

What is LINC?

A multicenter, randomized, controlled trial designed to evaluate the efficacy and safety of:

LUCAS concept for resuscitation of OHCA including defibrillation during ongoing compressions

VS.

manual CPR according to 2005 guidelines





Objectives

Primary

Superiority in 4-hr survival

Secondary

 Survival upto 6 month with good neurological outcome CPC 1-2





Inclusion/Exclusion criteria

Inclusion criteria

•Unexpected adult out-of-hospital cardiac arrest where an attempt of resuscitation is considered appropriate

Exclusion critera

- Traumatic cardiac arrest, including hanging
- Age believed to be < 18 years
- Known pregnancy
- Patients body size not fitting the LUCAS
- Defibrillated

- -before LUCAS arrives at scene
- -crew witnessed VF/VT with ROSC

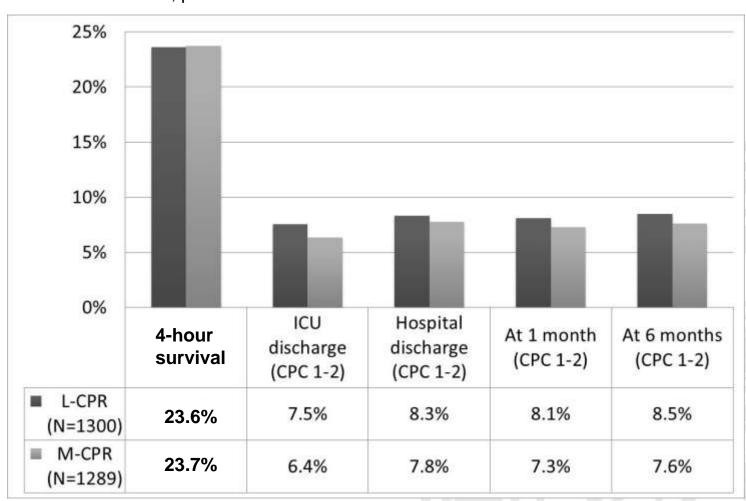
some of the most viable patients have been excluded





Outcome

4-hour survival: Risk difference -0.05% 95% C.I. -3.32 – 3.23, p=1.00







Conclusions

- Mechanical chest compressions using the LUCAS device in combination with defibrillation during ongoing compressions provided no improved 4-hour survival compared to conventional manual chest compressions in out-of-hospital CA patients
- There was good neurologic outcome in the vast majority of the survivors in both groups
- Thus, in clinical practise CPR with the LUCAS device and defebrillation during ongoing compressions seems to have similar effectiveness as manual chest compressions

