



The practical solution
for managing perfusion
Smart. Innovation.

FloTrac system



The FloTrac system enables proactive clinical decision support.

The minimally-invasive FloTrac system is a reliable solution for advanced hemodynamic monitoring that automatically calculates key flow parameters every 20 seconds.



The FloTrac sensor attaches to an existing arterial line and monitors advanced hemodynamic parameters:

- Stroke volume (SV)
- Stroke volume variation (SVV)
- Mean arterial pressure (MAP)
- Cardiac output (CO)
- Systemic vascular resistance (SVR)*

Proactive decision support offered by the FloTrac system helps guide individualized treatment decisions for your moderate- to high-risk surgery patients, and can be utilized perioperatively to proactively manage your patients. The FloTrac system can also be utilized to manage physiological status in rapidly changing clinical situations in acute care settings.



* When FloTrac sensor is paired with the patient's central venous pressure (CVP)

Proactively manage pressure and flow component of perfusion.

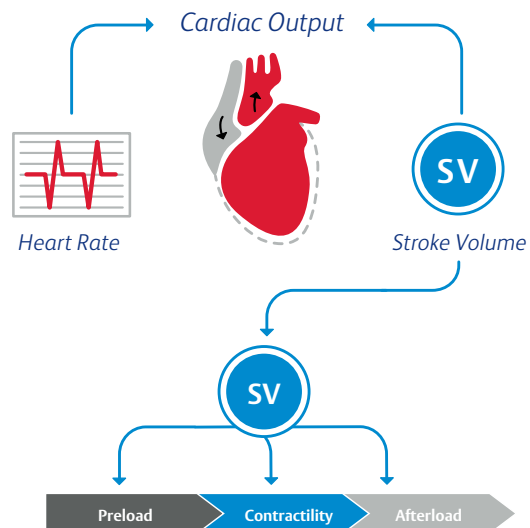
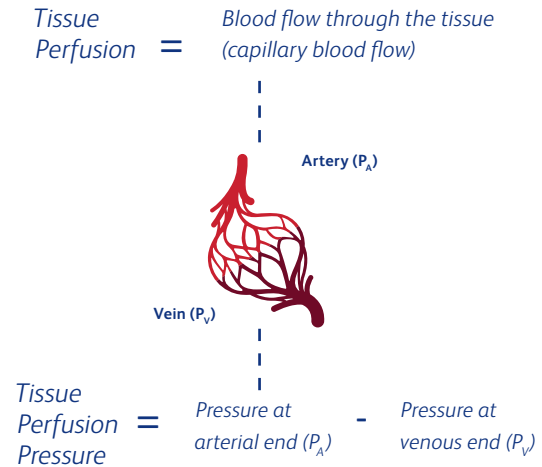
The FloTrac system provides access to pressure and flow parameters to help you evaluate hemodynamic instability including hypotension and guide appropriate treatment.

Recent studies show associations between intraoperative hypotension and increased risk of acute kidney injury (AKI) and myocardial injury — the leading cause of post-operative mortality within 30 days after surgery.

Clarity through advanced hemodynamic monitoring parameters CO, MAP, SV, SVV and SVR provided by the FloTrac system can help you determine if the cause of intraoperative hypotension is preload, afterload, or contractility.

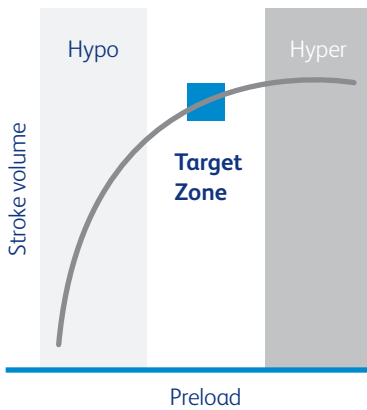
If the underlying cause of hemodynamic instability is related to flow generation, continuous parameters, offered by the FloTrac system, can help you determine appropriate fluid therapy.

Continuous assessment of pressure and flow parameters offers decision support to help manage the duration and severity of intraoperative hypotension episodes.



Manage the flow component of perfusion to guide individualized fluid management.

Frank-Starling relationship between preload and stroke volume (SV)



When managing perfusion, stroke volume can be optimized using the patient's own Frank-Starling curve.

The patient's location on the curve can be determined by measuring changes in SV in response to change in preload using a fluid bolus challenge or passive leg raise (PLR). Dynamic, flow-based parameters are more informative than conventional parameters in determining fluid responsiveness and may help guide individualized volume administration in patients and avoid excessive and insufficient volume administration.¹

Manage variability in volume administration.

Advanced hemodynamic parameters provided by the FloTrac system may be used in perioperative goal-directed therapy (PGDT) protocols. PGDT is a treatment protocol using dynamic, flow-based parameters with the objective of making the appropriate volume management decisions. PGDT can be implemented in a single procedure or as part of a larger initiative such as Enhanced Recovery After Surgery pathways.

FloTrac system: 4.5 million patients, 86 countries and 10+ years.*

Trusted

*Chosen to monitor over
4.5 Million Patients*



Worldwide

86 Countries. *Used by clinicians worldwide for minimally-invasive volume management*



Literature

Referenced in over 270+ clinical studies *spanning the OR and ICU*



*Data on file

FloTrac system algorithm

Provides a clear hemodynamic picture across various patient conditions and surgical procedures



Compensating for patient-to-patient differences in vasculature, real-time changes in vascular tone and differing arterial sites.

The FloTrac system algorithm is based on the principle that aortic pulse pressure (PP) is proportional to stroke volume (SV) and inversely related to aortic compliance.

The algorithm compensates for the effects of compliance on PP based on age, gender, and body surface area (BSA).

FloTrac system



Model	Length A (cm)*	Length B (cm)*	Description	Pack size
MHD6R	120	30	FloTrac sensor (150 cm) pressure tubing	1
MHD6AZR	90	60	FloTrac sensor (150 cm) pressure tubing and VAMP adult system	1
MHD8R	180	30	FloTrac sensor (210 cm) pressure tubing	1
MHD6R5	120	30	FloTrac sensor (150 cm) pressure tubing	5
MHD6AZR5	90	60	FloTrac sensor (150 cm) pressure tubing and VAMP adult system	5
MHD8R5	180	30	FloTrac sensor (210 cm) pressure tubing	5

* Lengths are rounded up from inches to centimeters.

References

1 Cannesson, M. (2010) Arterial pressure variation and goal-directed fluid therapy. *Journal of Cardiothoracic and Vascular Anesthesia*, 24(3), 487-97.

Medical device for professional use. See instructions for use. CE marked medical device. 

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