

**PHYSIO
CONTROL**



LUCAS[®] CHEST COMPRESSION SYSTEM

With Radiotranslucent Back Plate
for use in the Cath Lab

With a carbon fiber back plate, visualizing coronary arteries during ongoing compressions is **even easier.**

The LUCAS cath lab back plate is made out of carbon fiber which is lightweight, very strong, and fully radiotranslucent. The material enables the construction of a thin but durable back plate that does not interfere with the angiogram. LUCAS facilitates the management of acute and life-threatening complications in the cath lab.

Designed to deliver effective, uninterrupted and consistent compressions for victims of circulatory arrest, according to AHA guidelines

Facilitates circulation:

- to vital organs
- by allowing compressions on a patient on the cath lab table
- by minimizing interruptions despite ongoing fluroscopy

Allows for simultaneous catheterization as well as PCI during ongoing CPR

Frees up resources and buys time for decision making in a stressful situation

- a bridge to continued PCI, LVAD, cardiopulmonary bypass or surgery
- increases personnel safety by minimizing radiation exposure typically seen during manual CPR



PCI Back Plate Specifications

- Material: Carbon Fiber
- Dimensions: (L x W) : 49 x 24 cm / 19.3 x 9.4 inches
Thickness : 7 mm / 0.3 inches
- Weight: 1 kg / 2.2 lbs
- Fully radiotranslucent
- Can be pre-positioned in unstable patients, without compromising angiographic imaging, and allowing for quick set up in case of refractory/non-shockable arrest.

LUCAS and Fluoroscopy



LUCAS is radiotranslucent, except for the hood and the piston. This allows for these projections in monoplane

Straight
Cranial



Straight
Caudal



Straight
Lateral



LAO/RAO
Cranial



LAO/RAO
Caudal



“The mood in the cath lab was calm at all times despite the ongoing VF... This is quite contrary to what usually happens in such situations when manual compressions are used.”

– Olivecrona, Lund, Sweden (tctmd.com 24 Oct 2006).

“We believe LUCAS CPR is a big advancement in resuscitation therapy. Furthermore, it enables for a fast intervention of a closed coronary artery also during instable circulation, and allows for a shortened door-to-balloon time.”

– Schäfer et al, Dresden Germany (*Clin Res Cardiol* 96: Suppl 1 2007).

”... percutaneous intervention can be carried out successfully during ongoing automatic mechanical compressions by the LUCAS device, which provides an efficient circulatory pulsatile support [...] without the need for additional staff involved in basic life support.

– Agostoni et al, Antwerp, Belgium (*Int J Cardiol.* 2007 Feb 28).

All information including comparative statements are valid as of September 2012.

For further information, please contact Physio-Control at 800.442.1142 (U.S.), 800.895.5896 (Canada) or visit our website at www.physio-control.com.



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