DSS Rat Model of Hypertensive Nephropathy & Heart Failure

Model & Experimental Details

- Dahl-Salt Sensitive Rats
- Diet: High Salt (8% NaCl) and Normal Salt (0.3% NaCl)
- Blood Pressure: Radio-telemetry Transmitter Implanted via Abdominal Aorta
- Nephropathy: Markers of Renal Function & Injury and Histopathology
- Echocardiography: Measurement of LV Function and Geometry

Systolic Blood Pressure

Proteinuria

Serum Creatinine

BUN

Creatinine Clearance

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• DSS rats on high salt develop hypertensive nephropathy and heart failure with a progressive increase in blood pressure and proteinuria blunted by an ARB (Losartan, 30 mg/kg)

• DSS rats on high salt have increased serum creatinine and decreased creatinine clearance, along with the development of renal and myocardial hypertrophy

• DSS rats on high salt develop dilated cardiomyopathy and decreased left ventricular function as measured by echocardiography

• Histological endpoints including glomerulosclerosis, inflammation and fibrosis