Lab #11
Human Cardiovascular Function and Respiratory Function

Material:
1. Electrocardiograph
2. Sphygmomanometer
3. Stethoscope
4. Pneumonometer
5. Transducer

Procedure:
1. Auscultation of heart and respiratory sounds;
2. Electrocardiographic examination;
3. Blood pressure determination;
4. Observation of human respiratory movements;
5. Measurement of vital capacity;
5. Electrocardiogram (ECG/EKG)

- **Lead I**: RA to LA
- **Lead II**: RA to LL

**Limb leads**

- **P wave**: Atrial depolarization
- **PR segment**: AV nodal delay
- **QRS complex**: Ventricular depolarization
- **ST segment**: Plateau phase
- **T wave**: Ventricular repolarization

Einthoven's triangle

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**NATURAL RATE AND RHYTHM**

- Normal sinus rhythm
- Sinus bradycardia
- Sinus tachycardia
- Atrial fibrillation

**ABNORMALITIES IN RHYTHM**

- Premature ventricular contraction
- Ventricular tachycardia
- Complete heart block

*Reproduced from an atlas of electrocardiography by Robert G. Wiggers*