#### stryker

# Consistent compressions takeoff to touchdown

Your safety and ability to provide consistent, high-quality chest compressions is key during in-flight resuscitations, and we know space and resources are limited. The LUCAS chest compression system administers Guidelinesconsistent compressions while in flight and during patient transport, which allows flight teams to focus on the patient while in route to more advanced lifesaving interventions.



### Safety

Using the LUCAS during transport can enhance the safety of your team, helping them to provide a high level of care while remaining harnessed.

#### Proven

With over 30,000 devices deployed in the global market and 200+ publications documenting clinical use, LUCAS is a proven partner used by CPR providers all over the world.<sup>5</sup>

# Effective

When compared to manual CPR, LUCAS has been shown to increase EtCO<sub>2</sub> levels<sup>6</sup> and significantly improve blood circulation during transport.<sup>7</sup>

# Always prepared with LUCAS

of patients who achieve ROSC will re-arrest prior to hospital arrival. $^{1,2}$ 

Be ready to respond, with the LUCAS applied, mechanical CPR can be resumed immediately if patient re-arrests during transport.

#### **Minimize interruptions**

## 7 seconds

The two step application makes LUCAS quick and easy to deploy with a median 7 second interruption when transitioning from manual to LUCAS compressions during routine BLS/ALS use.<sup>3</sup>

During a simulated flight scenario, LUCAS increased CPR quality significantly over manual compressions.<sup>4</sup>



Manual CPR

Percentage of correct compressions during flight

LUCAS 3

LUCAS<sup>®</sup> 3, v3.1 chest compression system

LUCAS

stryke

# Bridge to **definitive care**

With multi-hour saves documented around the world, LUCAS is helping Emergency Care teams sustain vital perfusion while treating cardiac arrest patients. From the field to the cath lab, LUCAS is your partner in life support, providing high-quality Guidelines-consistent chest compressions for as long as needed.\*



#### **Standards**

LUCAS has been tested to global standards including

- EN 13718-1:2014
- IEC 68-2-64 test Fh with RTCA/160G, section 8, category U/U2 as reference
- lEC 60068-2-29, test Eb with RTCA/160G, section 7 as reference
- IEC 60601-1-2

### **Models**

Based on reports from our customers around the world, LUCAS is used in a wide variety of helicopter models including

- AgustaWestland AW 109, 139 & 169
- AS 332 L1 Super Puma
- Bell 407, 429 & 430
- Eurocopter EC 135, 145, & 225 LP
- MBB Bo 105
- MD Helicopters 902
- Sea King MK43B
- Sikorsky UH-60

\*See LUCAS Instructions for Use for details on environmental and operational specifications.

#### References

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- 3 Levy M, Yost D, Walker R, et al. A quality improvement initiative to optimize use of a mechanical chest compression device within a high-performance CPR approach to -of-hospital cardiac arrest. Resuscitation. 2015;92:32-37
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- 5 Based on internal and external marketing and financial data (As of January 2019)
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- 7 Magliocca A, Olivari D, De Giorgio D, et al. LUCAS Versus Manual Chest Compression During Ambulance Transport: A Hemodynamic Study in a Porcine Model of Cardiac Arrest. Journal of the American Heart Association 2018;8(1).

#### For further information, please contact your Stryker representative or visit our website at strykeremergencycare.com

#### **Emergency Care**

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"If someone had told me about an 8-hour cardiac arrest, I wouldn't have believed it. But this truly happened."

#### Alessandro Forti, MD

HEMS Head Coordinator, Italy

Learn more at: www.LUCAS-CPR.com