

Name:
Group: GM

School year:
Date of measurement:

Report

Topic: Modelling of the vital signs

Principle: (indicated in the instructions)

Exercise: Based on the values of heart rate, blood pressure, respiratory rate, ECG and RESP curves identify the simulated conditions: normal, hypertension, hypotension, sinus bradycardia, sinus tachycardia, ventricular fibrillation (heart attack) and asystole. Write down the heart rate, blood pressure, respiratory rate and draw the record of ECG and RESP waveforms

Instrumentation: vital signs simulator, multi-parameter patient monitor, bipolar leads, blood pressure cuff, and mandrel.

Procedure: (indicated in the instructions)

Table: Predefined simulated values of the patient conditions

| SIMULATED PARAMETER (patient monitor) | simulated values | | | | | | |
|---|------------------|-------------|--------------|-------------|-------------|--------------|----------|
| | normal | hypotension | hypertension | bradycardia | tachycardia | heart attack | asystole |
| ECG Rate [bpm] | | | | | | | |
| Respiration Rate [bpm] | | | | | | | |
| NIBP [mmHg] | | | | | | | |

Record: ECG and RESP waveforms

Conclusion: