

**Case 12 (April 19 2007):** [N Engl J Med 2007; 356\(16\):1601-1604](#)

**Demographic:** Female, 56 yrs, Not pregnant, America North, General speciality

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

post transplantation  
edema  
hyperlipidemia  
hypertension  
proteinuria

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

Edema  
Hyperlipidemia  
Hypertension  
Proteinuria

**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:***

Diabetic and Hypertensive Nephropathy  
Glomerular Disease  
Vascular Disease  
Immunosuppressive Drugs

Tubulointerstitial Disease  
Complications of

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

disease induced by the calcineurin inhibitor cyclosporine.

Chronic kidney

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

Drug and Toxin-induced Nephropathy – click on Nephrology heading  
Diabetic Nephropathy – Isabel 1<sup>st</sup> page  
Glomerulonephritis – Isabel 1<sup>st</sup> page

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

Yes, Drug and Toxin-induced Nephropathy under Interstitial Nephritis on the 1<sup>st</sup> page

***Was the final diagnosis given by Isabel's Causative Drug speciality:*** Yes,  
Cyclosporine appears on the 1<sup>st</sup> page

***Entire presentation cut and pasted into the Isabel query box:***

Chronic Renal Failure – click on Nephrology heading

**Isabel differential for General Speciality:**

<p><b>RHEUMATIC DISEASES</b> &lt;&lt; Click here</p> <p><u>SLE</u> <b>RD</b></p>	<p><b>NEPHROLOGY</b> &lt;&lt; Click here</p> <p>+ <u>Glomerulonephritis</u> <b>RD</b></p> <p><u>IgA Nephropathy</u> <b>RD</b></p> <p><u>Diabetic Nephropathy</u> <b>RD</b></p> <p><u>Focal Segmental Glomerulosclerosis</u> <b>RD</b></p> <p><u>Pathological Proteinuria</u> <b>RD</b></p> <p>- <u>Interstitial Nephritis</u> <b>RD</b></p> <p><u>Polycystic Kidney</u></p> <p>+ <u>Nephrotic Syndrome</u></p>
<p><b>VASCULAR DISORDERS</b> &lt;&lt; Click here</p> <p><u>Diabetic Cardiovascular Disease</u> <b>RD</b></p>	<p>IMMUNOLOGIC SYNDROMES &lt;&lt; Click here</p>
<p><b>CARDIAC DISORDERS</b> &lt;&lt; Click here</p>	
<p><b>SHOCK STATES</b> &lt;&lt; Click here</p>	<p>HEMATOLOGY &lt;&lt; Click here</p>
<p><b>INFECTIOUS DISEASES</b> &lt;&lt; Click here</p>	
<p><b>ENDOCRINE SYSTEM</b> &lt;&lt; Click here</p>	<p><b>LIVER DISORDERS</b> &lt;&lt; Click here</p>
<p><b>HUMAN GENETICS</b> &lt;&lt; Click here</p>	<p><b>METABOLIC DISEASES</b> &lt;&lt; Click here</p>
<p><b>TOXICOLOGY</b> &lt;&lt; Click here</p>	<p><b>ENVIRONMENTAL HEALTH HAZARDS</b> &lt;&lt; Click here</p>

CLICK ON PARENT DIAGNOSIS FOR COMPLETE LIST OF SUB-DIAGNOSES

- Radiation Nephropathy
- Drug and Toxin-Induced Nephropathy
- Analgesics Nephropathy

**Isabel differential for Causative Drug Speciality:**

<p><b>Immunosuppressants</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Cyclosporine</a></p> <p><a href="#">Everolimus</a></p> <p><a href="#">Tacrolimus</a></p>	<p><b>Analgesics / Antipyretics</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Adalimumab</a></p>
<p><b>Antineoplastics</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Mitomycin</a></p>	<p><b>Cardiovascular Drugs</b> &lt;&lt; <a href="#">Click here</a></p> <p>+ <a href="#">Calcium-Channel Blockers</a></p>
<p><b>Pesticides / Repellents</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Malathion</a></p>	<p><b>Antiprotozoals</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Melarsoprol</a></p> <p><a href="#">Tryparsamide</a></p>
<p><b>Antivirals</b> &lt;&lt; <a href="#">Click here</a></p> <p><a href="#">Atazanavir Sulfate</a></p>	<p><b>Dopaminergics</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Antidepressants</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Antimuscarinics</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Sedatives / Antipsychotics</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>General Anesthetics</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Nutritional Agents / Vitamins</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Bone Modulating Drugs</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Antidiabetics</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Antiepileptics</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Antimalarials</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Organic Solvents</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Electrolytes</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Antifungals</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Antidotes / Antagonists</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Cough Suppressants / Expectorants / Mucolytics</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Prostaglandins</b> &lt;&lt; <a href="#">Click here</a></p>	<p><b>Dermatological Drugs / Sunscreens</b> &lt;&lt; <a href="#">Click here</a></p>
<p><b>Local Anaesthetics</b> &lt;&lt; <a href="#">Click here</a></p>	