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Case 39 (December 17 2009): [N Engl J Med. 361\(25\):2462-2473](#)

Demographic: Female, 28 yrs, Pregnant, America North, General speciality

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

retrosternal chest discomfort
shortness of breath
myalgias
fatigue
tachycardia
decreased breath sounds
orthopnea
widened mediastinum

Synonyms used by Isabel PRO for the above query:

shortness of breath
orthopnea
tachycardia
fatigue
myalgias
widened mediastinum
discomfort

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 PRO contain
- Did Isabel PRO suggest the Final diagnosis

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Differential Diagnoses considered by the MGH panel:

- Hypertension
- Pre-eclampsia
- Coronary artery dissection
- Peripartum cardiomyopathy

Final Diagnosis of the case according to NEJM:

Mediastinal large B-cell lymphoma

Differential Diagnoses of the case as given by Isabel PRO:

Peripartum cardiomyopathy – under Cardiac disorders.

Was the final diagnosis given by Isabel PRO:

Yes, Mediastinal large B cell lymphoma under Non-hodgkins lymphoma in Neoplastic diseases.

Isabel PRO Final Diagnosis:

The screenshot displays the Isabel PRO interface, divided into two main sections: 'ENTER CLINICAL FEATURES' and 'DEGREE OF MATCH'.

ENTER CLINICAL FEATURES: This section includes dropdown menus for 'age' (young adult (16 - 30 years)), 'gender' (female), 'pregnancy' (- not specified -), 'region' (America North), and 'speciality' (General). Below these is a text input area for 'ENTER QUERY TERMS ON SEPARATE LINES:' containing the following symptoms: retrosternal chest discomfort, shortness of breath, myalgias, fatigue, tachycardia, decreased breath sounds, orthopnea, and widened mediastinum. A '+ Add a Clinical Feature' button and a 'Get Checklist »' button are also present.

DEGREE OF MATCH: This section shows '47 DIAGNOSES- DEGREE OF MATCH'. The top results are: Cardiogenic Shock, Pneumothorax Conditions, and Non-Hodgkin's Lymphoma. Under 'Non-Hodgkin's Lymphoma', there is a sub-section for 'Less' which includes: Angioimmunoblastic T-Cell Lymphoma, Burkitt Lymphoma, Diffuse Large B Cell Lymphoma (with 'Mediastinal Large B Cell Lymphoma' highlighted in red), Follicular Lymphoma, and HIV / AIDS Related NHL. Below the diagnoses is a '11 Body Systems' list: RESPIRATORY DISORDERS, CARDIAC DISORDERS, RHEUMATIC DISEASES, INFECTIOUS DISEASES, GASTROINTESTINAL DISORDERS, SHOCK STATES, HEMATOLOGY DISORDERS, ENDOCRINE DISORDERS, VASCULAR DISORDERS, NEOPLASTIC DISEASES, ENVIRONMENTAL HEALTH DISORDERS, and a 'SHOW ALL DIAGNOSES' button.

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