

GROUP NO: 1

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OBJECTIVE

To demonstrate the effect of vagal excitation on the cardiac activity.

PRINCIPLE

The heart's mechanical activity is recorded after an electrical stimulus is applied on the vagus nerve.

METHODOLOGY

1. Observe the normal cardiac activity for 8-10 secs
2. Observe the cardiogram following the 2-3 sec vagal excitation with a rapid, successive stimuli
3. Observe the cardiogram after a longer vagal excitation with rapid, successive stimuli

DISCUSSION QUESTIONS

1. Describe the changes in the cardiac activity after the application of rapid, successive stimuli for 2-3 sec on the vagus nerve.

after the rapid stimulation of the vagus nerve, the cardiac activity
decreased and there was a small pause on the diastole of the
heart.

2. Describe the changes in the cardiac activity after prolonged application of rapid, successive stimuli on the vagus nerve.

after the application of prolonged stimulus on the vagal nerve, there
was a decrease in the cardiac activity and a diastolic pause. then the
cardiac activity disappeared but after a few seconds, it resumed its
movement.

3. Is vagal influence on the heart sympathetic, parasympathetic or both? Why?

the vagal influence is parasympathetic in function because
parasympathetic nervous system is responsible for the normal
autonomic functions of the body such as the heart rate.

VPHY 50: General Physiology Laboratory Exercises
