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Score: 91

Radiopharmaceutical Therapy and Dosimetry

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At A Glance

Reviewer: Joshua Scheuermann, MMP (University of Pennsylvania)

Description

The book is an edited collection of chapters from experts in the field covering the various aspects required for implementing an internal dosimetry program.

Purpose

The book was developed as a companion to the 2023 American Association of Physicists in Medicine (AAPM) summer school and the purpose was to reinforce the concepts covered during the summer school. However, the content of the book can stand alone outside of the summer school curriculum, and one would not have had to attend the summer school to find the content of this book useful.

Audience

The book is written for medical physicists interested in learning more about internal dosimetry and some of the considerations for implementing dosimetry in a clinical radiopharmaceutical therapy program. Many of the authors are actively performing dosimetric assessments for radiopharmaceutical therapy (RPT) patients at their respective institutions, but all are experts in the topics of their chapters in the book.

Features

The book covers most aspects that someone would need to understand and begin performing internal dosimetric assessments, from the requirements of quantitative imaging to methods for curve-fitting to absorbed dose calculations. The book is composed of 23 chapters with their references at the end of each one. It includes extensive discussion about dosimetry of radiopharmaceuticals, quality assurance, dose calibration and uncertainty and error propagation, which is helpful as it is not always included when discussing internal dosimetry. The book also includes nice summaries of the current FDA-approved radiopharmaceuticals, NRC regulations, and reimbursement considerations. Each chapter has its own outline and includes an introduction and conclusion.

Assessment

This is a well-rounded book that provides the reader not only with an understanding of the methods used for and errors associated with internal absorbed dose calculations, but an understanding of the requirements for generating high quality quantitative imaging data as inputs to the computations and an understanding of the regulatory and reimbursement considerations surrounding a clinical

radiopharmaceutical program. It is particularly interesting because of the breadth of the content. It can be a starting point for all aspects of a therapy program in which a physicist may be involved.

Range	Question	Score
1-10	Are the author's objectives met?	**10**
1-10	Rate the worthiness of those objectives.	**10**
1-5	Is this written at an appropriate level?	**5**
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1-5	Are there significant omissions? (1=significant, 5=insignificant)	**4**
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1-5	Rate the currency of the references.	**3**
1-5	Rate the pertinence of the references.	**5**
1-5	Rate the helpfulness of the index.	**3**
1-5	If important in this specialty, rate the physical appearance of the book	**N/A**
1-10	Is this a worthwhile contribution to the field?	**10**
1-10	If this is a 2nd or later edition, is this new edition needed?	**N/A**