

Balanced Crystalloids versus Saline in Critically Ill Adults

SMART TRIAL

A pragmatic, cluster-randomized, multiple-crossover trial

7942 Patients
BALANCED CRYSTALLOIDS

Received either lactated Ringer's solution or Plasma-Lyte A, according to the preference of the treating clinician.



15,802 Critically-ill Patients Admitted to Intensive Care Units

Does the use of balanced crystalloids for intravenous fluid administration result in better clinical outcomes?

5 ICUs



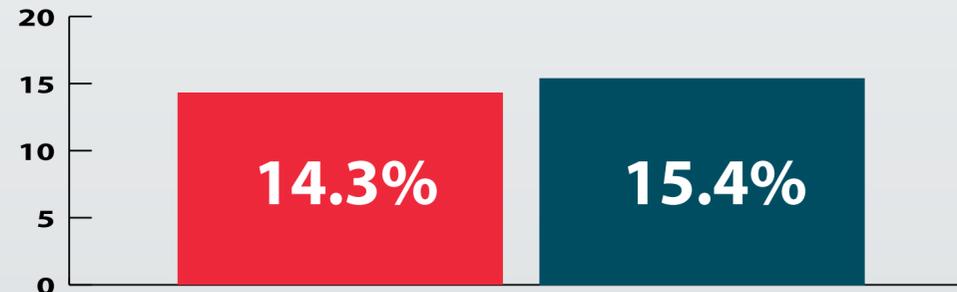
7860 Patients
SALINE SOLUTION

Received 0.9% sodium chloride for fluid administration.



Major Adverse Kidney Events within 30 Days

Aa composite of death from any cause, new renal-replacement therapy, or persistent renal dysfunction



Conditional odds ratio, 0.90; 95% CI, 0.82 to 0.99; P=0.04

Among critically ill adults, the use of balanced crystalloids for intravenous fluid administration resulted in a lower rate of the composite outcome of death from any cause, new renal-replacement therapy, or persistent renal dysfunction than the use of saline.