Name: School year:
Group: GM, DM   Date of measurement:

Report

Topic: The use of ultrasound in medicine I

Exercise 1: Measure the blood flow velocity in the human artery (Artery carotis). Determine:

v_1–the systolic velocity,v_2–the diastolic velocity, Δv–velocity between the points of measurement, **PI**–the pulsatility index, **RI**–the resistative index, **PSV**–the threshold value of systolic velocity, **EDV**–the velocity at the end of diastolic, **MnV**–the mean velocity, **FlowT**–the flow time.

Than determine their average.

Devices and implements: ALOKA ProSound SSD-350, gel.

Procedure: according to the instructions

Measured values and calculations:

	For the interval 1	For the interval 2	Average
v_1	[cm/s]	[cm/s]	[cm/s]
v_2	[cm/s]	[cm/s]	[cm/s]
Δv	[cm/s]	[cm/s]	[cm/s]
v_1/v_2			

	For the interval 1	For the interval 2	Average
PI			
RI			
PSV	[cm/s]	[cm/s]	[cm/s]
EDV	[cm/s]	[cm/s]	[cm/s]
MnV	[cm/s]	[cm/s]	[cm/s]
FlowT	ms	ms	ms

Exercise 2: Listen to the Artery carotis and Vena carotis and differentiate their sounds.

Observation:

	The sound:
Artery carotis	
Vena carotis	

Conclusions and commentary: