SUMMARY OF THE FINDINGS

In summary, the findings of the present study clearly demonstrated that:

1. Cortical stimulation of the cerebellar vermis produced an increase in the unitary neuronal activities of the Purkinje cells, a decrease in the unitary neuronal activities of the fastigial nucleus as well as the paramedian reticular nucleus, concomitant with a decrease in the aortic blood pressure, changes in the respiratory movements and no significant change in the heart rate.

2. Stimulation of the fastigial nucleus produced an increase in the unitary neuronal activities of the paramedian reticular nucleus concomitant with an increase in the aortic blood pressure, markedly increase the inspiratory muscle tone and slightly slwered the heart rate.

3. Stimulation of the paramedian reticular nucleus, especially in the deeper-medial region, produced an increase in the aortic blood pressure and markedly increase the inspiratory muscle tone similar to the fastigial nucleus stimulation.

4. HRP injection demonstrated that the fastigial nucleus projects their axons to the paramedian reticular nucleus, and the paramedian reticular nucleus projects to the preganglionic sympathetic neurons located in the intermediolateral nucleus of the thoracic spinal cord.
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