Renal Protection In High Risk Patients: The Role of Fenoldopam

O Wenker

Citation

Abstract

Figure 1

Renal Protection In High Risk Patients

The Role of Fenoldopam

ROY SHEINBAUM, M.D.
OLIVIER WENKER, M.D.

Figure 3

Renal Dysfunction
Definition

- Impairment in Ability to Remove Nitrogenous Wastes
  - an increase in Cr of > 0.5 mg/dL
  - an increase in Cr of ≥50% from baseline
  - a baseline Cr > 1.5 mg/dL (validity?)
  - need for dialysis

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Figure 4

Renal Dysfunction
Etiology

- Acute/Chronic
- Pre Renal
- Renal
- Post Renal
- Multifactorial

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Renal Protection In High Risk Patients: The Role of Fenoldopam

Figure 5

Perioperative Renal Protection

- Maintaining adequate renal O<sub>2</sub> delivery
- Suppression of vasoconstriction
- Renovascular dilation
- Maintaining tubular flow
- Decreasing O<sub>2</sub> consumption
- Attenuating reperfusion injury

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Figure 7

Preoperative Renal Risk Factors

- Pre-existing renal insufficiency
- Type I diabetes
- Major vascular surgery
- Prolonged CPB (>3hrs)
- Previous myocardial revascularization
- Age
- Drugs (radio-contrast dye)

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Figure 8

Fenoldopam in High Risk CABG

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Figure 9

Perioperative Renal Dysfunction

Summary

- Significance
  - Impact on M & M
- Interventional Strategies
  - Identify risk factors
  - Implement intervention

Outcome

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References
Author Information
Olivier Wenker, M.D.