

Manual CPR

has hidden costs

Poor perfusion

Manual CPR provides only 30-40% of normal blood flow to the brain even when delivered according to guidelines.¹



30-40%

Provider pain and injury

CPR causes back pain in 80% of nurses who perform it.³



80%

The American Heart Association states⁵:

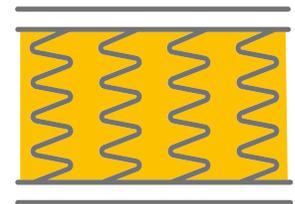
Poor-quality CPR is a **preventable harm**



The LUCAS chest compression system helps emergency care teams around the world do what they do best — save lives. From the field to the cath lab, LUCAS helps ensure Guidelines-consistent compressions are constantly being administered — helping reduce the risk of injury to caregivers and freeing them up to perform other lifesaving interventions.

Mattress effect

35-40% of total compression depth is accounted for by mattress compression during manual CPR.²



35-40%

Cost of injury

\$69,594: cost of a typical strain injury (\$33,140 direct and \$36,454 indirect costs).⁴



\$69K

1. Meaney P, Bobrow B, Mancini M, et al. CPR Quality: Improving cardiac resuscitation outcomes both inside and outside the hospital. A consensus statement from the American Heart Association. *Circulation*. 2013;128(4):417-435
 2. Perkins GD, Kocierz L, et al. Compression feedback devices over estimate chest compression depth when performed on a bed. *Resuscitation*. 2009; 80:79-82.
 3. Jones A. Can cardiopulmonary resuscitation injure the back? *Resuscitation*, 2004 Apr; 61(1):63-7.
 4. <https://www.osha.gov/dcs/smallbusiness/safetypays/estimator.html>. As of August 1, 2018 with a 3% profit margin for strain.
 5. Resuscitation Education Series: Educational Strategies to Improve Outcomes From Cardiac Arrest: A Scientific Statement From the American Heart Association. *Circulation*. 2018; 138:e82-e122.

The LUCAS 3 device is for use as an adjunct to manual CPR when effective manual CPR is not possible (e.g., transport, extended CPR, fatigue, insufficient personnel).

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