# Make the Case for **Real-Time Feedback**





"The evidence does not demonstrate a benefit with the use of mechanical piston devices for chest compressions versus manual chest compressions in patients with cardiac arrest. Manual chest



65.4 +- 7.6%

Visual Feedback 45.5 +- 8.1%

No

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compressions remain the standard of care for the treatment of cardiac arrest."<sup>4</sup>



A 2011 study showed that visual feedback led to a greater percent of correct compressions compared to auditory feedback and no feedback.<sup>9</sup>

## <sup>5</sup> Real-Time Feedback Study Results: with CPRmeter vs. No Feedback

	2010 Study <sup>6</sup>		<b>2013 Study</b> <sup>7</sup>		
	Correct Rate	Inadequate Release	Correct Depth	Correct Compression	
With Feedback	94.6%	0.16%	85%	71%	
No Feedback 🧔	<b>62.4%</b>	4.4%	43%	26%	

### When it comes to CPR, quality counts.

#### To learn more about ensuring quality CPR with real-time feedback, visit Laerdal.com/CPRmeter2

#### Sources:

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3) Peter A Meaney, MD., et al., "CPR Quality: Improving Cardiac Resuscitation Outcomes both Inside and Outside the Hospital: A Consensus Statement from the American Heart Association," Circulation, June 25, 2013, Page 2

4) Highlights of the 2015 American Heart Association Guidelines Update for CPR and ECC, 2015. American Heart Association

5) Tomlinson AE, Nysaether J, Kramer-Johansen J, Steen PA, Dorph E. Compression forcedepth relationship during out-of-hospital cardiopulmonary resuscitation. Resuscitation. 2007; 72: 364-370

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9) Cason, C.L., Trowbridge, C., Baxley, S.M., & Ricard, M.D. (2011), BMC Nursing; A Counterbalanced Cross-Over Study of the Effects of Visual, Auditory and No Feedback on Performance Measures in a Simulated Cardiopulmonary Resuscitation 10) AHA Consensus Statement, 2013, American Heart Associtation

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<sup>8)</sup> Girotra S, Nallamothu BK, Spertus JA, Li Y, Krumholz HM, Chan PS. Trends in survival after in-hospital cardiac arrest. N Engl J Med. 2012 Nov 15;367(20):1912–1920. Merchant RM, Yang L, Becker LB, et al. Incidence of treated cardiac arrest in hospitalized patients in the United States. Crit Care Med. 2011 Nov;39(11):2401–2406.