

SHOCK

The goal of the Cardiovascular System is to deliver O₂ to the body.
Shock is a state of vital organs not receiving adequate O₂.

Normal Oxygen Delivery System



3 Main Types of Shock

Hypovolemic - Low volume

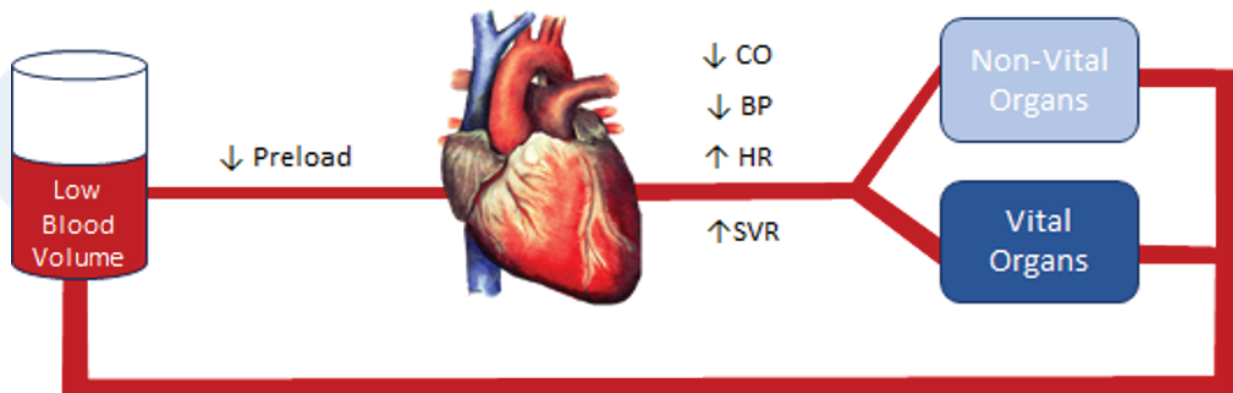
Cardiogenic - Broken pump (heart)

Septic - Immune response interferes with vascular tone

With each type of shock, a different portion of the O₂ delivery system is affected:

Hypovolemic

Initial Insult = Low Blood Volume



Hypovolemic Shock Stages:

Class I: 500-750 ml loss

Class III: 1500-2000 ml loss

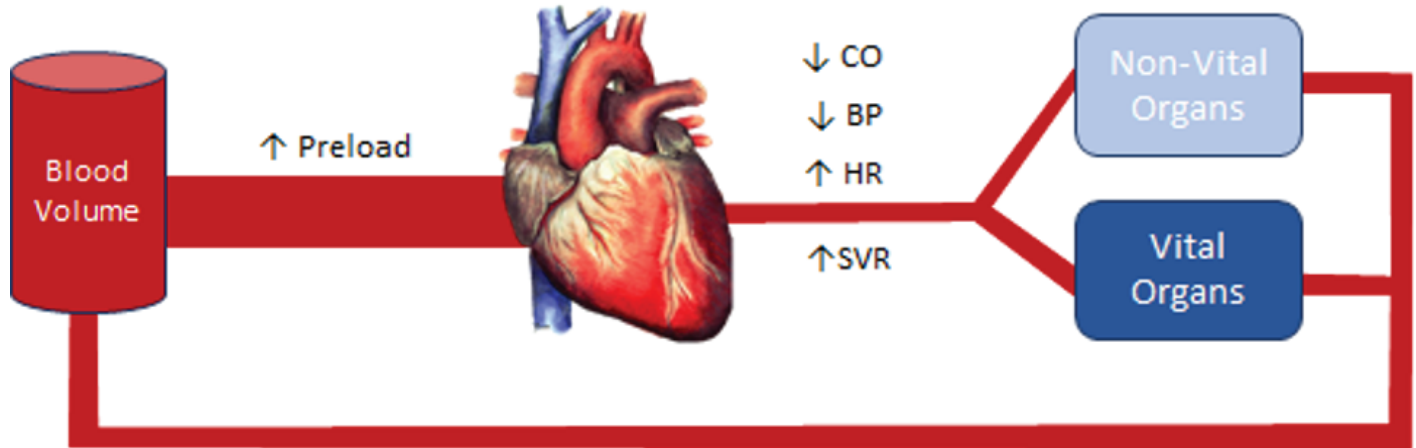
Class II: 750-1500 ml loss

Class IV: >2000 ml

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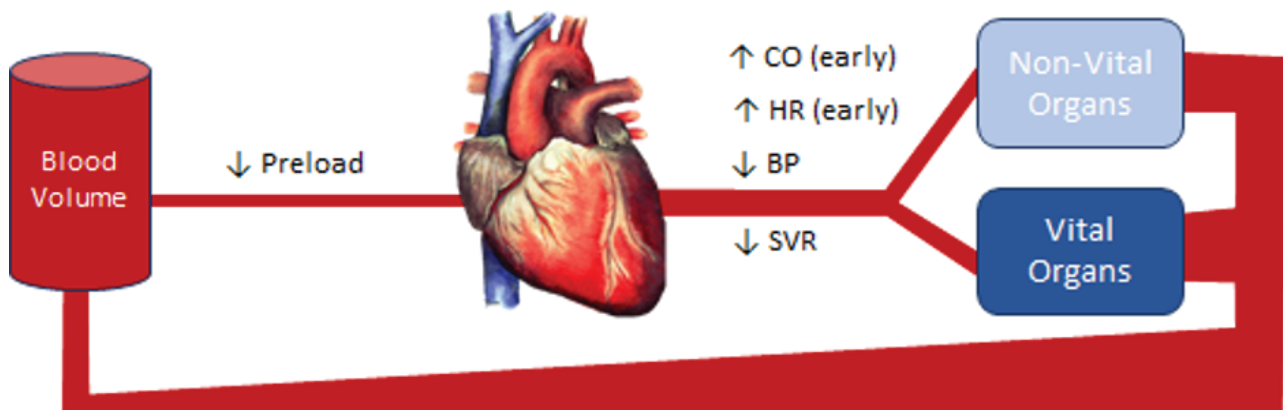
Cardiogenic

Initial Insult = Pump Failure



Septic

Initial Insult = Immune response initiates massive systemic vasodilation



Comparison of Different Types of Shock

	Hypovolemic	Cardiogenic	Septic
CO	↓	↓ Initial Insult	↑ (early)
HR	↑	↑	↑ (early)
SVR	↑	↑	↓ Initial Insult
EF	↑	↓	↓
PAOP (L Atria)	↓	↑	↓
CVP R Preload	↓ Initial Insult	↑	↓
BP	↓	↓	↓
Temp	↓	↓	↑