

HYPERTENSION

Drug screening in *in vivo* and *ex vivo* models

Evaluation of compounds effects on blood pressure, endothelial and smooth muscle cells function

Combined disease models: Hypertension with risk factors and co-morbidities such as hyperlipidemia, obesity and diabetes

- Gold standard models of hypertension
- Specific expertise in flow-induced dilation and pressure-induced constriction

IN VIVO MODELS

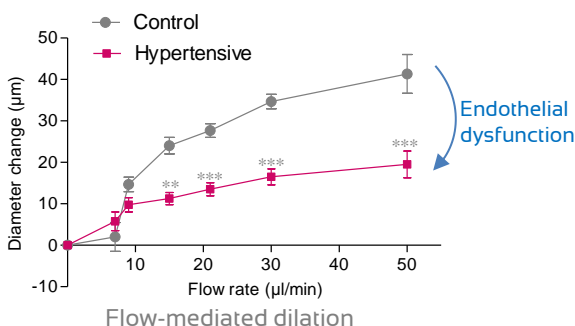
- Genetic animal models
 - Spontaneous Hypertensive rat model (SHR)
 - Dahl Salt sensitive rat
 - BPH/Slg mouse (Blood Pressure High)
- Non genetic models (rat and mouse)
 - DOCA-salt
 - High-Salt diet
 - L- Name treated
 - Angiotensin II treated

Reference compounds: ACE inhibitors, Diuretics, Beta blockers, Angiotensin antagonists and Calcium channel blockers.

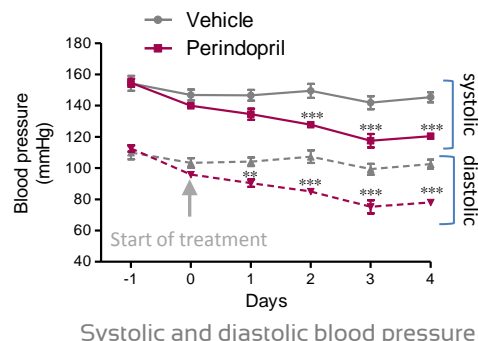
READ-OUTS and SCIENTIFIC RESULTS

Mean arterial pressure
 Endothelial and smooth muscle cells response to agonists
 Flow (shear stress) induced dilation
 Pressure-induced constriction
 Vascular resistance and hypertrophy

Endothelial function assessment



Telemetry monitoring of blood pressure



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

Lead Optimization

POC, Efficacy and Safety in animals

Early POC in human

Clinical trials

Consultancy

