
Case 9-2006 — A 35-Year-Old Woman with Recurrent Right-Upper-Quadrant Pain

**Demographic:** 35 Year Old, Female, Not pregnant, America North, General speciality

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

**One Month before admission:**
- Recurrent abdominal pain in right upper quadrant
- Abnormal liver function tests
- Hepatitis C positive
- Abdomen ultrasound showed biliary dilatation
- Large stones in the common bile duct and left hepatic duct
- Jaundice

**Admission:**
- Recurrent "right upper quadrant" "abdominal pain"
- Abnormal liver function tests
- Hepatitis C positive
- Abdomen ultrasound showed biliary dilatation
- Large stones in common bile duct and left hepatic duct
- Jaundice
- Nausea
- Constipation
- Chills
- Fever
- Leukocytosis

**Synonyms used by Isabel (optional) for the above query:**

**Admission:**
- RUQ
- Abdominal pain
- Fever
- Abnormal liver function tests
- Leukocytosis
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:**
Recurrent Pyogenic Cholangitis
Salmonella associated cholelithiasis
HIV Infection
Cholangiocarcinoma
Biliary flukes – Clonorchis and Opisthorchis
Ascariasis

**Final Diagnosis of the case according to NEJM:**
Recurrent pyogenic cholangitis with biliary helminthic infection.

**Differential Diagnoses of the case as given by Isabel:**
**Admission:**
Cholangitis – Isabel 1st page
Cholelithiasis – Isabel 1st page
Cholangiocarcinoma – Isabel 1st page
Ascariasis – hepatobiliary – Isabel 1st page
HIV related Gallbladder disease – Isabel 2nd page & on clicking on specialty heading
Fluke Infection – Fascioliasis – Isabel 2nd page & on clicking on specialty heading

Isabel Healthcare Inc  P.O Box 8393, Reston, Virginia 20195. USA  Tel: 703-787-0380
**Was the final diagnosis given by Isabel?**

**Admisssion:**
Yes, Cholangitis (Isabel 1st page) & Ascariasis (Isabel 1st page)

**Entire presentation cut and pasted into the Isabel query box:**
Cholangitis – Isabel 1st page
Fluke Infection – Fascioliasis – Isabel 3rd page & on clicking on specialty heading

**Isabel Differential:**

<table>
<thead>
<tr>
<th>GASTROINTESTINAL DISORDERS</th>
<th>NEOPLASTIC DISEASES</th>
<th>INFECTIOUS DISEASES</th>
<th>RHEUMATIC DISEASES</th>
<th>TOXICOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cholangitis</td>
<td>Liver Neoplasms</td>
<td>Ascarasis</td>
<td>Osteomyelitis and Septic Arthritis</td>
<td>Drug Overdose/Poisoning</td>
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<tr>
<td>Cholecystitis</td>
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<td>Clostridial Infections</td>
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<tr>
<td>Cholelithias</td>
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<td>Brucellosis</td>
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<td>Obstructive Jaundice</td>
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<td>EBV Infection</td>
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<td>Choledochal Cysts</td>
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<td>Herpes Simplex Virus Infection</td>
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<tr>
<td>Liver Abscess</td>
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<td>Salmonella Infections</td>
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<td>Pancreatitis</td>
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<td>Fluke Infection</td>
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<td>Hepatocellular Failure</td>
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<td>Hydatid Cyst</td>
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<td>Inflammatory Bowel Disease</td>
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<td>Alpha-1-Antitrypsin Deficiency</td>
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<td>Biliary Obstruction and Injury</td>
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<td>Cholestasis</td>
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<td>Benign Neoplasms of the Biliary Tract</td>
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<td>Postinflammatory Biliary Stricture</td>
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<td>HIV-Related Gallbladder Disease</td>
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<td>Drug Induced Liver Disease</td>
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