

Cheetah Medical™ Education presents — FAST FLUID FACTS



A CASE STUDY

Stroke volume changes first. That's why some clinicians are calling stroke volume the next vital sign. While blood pressure is a helpful and necessary tool to determine perfusion status of a patient, stroke volume changes first! Take a look at this patient in the OR.

TRENDING STROKE VOLUME INDEX		TPRI	SVI	MAP
<p>Although MAP is in the “normal range,” Stroke Volume Index (SVI) is falling early. Perfusion is decreasing while MAP is not demonstrating the same change.</p> <p>Pressure ≠ Flow</p>	1:29	2577	36	101
	1:28	2955	32	95
	1:42	4060	26	103
	1:49	3150	27	84
	2:10	4165	19	85
	2:27	4145	18	82
	2:46	4132	23	78
	2:48	4180	22	83
	2:57		17	

Note that the SVI is dropping in the first 13 minutes whereas the MAP does not change. See how SVI changes FIRST? Blood pressure is good, but it's a late indicator that we have a perfusion problem.

Using the Cheetah Starling SV monitor or the CHEETAH NICOM to monitor SVI, you can see around the corner on blood pressure.

Just looking at the MAP here, would you be worried about your patient?

Just looking at MAP does not give us the full perfusion picture of the patient.

The fact that you have adequate pressure does not mean you have adequate flow... so use SVI and go with the flow today!

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For questions, comments, or what you'd like to see in another edition, email us at socialmedia@cheetah-medical.com

We LOVE hearing from you!

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1. Convertino A et. al. Stroke volume and sympathetic responses to lower-body negative pressure reveal new insight into circulatory shock in humans. *Autonomic Neuroscience: Basic and Clinical* 2004; 127-134. Cheetah Starling SV and Cheetah NICOM are registered trademarks of Cheetah Medical, Inc.

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