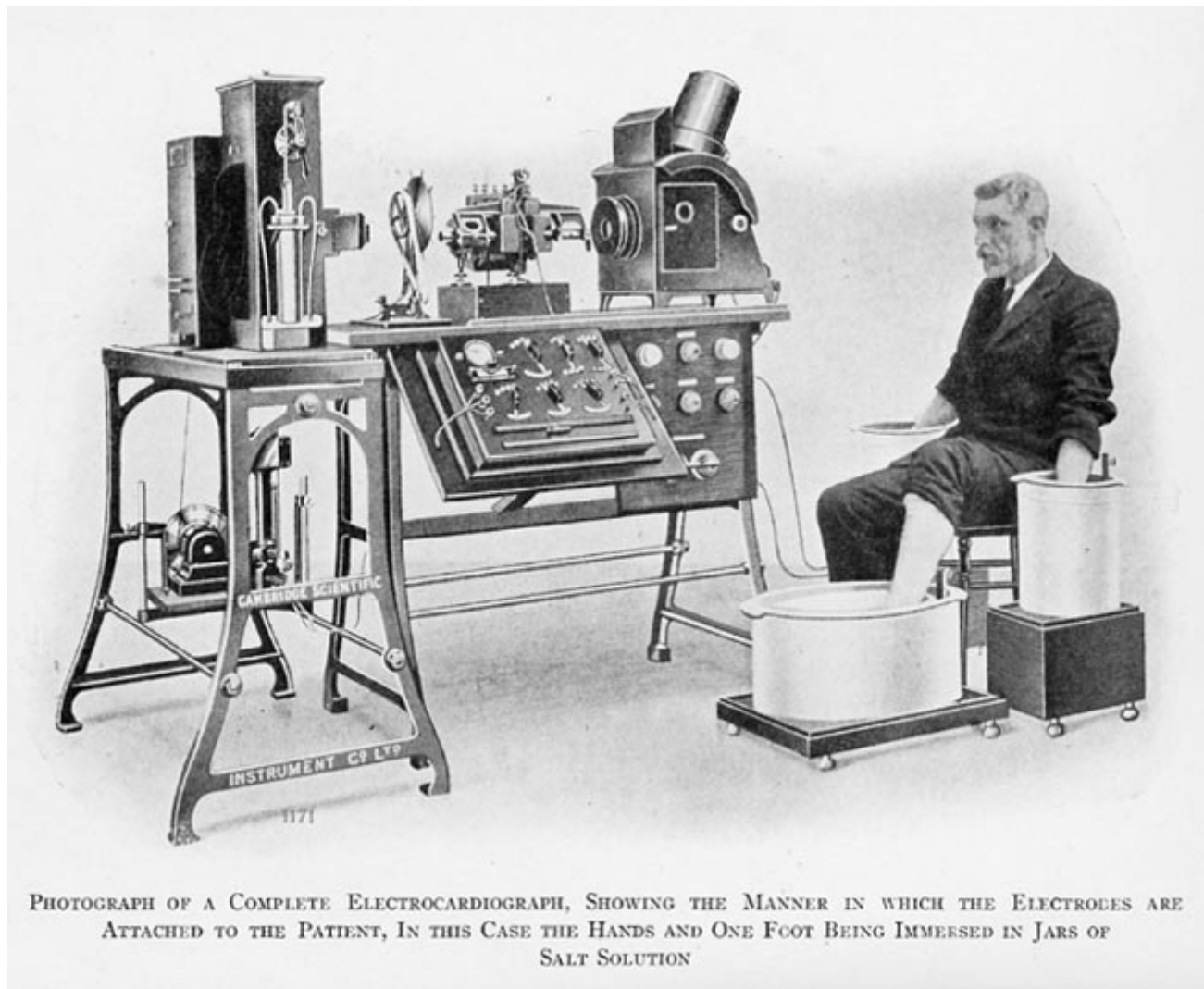


Kap. 11 Elektro Kardio Grafie







PHOTOGRAPH OF A COMPLETE ELECTROCARDIOGRAPH, SHOWING THE MANNER IN WHICH THE ELECTRODES ARE ATTACHED TO THE PATIENT, IN THIS CASE THE HANDS AND ONE FOOT BEING IMMERSSED IN JARS OF SALT SOLUTION



Ver canal | Ir a horario | Lineas 5 | Segs/linea 10 | Factor de amplitud



Latido [id=79]
Tipo= Indeterminado
Hora= 00:00:36
RR= 0.46 seg.
RR prom.= 0.46 seg.
FC= 131 bpm
[]
Onda Q ausente
Derivada ST= 0.0

Ver canales ... | Ir a horario | Escala (mV/cm) | Anotaciones | ECG filtrado | Datos etapa | << >> | Evento...

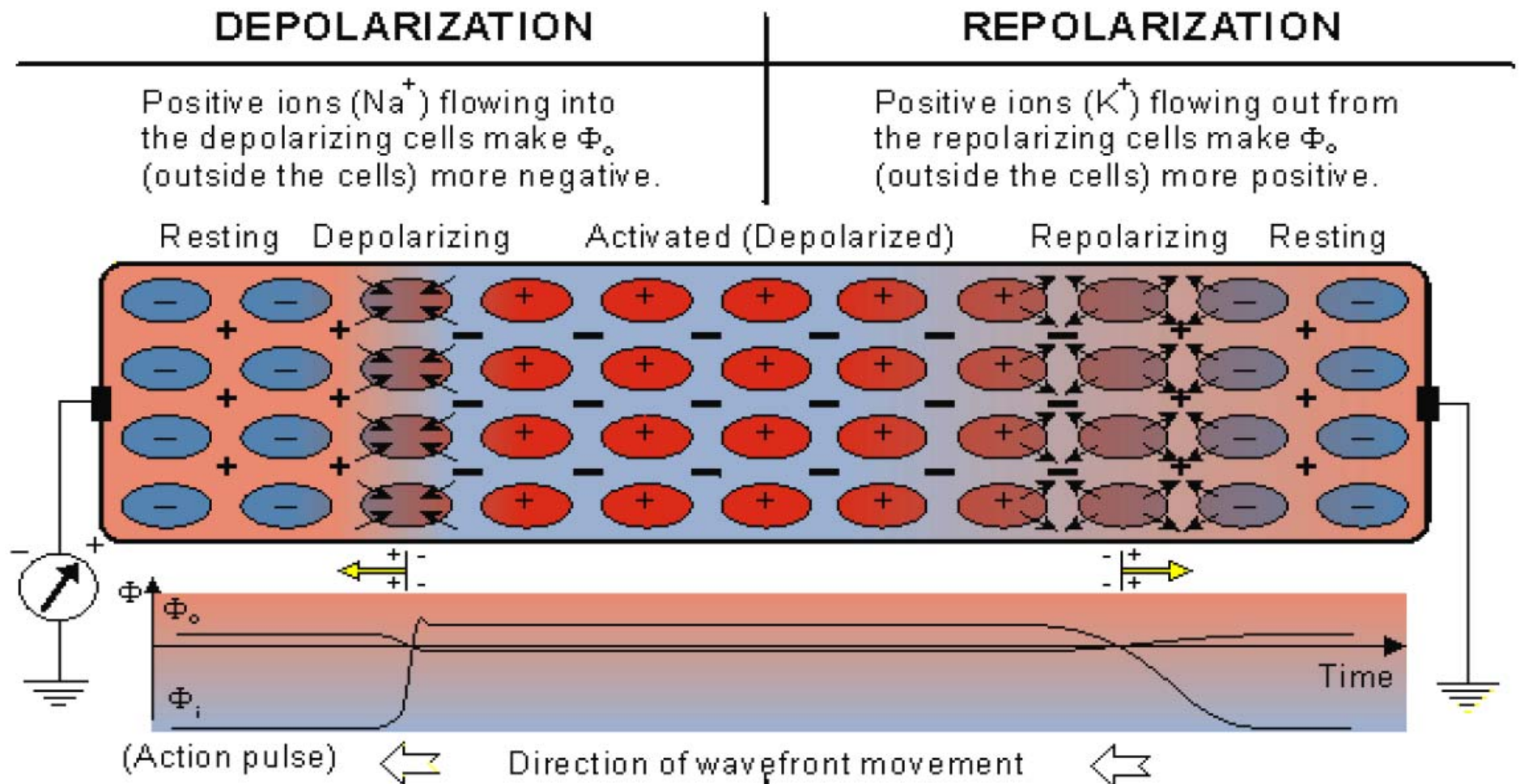


Bruce
Transcurrido 00:36
1 - Reposo
00:36 / 00:43

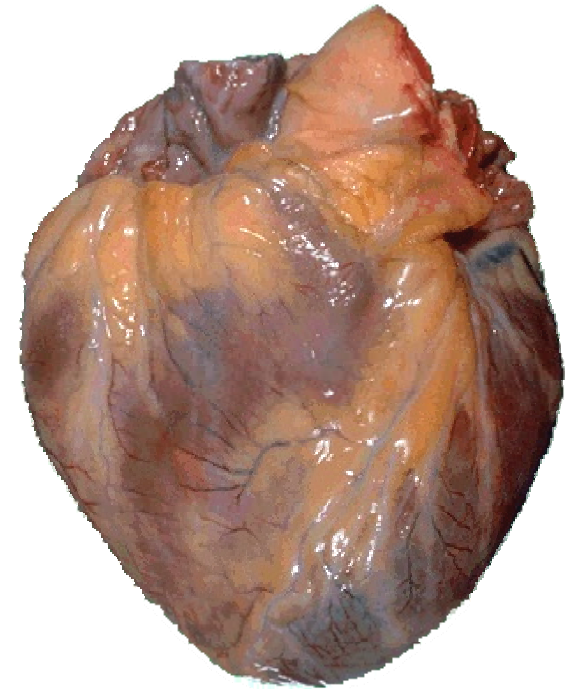
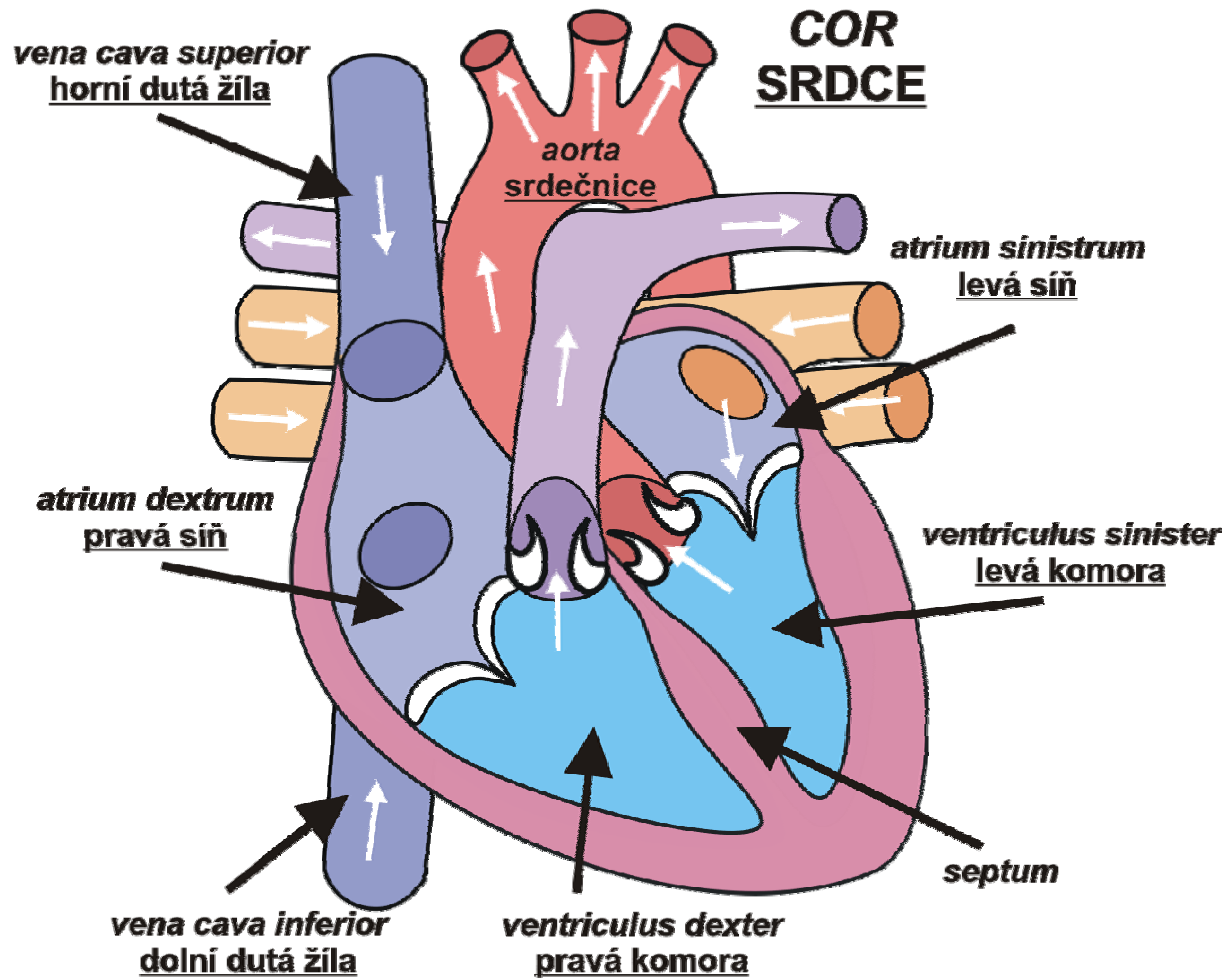
Velocidad 0.0
Inclinación 0.0
Carga —

FC **130**
Max. 182
0%
Submax. 171
0%

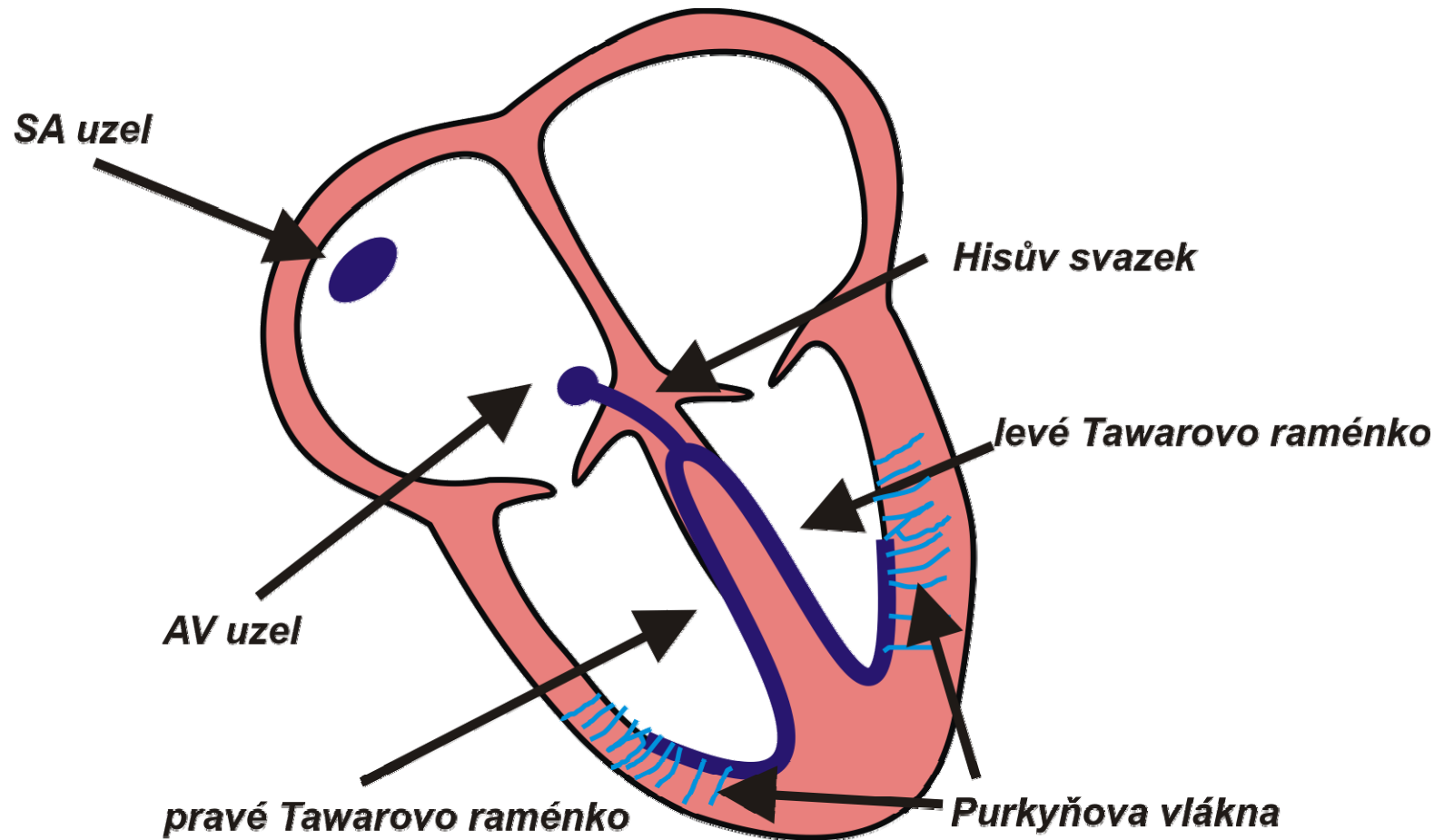
Vznik napětí mezi podrážděnou a klidovou tkání



Stavba srdce



Převodní systém



Převodní soustava

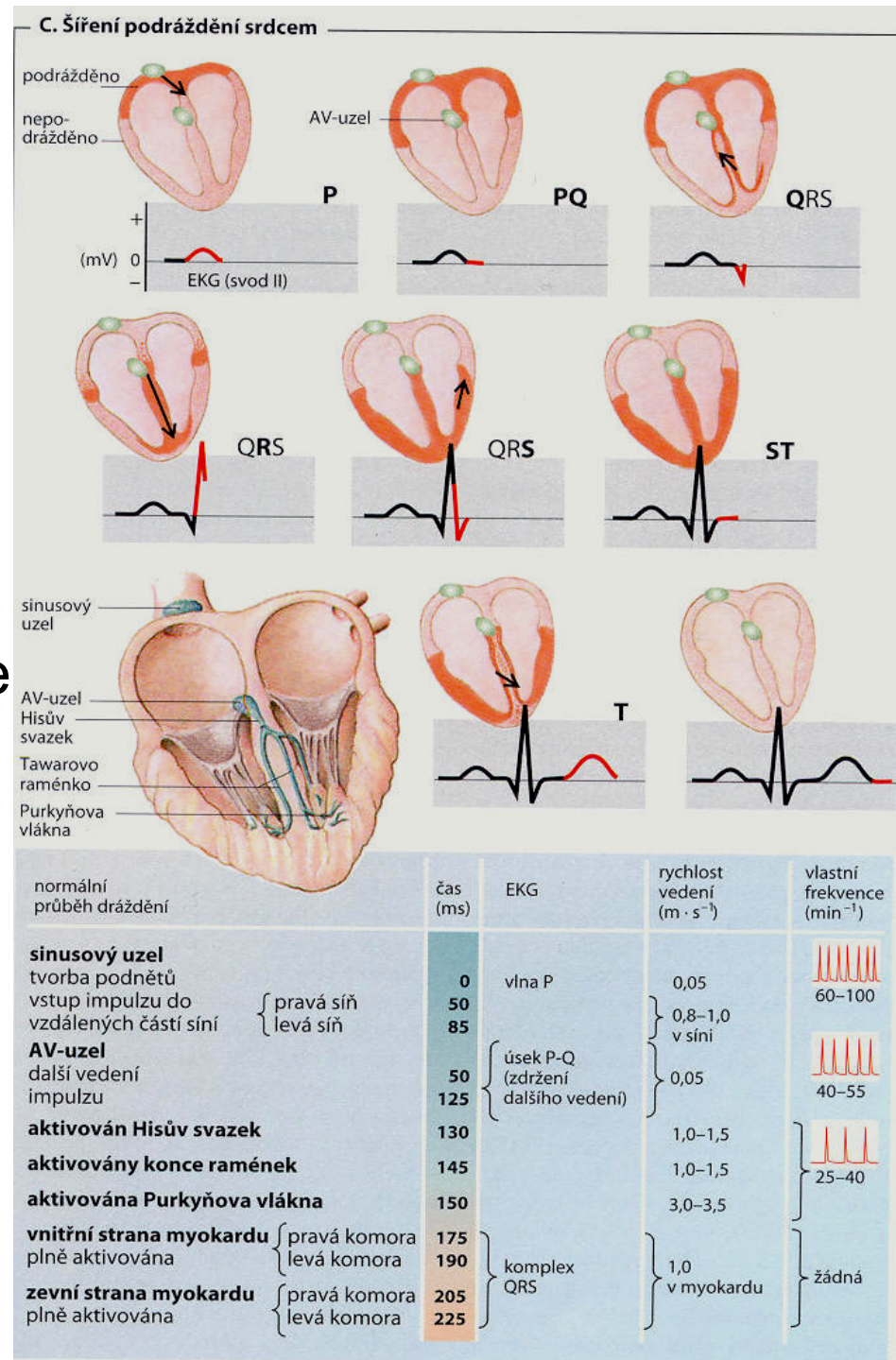
Vlna P – depolarizace

předsíní (síní)

Komplex QRS – depolarizace

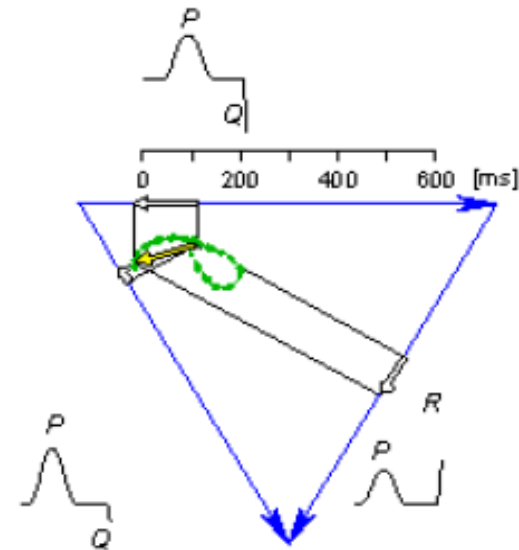
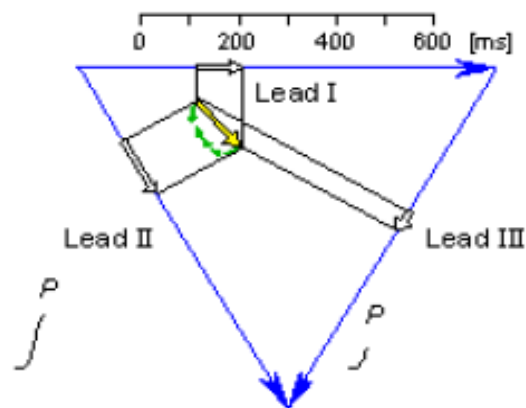
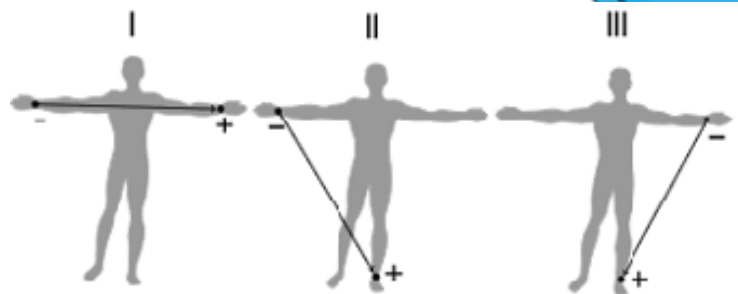
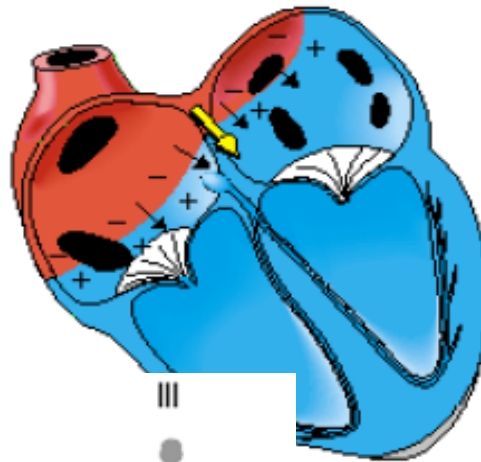
Komor

Vlna T – repolarizace komor



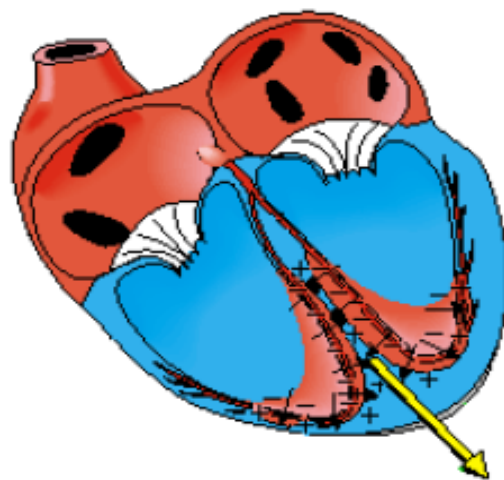
ATRIAL
DEPOLARIZATION
80 ms

SEPTAL
DEPOLARIZATION
220 ms

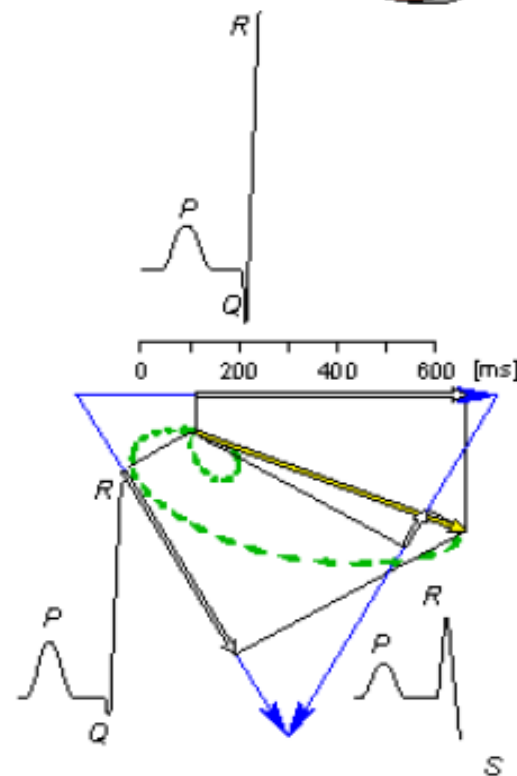
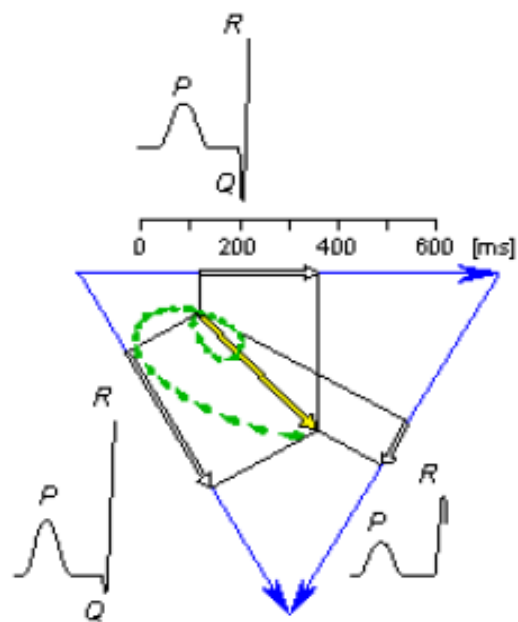
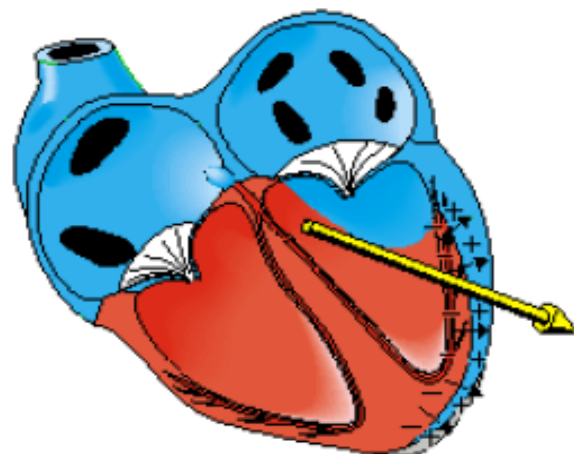


Einthovenův trojúhelník

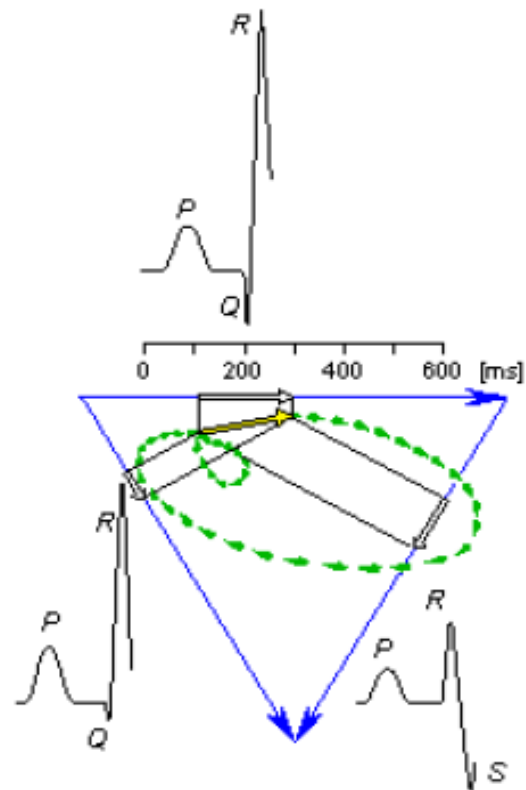
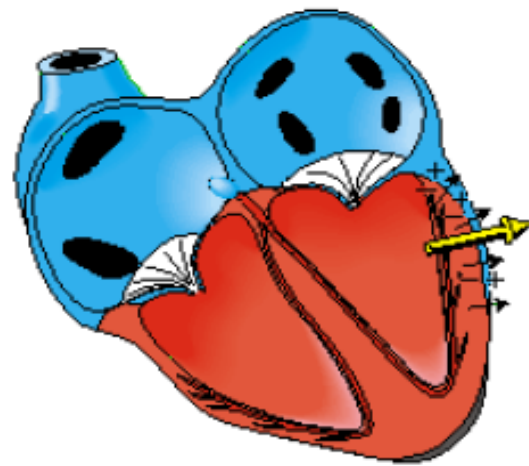
APICAL
DEPOLARIZATION
230 ms



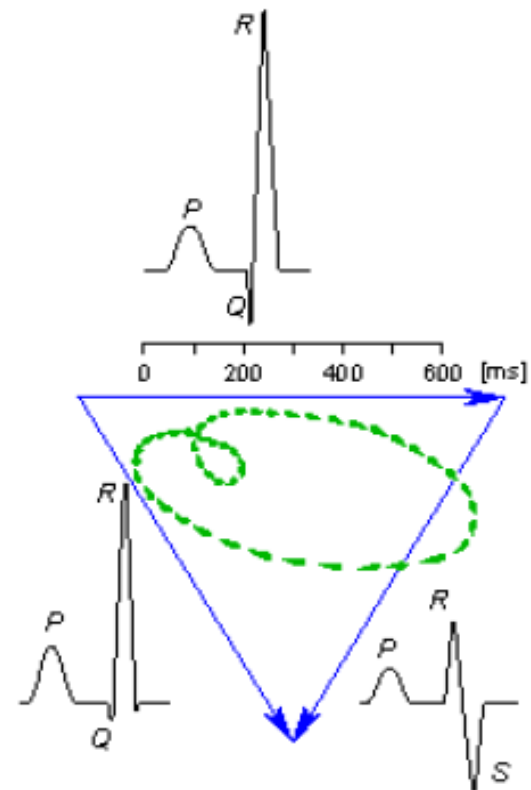
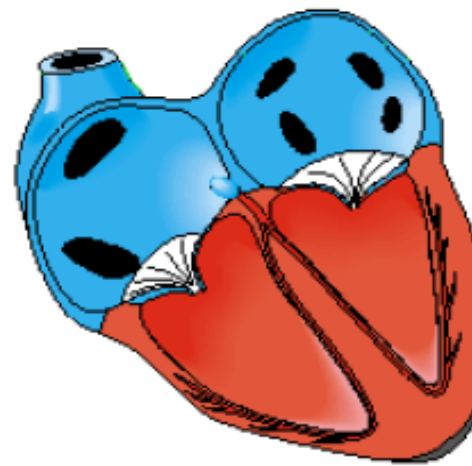
LEFT VENTRICULAR
DEPOLARIZATION
240 ms



LATE LEFT VENTRICULAR
DEPOLARIZATION
250 ms

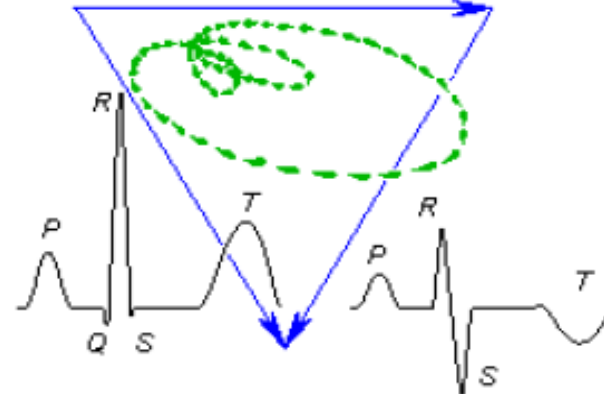
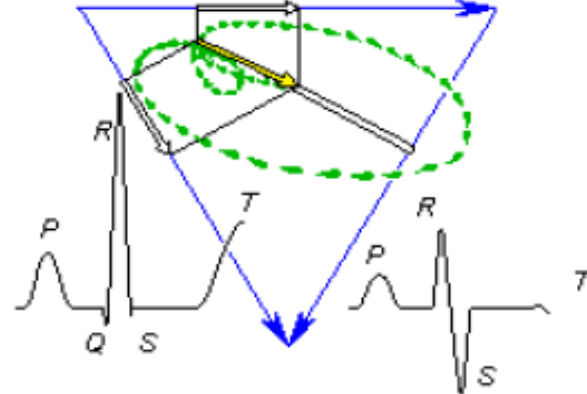
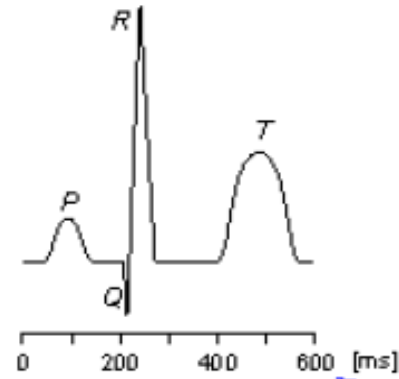
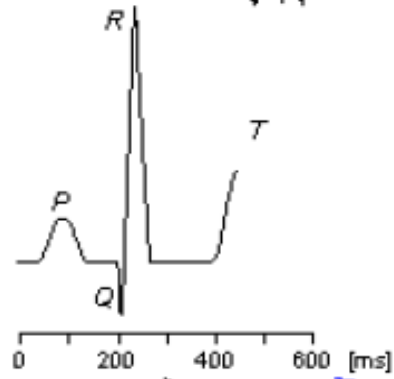
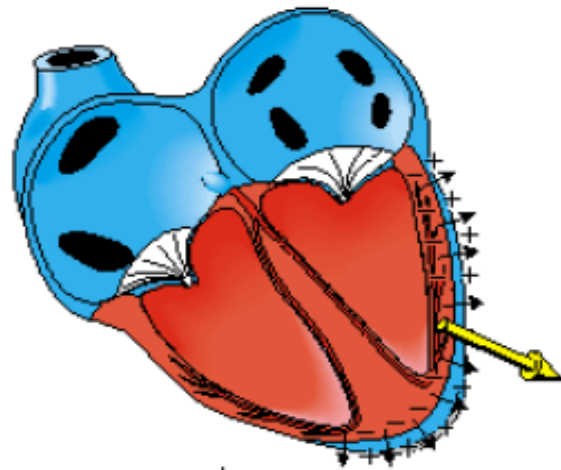


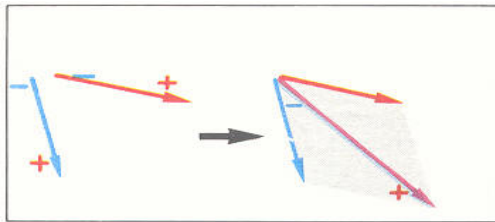
VENTRICLES
DEPOLARIZED
350 ms



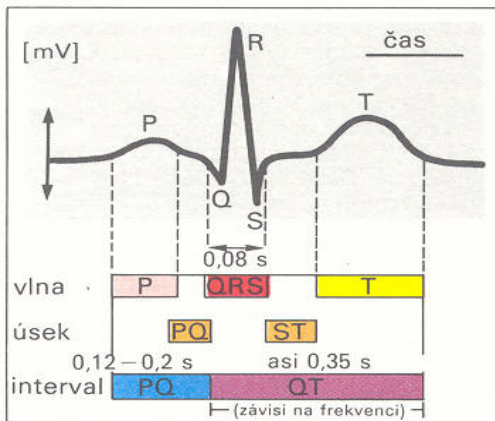
VENTRICULAR
REPOLARIZATION
450 ms

VENTRICLES
REPOLARIZED
600 ms

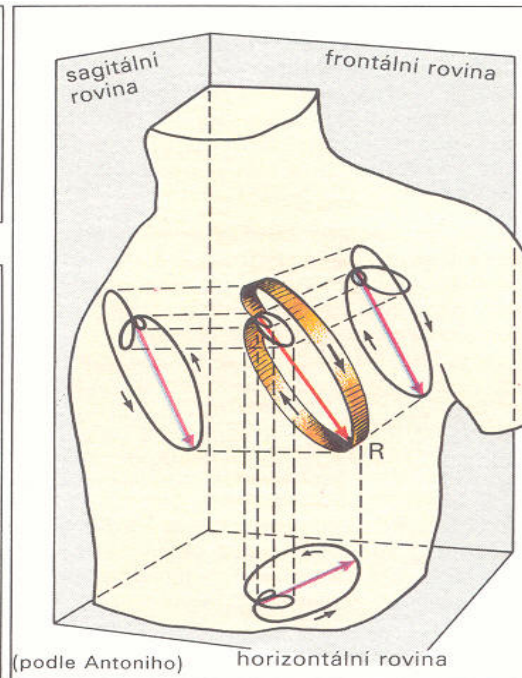




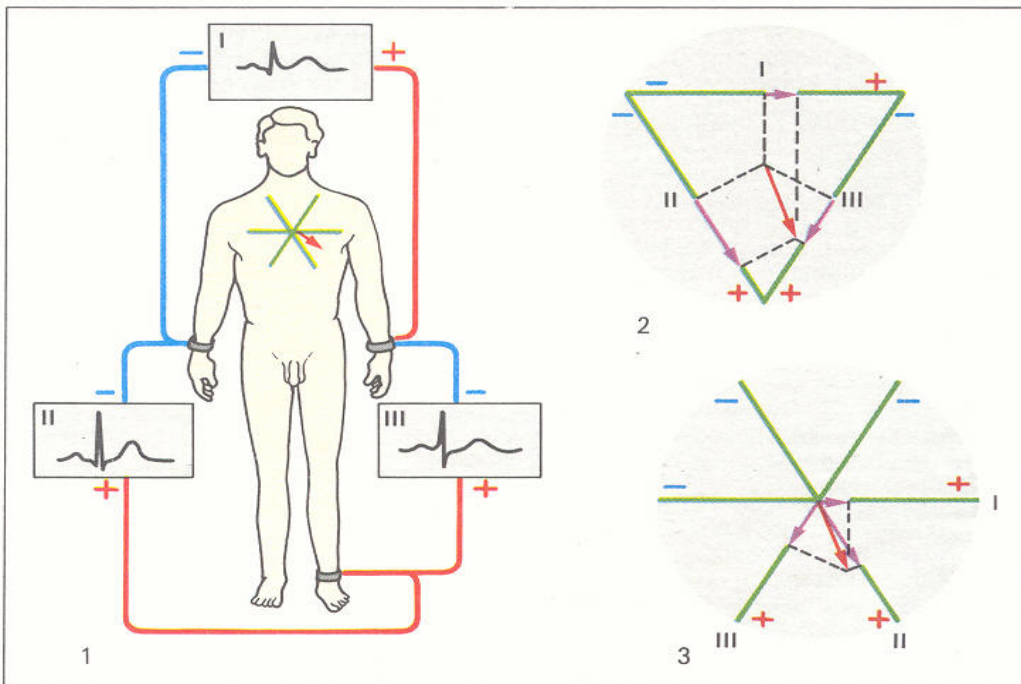
A. Vznik sumačního vektoru



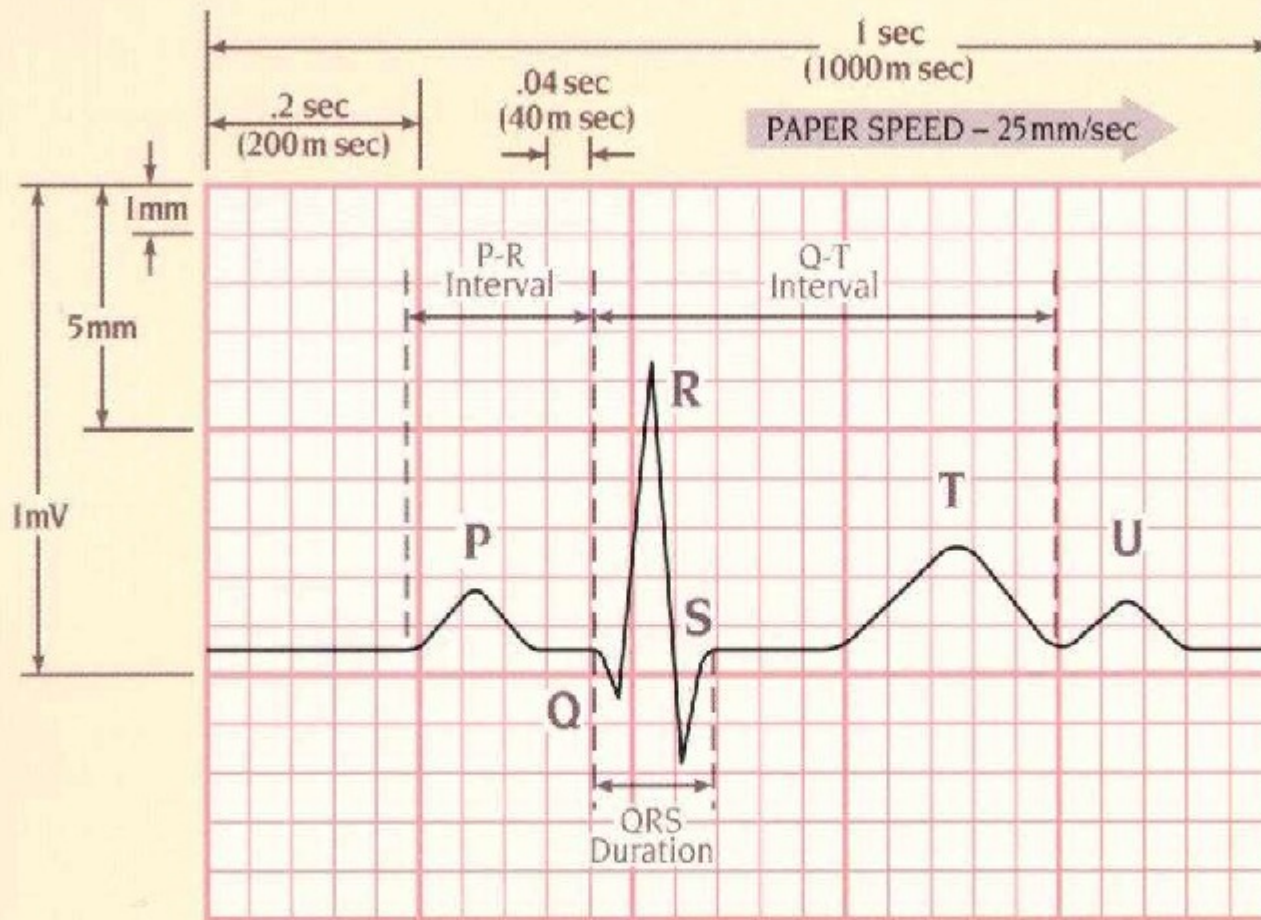
B. EKG křivka



C. Vektorová smyčka (vektor. kardiografie)

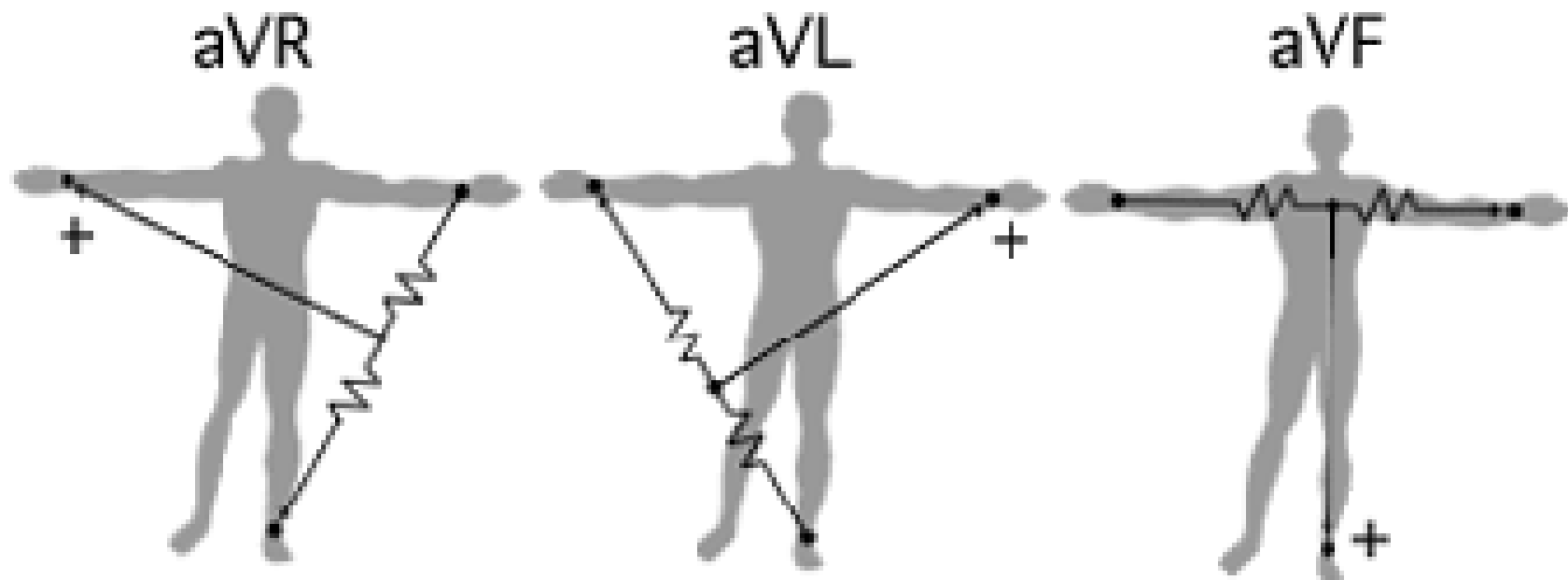
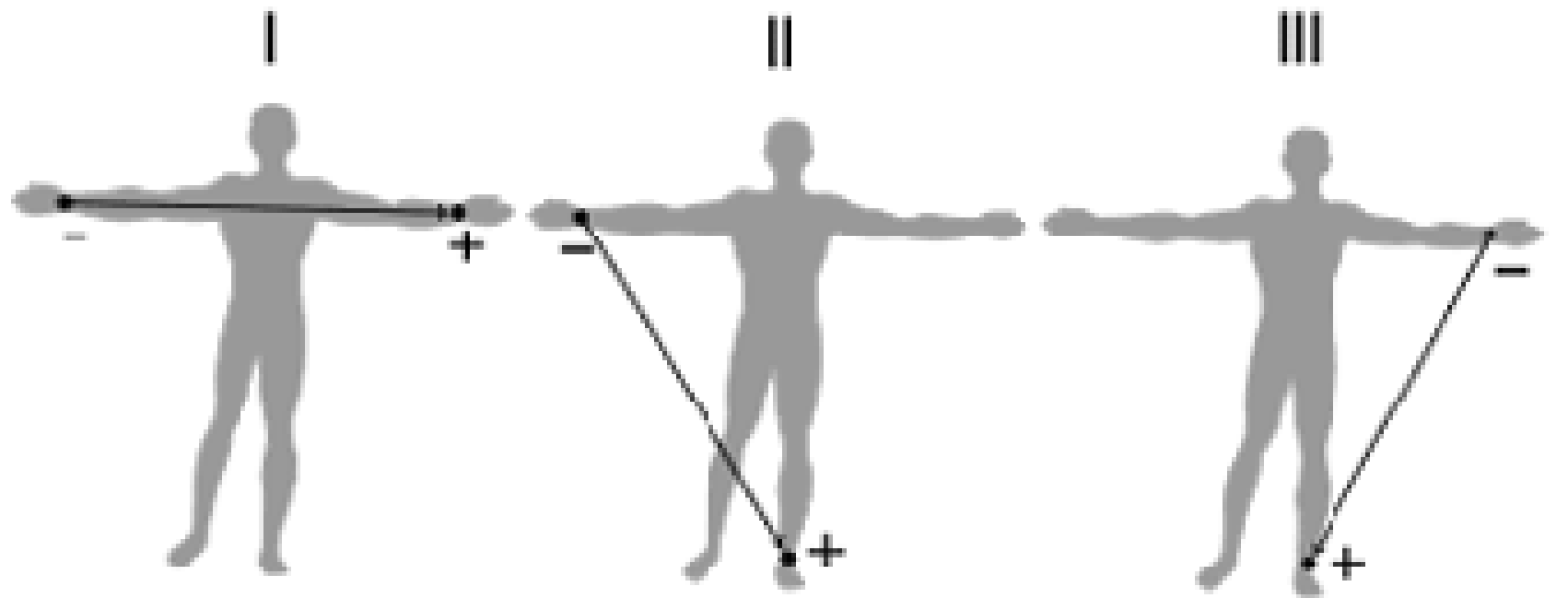


D. Bipolární svody I, II a III podle Einthovena



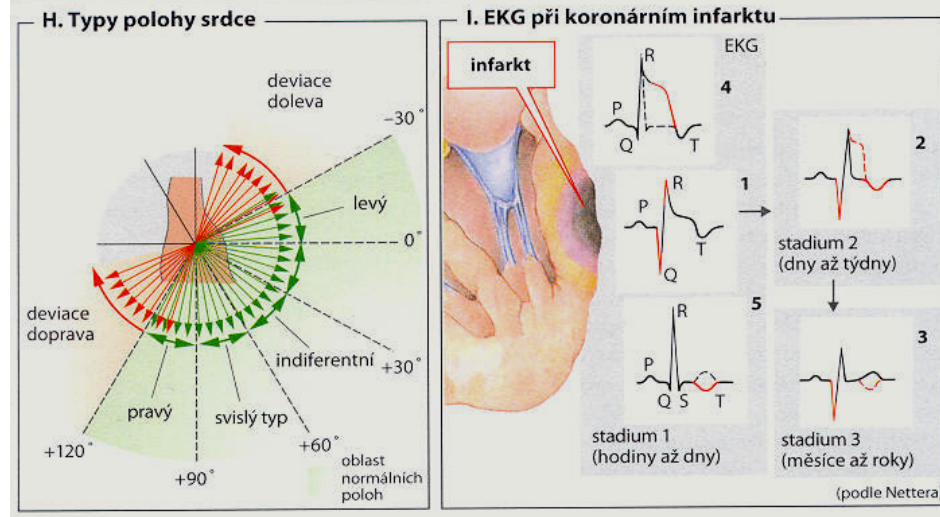
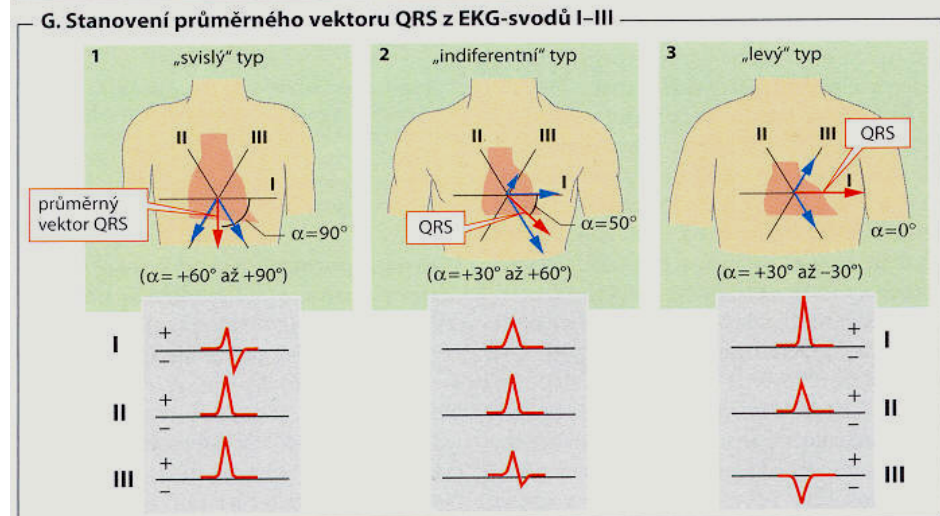
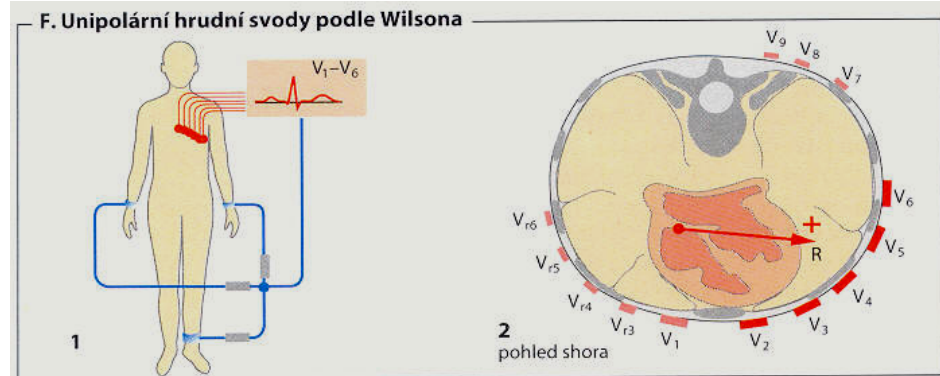
VERTICAL AXIS	1 Small Square = 1mm (0.1mV)
	1 Large Square = 5mm (0.5mV)
	2 Large Squares = 1mV

HORIZONTAL AXIS	1 Small Square = .04 sec (40 m sec)
	1 Large Square = .2 sec (200 m sec)
	5 Large Squares = 1 sec (1000 m sec)

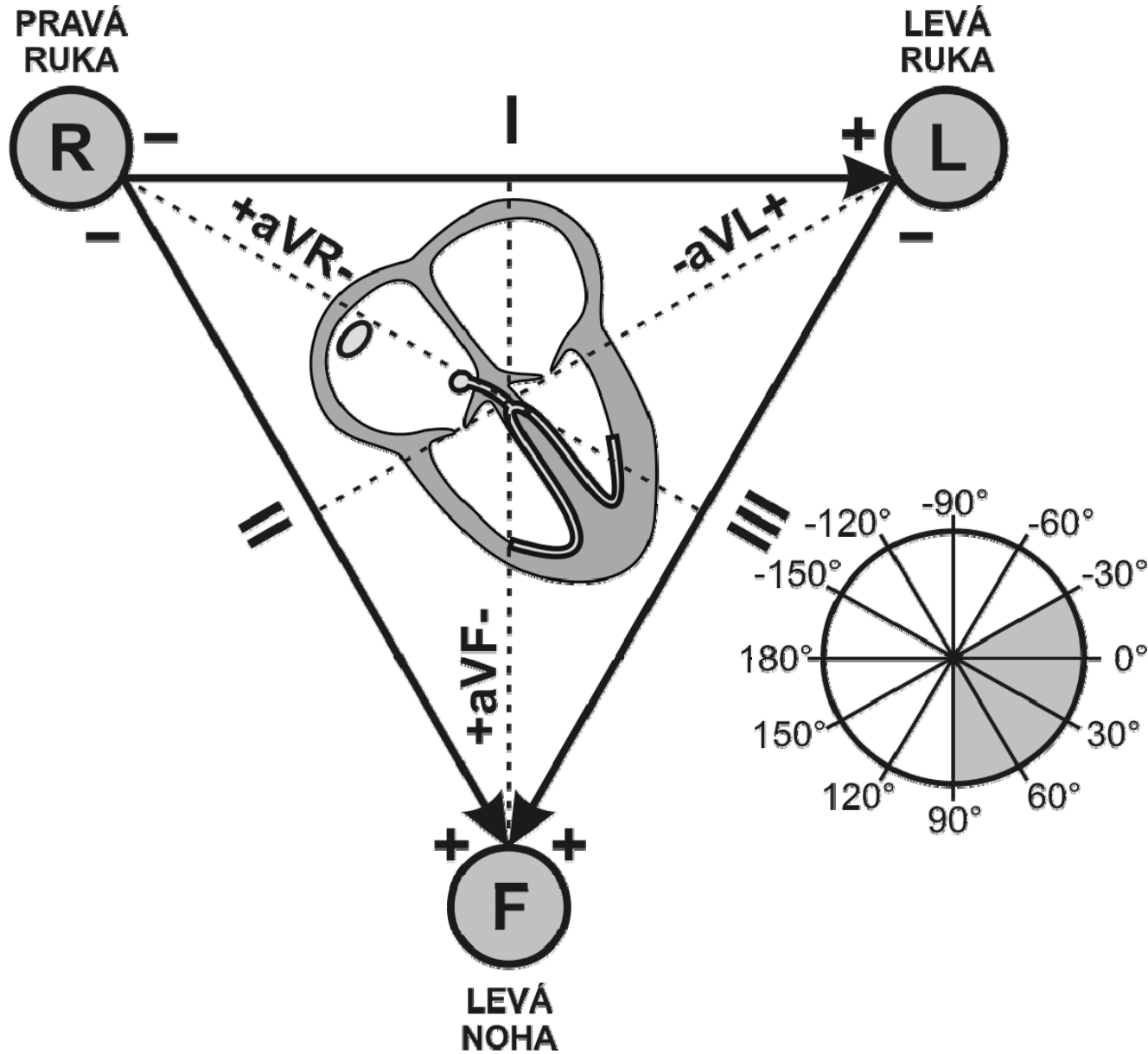




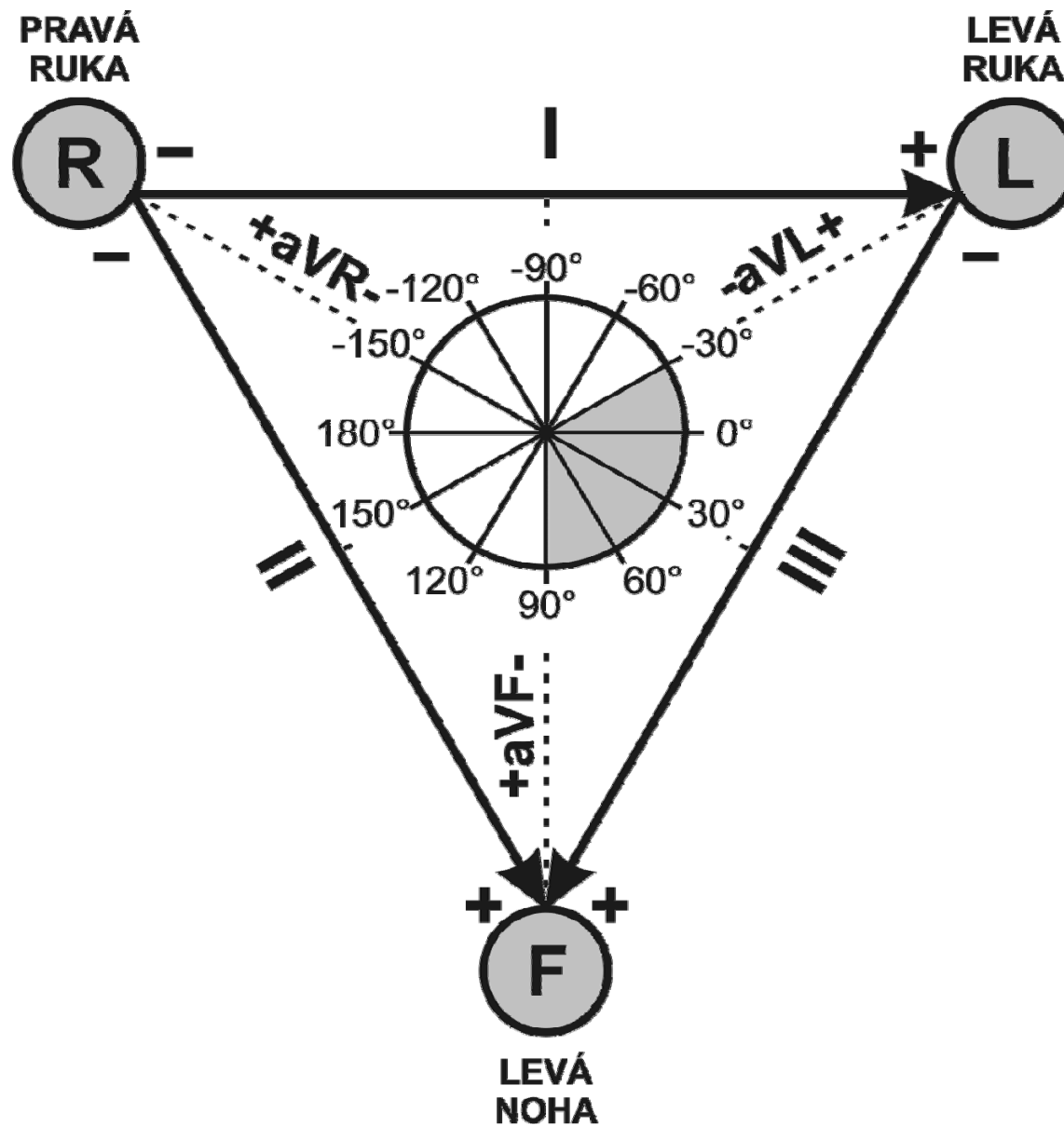
Elektrická srdeční osa

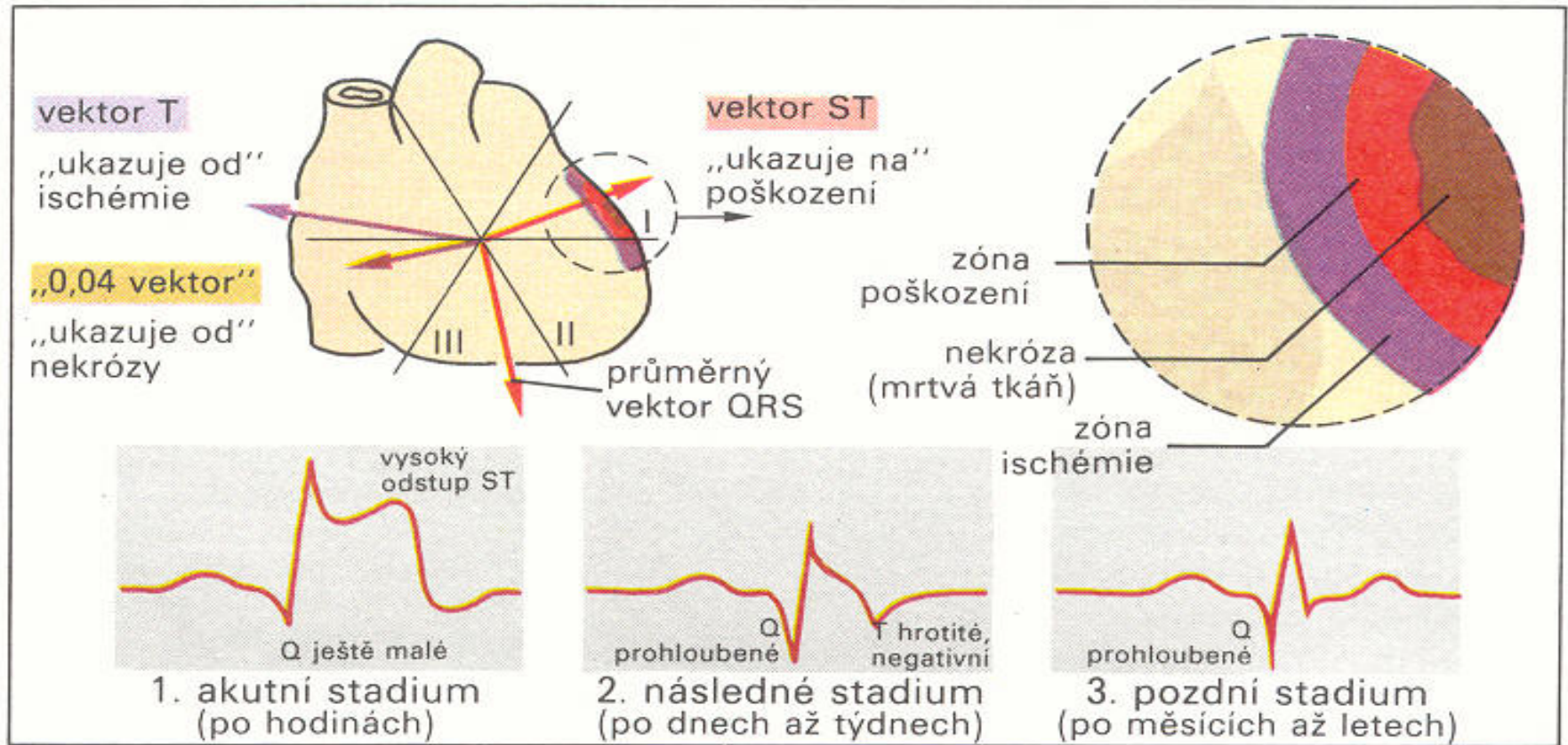


Einthovenův trojúhelník



Einthovenův trojúhelník





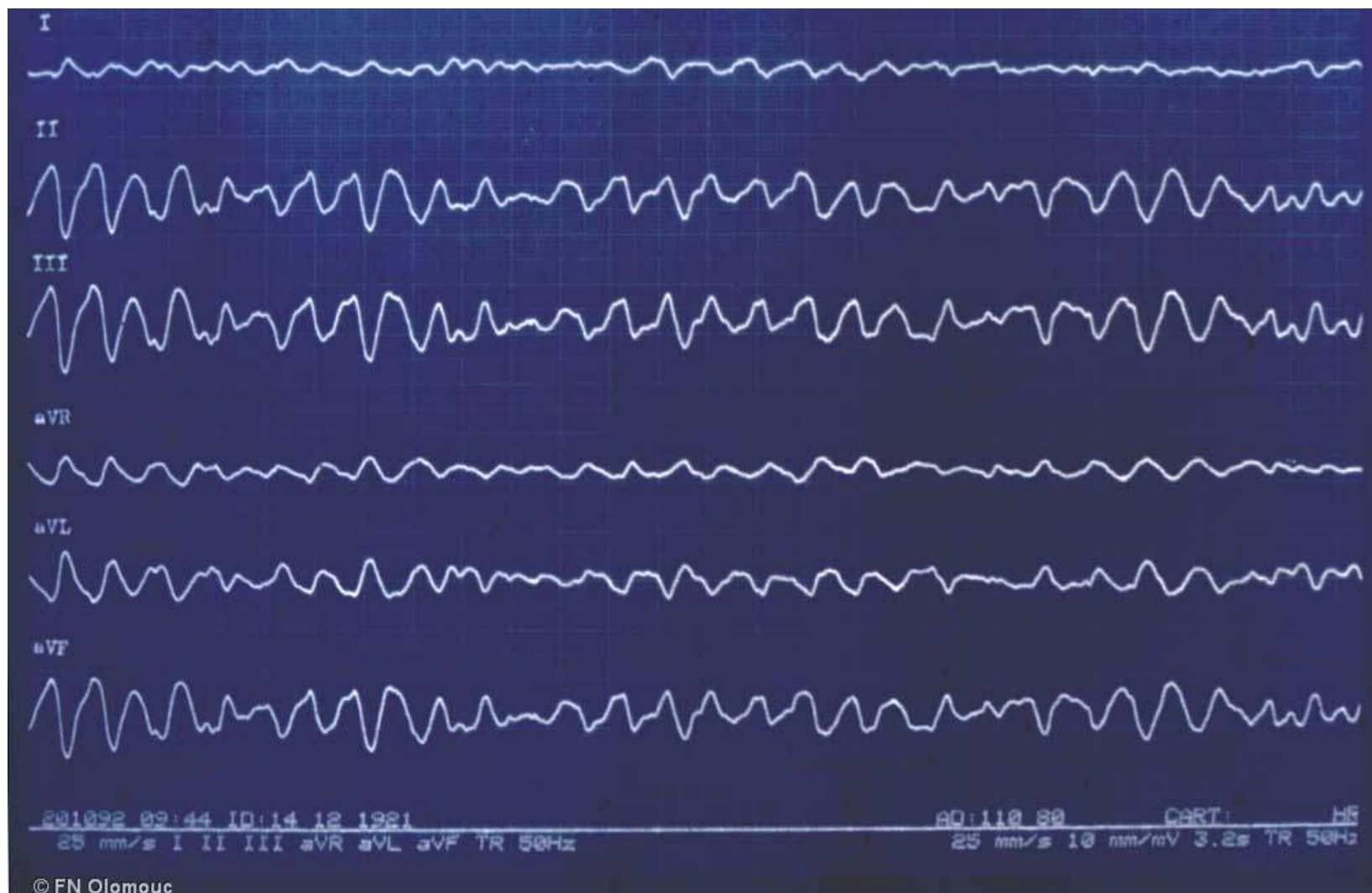
K. Infarkt myokardu

[Poruchy na webu](#)

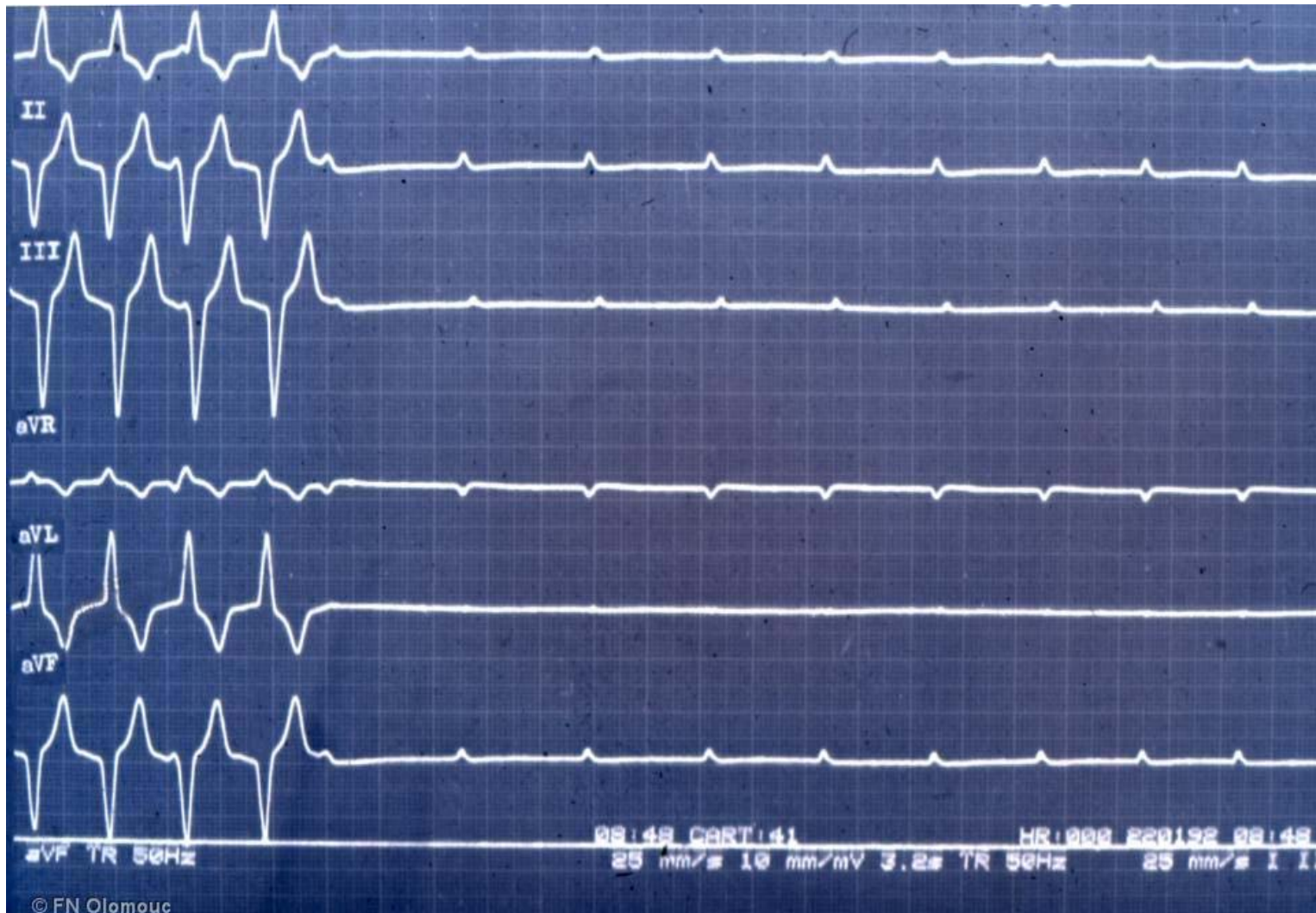
Flutter síní



Fibrilace komor



Zástava komor



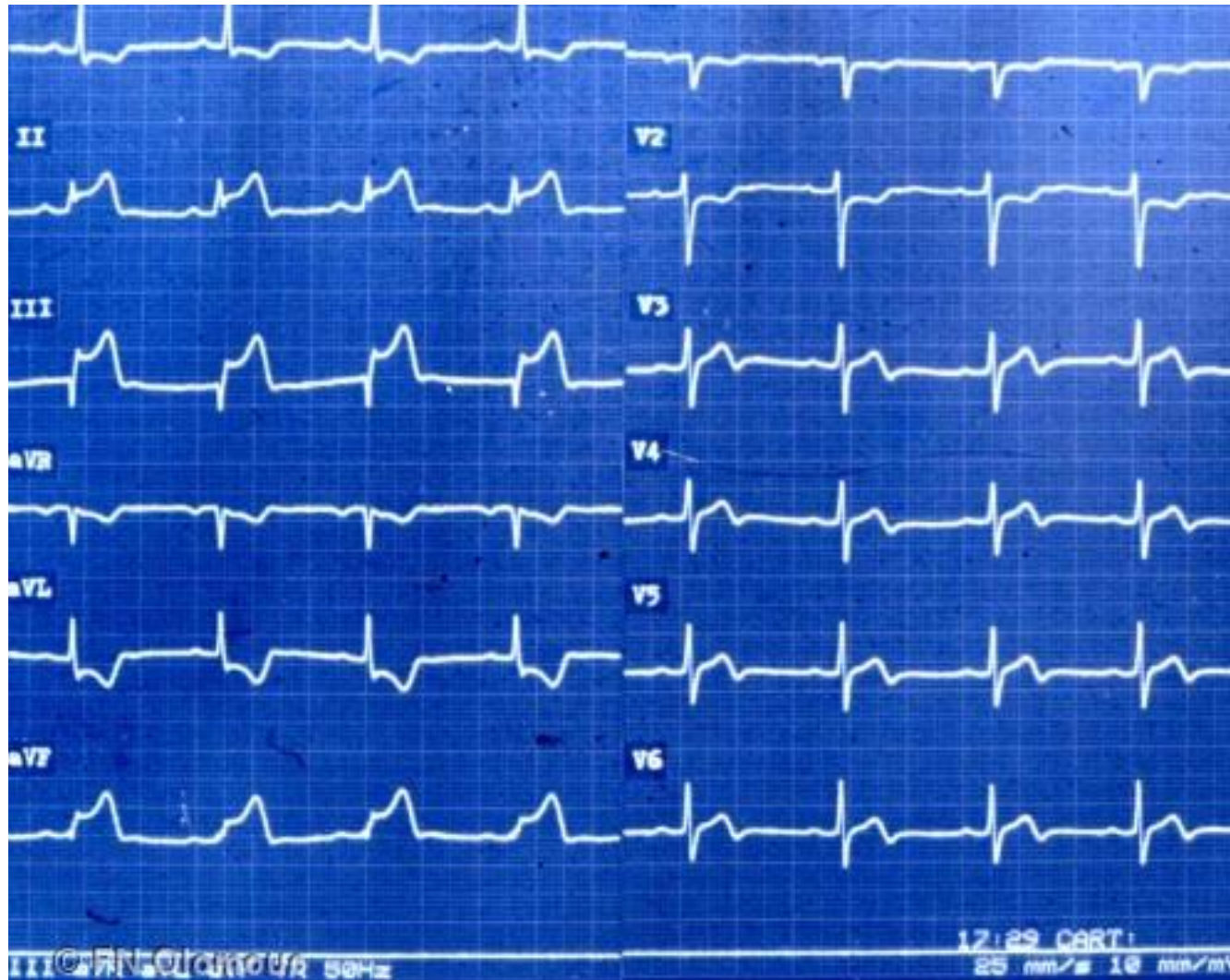
Infarkt Myokardu

- onemocnění myokardu způsobené ucpáním věnčitých tepen
- myokard tak nemůže být zásobován kyslíkem
- po několika hodinách vznikají nekrózy – jedná se o ireverzibilní proces
- jestliže včasné obnovíme prostupnost koronálních tep a tím zásobování myokardu, nekrózy se nevyvinou

Na obrázku vidíme řez srdcem v transversální rovině (je vidět pravá a levá komora). Komorový myokard je postižen infarktem. Rozsáhlá nekróza tkáně se jeví jako světlejší místa ve svalovině. Jedná se o rozsáhlou přední jizvu; postižena je celá tloušťka stěny.



IM akutní



IM chronický

