



Optimizing IAB Therapy with Fiber-optics and High Efficacy Balloons

A new level of support

Greater hemodynamic support for every patient

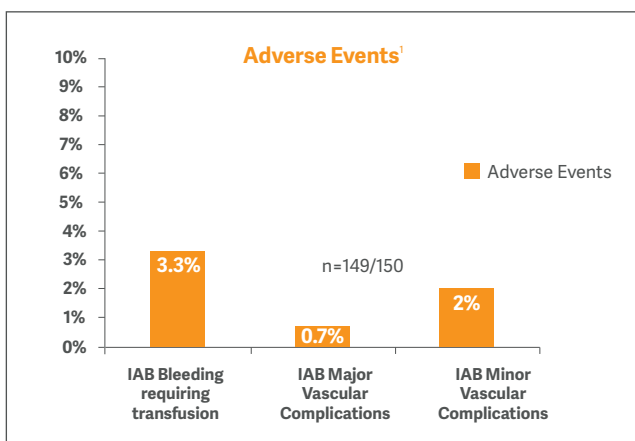
IAB therapy using a larger volume Sensation Plus® or Mega® balloon appears effective as a first line percutaneous mechanical circulatory support (MCS) strategy in a large fraction of critically ill cardiac patients with few adverse events.¹

Increase in cardiac output and cardiac index with 50 cc IAB

	Kapur ² n=26	Visveswaran ¹ n=79	Baran ³ n=60
CO	1.4 L/min	1.03 L/min	1.6 L/min
CI	0.7 L/min/m ²	0.46 L/min/m ²	0.8 L/min/m ²

Larger volume balloons like Mega and Sensation Plus displace more blood in the aorta during diastole, resulting in improved augmentation and unloading.

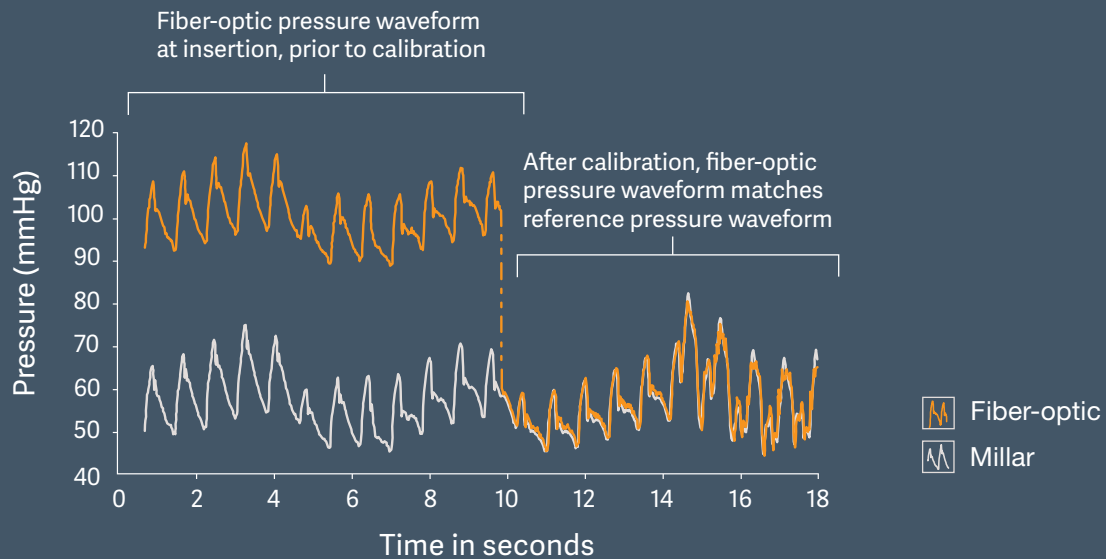
The net result of the larger-capacity IABs is a significant reduction in cardiac filling pressures and augmentation in cardiac output.²



An IABP first approach was associated with few significant complications.¹

IABP with a 50 cc balloon with early escalation when necessary, represented a safe, clinically effective, cost conservative strategy in the management of critically ill cardiac patients.¹

Accurate timing is critical



Fiber-optic technology minimizes fluid filled inaccuracies by⁴:

- Delivering the signal 50 msec faster
- Utilizing an artifact free signal to more accurately adjust timing
- Using automatic *in vivo* calibration and recalibration to eliminate the need for leveling and zeroing

Fiber-optic Technology

- Faster time to therapy
- *In-vivo* calibration
- Every 2 hour automatic recalibration

High Efficacy Technology Greater Hemodynamic Support*

- 25% more blood volume displacement 40 cc vs. 50 cc
- 18% more blood volume displacement 34 cc vs. 40 cc
- Improved unloading and augmentation

* Bench testing completed by Getinge. Data on file. Bench test results are not necessarily predictive of clinical results.



Utilizing a Getinge high efficacy balloon is an effective first line percutaneous MCS strategy.¹

Ordering Information

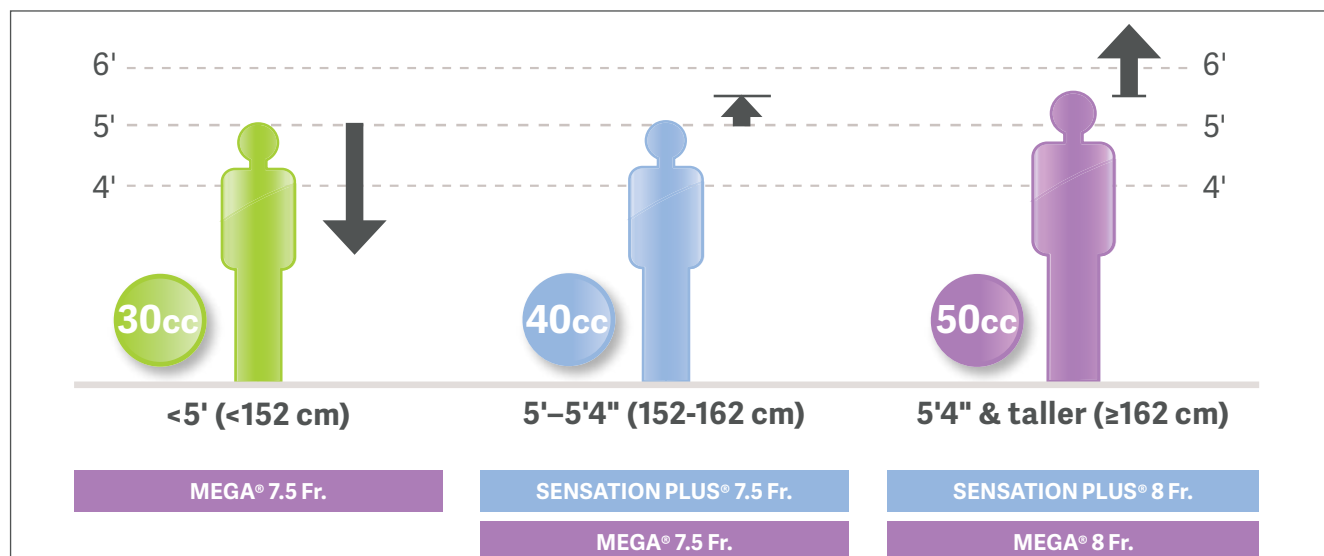
Sensation Plus IAB

Product	Part Number
Sensation Plus 7.5 Fr. 40 cc Fiber-optic Balloon Catheter, Insertion Kit and two StatLock® IAB devices	0684-00-0568-01
Sensation Plus 8 Fr. 50 cc Fiber-optic Balloon Catheter, Insertion Kit and two StatLock® IAB devices	0684-00-0576-01

Mega IAB

Product	Part Number
Mega 7.5 Fr. 30 cc Balloon Catheter, Insertion Kit and two StatLock® IABs	0684-00-0294-01
Mega 7.5 Fr. 30 cc Balloon Catheter, Insertion Kit and two StatLock® IABs, with APA†	0684-00-0294-02
Mega 7.5 Fr. 40 cc Balloon Catheter, Insertion Kit and two StatLock® IABs	0684-00-0295-01
Mega 7.5 Fr. 40 cc Balloon Catheter, Insertion Kit and two StatLock® IABs, with APA†	0684-00-0295-02
Mega 8 Fr. 50 cc Balloon Catheter, Insertion Kit and two StatLock® IABs	0684-00-0296-01
Mega 8 Fr. 50 cc Balloon Catheter, Insertion Kit and two StatLock® IABs, with APA†	0684-00-0296-02

† Arrow Pump Adaptor



References

1. Visveswaran GK, Cohen M, et al. A single center tertiary care experience utilizing the large volume Mega 50 cc intra-aortic balloon counterpulsation in contemporary clinical practice. *Catheter Cardiovasc Interv.* 2017;90:E63–E72.
2. Kapur NK, Vikram Paruchuri V, et al. Hemodynamic effects of standard versus larger-capacity intra-aortic balloon counterpulsation pumps. *J Invasive Cardiol.* 2015;27(4):182-188.
3. Baran DA, MD, Visveswaran GK, et al. Differential responses to larger volume intra-aortic balloon counterpulsation: Hemodynamic and clinical outcomes. *Catheter Cardiovasc Interv.* 2017;1–8.
4. Yarham G, Clements A, et al. Fiber-optic intra-aortic balloon therapy and its role within cardiac surgery. *Perfusion.* March 2013; 28: 97-102.



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