

## Acute Kidney Injury After Computed Tomography A Meta Analysis

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### Acute Kidney Injury After Computed

STUDY OBJECTIVE: Computed tomography (CT) is an important imaging modality used in the diagnosis of a variety of disorders. Imaging quality may be improved if intravenous contrast is added, but there is a concern for potential renal injury. Our goal is to perform a meta-analysis to compare the risk of acute kidney

### Acute Kidney Injury After Computed Tomography: A Meta ...

Imaging is one of the most important diagnostic modalities that physicians utilize. In 2013 alone, over 70 million CT scans were performed. Contrast-enhanced imaging can aid in diagnosing certain pathology and improve image quality. There has historically been a concern for post-contrast acute kidney injury (AKI), which is generally considered an increase in creatinine or a decrease in glomerular filtration rate hours to days after contrast administration.

### Acute Kidney Injury After Computed Tomography: A Meta ...

Postcontrast acute kidney injury is loosely understood as an increase in creatinine level or decrease in glomerular filtration rate after contrast administration. However, there is no consistent definition of postcontrast acute kidney injury that has been used across studies.

### Acute Kidney Injury After Computed Tomography: A Meta ...

The most common descriptions include an increase in creatinine level by 25% after contrast administration or an absolute increase of 0.3 to 0.5 mg/dL within 3 days.<sup>3,4</sup>Because postcontrast acute kidney injury is a laboratory-based diagnosis, its potentially adverse effects on various patient- centered outcomes are less clear.

### Acute Kidney Injury After Computed Tomography: A Meta-analysis

Despite the widespread use of computed tomography pulmonary angiography with contrast media for the diagnosis of acute pulmonary embolism, high-quality evidence on risk factors for postcontrast acute kidney injury related to its use is lacking.

### Postcontrast Acute Kidney Injury After Computed Tomography ...

Background:Despite its risks associated with renal injury, intravenous contrast media increases diagnostic efficacy and hence the chance of early diagnosis and treatment, which leaves clinicians in... Risk of acute kidney injury after contrast-enhanced computed tomography in emergency department - Seda Dağar, Emine Emektar, Hüseyin Uzunosmanoğlu, Şeref Kerem Çorbacioğlu, Özge Öztekin, Yunsur Çevik,

### Risk of acute kidney injury after contrast-enhanced ...

When your kidneys lose their filtering ability, dangerous levels of wastes may accumulate, and your blood's chemical makeup may get out of balance. Acute kidney failure — also called acute renal failure or acute kidney injury — develops rapidly, usually in less than a few days.

### Acute kidney failure - Symptoms and causes - Mayo Clinic

Acute kidney injury (AKI) is a sudden episode of kidney failure or kidney damage that happens within a few hours or a few days. AKI causes a build-up of waste products in your blood and makes it hard for your kidneys to keep the right balance of fluid in your body. AKI can also affect other organs such as the brain, heart, and lungs.

### Acute Kidney Injury - Symptoms, causes, treatment ...

Acute kidney injury is defined as an abrupt (within 48 hours) reduction in kidney function based on an elevation in serum creatinine level, a reduction in urine output, the need for renal...

### Acute Kidney Injury: A Guide to Diagnosis and Management ...

contrast administration for computed tomography (CT) is independently associated with increased risk for acute kidney injury and adverse clinical outcomes. METHODS: This single-center retrospective cohort analysis was performed in a large, urban, academic emergency department with an average census of 62,179

### Risk of Acute Kidney Injury After Intravenous Contrast ...

Background: Computed tomography pulmonary angiography (CTPA) is the current gold standard for diagnosing acute pulmonary embolism in the ED. It has a high sensitivity, and specificity, is readily available, and can establish analternative diagnoses. One issue with CTPA is that many hospital protocols create barriers for patients with chronic kidney disease or acute kidney injury (AKI) ...

### Post Contrast Acute Kidney Injury (PC-AKI): We Don't Need ...

Acute kidney injury (AKI) may develop after administration of iodinated contrast material . AKI that is judged to be caused by iodinated contrast material (ie, after exclusion of other possible etiologies) has historically been called contrast-induced nephropathy (CIN) but has since been termed contrast-induced AKI (CI-AKI).

### Prevention of contrast-induced acute kidney injury ...

AKI occurred with similar frequency among patients who did and did not receive contrast medium. Despite lingering concerns of contrast-induced nephropathy, acute kidney injury (AKI) appears no more...

### AKI After Computed Tomography Not Tied to Contrast - Renal ...

The risk of contrast-induced acute kidney injury (AKI) in patients with stroke receiving both computed tomography (CT) angiography and mechanical thrombectomy has been investigated only in small case series. No studies have investigated whether additional CT perfusion or chronic kidney disease (CKD) are associated with higher rates of AKI.

### Incidence of Acute Kidney Injury After Computed Tomography ...

Given similar frequencies of acute kidney injury in patients receiving noncontrast CT, other patient- and illness-level factors, rather than the use of contrast material, likely contribute to the development of acute kidney injury. PMID: 28811122 [PubMed - as supplied by publisher]

### Acute Kidney Injury After Computed Tomography: A Meta ...

Severe hyperbilirubinemia is associated with higher risk of contrast-related acute kidney injury following contrast-enhanced computed tomography This is the first study providing evidence that hyperbilirubinemia (total bilirubin >2.0 mg/dl) being an independent risk factor for CI-AKI, dialysis and mortality after receiving CCT.

### Severe hyperbilirubinemia is associated with higher risk ...

Neutrophil Gelatinase-Associated Lipocalin (NGAL): A Promising Biomarker of Contrast-Induced Nephropathy After Computed Tomography Contrast-induced nephropathy (CIN) is a common cause of hospital-acquired acute kidney injury (AKI) and a source of significantly increased short- and long-term mortality.

### Neutrophil Gelatinase-Associated Lipocalin (NGAL): A ...

We aimed to elucidate whether a balanced salt solution decreases the occurrence of contrast-induced acute kidney injury (CI-AKI) after contrast-enhanced computed tomography (CE-CT) as compared to 0.9% saline solution.