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Preface

The investigation of the brain by means of ultrasound has acquired increasing importance in the last years because it permits insight into the spatial relationships within the intact human skull in a short time without endangering the patient. The road from the first ultrasonic investigations on the exposed brain to the detection of intracranial midline shifts on the intact skull, the registration of echo pulsations and recently, to ultrasonotomography has been a long one already. However, this development is by no means at an end.

Following the suggestion of numerous colleagues concerned with echo-encephalography in this country and abroad, the Neurosurgical Clinic of the University of Erlangen-Nuremberg organized an "International Symposium on Echo-Encephalography" on April 14th and 15th, 1967. Here there was an open exchange of experience on the results obtained up to the present. The limitations of the method and sources of error as well as the directions of future development of the ultrasonic echo procedure were discussed.

Experts from many countries contributed to the success of the symposium. The "Proceedings" survey the present stand of echo-encephalography in the entire world. Therefore it seemed reasonable to publish the papers in English in order to make them available to as many physicians as possible. We want to express special thanks here to MARGARETA LEWKE, M. D., Saskatoon, Saskatchewan, Canada, for the translation of the papers. To avoid continuous repetitions, a compilation of the nearly complete echo-encephalographic literature may be found at the end of the book.

That the symposium could be held in this form is due to the generous support of Siemens AG, Erlangen, as well as to the following firms: Pfrimmer, Schering, Hoechst, Wülfig, Merck, Byk-Gulden, Kleinknecht, Sandoz, Bayer, and Boehringer & Soehne.

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Erlangen and Cologne, Spring 1968

E. KAZNER · W. SCHIEFER · K. J. ZÜLCH

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