

Case 12 (April 17 2008): [N Engl J Med. 358\(16\):1713-1723](#)

Demographic: Female, Neonate, America North, General speciality

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

apnea
oxygen desaturation
cyanosis
bradycardia
bradypnea
spastic hemiplegia
seizures

Synonyms used by Isabel for the above query:

Apnea
Oxygen desaturation
Cyanosis
Bradycardia
Seizures

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:

Chorioamnionitis
Apneic Spells
Perinatal Ischemic Stroke / Neonatal stroke

Final Diagnosis of the case according to NEJM:

Neonatal stroke due to acute chorioamnionitis, with a severe fetal inflammatory response.

Differential Diagnoses of the cases given by Isabel:

Neonatal stroke – under Cardiac disorders
Chorioamnionitis – under Obstetric disorders

Was the final diagnosis given by Isabel:

Yes, under Cardiac disorders heading



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Isabel Differential:

<p>⊕ RESPIRATORY DISORDERS << click to expand</p> <p>Neonatal Respiratory Distress <input type="button" value="Related Dx"/></p> <p>Hyaline Membrane Disease <input type="button" value="Related Dx"/></p> <p>⊕ Bronchiolitis <input type="button" value="Related Dx"/></p> <p>⊕ Neonatal Pneumonia <input type="button" value="Related Dx"/></p> <p>⊕ Pneumothorax Conditions <input type="button" value="Related Dx"/></p> <p>⊕ NERVOUS SYSTEM DISORDERS << click to expand</p> <p>⊕ Cerebral Sinus Venous Thrombosis <input type="button" value="Related Dx"/></p> <p>⊕ Intracranial Hemorrhage <input type="button" value="Related Dx"/></p> <p>⊕ METABOLIC DISEASES << click to expand</p> <p>⊕ Hypoglycemia Disorders <input type="button" value="Related Dx"/></p> <p>⊕ GASTROINTESTINAL DISORDERS << click to expand</p> <p>Gastroesophageal Reflux <input type="button" value="Related Dx"/></p> <p>⊕ TOXICOLOGY << click to expand</p> <p>⊕ Drug Overdose/Poisoning <input type="button" value="Related Dx"/></p> <p>OBSTETRIC DISORDERS</p> <p>Chorioamnionitis <input type="button" value="Related Dx"/></p> <p>Why did this diagnosis come up ? <input type="button" value="X"/></p> <p>We matched the terms: apnea Cyanosis Seizures seizure</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 40%</p>	<p>⊕ INFECTIOUS DISEASES << click to expand</p> <p>⊕ Bacterial Meningitis <input type="button" value="Related Dx"/></p> <p>⊖ CARDIAC DISORDERS >> click to collapse</p> <p>Sinus Bradycardia <input type="button" value="Related Dx"/></p> <p>⊖ Perinatal Cerebral Infarction <input type="button" value="Related Dx"/></p> <p>Why did this diagnosis come up ? <input type="button" value="X"/></p> <p>We matched the terms: apnea Cyanosis oxygen desaturation Seizures seizure</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 48%</p> <p>Fetal Stroke</p> <p>Neonatal Stroke</p> <p>Persistent Pulm HTN of the Newborn <input type="button" value="Related Dx"/></p> <p>⊕ Cyanotic CHD:Decreased Pulmonary Flow <input type="button" value="Related Dx"/></p> <p>⊕ Left-to-Right Shunt Lesions <input type="button" value="Related Dx"/></p> <p>⊕ HEMATOLOGY << click to expand</p> <p>Deep Vein Thrombosis <input type="button" value="Related Dx"/></p> <p>NEONATAL INFANT</p> <p>Omphalitis <input type="button" value="Related Dx"/></p> <p>NEPHROLOGY</p> <p>⊕ Urinary Tract Infection <input type="button" value="Related Dx"/></p> <p>LIVER DISORDERS</p> <p>Kernicterus <input type="button" value="Related Dx"/></p>
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