

Does the Choice of Balanced Crystalloid Solutions Impact Acid-Base Status, Organ Function, or Outcomes for Critically Ill Adults?

STUDY DESIGN

Pragmatic, cluster-randomized, multiple-crossover trial compared **use of Normosol-R vs lactated Ringers among critically ill adults**

1° outcome

- Plasma bicarbonate between enrollment and 7 days

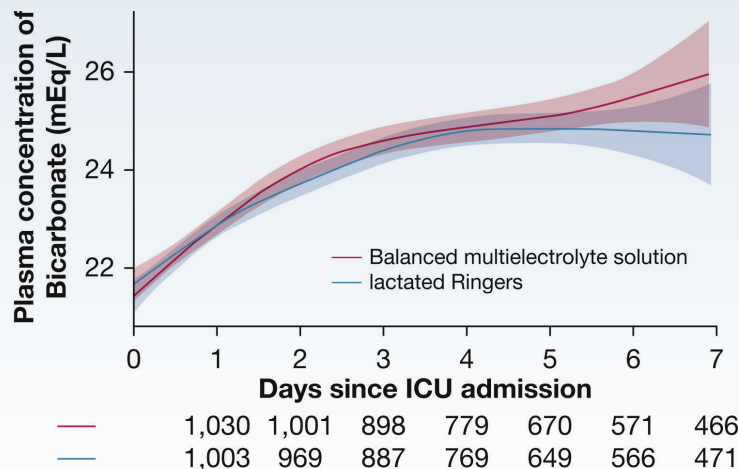
2° outcome

- Receipt of kidney replacement therapy
- Death by day 30

RESULTS

Plasma bicarbonate did not differ

Mean difference, -0.12 mmol/dL (95% CI, -0.61 to 0.36)



6% Normosol-R vs 5% lactated Ringers received new kidney replacement therapy

Absolute risk difference
1.0% (95% CI, -1.2% to 3.1%)



16.3% Normosol-R vs 16.0% lactated Ringers died by day 30

Absolute risk difference
0.3% (95% CI, -2.9% to 3.6%)

The findings of this study suggest that among critically ill adults, the use of Normosol-R for IV therapy did not affect plasma bicarbonate concentrations or clinical outcomes compared with lactated Ringers.