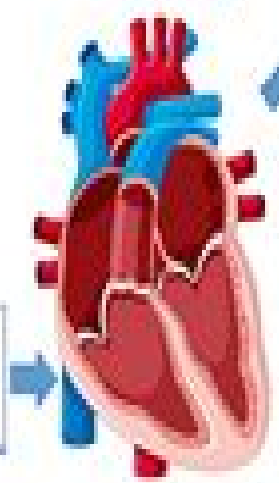


# Cardiorenal syndrome type 1

Acute Heart Failure



- Ischemia
- Cardiomyopathy
- Arrhythmia

Iatrogenic cause  
(diuretics, ACE-I,  
contrast agents)

↑ RAAS activation  
(renin, ang II, ald)

↑ SNS activation

↑ Humoral signaling

↑ IAP, CVP, venous  
congestion

↓ Cardiac Output (CO)

Nephrotoxicity

↓ Water excretion  
↓ Sodium excretion

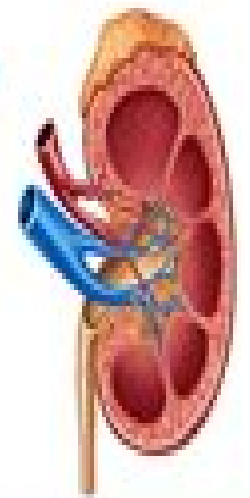
↑ Vasoconstriction

↑ Oxidative stress and  
Cytokines secretion

↓ Renal pressure  
gradient

↓ Renal Perfusion

Acute Kidney Injury



- Vasoconstriction
- Hypoperfusion
- Reduced RBF
- Reduced GFR
- Necrosis and Apoptosis
- Tubular cell toxicity
- Decreased O2 delivery
- Organ edema
- ANP/BNP resistance



# Cardiorenal Disorders And Diseases

**Lei Shi**



## **Cardiorenal Disorders And Diseases:**

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