

When to consider renal replacement therapy in pediatric sepsis?

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Scope

- Burden of AKI and sepsis induced-AKI (SAKI)
- Conceptual framework and targeted approach for AKI
- Pathogenesis of SAKI
- Renal replacement therapy in AKI and futures developments

Age-related comparative yearly incidence of AKI

0.56 cases/1,000 PPY

Mortality rate 10-61%

Sepsis growing by 8.7%/year

By pRIFLE, incidence up to

35.9-82% in PICU

1.5

Thai AKI-EPI study (AKI in ICU)
Incidence 56.1%
Mortality rate 41.9%

Sepsis-induced AKI (SAKI)

- Sepsis (contributing factor) → AKI
- Sepsis accounted for 21.4% of AKI
- Mortality of 45% up to 77%
- SAKI increased in-hospital mortality, longer ICU and hospital stay when compared with non-SAKI