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Analyzing the heart with EKG Weiner, Tony Tufano

Group Names

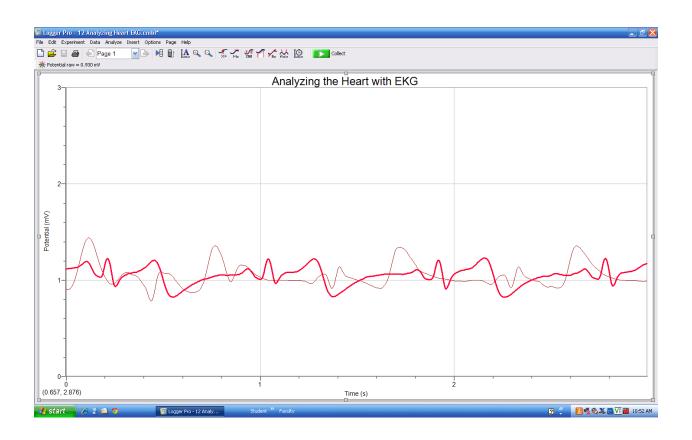
Table 1

Interval	Time(s)	Heart Rate(bpm)	73.2 BEATS PER MIN
P-R	0.41-0.55		
QRS	0.55-0.63		
Q-T	0.55-1.32		
R-R	0.59-1.76		

Table 2 Standard Resting Electrocardiogram Interval Times

P-R interval	0.12 to .20 s			
QRS interval	Less than 0.12			
Q-T interval	0.3-0.4 s			

Graphs with Descriptions



Data Analysis

1. Remember that a positive deflection indicates electrical activity moving toward the green EKG lead. Examine the two major deflections of a single QRS complex (R wave and S wave) in your EKG tracing from Part I of this experiment. According to this data, does ventricular depolarization proceed from right to left or left to right? How does your tracing from Part II confirm your answer?

2. Health-care professionals ask the following questions when interpreting an EKG: □ Can all components be identified in each beat?

□ Are the intervals between each component and each complex consistent?

□ Are there clear abnormalities of any of the wave components?

Using these questions as guides, analyze each of the following three-beat EKG tracings and record your conclusions in Table 3 (indicate presence or absence of the P wave, and whether other intervals and/or shapes are normal or abnormal). The first analysis (a) is done for you.



		1								•	
P Wave		2	PR interval		QRS Interval		QRS Shape		TWave Shape		
ECG	Beats	Pres.	Abs.	Nml	Abs./Abn	Nml	Abs./Abl	Nml	Abn.	Nml	Abs./Abn.
a	1	Х		Х		Х		Х		Х	
	2	Х		Х		Х		Х		Х	
	3	Х			Х		Х		Х		Х
	1	Х		Х		Х			Х	Х	

	2									
b	2	Х		Х	Х			Х	Х	
	3	Х			Х			Х	Х	
С	1		Х		Х			Х	Х	
	2		Х		Х			Х	Х	
	3		Х		Х			Х	Х	
d	1	Х			Х			Х	Х	
	2	Х			Х			Х	Х	
	3		Х		Х			Х		Х
	1		Х		Х			Х	Х	
е	2	Х			Х			Х	Х	
	3	Х			Х			Х	Х	
	1	Х			Х			Х	Х	
f	2	Х			Х			Х	Х	
	3	Х			Х			Х	Х	
g	1	Х			Х		Х		Х	
	2	Х			Х		Х		Х	
	3	-	-		-		-	-	-	-
h	1	Х			Х				Х	
	2	Х			 Х					Х
	3	-	-		-	-	-	-	-	-