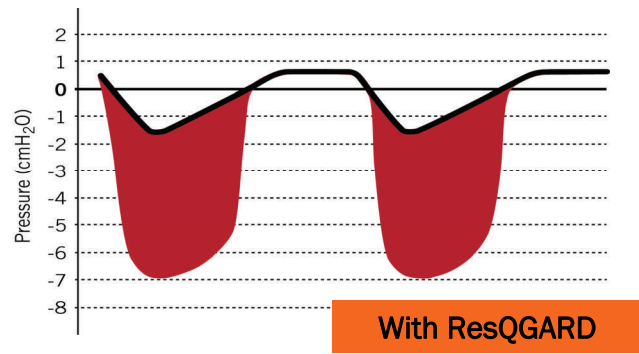
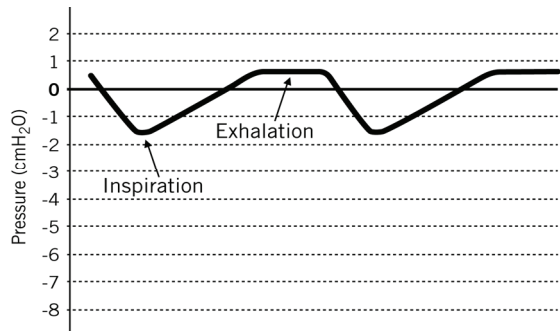
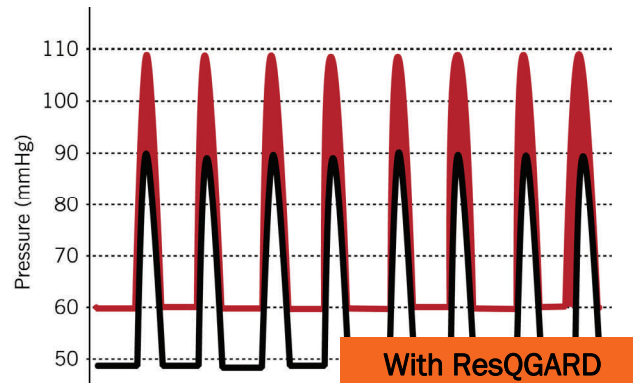
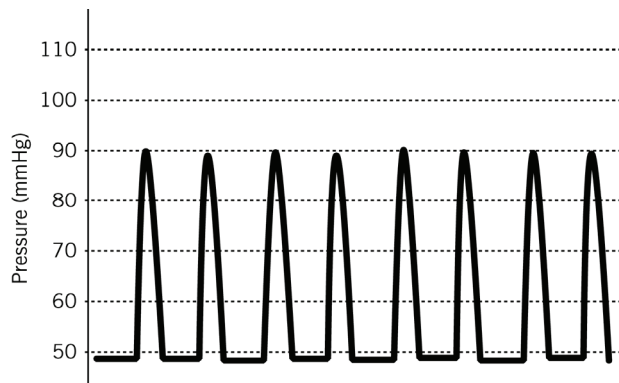


HEMODYNAMIC EFFECTS OF ResQGARD[®] ITD 7

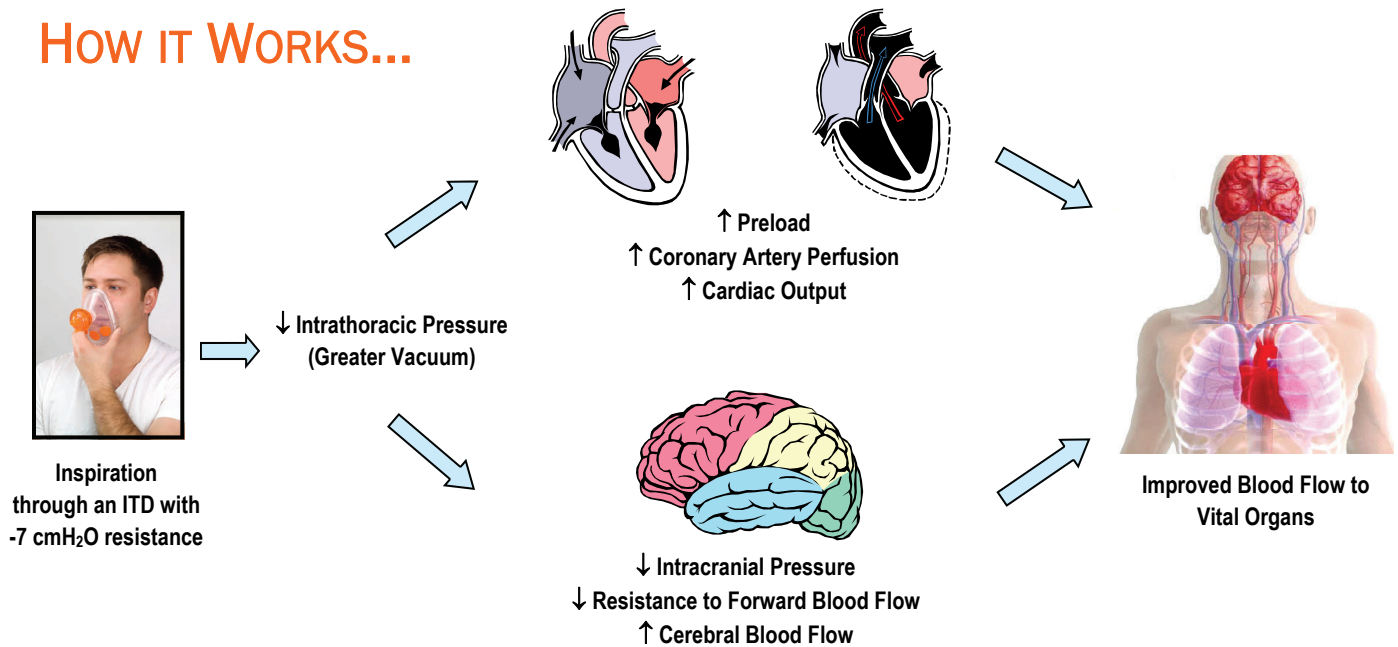


AIRWAY PRESSURE IN HYPOTENSIVE PATIENTS



ARTERIAL PRESSURE IN HYPOTENSIVE PATIENTS

HOW IT WORKS...



Perfusion on Demand
 ADVANCED CIRCULATORY SYSTEMS, INC.

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ResQGARD[®] ITD 7

TOP FACTS:

- Provides a therapeutic amount of inspiratory impedance that lowers intrathoracic pressure during inspiration, which in turn promotes increased preload and cardiac output
- O₂ port allows for up to 15 lpm supplemental oxygen to be delivered
- Simple, non-invasive, single-use (disposable)
- Latex free

ANIMAL AND CLINICAL STUDIES* HAVE SHOWN THAT THE RESQGARD RAPIDLY AND NON-INVASIVELY:

- Increases systolic (up to 30%), diastolic (up to 20%) and mean arterial pressure (up to 27%)
- Increases cerebral perfusion pressure for a given mean arterial pressure
- Increases cardiac output and stroke volume during hypovolemic stress
- Helps patients feel better during periods of hypovolemic stress
- Buys time until definitive care and diagnosis of etiology
- Can be simply discontinued (“On/Off Therapy”)
- Provides benefit with or without concomitant therapy (e.g. IV fluids, positioning, vasopressors)



KEY STUDIES:

1. Metzger A, et al. Augmentation of negative intrathoracic pressure improves hemodynamics without popping the clot: a randomized study comparing an ITD versus saline to treat severe hemorrhage through permissive hypotension in a spontaneously breathing porcine model. *Circulation* 2011.
2. Suresh M, et al. Treatment of hypotensive patients by EMS personnel by modulating intrathoracic pressures. *Prehosp Emerg Care* 2012; in press.
3. Smith SW, et al. An ITD increases blood pressure in hypotensive patients. *J Emerg Med* 2011;41(5):549-558.
4. Convertino VA, et al. Optimizing the respiratory pump: harnessing inspiratory resistance to treat systemic hypotension. *Resp Care* 2011;56(6):846-857.
5. Convertino VA, et al. Inspiratory resistance maintains arterial pressure during central hypovolemia: implications for treatment of patients with severe hemorrhage. *Crit Care Med* 2007;35(4):1145-52.

COMMERCIAL CONFIGURATIONS:



ResQGARD FM Kit: Product number: 12-0707-000

Contains: ResQGARD ITD 7, facemask, oxygen tubing, and ResQSTRAP in hard plastic “clamshell” package; pictured on left (10 EA/BX, 4 BX/CS)

ResQGARD MP Kit: Product number: 12-0705-000

Contains: ResQGARD ITD 7, mouthpiece, and nose clip in a re-sealable plastic package (10 EA/BX, 12 BX/CS)

ResQGARD ITD 7: Product number: 12-0708-000

Contains: ResQGARD ITD 7 in a re-sealable plastic package (10 EA/BX, 12 BX/CS)

MILITARY CONFIGURATIONS:



ResQGARD Military Kit: Product number: 12-0706-000; NSN: 6515-01-575-8173

Contains: ResQGARD ITD 7, facemask, ResQSTRAP, mouthpiece, nose clip, lanyards, quick reference card in hard plastic “clamshell” package; pictured on left (10 EA/BX, 4 BX/CS)

ResQGARD Military MP Kit: Product number: 12-0751-000

Contains: ResQGARD ITD 7, mouthpiece, nose clip, lanyards, quick reference card in vacuum-sealed pouch (10 EA/BX, 12 BX/CS)

ResQGARD Military Kit: Product number: 12-0752-000

Contains: ResQGARD ITD 7, facemask, mouthpiece, nose clip, lanyards, ResQSTRAP, quick reference card in hard plastic “clamshell” package (10 EA/BX, 4 BX/CS)

*The generally cleared indication for the ResQGARD is for a temporary increase in blood circulation during emergency care, hospital, clinic and home use. The studies listed here are not intended to imply specific outcome-based claims not yet cleared by the US FDA.