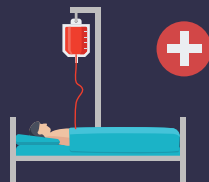


# Are Different Methods of Conducting Spontaneous Breathing Trials in Critically Ill Patients Associated With Different Risk of Reintubation Compared With T-Tube?

## STUDY DESIGN

- Systematic review and Bayesian network analysis of randomized controlled trials investigating spontaneous breathing trial (SBT) methods
- PubMed, MEDLINE, CINAHL, CENTRAL databases from inception to January 26, 2024
- The surface under the cumulative ranking curve was used to determine the likelihood that an intervention was ranked the best

## RESULTS



22 RCTs including  
**6,196 patients**

9 nodes with 13 direct pairwise comparisons

**71%**

Around **71%** of patients allocated to T-Tube and PSV-ZEEP

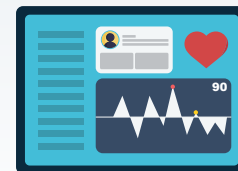


HFO was associated with the highest probability of being the best intervention for reducing risk of reintubation

**81.8%**

Followed by CPAP

**11.8%**



High-flow oxygen SBT was associated with a lower risk of reintubation in comparison with other SBT methods—a result that should be considered with caution due to heterogeneity of cointerventions and a low number of studies. Further trials should be performed to confirm the results on larger cohorts.