AutoPulse Cath Lab Application Note

AutoPulse au

The AutoPulse® Non-Invasive Cardiac Support Pump was developed to provide consistent, high-quality CPR, and is capable of doing so over long periods of time.

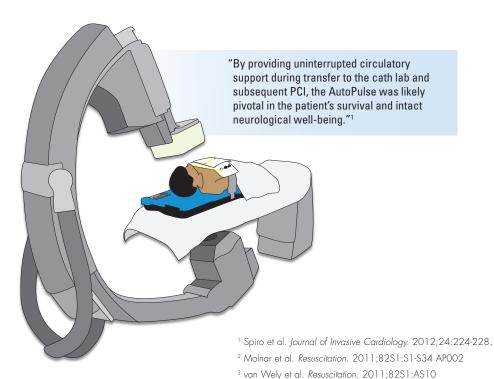
The load-distributing band design delivers a tailored compression that employs both the sternal and thoracic pump mechanisms. The only mechanical CPR system to show meaningful clinical benefits in comparative human trials, it provides the intelligence to optimize compressions for each patient, no matter how challenging the circumstances.

Recently, use of the AutoPulse for life-threatening rhythms during both diagnostic and therapeutic catheter-based procedures has been described. 1,2,3 It can be rapidly deployed in any situation where CPR is required. The use of the load-distributing band to provide maintenance of circulation while continuing percutaneous coronary procedures is supported by a Class IIa recommendation in the American Heart Association Guidelines. 4

⁴ AHA. Guidelines for CPR and ECC, 2010;12.13:S849

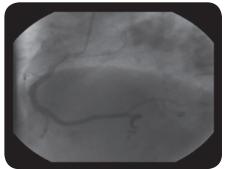
AutoPulse in the Cath Lab:

- 1. Drives near-normal blood flow for victims in circulatory arrest.
- **2.** No compromising patient position on the table. Accommodates a wide range of projection angles.
- 3. Low-profile design maintains integrity of the sterile field.
- **4.** Minimizes radiation exposure while delivering continuous compressions.
- 5. Movement of the C-arm without compromise.



Angiographic Views with the AutoPulse in Place







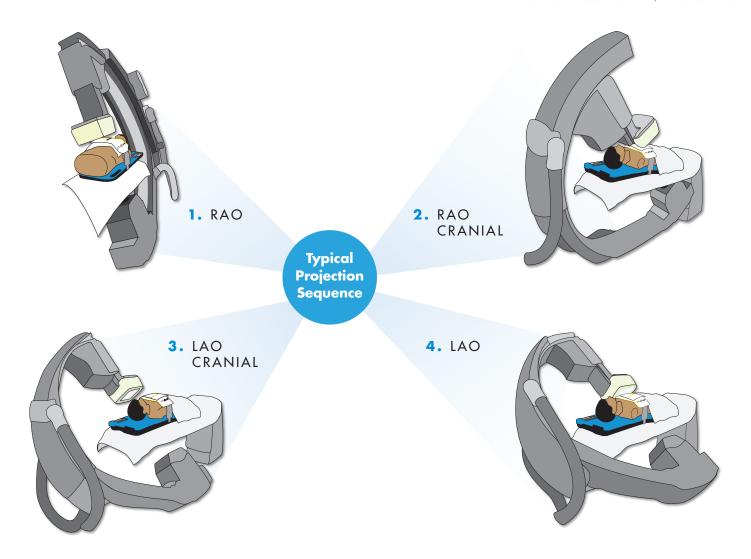
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Typical Viewing Angles

The low profile of the AutoPulse design makes it easy to use in the cath lab. It accommodates a wide variety of angles for the cranial, RAO, and LAO views. The sequence illustrated below shows a typical flow employed in the interventional setting.

VESSE		LEFT MAIN			LAD			CX				RA				
LAO/RAO	LA0 20	LA0 8	LA0 55	LAO 8-15	LAO 90	LAO 65	LA0 12	LAO 65	RA0 55	LA0 55	RAO 80-110	LA0 8	LA0 55	LA0 39	RA0 51	
CRA/CAI	CRA 6	CRA 22	CAU 24	CRA 22	CRA 0	CRA 0	CRA 14	CRA 0	CRA 13	CAU 24	CRA 0-5	CRA 22	CAU 24 (orif)		CRA 11 (distal)	

Molnar et al. Resuscitation. 2011;82S1:S1-S34 APO02



The optimal viewing angles will vary for individual patients due to variations in patient anatomy and placement of the patient on the AutoPulse.

