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**Livingston KE (1953)**. Cingulate cortex isolation for the treatment of psychoses and psychoneuroses. Res Publ Assoc Nerv Ment Dis 31:374-8.

**Title pages**

*RESEARCH PUBLICATIONS*  
ASSOCIATION FOR RESEARCH IN  
NERVOUS AND MENTAL DISEASE

*World List Abbreviations: Res. Publ. Ass. nerv. ment. Dis.*

VOLUME XXXI

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PSYCHIATRIC  
TREATMENT

PROCEEDINGS OF THE ASSOCIATION

December 14 and 15, 1951

New York, N. Y.

WITH 49 ILLUSTRATIONS  
AND 62 TABLES

BIBLIOTH  
COLL. REG.  
MED. EDIN.

BALTIMORE

THE WILLIAMS & WILKINS COMPANY

1953

## SECTION VIII

### CHAPTER XXXI

# CINGULATE CORTEX ISOLATION FOR THE TREATMENT OF PSYCHOSES AND PSYCHONEUROSES<sup>1</sup>

KENNETH E. LIVINGSTON

In 4 separated cases in this series we carried out a control procedure in which the skin incision is made and the bone button removed but no cerebral lesion produced. Each of these patients was included in a group of four operated on at one time, three of whom had a standard anterior cingulate isolation. The four patients were carried as a group through the entire postoperative routine without knowledge on the part of the patients or other hospital personnel that these control patients had not been subjected to the complete surgical procedure. None of these patients showed even slight improvement during their period of control study and all were subjected to cingulate isolation one to three months later. This group serves to some extent as a control for factors other than the surgical lesion itself.

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