

**SELF-ASSESSMENT OF CURRENT KNOWLEDGE IN NUCLEAR MEDICINE**, John B. Selby and G. Donald Frey. Medical Examination Publishing Co, Flushing, NY, 1977. 213 pp, \$12.00.

This test review book provides a representative selection of over 1,000 questions dealing with the basics of physics, instrumentation, radiopharmaceuticals, radiation safety, radioimmunoassay, and clinical organ imaging. The material is fairly recent (through June 1976), and each question cites at least one reference. In some rapidly changing areas (e.g., cardiac imaging, radioimmunoassay) questions are outdated, but in general the text is up-to-date on material that would be covered by the current American Boards of Nuclear Medicine or Radiology Part 1 examinations.

One of the major weaknesses of the book is the format of the questions. The authors include a mixture of A-type, B-type, X-type, true-false, and K-type questions, but unfortunately they do so at random. Rather than having a section composed of one type of question, they constantly switch format. Each question with a different format is preceded by instructions, but the constant changes are confusing. It is not uncommon to answer a question in the wrong format, or have to look back and determine what format is being used for a particular question. There are also numerous "double-option" questions (which should be avoided in test construction). For example, the question "<sup>67</sup>Ga is safe and yields over 80% accuracy . . ." requires the reader to make two independent decisions. If one of the two is wrong, the answer is wrong. In addition, many questions require quantitative judgment decisions, rather than simply knowledge of the facts. Examples include frequent use of the imprecise word "very" (e.g., a test is very useful, a disease is very rare). A question asks whether a test is "an excellent diagnostic test" in a certain disease without further specifics; another question asks when a diagnostic study gives "optimum information." A true-false option states that diagnosing a certain condition is "more difficult with radioactive tracers." More difficult than *what*?

As would be expected in a publication of this type, the quality of image reproduction is mediocre. This hampers the examinee in the organ-imaging section, since it is difficult to be precise in judging many of the images presented. The physics section of the book is thorough, but may be more difficult than necessary for the readers this publication will attract.

Overall, this review text earns a "fair" rating. The fact that it covers recent material and is thoroughly referenced are strong points, but poor construction of the test questions and suboptimal image reproduction detract from an otherwise most informative review source.

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**ABDOMINAL ULTRASOUND**. H. H. Holm, J. K. Kristensen, J. F. Petersen, S. N. Rasmussen, and S. Hancke. University Park Press, 1976. 181 pp, \$47.50.

This book is a very well-written and well-produced volume from a highly experienced group of abdominal ultrasonographers in Copenhagen. The first chapter reviews the development of some of the early instrumentation and credits

those pioneers who laid down the foundations for ultrasound as a diagnostic modality. The chapter on the basic physics of diagnostic ultrasound is authoritative and easily understood. The section on the general principles for ultrasonic scanning of the abdomen summarizes a wealth of clinical experience, although the equipment reviewed will be unfamiliar to the majority of clinicians in the United States.

The section on anatomy shows beautiful longitudinal and cross sections. Unfortunately, international convention has now changed the orientation of the longitudinal scans from that used in the book, so that the cranial end should now be towards the left. Ultrasonic scanning of the liver, biliary system, pancreas, spleen, and kidneys is thoroughly discussed. The vast majority of the ultrasound scans shown in these sections are bistable, however, thus limiting their value when compared with modern grey-scale images. Since the book's inception in 1975, there have been very rapid changes in instrumentation.

The authors are, of course, world authorities on ultrasonically-guided percutaneous puncture, and the section describing the very impressive results obtained from over 1,200 punctures is superbly written. Similarly, these authors are experts in the estimation of organ volume. Their chapter on errors and pitfalls shows an accumulated wisdom from their wide experience in ultrasound techniques.

In summary, this book is a very well-written text by highly experienced ultrasonologists. Continuing developments in ultrasound instrumentation—particularly in grey-scale technology—have occurred since many of these bistable scans were performed.

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**COMPUTED TOMOGRAPHY OF THE BRAIN WITH CLINICAL, ANGIOGRAPHIC, AND RADIONUCLIDE CORRELATION**. Ruth G. Ramsey. Philadelphia, W. B. Saunders, 1977. 239 pp, \$9.95.

This book—Volume 9 in the W. B. Saunders Co. series, entitled "Exercises in Diagnostic Radiology"—departs from the exercise format used in other volumes of the series. With the exception of very brief textual expositions at the beginning of each section, all of the material is presented in the format of brief case descriptions with extensive illustrations, including not only computed tomography but conventional radiographic and arteriographic studies and in many cases radionuclide studies. The author states this was done because of the intended introductory nature of the book.

The book does, in fact, present a broad spectrum of disease as seen by computed tomography, as well as by more conventional techniques. Various sections in the book cover topics such as primary brain tumors, metastatic disease, vascular diseases, post-traumatic abnormalities, acquired and congenital abnormalities, and there is a short chapter on orbital scanning as well. Glimmering from the pages the reader will find under these various sections a very broad and representative array of cases. Here and there the author is unable to restrain herself from including a bit of exotica,