

SEPTIC / HEMORRHAGIC SHOCK

Drug screening and efficacy

Gold standard models to study the systemic inflammatory response syndrome.

Evaluation on cardiovascular parameters

CARDIOMEDEX is a niche contract research organization (CRO) dedicated to examining the cardiovascular effects of drugs candidates.

Septic shock

It is caused by overwhelming infection leading to vasodilation.

- Cecal ligation and puncture (CLP) induced septicemia (rat, mouse)
- LPS-induced sepsis (rat, mouse)

Reference compounds: anti-inflammatory, vasoconstrictors.

Hemorrhagic or Hypovolemic shock

The single most common cause of shock, due to blood volume loss.

- Hemorrhagic shock model (rat, mouse)

Reference therapies: fluid replacement (isotonic fluids), vasoconstrictors.

READ-OUTS and SCIENTIFIC RESULTS

Survival rate

Biomarkers: inflammatory mediators

Heart rate, Mean arterial pressure

Endothelial and smooth muscle cells response to agonists

Flow (shear stress) induced vasodilation

Pressure-induced vasoconstriction

Lead Optimization

POC, Efficacy and Safety in animals

Early POC in human

Clinical trials

Consultancy



LPS-induced hypotension (sepsis model)

