

**Harvard Medical School Department of
Continuing Education and the Renal Division
of Brigham and Women's Hospital**



Nephrology Rounds

August / September 2008

Pathophysiology of Acute Kidney Injury

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Objectives:

This issue of *Nephrology Rounds* will help the reader to:

- appreciate the multiple factors contributing to the pathophysiology of acute kidney injury (AKI)
- better understand the pathophysiological underpinnings of therapeutic approaches in AKI
- appreciate the reasons why progress has been limited in the treatment of AKI.

Questions:

1. There is strong evidence for proximal tubule injury in humans with AKI.

True False

2. Inflammation is present in human AKI.

True False

3. The thick ascending limb of the nephron does not respond to ischemia.

True False

4. Dopamine is effective in changing the outcome in AKI

True False

5. Most data now suggest that bone marrow-derived stem cells act directly on the damaged tubule by crossing the basement membrane and replacing damaged cells.

True False

6. Small changes in creatinine are predictors of outcome in AKI.

True False

7. Small changes in creatinine are always associated with tubular injury.

True False

8. There is an abnormal autoregulatory response to changes in perfusion pressure in arterioles isolated from kidneys with AKI.

True False

9. Endothelial injury is an important factor in the pathophysiology of AKI.

True False

10. Creatinine is a sensitive biomarker for the detection of epithelial cell injury in the kidney.

True False

11. This issue of *Nephrology Rounds* adequately addressed the topic, and the data and discussion were fair and balanced.

AGREE DISAGREE

12. Potential conflicts of interest disclosed by the author on the back page were properly expressed.

AGREE DISAGREE

13. The information presented in this issue of *Nephrology Rounds* will increase my clinical knowledge and improve the care of my patients.

AGREE DISAGREE

14. *Nephrology Rounds* from Brigham and Women's Hospital and Harvard Medical School is an effective CME program.

AGREE DISAGREE

Comments/Topic Suggestions: _____

To receive AMA category 1 credit, you must correctly answer 60% of questions 1-10, and answer 11-14.

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