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## REVIEW ARTICLES

### 1 Serum Procalcitonin (PCT) Level In Acute Kidney Injury (AKI) In Critical Patients

**Azwar Iwan Tona, Maimun Syukri**

Procalcitonin is initially produced in adherent monocytes and then contributes to an increase in circulating PCT by attracting parenchymal cells as they attach directly to activated monocytes. High PCT levels ultimately act as a direct chemoattractant to monocyte counts.

### 2 Use of Chest X-Ray (CXR) in Covid-19 Screening as A Modalities

**Adityo Prabowo**

CXR can be a screening modality in Covid-19 patients including pregnant women. However, it is necessary to keep in mind that the CXR examination can have an impact on the fetus.

## CASE REPORTS

### 3 Early Continuous Renal Replacement Therapy In Patients With St-Elevation Myocardial Infarction And Covid-19 After Percutaneous Coronary Intervention: A Case Report

**Bastian Lubis, Putri Amelia, Muhammad Akil, Vincent Viandy, Ade Winata, Yohanes WH George**

Early continuous renal replacement therapy might be beneficial in treating COVID-19 patients with AKI, who previously underwent percutaneous coronary intervention for ST-elevation myocardial infarction.

### 4 Catecholamine Toxicity After Craniotomy Evacuation Craniotomy and Evacuation of The Abscess

**Ongta Gibson Sirait, Wulan Fadinie**

Increasing levels of endogenous catecholamines occur acutely to provide short-time adaptation to stressful conditions, known as the fight-or-fly response. Catecholamine toxicity requires multidisciplinary management.

## RESEARCH ARTICLES

### 5 Comparison of Pre-Loading Fluid With Norepinephrine Toward Mean Arterial Pressure (MAP) In Sepsis Patients In Intensive Care Unit (ICU) of Haji Adam Malik General Hospital, Medan

**Rendi Sidiq, Bastian Lubis, Yutu Solihat**

Early identification and appropriate management in the early hours after the development of sepsis improves the patient's prognosis. Surviving Sepsis Campaign (SSC) 2021 recommends a fluid. Norepinephrine is considered as the safest and most potent vasopressor agents than others