

Jeremy C. Ganz

# Gamma Knife Surgery

A Guide for Referring Physicians



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# Gamma Knife Surgery A Guide For Referring Physicians

**James B. Davis**



## **Gamma Knife Surgery A Guide For Referring Physicians:**

*Gamma Knife Surgery* Jeremy C. Ganz,1993 Radiosurgery has become an established technique with more than 15000 patients treated world wide most of them in the last five years Yet there is much uncertainty in the general medical community as to the nature advantages and limitations of the method This uncertainty provokes unnecessary debate between colleagues and is a source of avoidable stress to patients This book provides an account of the scientific basis of radiosurgery and describes its current applications in respect of the only well established radiosurgical device the Leksell Gamma Knife The book assumes the general medical knowledge of a newly qualified medical practitioner There are three sections The first outlines the rationale for radiosurgery and the principles of stereotaxy radiophysics and radiobiology The middle section consisting of a single chapter describes what a potential patient may expect to experience In the final section the current applications are gone through one by one indicating what can and what cannot be achieved The book is intended for neurologists neurosurgeons internists otolaryngologists oncologists ophthalmologists general practitioners medical students and anyone else who might wish to refer a patient to or advise a patient about Gamma Knife radiosurgery

*Gamma Knife Surgery* Jeremy Ganz,2014-10-03 Radiosurgery has become an established technique with more than 15000 patients treated world wide most of them in the last five years Yet there is much uncertainty in the general medical community as to the nature advantages and limitations of the method This uncertainty provokes unnecessary debate between colleagues and is a source of avoidable stress to patients This book provides an account of the scientific basis of radiosurgery and describes its current applications in respect of the only well established radiosurgical device the Leksell Gamma Knife The book assumes the general medical knowledge of a newly qualified medical practitioner There are three sections The first outlines the rationale for radiosurgery and the principles of stereotaxy radiophysics and radiobiology The middle section consisting of a single chapter describes what a potential patient may expect to experience In the final section the current applications are gone through one by one indicating what can and what cannot be achieved The book is intended for neurologists neurosurgeons internists otolaryngologists oncologists ophthalmologists general practitioners medical students and anyone else who might wish to refer a patient to or advise a patient about Gamma Knife radiosurgery

*Handbook of Stereotactic and Functional Neurosurgery* Michael Schulder,2003-02-05 This volume offers a comprehensive discussion of the stereotactic frames frameless systems and radiosurgical procedures utilized in the treatment and control of movement and neurological disorders Parkinson s disease chronic pain spasticity tumours epilepsy and arteriovenous malformations

*Gamma Knife Surgery* Jeremy Ganz,2012-12-06 Radiosurgery has become an established technique with more than 15000 patients treated world wide most of them in the last five years Yet there is much uncertainty in the general medical community as to the nature advantages and limitations of the method This uncertainty provokes unnecessary debate between colleagues and is a source of avoidable stress to patients This book provides an account of the scientific basis of radiosurgery

and describes its current applications in respect of the only well established radiosurgical device the Leksell Gamma Knife. The book assumes the general medical knowledge of a newly qualified medical practitioner. There are three sections. The first outlines the rationale for radiosurgery and the principles of stereotaxy, radiophysics and radiobiology. The middle section, consisting of a single chapter, describes what a potential patient may expect to experience. In the final section, the current applications are gone through one by one, indicating what can and what cannot be achieved. The book is intended for neurologists, neurosurgeons, internists, otolaryngologists, oncologists, ophthalmologists, general practitioners, medical students and anyone else who might wish to refer a patient to or advise a patient about Gamma Knife radiosurgery. **Advances in**

**Radiosurgery** Christer Lindquist, Douglas Kondziolka, 2012-12-06. Radiosurgery is a rapidly developing form of minimally invasive neurosurgery. Selected papers from the first meeting of the International Stereotactic Radiosurgery Society in Stockholm, June 1993, reflect current multidisciplinary approaches to difficult intracranial neurosurgical problems. Neurosurgeons, radiotherapists, oncologists, radiobiologists, physicists and representatives of several other clinical disciplines inform about the state of the art of radiosurgical treatment of a multitude of intracranial problems such as arteriovenous malformations, pituitary and pineal tumors, vestibular schwannomas as well as metastatic brain tumors and gliomas.

*Gamma Knife Neurosurgery* Jeremy Ganz, 2010-09-08. Today over 500 000 patients have been treated world wide in 250 Gamma Knife Centres in 37 countries, each one treating between 150 and 700 patients a year. The current book serves as a textbook, training manual and reference book for those involved in Gamma Knife practice, covering the theoretical background, the practical aspects of treatment, the social side of the method and necessary information not only for users but for those who refer to the Gamma Knife. It also covers some aspects of the hospital and social administration required for optimal use of the technology, also looking at the effect of the internet on specialist medical practice. It also presents the completely new Gamma Knife Perfexion, a new technology which extends the range of the Gamma Knife and will be the treatment standard for the future. **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1993.

**Intracranial Metastases** Raymond Sawaya, 2008-04-15. This is the first comprehensive textbook on intracranial metastases in over 20 years, with an update on current methods for their management, including the use of newer technologies. Each of the various histological types of cancer metastasizing to the brain is presented separately in a detailed analysis and discussion. This volume includes a consideration of the epidemiology of brain metastases and the quality of life in patients who have them. Special topics not previously covered are reviewed, including metastasis to the skull base and strategies for preventing cancer from metastasizing to the brain. A novel feature is a chapter devoted to the use of recent techniques such as functional magnetic resonance (MR) imaging, MR spectroscopy, metabolite mapping and dynamic susceptibility contrast imaging, regional cerebral blood volume mapping to characterize brain metastases in terms of the sensorimotor perturbations they produce, their metabolic response to therapy and their degree of vascularization respectively.

Stereotactic Neuro-Radio-Surgery Wolfgang Koos,Bernd Richling,2012-12-06 During the last few years stereotactic radiosurgery has become a partner of equal rank within the discipline of neurosurgery Today it is regarded as being of the same importance as microsurgery and endovascular neurosurgery branches which have also progressed rapidly in recent years Breakthrough success however requires a combined effort of all partners involved The editors have brought together leading experts in the fields of neurosurgery neuroradiology neurology neuropathology neuroanatomy radiation oncology and biophysics to discuss indications and therapeutic strategies in the treatment of arteriovenous malformations and intracranial tumors and to find a common basis for their future work

Gamma Knife Surgery Jeremy Ganz,2011-10-12 This book attempts to combine many different threads into a comprehensible whole Since the subject is the Gamma Knife and the author is a neurosurgeon the field of clinical interest is restricted to intracranial pathology The discipline of radiosurgery now applies to patients who may reasonably be referred by internists neurologists otolaryngologists endocrinologists and several others Some of the topics touched upon such as stereotaxy and the construction of a radio surgical instrument are unfamiliar to the majority of medical men Other topics such as those pertaining to the reactions between radiation and living tissue are not exactly unfamiliar and yet for most of us they are not comfortable areas of expertise in that we have some basic knowledge but not enough to draw conclusions and interpret In particular it is not easy to answer the very sensible questions that patients ask when being considered for this particular form of treatment The author has attempted to describe the basic relevant phenomenology in terms that should be readily understandable to a non specialist physician To do this he has been heavily dependent on the expertise of a number of mathematically sophisticated collaborators who have checked his manuscript They are named in the acknowledgments section The relevance of the different sections of this book will naturally be assessed differently according to the experience and interest of the reader To simplify access to the information that is required the book is divided into three main sections

British Journal of Neurosurgery ,1994 *Books in Print Supplement* ,1994

**Medifocus Guidebook On: Acoustic Neuroma** Medifocus.com, Inc. Staff, Elliot Jacob,2012-01-09 The MediFocus Guidebook on Acoustic Neuroma is the most comprehensive up to date source of information available You will get answers to your questions including risk factors of Acoustic Neuroma standard and alternative treatment options leading doctors hospitals and medical centers that specialize in Acoustic Neuroma results of the latest clinical trials support groups and additional resources and promising new treatments on the horizon This one of a kind Guidebook offers answers to your critical health questions including the latest treatments clinical trials and expert research high quality professional level information you can trust and understand culled from the latest peer reviewed journals and a unique resource to find leading experts institutions and support organizations including contact information and hyperlinks This Guidebook was updated on January 9 2012

**Pituitary Adenomas** Alex M. Landolt,Mary Lee Vance,P. L. Reilly,1996 This text on pituitary adenomas is divided into three sections covering their biology and pathology clinical findings and diagnosis and their

treatment      **Clinical Neuroepidemiology of Acute and Chronic Disorders** Jahangir Moini, Amparo Gutierrez, Nicholas Avgeropoulos, 2023-05-12 Clinical Neuroepidemiology of Acute and Chronic Disorders explores the epidemiology of disorders that affect the nervous system providing comprehensive discussions on incidence prevalence and more With thorough coverage of a variety of disorders chapters detail etiology risk factors pathophysiology clinical manifestations diagnosis global incidence and prevalence age specific incidence global mortality prevention treatment and prognosis for each disorder Chapters uniquely discuss the effects of the COVID 19 coronavirus upon the nervous system and in relation to several diseases including new discoveries and treatments for Alzheimer s disease and migraine headaches Real world case studies with critical thinking questions and Focus On boxes highlight important information Covers a variety of disorders and their etiology including risk factors pathophysiology clinical manifestations diagnosis incidence of mortality prevention treatment and prognosis Features real world case studies with critical thinking questions and answers Includes Focus On boxes that highlight key information in each chapter Highlights treatments for various disorders including Alzheimer s disease and migraines Discusses the effects of COVID 19 on the nervous system in relation to several diseases      *Forthcoming Books*

Rose Army, 1998-04      **The Complete Idiot's Guide to Hearing Loss** House Clinic, William M. Luxford M.D., 2010-09-07 Applying straightforward sense to one of our most important sense Hearing loss and impairment is a problem that millions of adults and children suffer from With a wide array of symptoms it is important to have one authoritative resource for information Written by certified otolaryngologists under the auspices of the world renowned House Ear Clinic The Complete Idiot s Guide to Hearing Loss covers all conditions and symptoms along with methods of prevention and treatment including The most familiar symptoms of hearing impairment and loss Details about such conditions as inner ear infections tinnitus cochlear problems otosclerosis and dizziness Complete treatment information including details about hearing aids surgery and protective devices      **Health & Medicine on the Internet** James B. Davis, 2003 A comprehensive guide to websites pertaining to health and healthcare      **Paperbound Books in Print 1995** Reed Reference Publishing, R5ference Reed, 1995-12      *Denver - Insiders' Guide* Linda Castrone, 2005-03 Denver s unique climate at the gateway to the Rocky Mountains makes it possible to ski and golf on the same weekend unless maybe you re busy catching the Broncos at INVERSCO Field This authoritative guide will help you enjoy everything Greater Denver has to offer from snowboarding rock climbing bicycling fishing and boating to the Mile High City s multitude of cultural offerings including world class museums excellent theatre music and drama companies and a thriving alternative music and club scene

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