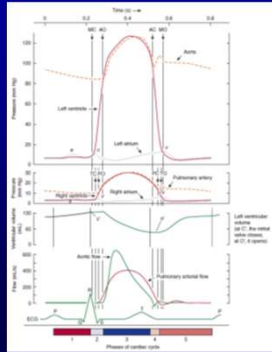
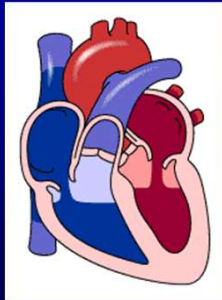


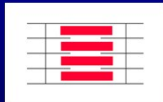
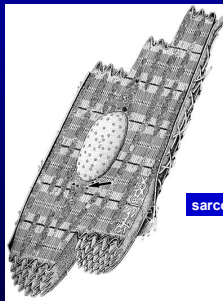
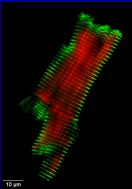
Pathologic contractile function of the heart

Dr. Zoltán Papp
UD Department of Cardiology
Division of Clinical Physiology

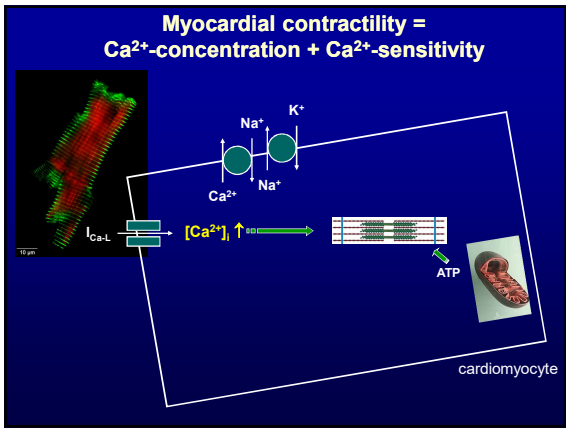
Events of the cardiac cycle

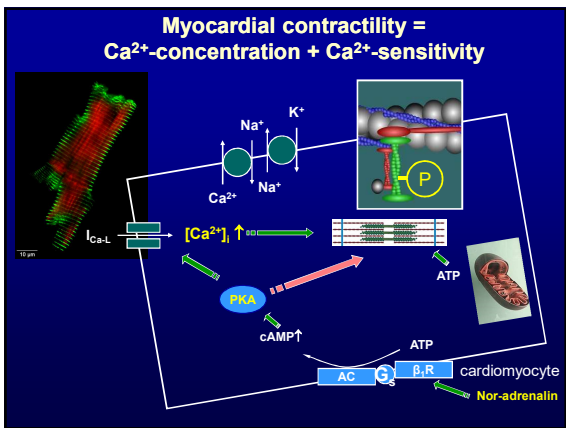


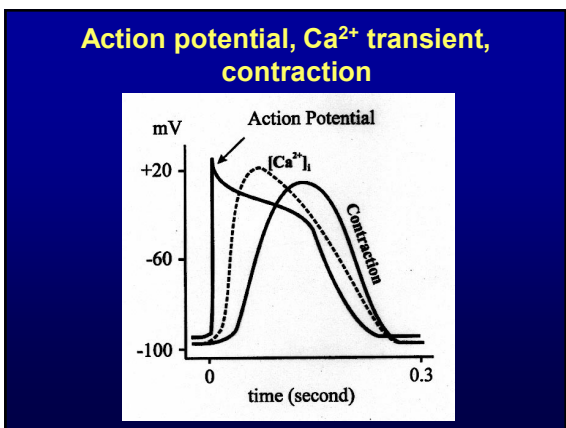
Contractile force is the result of sarcomere shortening



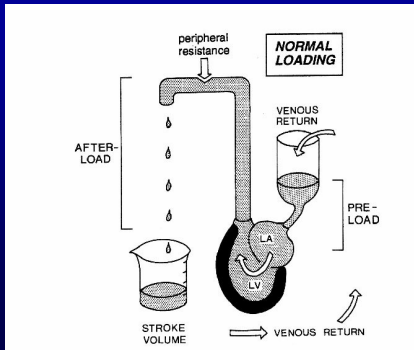
sarcomere



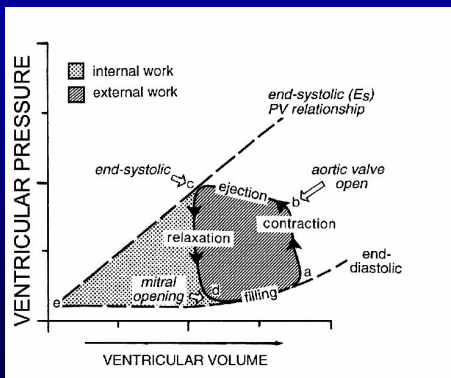




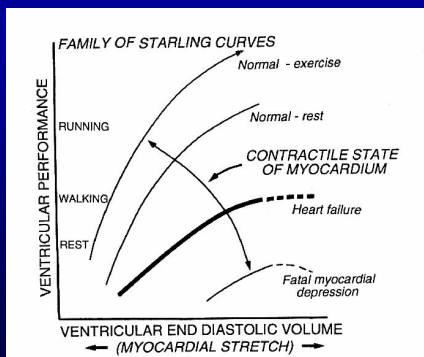
Cardiac preload and afterload



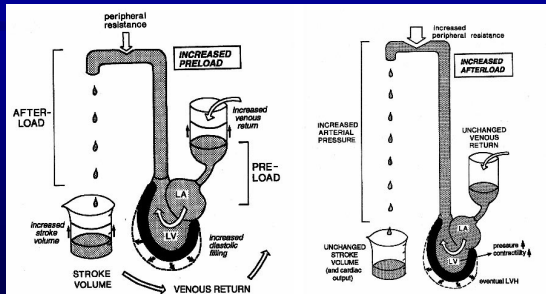
Cardiac cycle and cardiac work



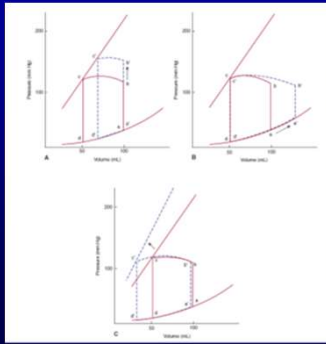
Ventricular function curves



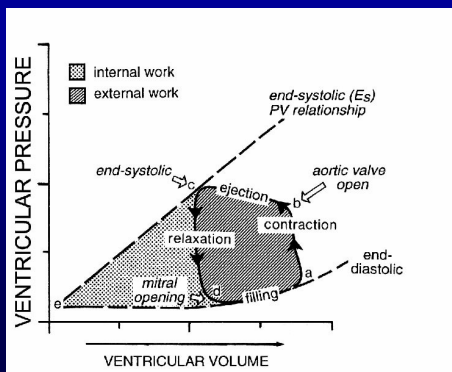
Increased preload and afterload



Responses on changes in loading conditions and contractility

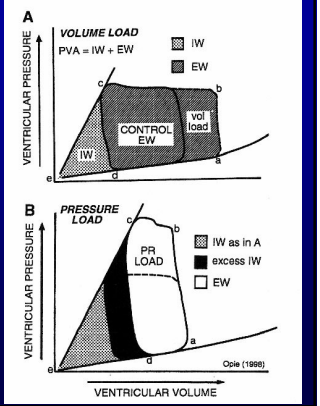


Cardiac cycle and cardiac work

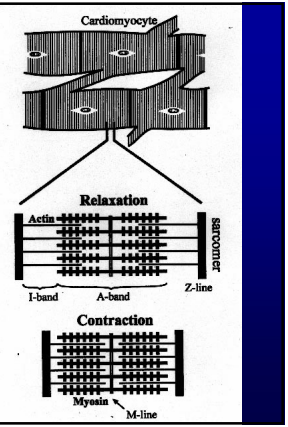
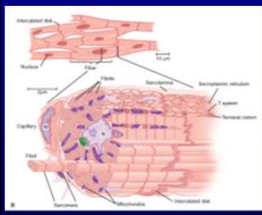


Increased preload

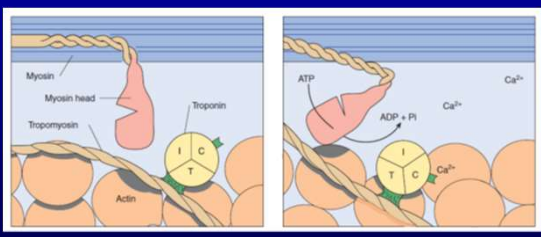
Increased afterload

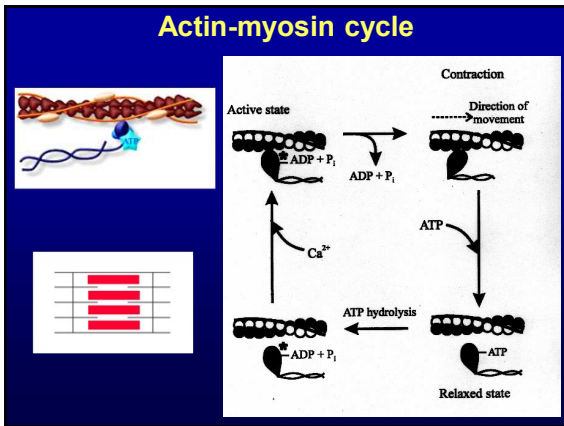


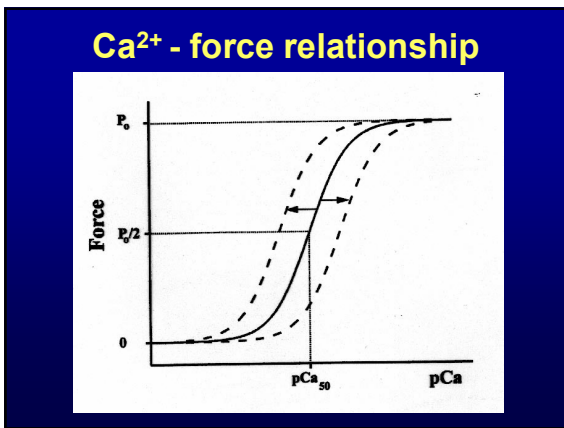
Contractile function and myofilaments

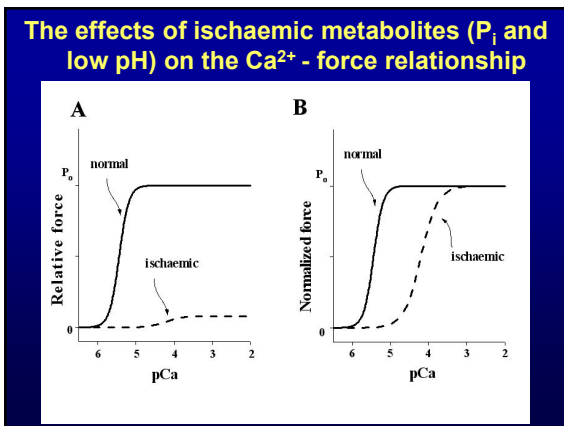


Contractile proteins

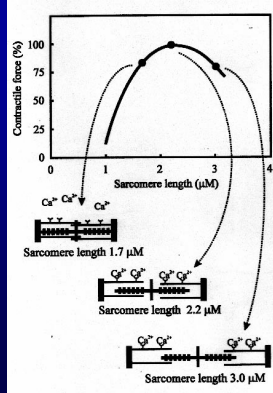




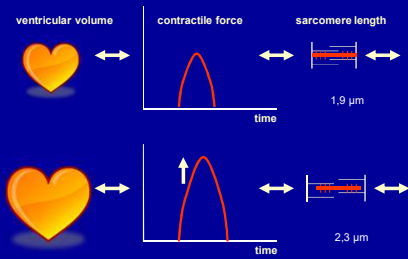




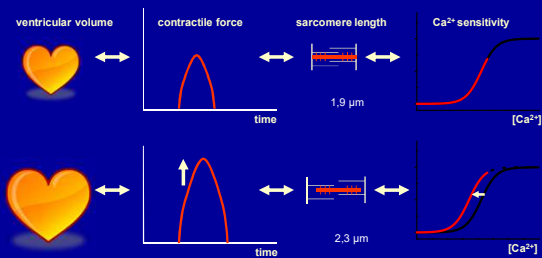
Length – tension relationship and its explanation

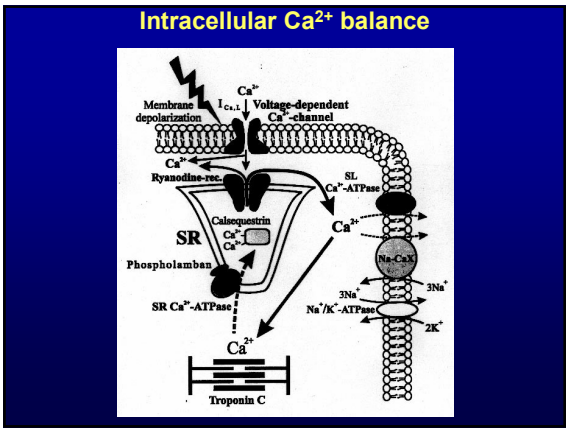


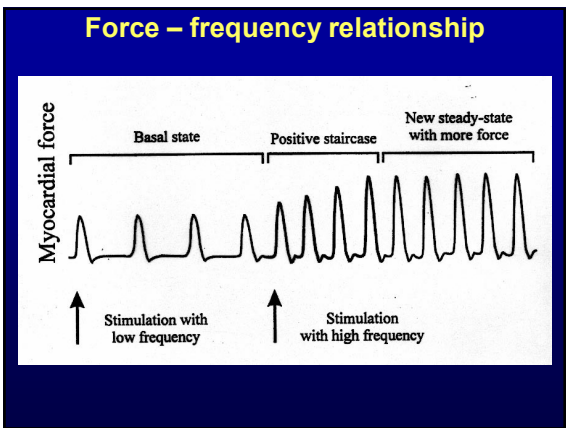
Frank-Starling-mechanism and sarcomere length

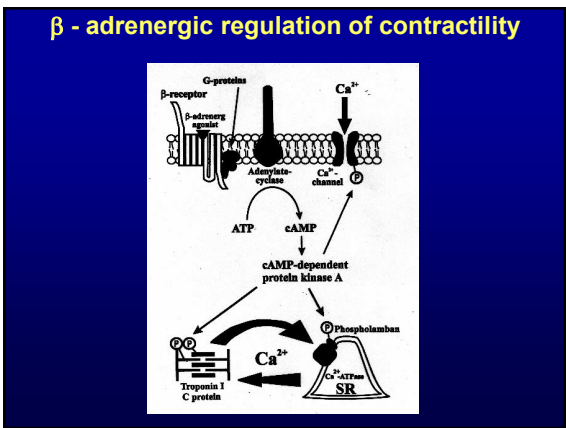


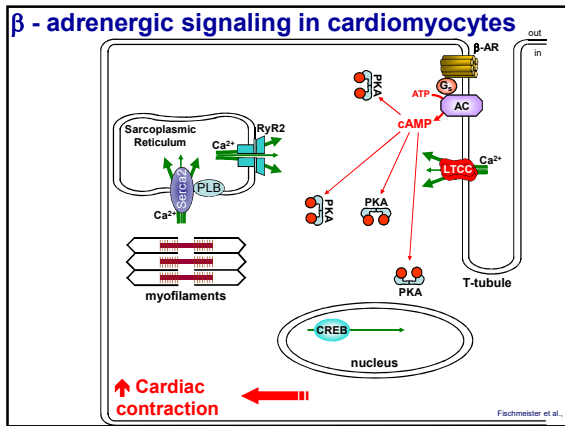
Frank-Starling-mechanism and sarcomere length

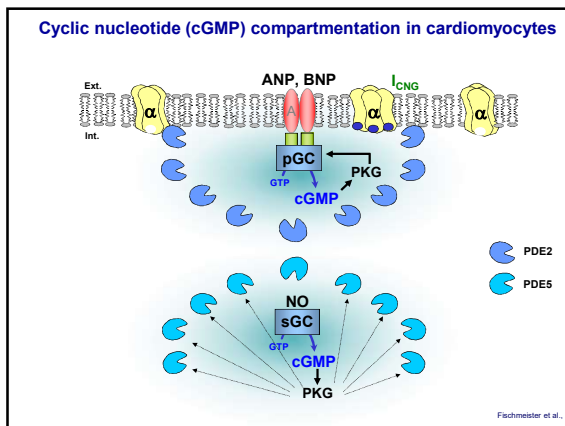


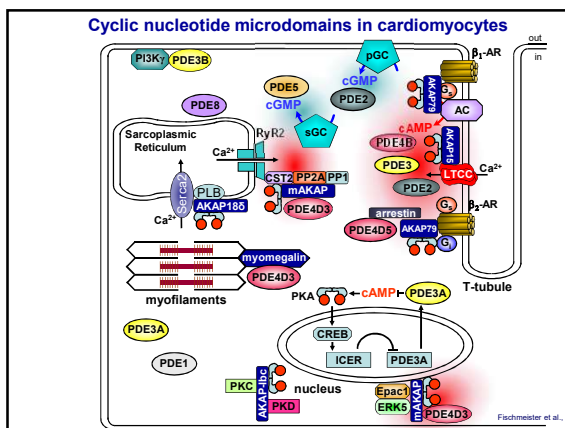




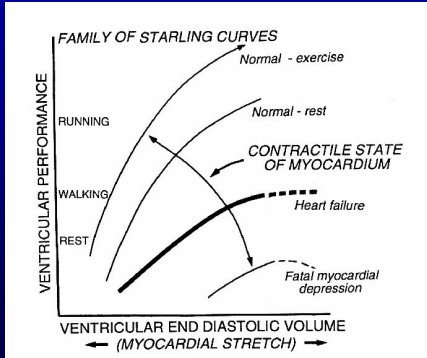








Ventricular function curves



Measures of myocardial contractile state

