POLYGRAPHY

Evaluation of systolic time intervals

POLYGRAPHY – simultaneous recording of several physiological parameters using various non-invasive or invasive methods

PHONOCARDIOGRAPHY

- recording of heart sounds

ELECTROCARDIOGRAPHY

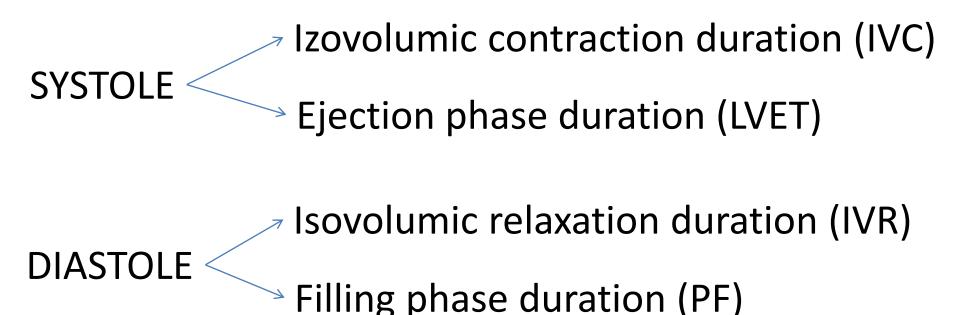
- recording of cardiac electrical activity

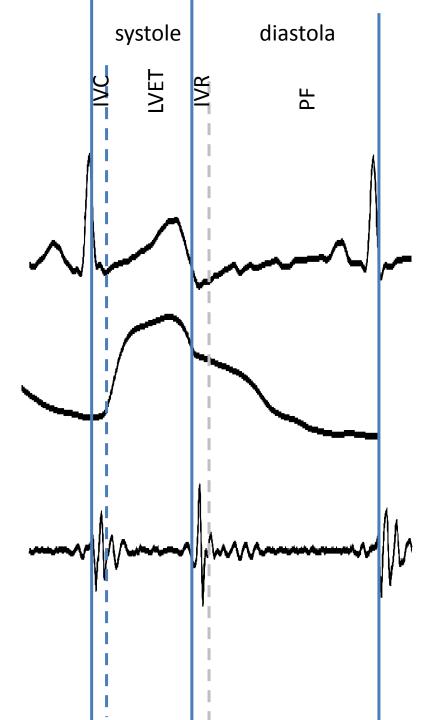
SPHYGMOGRAPHY

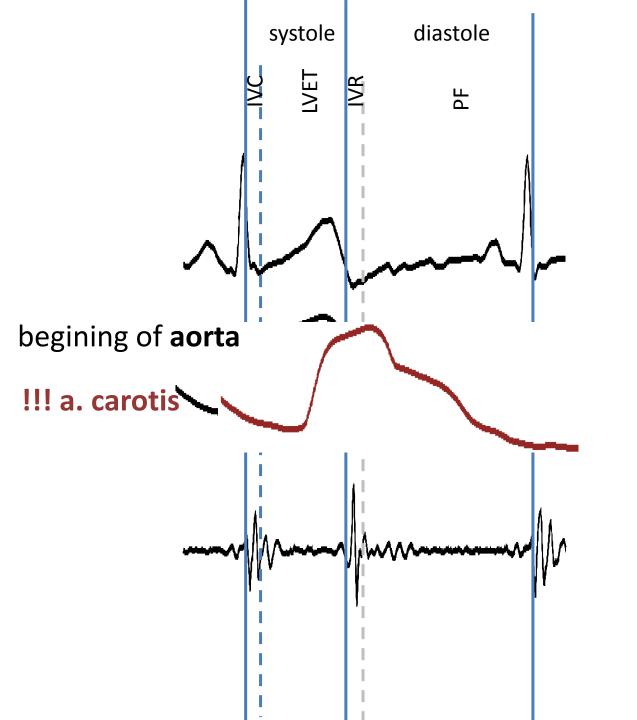
- graphical record of the arterial pulse

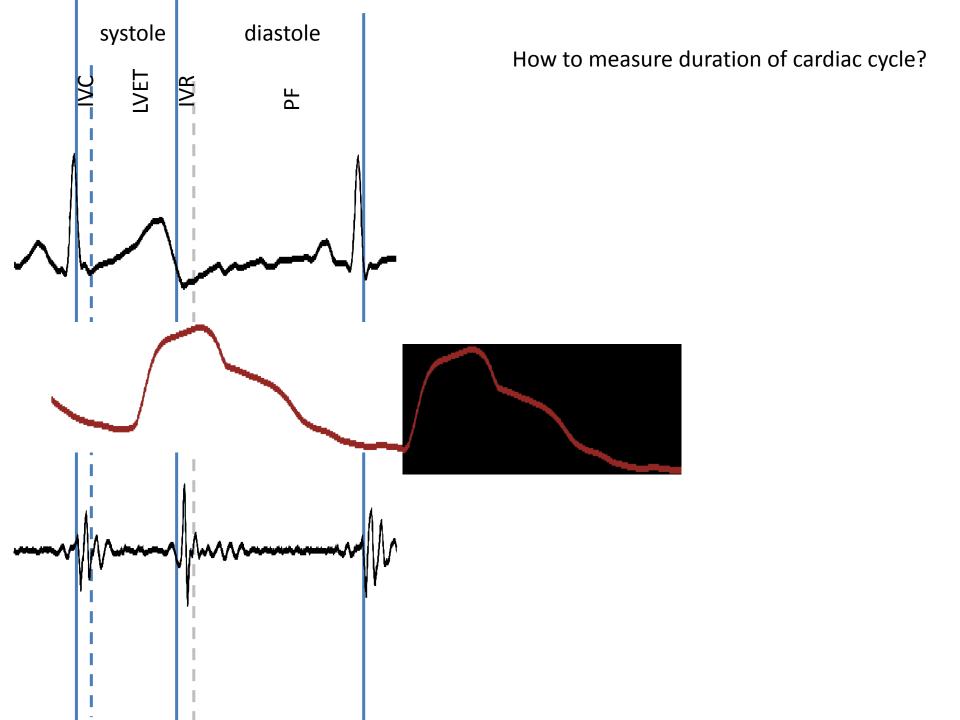
!pulse recorded on a. carotis is shifted in time axis regarding aortal pulse!

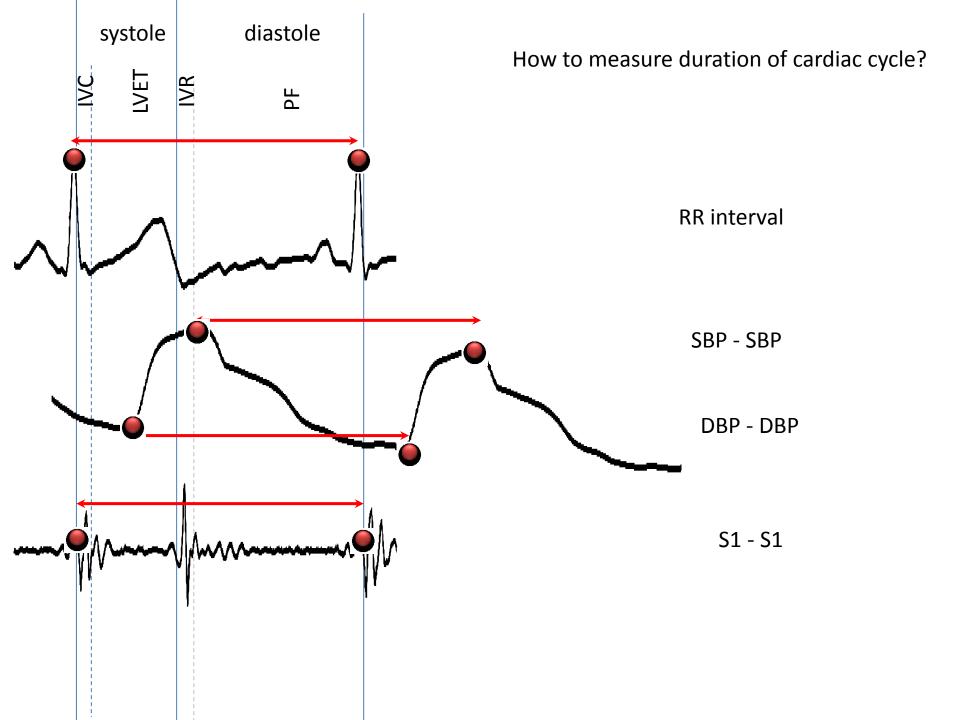
CARDIAC CYCLE

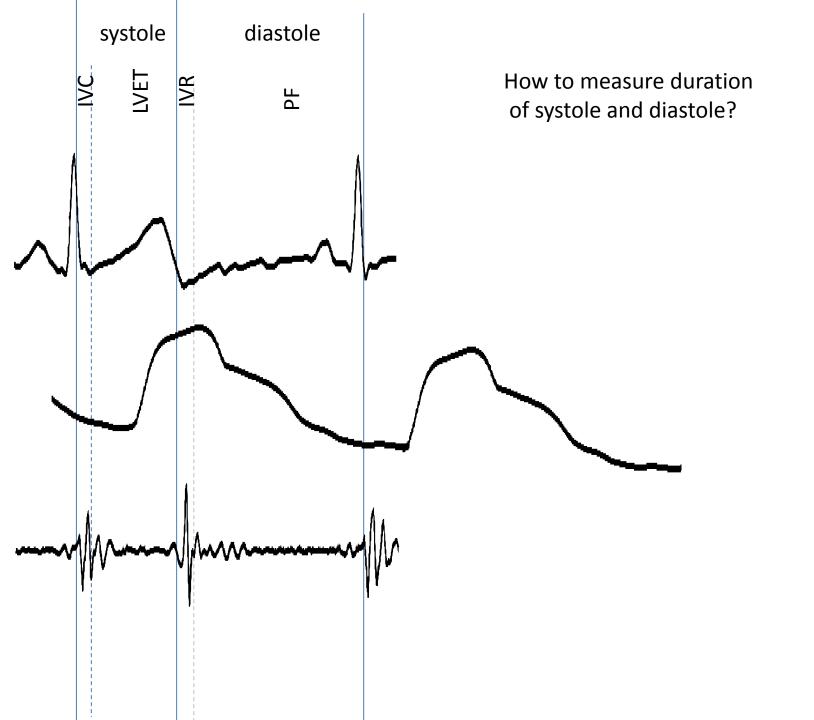


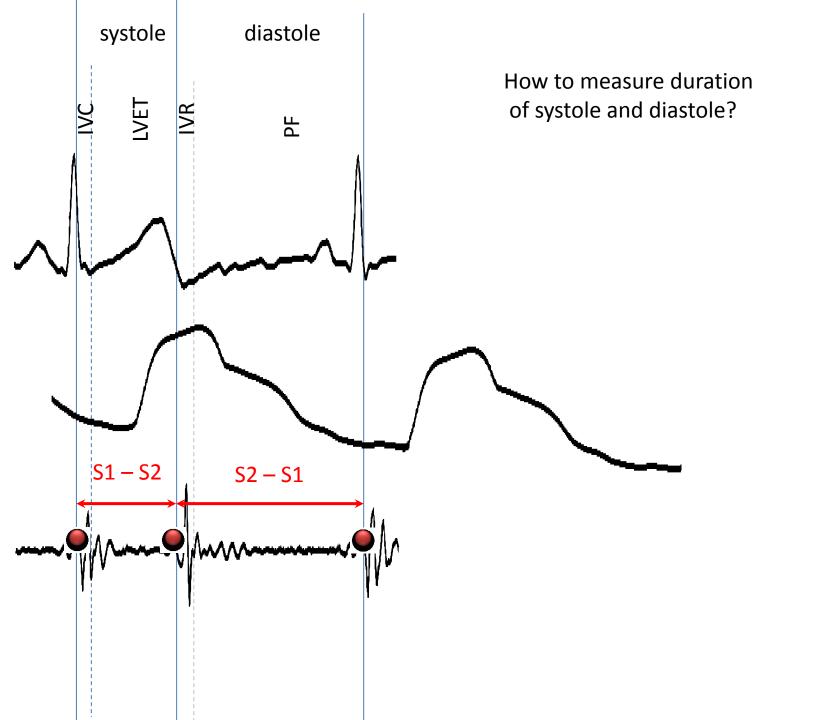


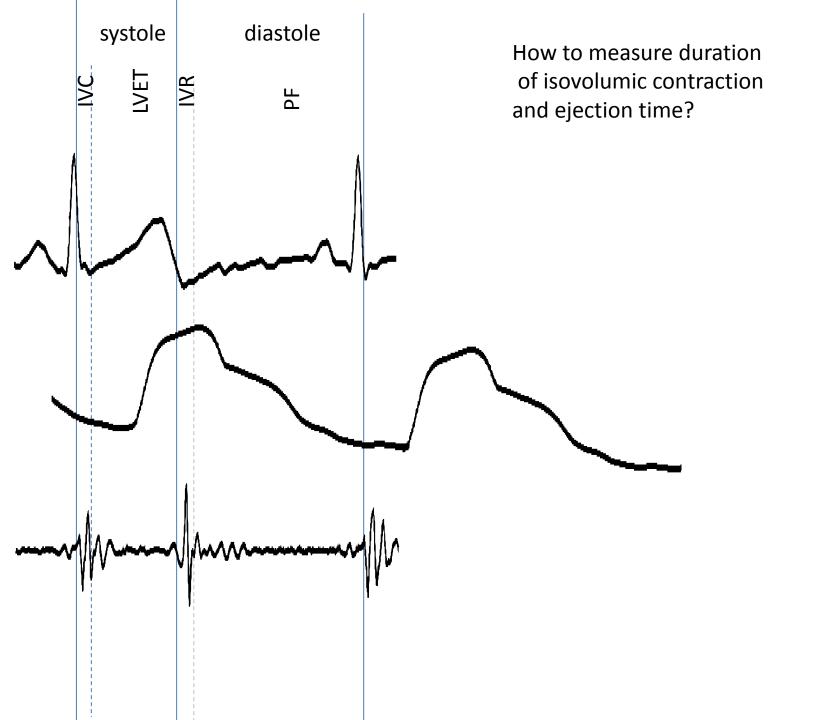


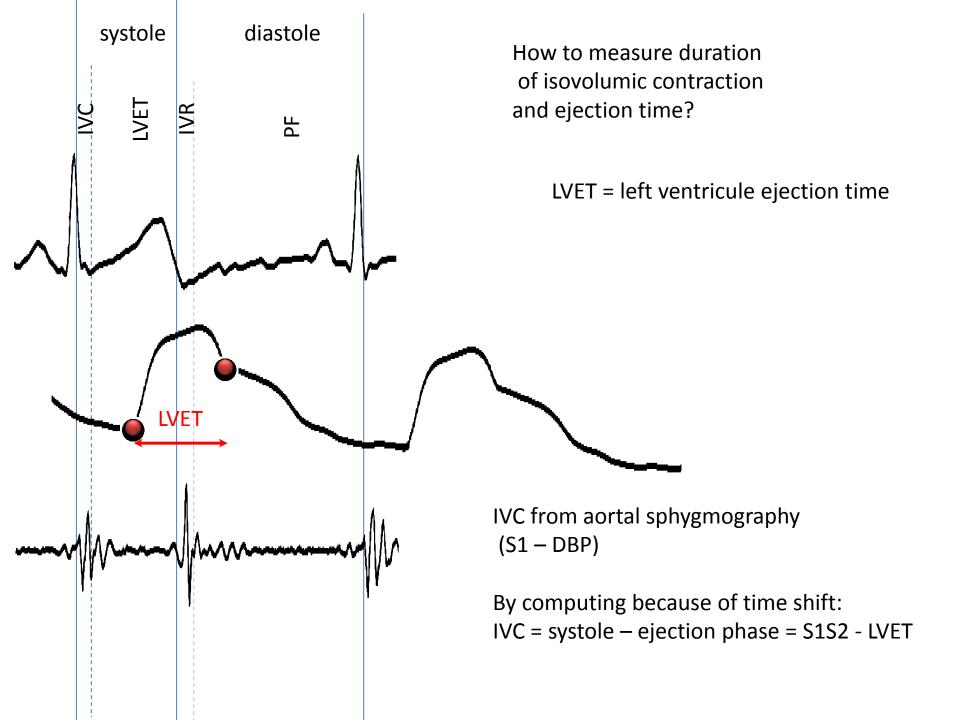


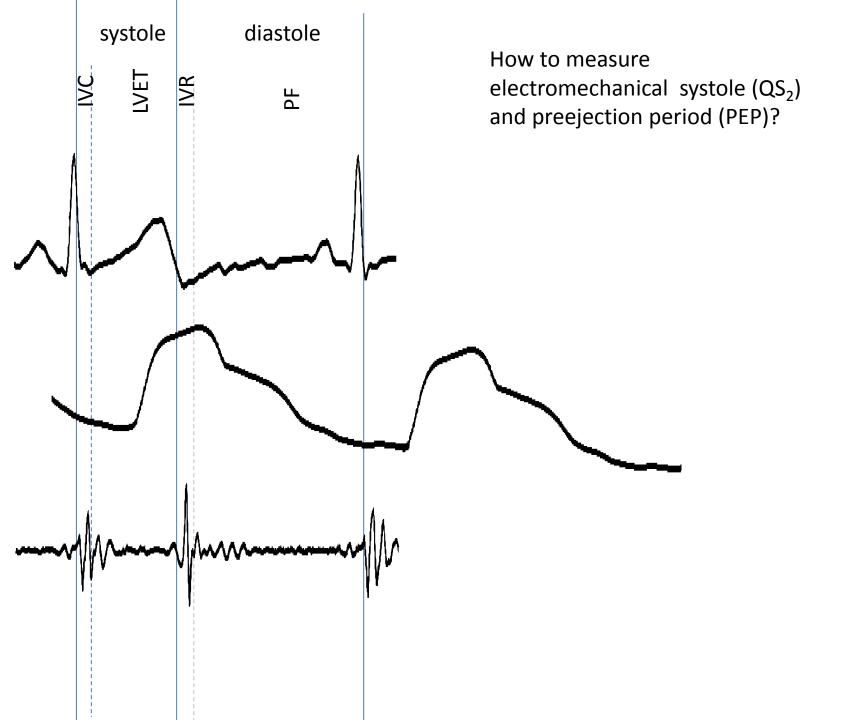


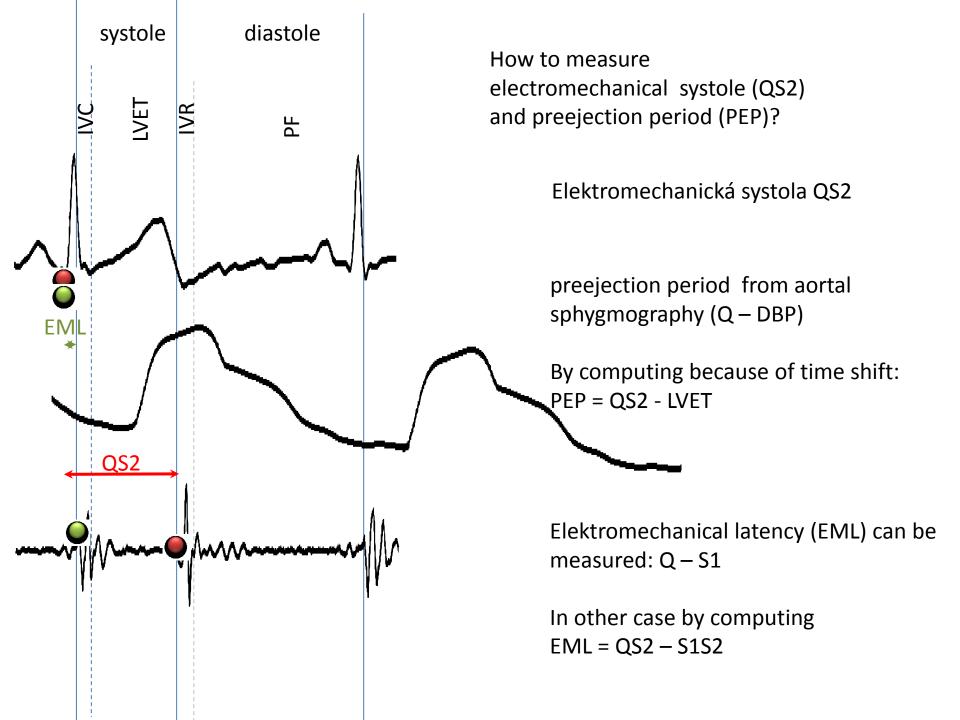












What does an index dP/dt mean?

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INDEX of CONTRACTILITY

In clinics: the maximal speed of the pressure increase during IVC (immediately before opening of aortal valve, at the end of IVC)

In practicals: average speed of pressure increase during IVC:

Pressure difference between the end	
and the beginning of IVC	DBP - 8
Duration of IVC	= IVC

(8 mmHg approximately corresponds to the pressure in the end of diastole, beginning of the left ventricular systole, and the left atrial pressure)