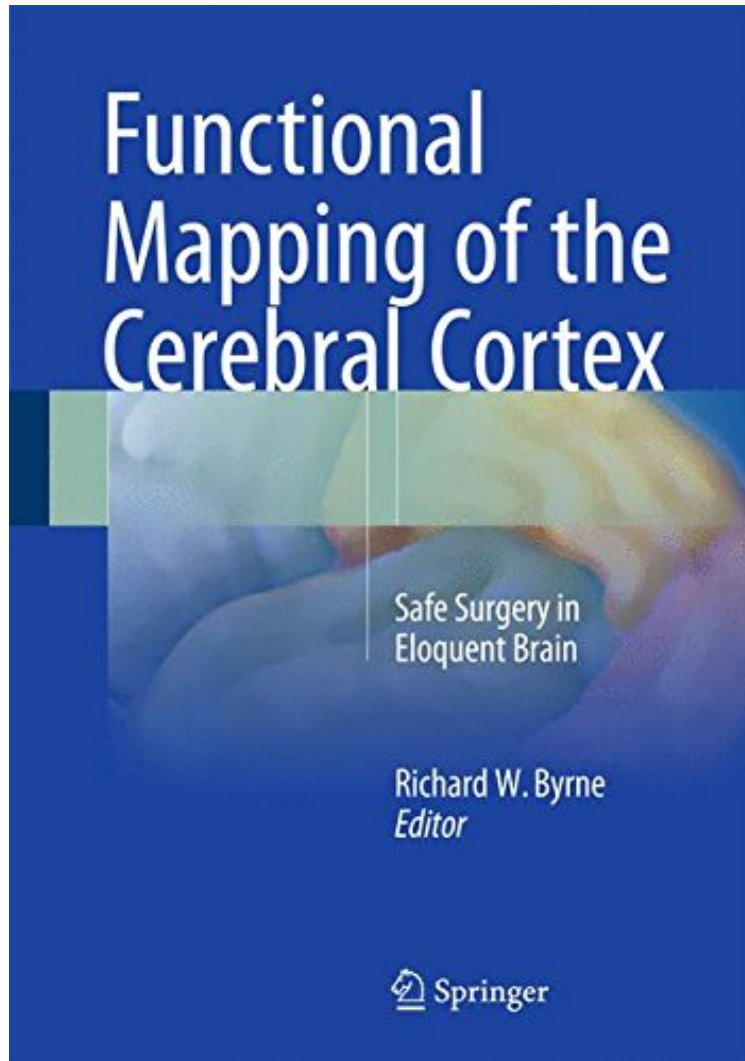


Functional Mapping of the Cerebral Cortex: Safe Surgery in Eloquent Brain

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2 of 2 people found the following review helpful. Brain MappingBy Joseph J GrenierFunctional Mapping of Eloquent Cerebral CortexRichard Byrne MDSpringer Cham, Berlin HeidelbergRe. JJ Grenier MD PhDThis is a monograph describing the history and evolution of modern mapping of the cerebral cortex primarily for clinical neurosurgeons. A description of the mapping work including Horsley, Sherrington, Krause, Penfield, the German Schools, Boldrey, and

several other notables are depicted with their original notes illustrated. The evolving roles of MRI, CT, DTI, functional imaging techniques are described. Intraoperative mapping, PET preop and postop are described with their respective roles. Awake and anesthetized patient monitoring is part of the major discussions. SI, SII-m premotor, language, and visual centers are included in line drawings and atlas pictures. I recommend this book to neurosurgeons specializing in cranial procedures. Motor and sensory evoked potentials are looked at carefully and their potential roles in surgical planning examined. This book has a purpose for surgeons, residents, fellows, and students with an interest in cranial physiology and surgery.

This book provides up-to-date, practical information on functional mapping in order to assist neurosurgeons responsible for safely removing lesions in and around eloquent cortex one of the greatest challenges in neurosurgery. The roles of pre- and intraoperative mapping techniques are clearly explained, highlighting the advantages and limitations of each tool available to the neurosurgeon. The inclusion of treatment algorithms for applications in specific clinical circumstances ensures that the book will serve as a clear guide to this most complex of neurosurgical problems. To further assist the reader, instructive clinical case examples, accompanied by intraoperative photos and other illustrative material, help to explain the applications of functional mapping of eloquent cortex in different pathologies. Practitioners will find the book to be a ready guide to navigation of the practical decisions commonly faced when operating in eloquent cortex.

This is a monograph describing the history and evolution of modern mapping of the cerebral cortex primarily for clinical neurosurgeons. I recommend this book to neurosurgeons specializing in cranial procedures. This book has a purpose for surgeons, residents, fellows, and students with an interest in cranial physiology and surgery. (Joseph J. Grenier, .com, January, 2016) From the Back Cover This book provides up-to-date, practical information on functional mapping in order to assist neurosurgeons responsible for safely removing lesions in and around eloquent cortex one of the greatest challenges in neurosurgery. The roles of pre- and intraoperative mapping techniques are clearly explained, highlighting the advantages and limitations of each tool available to the neurosurgeon. The inclusion of treatment algorithms for applications in specific clinical circumstances ensures that the book will serve as a clear guide to this most complex of neurosurgical problems. To further assist the reader, instructive clinical case examples, accompanied by intraoperative photos and other illustrative material, help to explain the applications of functional mapping of eloquent cortex in different pathologies. Practitioners will find the book to be a ready guide to navigation of the practical decisions commonly faced when operating in eloquent cortex. About the Author Richard William Byrne, MD, has been Professor of Neurosurgery at Rush Medical College, Chicago, Ill., since 2008 and in 2013 was appointed The Roger C. Bone, MD, Presidential Professor of Rush University. He is Medical Director of Rush University Neurosurgery and Chairman of the Department of Neurosurgery at Rush Medical College. Dr. Byrne is certified by the American Board of Neurological Surgery. He has served as an officer in various medical societies and on national committees and is a member of the Board of Directors of the CNS Foundation. Since 2012 he has been Treasurer and Executive Committee member of the Neurosurgical Society of America. In 2014 he received the Gary Lichtenstein Humanitarian Award from Voices Against Brain Cancer. Dr. Byrne has conducted extensive research on diverse topics and is the author of more than 80 articles in peer-reviewed journals as well as over 20 book chapters. He is a member of the editorial board for Surgical Neurology International and until 2013 was a member of the editorial board of AANS Neurosurgeon. In 2014 he was a guest editor for Seminars in Oncology, and he is also a reviewer for many other journals.