

THIRD EDITION
ASIAN EDITION

OPERATIVE NEUROSURGERY

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Preface to the Third Edition

THE THIRD EDITION contains several additions on the management of neurosurgical problems. Fourteen new plates have been added and seventeen plates have been altered. Anatomical descriptions have now been placed immediately next to the procedure in which they may be utilized. The introductory chapter of the book has been extensively rewritten.

In the section on the Head, the surgical management of parapituitary meningioma and meningiomas of the tentorium cerebelli has been described. A plate on microsurgery for acoustic neurilemoma is included. The placement of a Rickham tube has been added. A new summary plate of stereotactic procedures has been included. There is a plate on routes for angiography. Vertebral endarterectomy and vertebral subclavian transposition have been described. The management of aneurysms of the carotid siphon-posterior communicating artery, distal basilar artery, and posterior inferior cerebellar artery has been presented.

In the section on the Spine, we have illustrated anterior cervical disc exploration and fusion. Percutaneous high cervical cordotomy has been described.

In the section on Autonomic Nervous System, preganglionic upper dorsal sympathectomy has been deleted and replaced by a more extensive description of postganglionic upper dorsal sympathectomy.

In the section on Peripheral Nervous System, the surgical treatment of anterior scalene syndrome and cervical rib has been included. The use of microsurgery in neurolysis is shown.

Among the assistant authors we owe a debt of gratitude to two new contributors. Dr. Sean Mullan has contributed the material for the technique of percutaneous high cervical cordotomy and Dr. Raymond Sphire has written on anesthesia in neurosurgical procedures.

All in all, we feel that this new edition should be valuable to the neurosurgical resident and the practitioner of neurosurgery.

In the preparation of the present edition we owe a deep debt of gratitude to Mr. William Loechel, our artist, and Miss Annette Harrington, our secretary, for their ever ready participation and cooperation. Mr. Dick Hoover and The Williams & Wilkins Company have done their utmost to present our material as effectively as possible.

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Preface to the First Edition

IN THIS volume an effort has been made to give pertinent anatomic, diagnostic, and technical information in the execution of certain operative procedures in neurological surgery. In so far as possible, the method of consecutive pages of description and illustration has been used. The material has been divided into four parts; namely, head, spine, sympathetic nervous system, and peripheral nerves. The general subject of neurosurgery has been covered, but emphasis has been laid upon traumatic procedures in neurosurgery.

In the preparation of this book, use has been made of standard anatomical text books, including Gray's Anatomy, Grant's Anatomy, Anson's Anatomy, the Anatomic Volumes by Testut and Latarjet, the Cross-Sectional Anatomy of Eycleshymer and Schoemaker, the books on Peripheral Nerve Injuries by Stookey, Pollock and Davis, Haymaker and Woodhall, and many others. We have summarized in the form of diagrams and other illustrations the anatomic information pertinent to the operative procedure in question. Space has been utilized to describe anatomic structures, not necessarily related to the main theme under discussion. It is felt that these summaries may be of help to the neurosurgical resident, to the general surgeon who may do an occasional neurosurgical operation, as well as other neurosurgeons who may wish to familiarize themselves with the anatomy of the part in question.

Standard procedures have been presented. Procedures done in a special manner by neurosurgeons who have found certain abbreviations in technique to be of value, in their hands, are not discussed in this volume. A brief review of the historical development of some of the procedures is also given. It has been impossible to include all of the operative variations in technique pertinent to the management of certain conditions. As they become more standardized they will undoubtedly be discussed and described in the future.

This volume has been made possible through the work of many people, and an important member of this group is Miss P. M. LaRiviere, who illustrated the book in its entirety. The authors feel that she has been most accurate in her interpretation of the operative procedures discussed. The illustrations are diagrammatic. They are multiple action and multiple plane drawings rather than static photographic type of records. The illustrations should be used in conjunction with the description of the procedures. Secretarial work, proof reading, and the checking of the bibliography was aided

by Miss Helen Wacławek, Miss Madeleine Varani, Mrs. Chloe Brewer, Mrs. Jane Williams, and Miss Dorathea McCurdy. The use of the anatomical laboratories and dissection material was made possible through Dean Gordon H. Scott and Professor Ernest D. Gardner and this was of inestimable value in that almost all of the procedures were not only seen in the operating room but also dissected out in the Anatomical Laboratory. Much help was obtained in the dissections by a former resident in neurosurgery, Dr. Ralph E. Dawson.

E. S. G.
J. E. W.

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