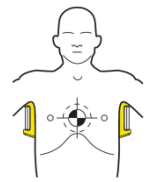


Now chest compressions can be provided effectively and with a minimum of interruptions, even during transportation

Some cardiac arrest patients will require to be moved and transported during CPR. However, it is well known that providing CPR during patient transportation is close to impossible to do effectively or without interruptions. Life-sustaining chest compressions thus become compromised.



With LUCAS, it is possible to improve chest compression quality and minimize interruptions during patient transportation. LUCAS can stay active as long as the device and the patient are safely positioned on the transportation device and LUCAS stays in the correct position and angle on the chest. Fixation/straps might be required when carrying down stairs. Check the position frequently and use the LUCAS Stabilization Strap. Always pause or readjust the position if required.



LUCAS can help increase hands-on time both on scene and during transportation

- One pre-hospital study on 400 patients showed **93% hands-on ratio** with LUCAS compared to 69% hands-on time with manual chest compressions¹
- Another pre-hospital study demonstrated significantly higher hands on ratio with the LUCAS (N: 7) compared to manual CPR (N: 36) both **on the scene (92% vs. 81%)** and **during transportation (90% vs. 73%)**²
- In a 14 minute long resuscitation simulation in a helicopter and manikin setting, the hands-on ratio **with LUCAS** was **86%** compared to 79% with manual CPR³

“Rescuers should **minimise interruptions of chest compressions during the entire resuscitation attempt.**”

ILCOR (Resuscitation 2010; 81S: e54)

“In 2005 3 human observational studies showed that **inter-ruptions of chest compressions were common, averaging 24% to 57%** of the total arrest time. “

AHA (Circulation 2010; 122: S690)

¹ Maule Y, "Mechanical CPR; Better, but more importantly, more CPR" (translated from French: Assistance cardiaque externe; Masser mieux, mais surtout, masser plus"), Urgence Pratique, 2011; 106: 47-48

² Olasveengen TM, Wik L, Steen PA. Quality of cardiopulmonary resuscitation before and during transport in out-of-hospital cardiac arrest. Resuscitation. 2008; 76(2): 185-90.

³ Munch M, Rehatschek G, Strohm M, Schenk I, Hering R. "Resuscitation in Rescue Helicopter (RTH) – the feasibility and efficacy of a mechanical CPR device in an RTH simulator (translated from German language). Intensiv und Notfallmedizin 2010;4: 295