Figure 1.

- **Stop circulation**
  - 20 seconds

- **No Flow**
  - Depletion in cellular O\(_2\) stores
    - 4-6 minutes

- **Low Flow**
  - Complete loss of energetic (ATP) stores
  - Reperfusion

- **ROSC**
  - Reoxygenation-induced reactions

  - Interruption of cellular function
    - Membrane and pumps dysfunction:
      - influx of calcium
      - lactate acidosis
      - FFA occurrence
      - oxidative stress
    - Free radical triggered injury & excito-toxicity:
      - lipid peroxydation
      - primary necrosis
      - apoptosis

  - Splanchnic damages:
    - endotoxin release
    - inflammatory response