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Responsible Investigators: Joel J. Pressman, M.D.,
William P. Longmire, Jr., M.D.

University Department: Surgery

Financial Support 1954-55: PHS \$12,000.00

Title of Project: Trachea Experiments.

The aim of the project is to attempt to find a method of (1) surgically reconstructing segments of the windpipe removed for cancer and (2) exploring, from the anatomical standpoint, methods for more completely removing areas involved in the spread of cancer of the head and neck.

The approach has been by dog experimentation and cadaver dissection.

During the past year, an operation has been described which enables one to remove almost the entire larynx and reconstruct it to permit normal breathing without wearing a breathing tube and to retain the normal mechanism of speech. A new technique was also described for widening the surgical excision of cancer that has spread to the neck. Experiments dealing with reconstruction of the windpipe itself are not yet successful, in that an adequate degree of rigidity of newly-formed windpipes has not resulted from any of the techniques used.

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Pressman & Longmire²

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Publications:

- Pressman, Joel J. Cancer of the Larynx. A.M.A.
 Arch. Otolaryng. 59:395-412, (April) 1954.
- Pressman, Joel J. Extended Retrohyoid Radical Neck
 Dissection for Cancer of the Oral Cavity. Surg. Gynec. &
 Obst. (in press).