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# JNMT Bookshelf

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## **LABORATORY MANUAL FOR NUCLEAR MEDICINE TECHNOLOGY**

Wanda M. Hibbard and Sue P. Lance, eds, The Society of Nuclear Medicine/Technologist Section, New York, 1984, 163 pp, \$12.00 members, \$14.00 nonmembers.

The long awaited third publication of the Technologist Section has arrived. The laboratory manual has been thoughtfully executed by nuclear medicine technology educators who, in search of the "perfect text," finally designed their own.

The manual contains 34 experiments divided into sections on radiation safety, instrumentation, nuclear physics, radiopharmacy, radiochemistry, and patient care. The instrumentation section includes five exercises involving computer acquisition and data manipulation. Experiments designed to demonstrate concepts and principles relevant to radioassays and laboratory techniques make up the radiochemistry section. Each experiment includes a definition of its purpose, learning objectives, a list of materials necessary to carry out the experiment, a step-by-step procedure outline, review questions, and a list of references. The review questions are intended to prompt thinking about clinical applications of the experiment just performed. Where appropriate, suggested layouts for data sheets are illustrated.

Relative to the equipment required to carry out the experiments, the material lists and procedure outlines are generic. Although instructors will need to provide any specifics, this should pose no problem for any experienced individual. Furthermore, the preface of the manual states that all experiments have been field tested and "de-bugged" by both instructors and students in nuclear medicine technology training programs. Another pleasant note is the low price of the manual.

In terms of both cost and quality, instructors should have no qualms about requiring the purchase of the manual. While it is intended for nuclear medicine technology students, nuclear medicine residents can also benefit from performing selected experiments. Certain experiments can serve as a basis for in-service programs or review sessions for experienced technologists, or as an aid in developing a department's procedure manual.

The contributors, editors, and field testers are all to be com-

mended for their efforts. The *Laboratory Manual for Nuclear Medicine Technology* is a job well done and a publication of which the Technologist Section can be proud.

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## **COMPUTERS IN RADIOLOGY**

George B. Greenfield and Lincoln B. Hubbard, Churchill Livingstone, Inc., New York, 1984, 183 pp, \$30.00.

The objective of this book is to provide a basic understanding of computers and is written primarily for the radiologist. This is a small but very complete introduction with eight chapters covering computer evolution, hardware, software, digital image processing, digital radiography, CT, NMR, and computerized radiology departments. Discussions relative to nuclear medicine applications are notably absent; however, the first three chapters provide valuable information on the history of computers followed by a discussion of hardware and software. Although the book and chapters are short, the authors are to be congratulated on their direct no-nonsense introduction to get their point across quickly. Computer terminology and many types of devices and concepts are introduced quickly, somewhat at the sacrifice of depth. Chapters include many examples, and suggested readings accompany each topic to direct the reader to areas of special interest. An appendix reviewing college level mathematics is included and a large glossary is particularly valuable to the novice.

As mentioned, the lack of specific information on nuclear medicine applications is offset by the strength of the direct approach to the generic use of computers and general digital imaging applications. Particularly valuable as an introduction are the chapters on hardware and computer peripherals, the discussions and examples of programming languages, and definitive, direct introductions to digital radiography, CT, NMR, and PACS.

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