

Case 23 (July 24 2008): [N Engl J Med. 359\(4\):405-414](#)

Demographic: Male, 26 years, America North, General speciality

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

back pain
profuse diaphoresis
muscle spasms
pleural effusion
dyspnea on exertion
non-productive cough
tachycardic
mediastinal lymphadenopathy
atelectasis
lung ground-glass opacities

Synonyms used by Isabel for the above query:

back pain
dyspnea on exertion
pleural effusions
muscle spasms
tachycardic
atelectasis

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 Granulomatous Disease
Pneumocystis Pneumonia

Final Diagnosis of the case according to NEJM:

Poorly differentiated adenocarcinoma of the lung, with an activating mutation in the EGFR gene.

Differential Diagnoses of the cases given by Isabel:

Chronic Granulomatous Disease – under Immunologic system
Pneumocystis Pneumonia – under Atypical Pneumonia in Respiratory system

Was the final diagnosis given by Isabel:

Yes, Bronchogenic Carcinoma under Lung Neoplasms in Respiratory system heading.

Isabel Healthcare Inc

2941 Fairview Park Drive, Suite 800, Falls Church, VIRGINIA 22042
Tel: +1.703.289.8855

Isabel Differential:

| | |
|---|--|
| - RESPIRATORY DISORDERS >> click to collapse | + INFECTIOUS DISEASES << click to expand |
| <ul style="list-style-type: none"> Asthma ? RD Bacterial Pneumonia ? RD Atypical Pneumonia ? RD <ul style="list-style-type: none"> Emphysema ? RD Pulmonary Thromboembolism ? RD Lung Neoplasms ○ RD | <ul style="list-style-type: none"> Tuberculosis ? RD Brucellosis ? RD Anthrax ? RD |
| | LIVER DISORDERS |
| | Liver Abscess ? RD |
| | + CARDIAC DISORDERS << click to expand |
| | + IMMUNOLOGIC SYSTEM << click to expand |
| | + ENVIRONMENTAL HEALTH HAZARDS << click to expand |
| | + TOXICOLOGY << click to expand |

Why did this diagnosis come up ? ✕

We matched the terms: pleural effusion | atelectasis | cough | mediastin | mediastinal | lymphadenopathi | lymphadenopathy | opac | opacities

Degree of match between query entered and isabel database (Not clinical probability): 46%

- Benign Lymphocytic Angiitis
- Bronchioloalveolar Carcinomas
- Bronchogenic Carcinoma**
- Lung Carcinosarcomas
- Lymphoproliferative Disorders of the Lung
- Non-Small Cell Lung Cancer
- Pleural Mesothelioma
- Primary Sarcoma of the Lung
- Pseudotumor of the Lung
- Pulmonary Metastases
- Small Cell Lung Carcinoma
- Thoracic Tumors

| | |
|---|--|
| <ul style="list-style-type: none"> Pleural Effusion ? RD Pulmonary Complications of HIV ? RD Pneumothorax Conditions ? RD <ul style="list-style-type: none"> Pulmonary TB ? RD Sarcoidosis ? RD <ul style="list-style-type: none"> Bronchiectasis ? RD Interstitial Lung Disease ? RD | |
|---|--|