

RADIATION DOSE TO PATIENTS FROM RADIO-PHARMACEUTICALS. ICRP Publication 53. *Annals of the ICRP*, 1987; 18(1-4): 1-377. Oxford, Pergamon Press, hard-cover, \$105.00.

When someone asks you the radiation dose to a patient from a nuclear medicine procedure, do you go scrambling through package inserts, the various MIRD pamphlets and dose reports, and your reprint files? Do you use the SWAG method for estimating the cumulated activity, \bar{A} ? Do you have S factors for children? This new ICRP publication is an answer to the prayers of those of us who frequently have to perform internal dose calculations; I expect my copy to be well-worn within a short time.

The first section of ICRP Publication 53 (30 pages) consists of an overview of the absorbed fraction calculational method, some general comments on biokinetic models, a brief discussion of the role of effective dose equivalent in nuclear medicine, and some comments on how to approach the problem of impurities in radiopharmaceutical preparations. Two appendices to this first section provide a referenced discussion of 11 biokinetic models and a description of how to deal with organs for which specific S factors are not available.

The second section (347 pages) contains absorbed dose and effective dose equivalent tables for about 120 radiopharmaceuticals. For each compound, the biokinetic model and biokinetic data (each with references) are described in detail. Modifications used for estimation of dose under abnormal conditions (e.g., intermediate to advanced diffuse parenchymal disease in the calculation to Tc99m sulfur colloid desimetry) are given for many of the agents. Tables of absorbed dose per unit cumulated activity administered (mGy MBq^{-1}) for various target organs and for ages adult, 15 years, 10 years, 5 years, and 1 year of age are given. These tables also include the effective dose equivalent (mSv MBq^{-1} ; the "five remaining organs" are annotated with asterisks). For those not fully conversant with SI units yet, multiply these values by 3700 to convert to mrad mCi^{-1} and mrem mCi^{-1} , respectively.

I always expect ICRP publications to be thorough, well-prepared, authoritative, and expensive—I wasn't disappointed in any of these expectations. Every medical school library, every nuclear medicine departmental library, and many personal libraries should contain a copy of ICRP Publication 53, despite its high price. It will pay for itself quickly in the time saved from chasing around to multiple sources trying to gather \bar{A} and S values. Its dose calculations should be immediately and fully accepted by radiation safety committees and investigational review boards for research protocols and for misadministrations and inadvertent administration to pregnant patients. Buy it—you'll like it!

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MAGNETIC RESONANCE ANNUAL 1988.

Herbert Y. Kressel, Ed. Raven Press, New York, 1988, 357 pp, \$69.50

A major strength of this volume is that it has captured new trends in nuclear magnetic resonance imaging at the point where they are well founded but not yet in common use. The thoroughness and clarity of the presentations will be significant in promoting a more widespread application of these newer techniques.

The titles of the chapters in this volume are "High Resolution MR Imaging of the Knee", "MR of the Normal and Ischemic Hip", "Artifacts in Magnetic Resonance Imaging", "Clinical Applications of Gadolinium DTPA in MRI", "CSF Flow Effects during MRI of the Central Nervous System", "Rapid MR Imaging", "Magnetic Resonance Imaging of the Heart", "Clinical Use of the Partial Saturation and Saturation Recovery Sequences", "Temporomandibular Joint Imaging", and "A Rapid-Gated CINE MRI Technique". The authors are authorities on their topics who "practice what they preach". The clinical chapters offer copious advice on appropriate and effective imaging protocols.

The technical chapters present their topics in sufficient detail to satisfy someone hoping to understand and implement a technique and further, they anchor the techniques firmly in clinical utility, allowing the clinician to appreciate the value of the techniques in practice. The thorough lists of references after each chapter compensate for the necessary limits on the length and detail of the articles. While timeliness is a virtue of this book, there are a few hints, such as occasional errors in reference number which suggest haste in the preparation some chapters.

As befits a book to which frequent reference will be made, the paper and printing are very good and the binding has withstood treatment at the hands of this reviewer which has left lesser volumes in tatters.

RICHARD E. WENDT III
Baylor College of Medicine
Houston, Texas

Books Received

1. Low-Level Radioactive Waste Regulation: Science, Politics and Fear. M.E. Burns. Lewis Publishers, Inc., Chelsea, 1988, 311 pp, \$39.50
2. Nuclear Medicine Applications to Surgery. E.R. Davis & W.E.G. Thomas, Eds. Castle House Publications Ltd., Dobbs Ferry, 1988, 326 pp, \$99.50
3. Handbooks in Radiology, Vol. 6—Nuclear Medicine. F.L. Datz. Year Book Medical Publishers Inc., Chicago, 1988, 331, \$19.95

Magnetic Resonance Annual 1988 Magnetic Resonance Annual 1988

Herbert Y. Kressel



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The NLM Technical Bulletin, 1990 **Environment Abstracts Annual 1988** Bowker Editorial Staff, R R Bowker
Publishing, Bowker, 1989-04 **MRS of the Brain and Neurological Disorders** Akihiro Igata, Tetsuhiko Asakura, Toshiro
Fujimoto, 2000-06-28 MRS of the Brain and Neurological Disorders illustrates and demonstrates the usefulness of magnetic
resonance spectroscopy for the diagnosis of brain and neurological disorders including epilepsy nervous disorders
psychiatric disorders and brain tumors The book is unique in that it contains 87 case studies of neurologic and psychiatric
disorders accumulated by clinical application of ³¹P chemical shift imaging and ¹H single voxel spectroscopy using a single
MRS system The extensive case studies selected from 1 200 patients include cases of brain tumors cerebral infarction
cerebral arteriovenous malformation AVM Moya Moya disease cerebral hemorrhage dementia neurologic disorders epilepsy
and psychiatric disorders such as schizophrenia depression mania and alcoholism Highly illustrated the book also covers a
short history of MRS explains basic principles of MRS and summarizes a biochemical study for understanding the ³¹P and ¹H
spectra While several MRS studies have been conducted by researchers worldwide no previous book has collected as many
case studies Indeed with its in depth examination of the subject matter MRS of the Brain and Neurological Disorders will play
a major role in the progress of in vivo investigation of neurologic and psychiatric disorders by MRS **Society for**
Magnetic Resonance Imaging Society for Magnetic Resonance Imaging. Meeting, David D. Stark, 1988 **National**
Library of Medicine Current Catalog National Library of Medicine (U.S.), 1988 **Statistical Reference Index**, 1988
High-Resolution Neuroimaging Ahmet Mesrur Halefoğlu, 2018-03-14 Dr Ahmet Mesrur Halefo lu mostly deals with
research fields in body imaging and neuroradiology with multidetector computed tomography and high resolution magnetic
resonance imaging He has served as postdoctoral research fellow at Johns Hopkins Hospital Currently he is working as an
associate professor of radiology in Istanbul Turkey He has more than 50 high impact factor publications and has written 3
book chapters He is a member of Turkish Society of Radiology and European Society of Radiology During the recent years
there have been major breakthroughs in MRI due to developments in scanner technology and pulse sequencing These
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Reviewing **Magnetic Resonance Annual 1988 Magnetic Resonance Annual 1988**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Magnetic Resonance Annual 1988 Magnetic Resonance Annual 1988**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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