

Heart failure with preserved ejection fraction in rat

Model of heart failure with preserved ejection fraction (HFpEF) related to diabetic nephropathy

Predictive models to test efficacy of compounds on cardio-renal disorders

MODEL FEATURES

- Spontaneously Diabetic Torii (SDT) Rats with unilateral nephrectomy (UNX)
- Diastolic dysfunction – Cardiac remodeling –mild hypertension Endothelial dysfunction –preserved ejection fraction
- Diabetes - obesity -steatosis

Reference compounds: GLP-1 analogue

KEY PARAMETERS

- Cardiac function and geometry (echocardiography)
- Invasive left ventricle function (Millar probe)
- Exercise tolerance test
- Glomerular filtration rate
- Histology, gene / protein expression, dosage...

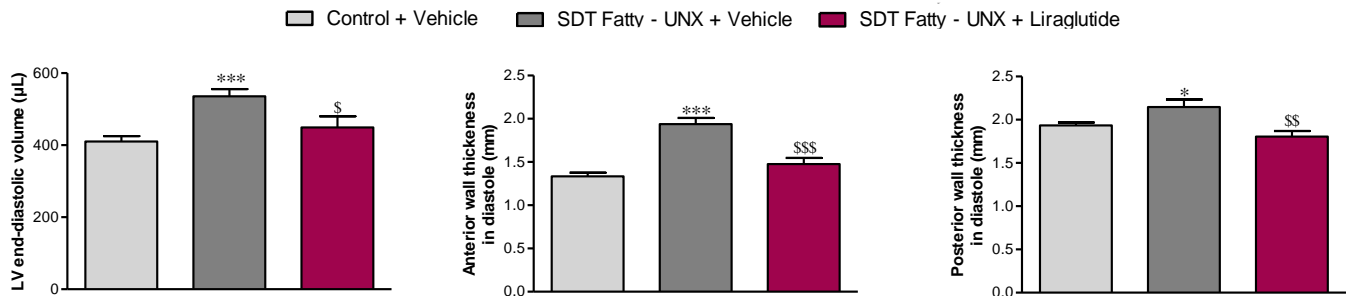
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PHARMACOLOGICAL VALIDATION WITH LIRAGLUTIDE

Echocardiography after 10 weeks of liraglutide treatment and 5 weeks after unilateral nephrectomy (UNX)

(Full data package upon request – Poster presented at the Keystone symposia on Diabetes, Santa Fe, USA, 2020)

➤ Liraglutide prevents both left ventricle dilation and hypertrophy



➤ Liraglutide normalizes diastolic relaxation and reduces left ventricle pressure elevation

