icu REACH

# Duration of Device-Based Fever Prevention after Cardiac Arrest

## The Blood Pressure and Oxygenation Targets in Post Resuscitation Care trial

A double-blind, dual-center, randomized trial

March 9, 2023

Comatose Survivors of Out-of-hospital Cardiac Arrest

### THE BOX TRIAL

Does active device-based fever prevention for 36 or 72 hours after cardiac arrest result in significantly different outcomes regarding death or severe disability/coma?

### 36-HOUR GROUP

Device-based temperature control targeting 36°C for 24 hours followed by targeting of 37°C for 12 hours or until the patient regain consciousness.

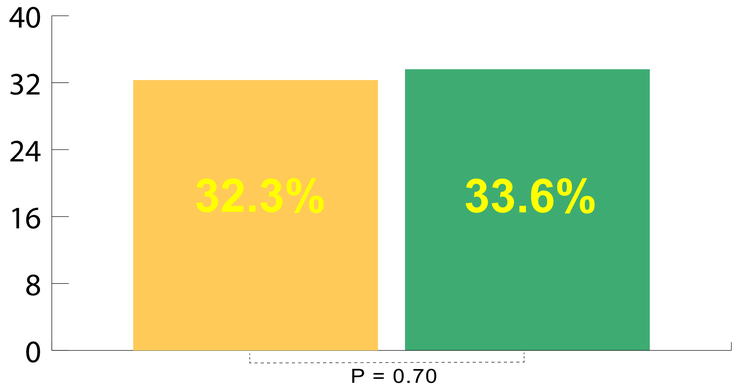
393 Patients

396 Patients

### 72-HOUR GROUP

device-based temperature control targeting 36°C for 24 hours followed by targeting of 37°C for either 48 hours or until the patient regain consciousness.

**Death from any cause or hospital discharge with a Cerebral Performance Category (CPC) of 3 or 4 within 90 days**




HR, 0.99; 95% confidence interval, 0.77 to 1.26

Among patients with an out-of-hospital cardiac arrest, a longer duration of targeted temperature managment for 72 hours did not reduce mortality or severe disability compared to a 36-hour diuration.