THE AUGMENTED SALIVARY SECRETION (Abstract of Paper).—
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- 1. An augmented secretory effect from stimulation of the sympathetic nerve after previous stimulation of the same nerve and massage of the submaxillary gland in dog, was demonstrated.
- 2. Contraction of the Warthon's duct and its chief divisions, in the dog as well in as in the cat, is excluded as causative of the phenomenon of augmented secretion.
- 3. The volume-time curves and, derived from them, the rate curves of the salivary secretion show that different processes—secretory and motor—may occur in the submaxillary gland under stimulation of the *chorda tympani* and sympathetic nerves.
- 4. The chorda tympani nerve, of a dog and a cat, contains only secretory fibres. The sympathetic nerve contains secretory and also motor fibres for the contractile elements of the submaxillary gland.
- 5. A view is advanced that there are two phases in the augmented sympathetic secretion,—a mechanical phase due to the action of motor fibres in the sympathetic nerve, and a secretory phase which appears as a result of previous stimulation of either nerve.