

Symptoms

Symptoms: "organs not getting enough blood"

- Hypotension with SBP \leq 90 with narrow pulse pressure
- Signs of organ hypoperfusion
- Cool extremities
- Mottling skin
- Peripheral cyanosis
- Weak thready pulse
- Decreased cap refill
- Dizziness
- CP
- AMS
- SOB/orthopnea
- Tachycardia

Complications

- Multiorgan failure
- Arrhythmia
- Structural heart rupture
- CVA
- Cardiac arrest

CARDIOGENIC SHOCK

Definition: acute state of decreased cardiac output causing hypoperfusion and organ dysfunction

Causes: "anything that obstructs blood flow from the heart to the rest of the body"
Ex: MI, cardiac arrest, arrhythmia, valvular disease, acute heart failure myocarditis, cardiac tamponade, PE, sepsis

****Mortality rate >50%**



Treatment

- Maintain ABCs
 - Provide O₂
- EKG
- **Labs:** CBC, CMP, Troponin, Coags, Lactate, VBG/ABG, BNP
- **Imaging:** CXR, bedside echo, TEE
- Arterial Line placement
- Monitor for pulmonary edema
- **Interventions**
 - PCI
 - Percardiocentesis for cardiac tamponade
 - Thrombolytics for PE
 - Valve repair
 - CABG
 - ECMO

Medications

Vasopressors: **MAP>65**

- #1 Norepinephrine
 - Vasoconstrictor
- #2 Add on-Dobutamine
 - Improve CO

Supporting References;

Warise L. Understanding cardiogenic shock: a nursing approach to improve outcomes. *Dimens Crit Care Nurs.* 2015 Mar-Apr;34(2):67-78. doi:10.1097/DCC.0000000000000095. PMID: 25650490. <https://pubmed.ncbi.nlm.nih.gov/25650490/>
"Shock: causes, assessment and investigation." *Anaesthesia & IntensiveCare Medicine.* (2023;24(2):99-107.) <https://www.sciencedirect.com/science/article/abs/pii/S1472029922002983>
Kosaraju, Ateet , and Ofek Hai. "Cardiogenic Shock." National Library of Medicine, StatPearls Publishing, 2023, www.ncbi.nlm.nih.gov/books/NBK482255/.
<https://www.ncbi.nlm.nih.gov/books/NBK482255/>