 - Peritonsillar Abscess / Quinsy
 - Acute Infectious Laryngitis
 - Pharyngeal Muscle Dysfunction
- Why did this diagnosis come up ?**

We matched the terms: thyroid lump | thyroid mass | lump | lump thyroid | throat | swallowing | swallow

Degree of match between query entered and Isabel database (Not clinical probability): 100%
- Feedback:** feedback: [input] submit