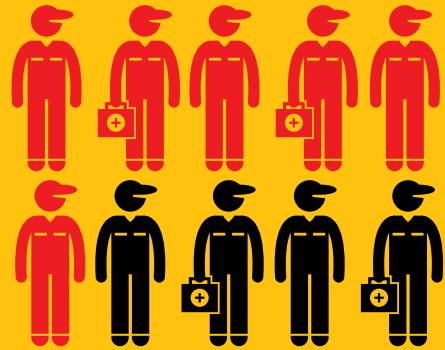


Manual CPR has hidden costs

Provider pain and injury

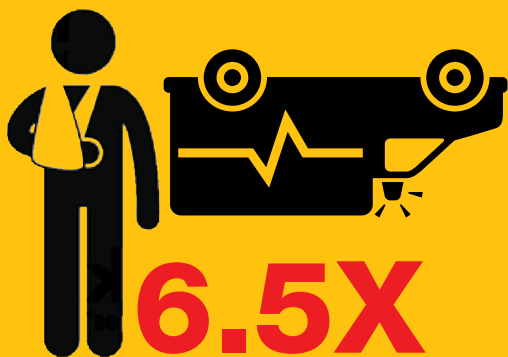


CPR causes back pain in **>80%** of nurses who perform it.¹



CPR causes back pain in **60%** of ambulance officers.²

Transit injuries and deaths



Unrestrained occupants are **6.5** times more likely to be severely injured and **3.8** times more likely to be killed³ in the **4,500** ambulance crashes each year⁴

Lost provider time and costs



Each back strain in a provider costs an anticipated **\$18,000** in direct medical and employer expenses and lost income.⁵



From the field to the cath lab, the **LUCAS® 3 chest compression system** reduces risks to caregivers while providing consistent, high-quality, Guideline-compliant compressions.

Talk to your Physio-Control representative to learn how the LUCAS 3 Chest Compression System can help protect the healthcare providers that your patients depend on.

For further information please contact your local Physio-Control representative or visit our website at www.physio-control.com/LUCAS



1. Jones A. Can cardiopulmonary resuscitation injure the back? *Resuscitation*, 2004 Apr; 61(1):63-7.
2. Jones A, Lee R. Cardiopulmonary resuscitation and back injury in ambulance officers. *International Archives of Occupational and Environmental Health*. 2005 May; 78 (4): 332-336.
3. Becker L, Zaloshnja E, Levick N, et al. Relative risk of injury and death in ambulances and other emergency vehicles. *Accident analysis and prevention* 2003; 35(6): 941-948.
4. <http://www.ems.gov/pdf/GroundAmbulanceCrashesPresentation.pdf>. NHTSA's Fatality Analysis Reporting System (FARS) 1992-2010 Final and 2011 Annual Report File (ARF) and National Automotive Sampling System (NASS) General Estimates System (GES), 1992-2011.
5. Studnek J, Ferketich A, Crawford J. On the job illness and injury resulting in lost work time among a national cohort of emergency medical services professionals. *American Journal of Industrial Medicine* 2007 Dec; 50(12): 921-31. <http://www.emsworld.com/article/11373351/back-injuries-and-protection>.