

**Case 31 (October 11 2007):** [N Engl J Med. 357\(15\):1531-1541](#)

**Demographic:** Male, 41 yrs, America North, General speciality

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

lower quadrant abdominal pain  
nausea  
increased creatinine  
chills  
fatigue  
hiccupping  
headache  
myalgias  
oliguria  
dry oral mucous membranes  
distended abdomen  
hematuria  
proteinuria

***Synonyms used by Isabel for the above query:***

lower quadrant abdominal pain  
increased creatinine  
fatigue  
headache  
myalgias  
oliguria  
distended abdomen  
hematuria  
proteinuria

**STOP !**

**Before you read further you might want to construct your own:**

- Complete differential diagnosis
- Final diagnosis



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**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:***

Acute tubular necrosis - NSAIDS  
Hantavirus infection

***Final Diagnosis of the case according to NEJM:***

Acute tubular injury (acute tubular necrosis) and glomerular podocyte injury, both caused by NSAIDs in association with dehydration.

***Differential Diagnoses of the case as given by Isabel:***

Acute Renal failure - Isabel top 10  
Hantavirus infection – click on Infectious diseases heading  
Analgesics Nephropathy – click on Nephrology heading, under Interstitial Nephritis  
Causative Drugs – NSAIDs – click on Analgesics heading

***Was the final diagnosis given by Isabel:***

Yes, Isabel top 10

***Isabel Differential:***



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<b>NEPHROLOGY</b>	<a href="#">&lt;&lt; Click here</a>
<ul style="list-style-type: none"> <li>[-] <a href="#">Renal Failure</a> <span style="float: right;">(?) Related Dx</span> <ul style="list-style-type: none"> <li>[-] <a href="#">Acute Renal Failure</a></li> <li>[-] <a href="#">Chronic Renal Failure</a></li> <li>[-] <a href="#">Diabetic Nephropathy</a> <span style="float: right;">(?) Related Dx</span></li> </ul> </li> <li>[-] <a href="#">Glomerulonephritis</a> <span style="float: right;">(?) Related Dx</span></li> <li>[-] <a href="#">Interstitial Nephritis</a> <span style="float: right;">(?) Related Dx</span> <ul style="list-style-type: none"> <li>[-] <a href="#">Acute Interstitial Nephritis</a></li> <li>[-] <a href="#">Analgesics Nephropathy</a></li> <li>[-] <a href="#">Chronic Interstitial Nephritis</a></li> <li>[-] <a href="#">Drug and Toxin-Induced Nephropathy</a></li> <li>[-] <a href="#">Gold and Penicillamine Nephropathy</a></li> <li>[-] <a href="#">Radiation Nephropathy</a></li> <li>[-] <a href="#">Goodpasture's Syndrome</a> <span style="float: right;">(?) Related Dx</span></li> </ul> </li> </ul>	
<b>UROLOGIC DISORDERS</b>	
<ul style="list-style-type: none"> <li>[-] <a href="#">Urinary Tract Infection</a> <span style="float: right;">(?) Related Dx</span></li> </ul>	
<b>DERMATOLOGY</b>	<a href="#">&lt;&lt; Click here</a>
<ul style="list-style-type: none"> <li>[-] <a href="#">Steven-Johnson Syndrome</a> <span style="float: right;">(?) Related Dx</span></li> <li>[-] <a href="#">Toxic Epidermal Necrolysis</a> <span style="float: right;">(?) Related Dx</span></li> </ul>	
<b>NUTRITIONAL DISORDERS</b>	
<ul style="list-style-type: none"> <li>[-] <a href="#">Vit C Deficiency</a> <span style="float: right;">(?) Related Dx</span></li> </ul>	
<b>INFECTIOUS DISEASES</b>	<a href="#">&lt;&lt; Click here</a>
<ul style="list-style-type: none"> <li>[-] <a href="#">Meningococcal Disease</a> <span style="float: right;">(?) Related Dx</span></li> <li>[-] <a href="#">Toxic Shock Syndrome</a> <span style="float: right;">(?) Related Dx</span></li> <li>[-] <a href="#">EBV Infection</a> <span style="float: right;">(?) Related Dx</span></li> <li>[-] <a href="#">Brucellosis</a> <span style="float: right;">(?) Related Dx</span></li> </ul>	

<b>RESPIRATORY SYSTEM DISORDERS</b>	<a href="#">&lt;&lt; Click here</a>
<b>CARDIAC DISORDERS</b>	<a href="#">&lt;&lt; Click here</a>
<b>RHEUMATIC DISEASES</b>	<a href="#">&lt;&lt; Click here</a>
<b>HEMATOLOGY</b>	<a href="#">&lt;&lt; Click here</a>
<b>ALLERGIC DISORDERS</b>	<a href="#">&lt;&lt; Click here</a>
<b>ENDOCRINE SYSTEM</b>	<a href="#">&lt;&lt; Click here</a>
<b>GASTROINTESTINAL DISORDERS</b>	<a href="#">&lt;&lt; Click here</a>
<b>SHOCK STATES</b>	<a href="#">&lt;&lt; Click here</a>
<b>TOXICOLOGY</b>	<a href="#">&lt;&lt; Click here</a>



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**Causative drugs differential:** click on causative drugs link...

<b>Gastrointestinal Drugs</b> << Click here	<b>Antivirals</b> << Click here
⊕ <a href="#">Antiemetics</a> ?	<b>Immunosuppressants</b> << Click here
<b>Bone Modulating Drugs</b> << Click here	<b>Antibacterials</b> << Click here
<a href="#">Bisphosphonates</a> ?	<b>Organic Solvents</b> << Click here
<b>Dermatological Drugs / Sunscreens</b> << Click here	<b>Disinfectants / Preservatives</b> << Click here
<a href="#">Isotretinoin</a> ?	<b>Antigout Drugs</b> << Click here
<a href="#">Tretinoin</a> ?	<b>Hormones</b> << Click here
<b>Analgesics / Antipyretics</b> << Click here	<b>Nutritional Agents / Vitamins</b> << Click here
<a href="#">Sodium Aurothiomalate</a> ?	<b>Muscle Relaxants</b> << Click here
<a href="#">Adalimumab</a> ?	<b>Sedatives / Antipsychotics</b> << Click here
⊕ <b>NSAID's</b> ?	<b>Corticosteroids</b> << Click here
<b>Anthelmintics</b>	<b>Antihistamines</b> << Click here
<a href="#">Tiabendazole</a> ?	<b>Bronchodilators / Anti-Asthma Drugs</b> << Click here
<b>Cardiovascular Drugs</b> << Click here	<b>Antimigraine Drugs</b> << Click here
⊕ <a href="#">Thiazides</a> ?	<b>Antidepressants</b> << Click here
⊕ <a href="#">Thrombolytics</a> ?	<b>Antiprotozoals</b> << Click here
<b>Antineoplastics</b> << Click here	
<a href="#">Alemtuzumab</a> ?	