

**Case 24 (August 10 2006):** [N Engl J Med 2006;355:602-11](#)

**Demographic:** Female, 40 yrs, Not pregnant, America North,  
General speciality

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

hypotension

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

none

**Differential Diagnoses considered by the MGH panel:**

This was a known overdose

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

OD on Amlodipine

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

**Suggest diagnosis:**

Drug overdose/poisoning – Calcium Antagonist toxicity – Isabel 2<sup>nd</sup> page

**Causative drugs:**

Calcium-channel blockers – Amlodipine – Isabel 1<sup>st</sup> page

**Isabel differential:**

<p><b>HEMATOLOGY</b> ▾</p> <p><a href="#">Pulmonary Thromboembolism</a> <input type="checkbox"/> <b>R</b></p>	<p><b>INFECTIOUS DISEASES</b> ▾</p> <p>↳ <a href="#">Toxic Shock Syndrome</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Clostridial Infections</a> <input type="checkbox"/> <b>R</b></p> <p>↳ <a href="#">Yersinia Infection</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Viral Hemorrhagic Fever</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Listeriosis</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Relapsing Fever</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Rocky Mountain Spotted Fever</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Hantavirus Syndrome</a> <input type="checkbox"/> <b>R</b></p> <p>↳ <a href="#">Salmonella Infections</a> <input type="checkbox"/> <b>R</b></p> <p>↳ <a href="#">Diphtheria</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Meningococcal Disease</a> <input type="checkbox"/> <b>R</b></p>
<p><b>ALLERGIC DISORDERS</b> ▾</p> <p><a href="#">Anaphylaxis</a> <input type="checkbox"/> <b>R</b></p>	<p><b>NEOPLASTIC DISEASES</b> ▾</p> <p><a href="#">Carcinoid Syndrome</a> <input type="checkbox"/> <b>R</b></p>
<p><b>CARDIAC DISORDERS</b> ▾</p> <p>↳ <a href="#">Pericardial Effusion / Tamponade</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Pericarditis</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Conduction Defects</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Aortic Stenosis</a> <input type="checkbox"/> <b>R</b></p>	<p><b>NEPHROLOGY</b> ▾</p> <p>↳ <a href="#">Renal Failure</a> <input type="checkbox"/> <b>R</b></p>
<p><b>ENDOCRINE SYSTEM</b> ▾</p> <p>↳ <a href="#">Primary Adrenal Insufficiency</a> <input type="checkbox"/> <b>R</b></p> <p>↳ <a href="#">Adrenal Neoplasms</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">Diabetic Ketoacidosis</a> <input type="checkbox"/> <b>R</b></p> <p><a href="#">HHNC / HONK</a> <input type="checkbox"/> <b>R</b></p>	<p><b>GASTROINTESTINAL DISORDERS</b> ▾</p> <p>↳ <a href="#">Pancreatitis</a> <input type="checkbox"/> <b>R</b></p>
<p><b>VASCULAR DISORDERS</b> ▾</p> <p>↳ <a href="#">Abdominal Aortic Aneurysm / Dissection</a> <input type="checkbox"/> <b>R</b></p>	<p><b>NERVOUS SYSTEM DISORDERS</b> ▾</p> <p>↳ <a href="#">Intracranial Hypotension</a> <input type="checkbox"/> <b>R</b></p>
<p><b>SHOCK STATES</b> ▾</p> <p><a href="#">Sepsis and Shock</a> <input type="checkbox"/> <b>R</b></p>	<p><b>UROLOGIC DISORDERS</b> ▾</p> <p>↳ <a href="#">Genitourinary Tract Trauma</a> <input type="checkbox"/> <b>R</b></p>
<p><b>TOXICOLOGY</b> ▾</p> <p>Calcium Antagonists Toxicity <input type="checkbox"/> <b>R</b></p> <p>Antidepressants Toxicity <input type="checkbox"/> <b>R</b></p> <p>Theophylline Toxicity <input type="checkbox"/> <b>R</b></p> <p>Barbiturates Toxicity <input type="checkbox"/> <b>R</b></p>	<p><b>BIOTERRORISM DIFFERENTIAL</b></p>
<p><b>DRUGS</b></p>	

***Causative Drugs differential:***

<b>Prostaglandins</b> ▾ <a href="#">Dinoprostone</a> <input type="checkbox"/> <a href="#">Alprostadiil</a> <input type="checkbox"/> <a href="#">Iloprost</a> <input type="checkbox"/>	<b>Antiprotozoals</b> ▾ <a href="#">Pentamidine Isetionate/Pentamidine Mesilate</a> <input type="checkbox"/>
<b>Dopaminergics</b> ▾ ↳ <a href="#">Dopaminergics</a> <input type="checkbox"/>	<b>Cardiovascular Drugs</b> ▾ ↳ <a href="#">Class IV Antiarrhythmics</a> <input type="checkbox"/> ↳ <a href="#">ACE Inhibitors</a> <input type="checkbox"/> <a href="#">Nesiritide Citrate</a> <input type="checkbox"/> ↳ <a href="#">Centrally Acting Antihypertensives</a> <input type="checkbox"/> ↳ <a href="#">Calcium-Channel Blockers</a> <input type="checkbox"/>
<b>Antimigraine Drugs</b> ▾ <a href="#">Ergotamine Tartrate</a> <input type="checkbox"/>	<b>Antiepileptics</b> ▾ <a href="#">Carbamazepine</a> <input type="checkbox"/>
<b>Analgesics / Anti-Inflammatory Drugs / Antipyretics</b> ▾ ↳ <a href="#">Opioid Analgesics</a> <input type="checkbox"/>	<b>Bronchodilators / Anti-Asthma Drugs</b> ▾ <a href="#">Theophylline</a> <input type="checkbox"/>
<b>Chelators / Antidotes / Antagonists</b> ▾ <a href="#">Protamine</a> <input type="checkbox"/>	<b>Cough Suppressants / Expectorants / Mucolytics / Nasal Decongestants</b> ▾ <a href="#">Acetylcysteine</a> <input type="checkbox"/>
<b>Local Anaesthetics</b> ▾ ↳ <a href="#">Local Anaesthetics</a> <input type="checkbox"/>	<b>Gastrointestinal Drugs</b> ▾ ↳ <a href="#">Prokinetic Drugs</a> <input type="checkbox"/> ↳ <a href="#">Antiemetics</a> <input type="checkbox"/> ↳ <a href="#">Antidiarrheals</a> <input type="checkbox"/>