

# Vascular compliance and resistance changes during experimental heart failure

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## Propositions

accompanying the thesis

### **Vascular compliance and resistance changes during experimental heart failure**

1. Induction of myocardial infarction in the rat induces hemodynamic and neurohormonal alterations comparable to those characterising clinical compensatory heart failure (*this thesis*).
2. A proportional increase in the smooth muscle, elastin and collagen components of the aortic media of the rat does not affect the compliance or elasticity of this artery (*this thesis*).
3. The dynamic compliance of the rat aorta is optimal around normotensive pressure (*this thesis*).
4. Chronic reduction in basal nitric oxide levels induces vasoconstrictor hyporeactivity in the hindlimb vascular bed of the rat (*this thesis*).
5. Increased total peripheral resistance in the myocardially infarcted rat is not due to an increased minimal resistance nor to an impaired vasodilator capacity of the hindlimb vascular bed (*this thesis*).
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9. While angiotensin converting enzyme inhibitors have become standard therapy in the treatment of heart failure, laughing remains the best remedy for a broken heart.
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*Abraham Lincoln*