



Rabex 2013

Radiation & Cancer Biology Practice Examination for Residents in Radiation Oncology

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The 2013 annual practice examination in Radiation and Cancer biology has been created specifically to help residents in radiation oncology in preparation for their board exams. The exam consists of approximately 200 questions in molecular/ mechanistic radiobiology; cellular radiobiology; tumor radiobiology; normal tissue radiobiology; and radiation risks and protection. All sections are suitable for both therapy and diagnostic residents.

The total allowed exam time is 200 min

The exam can be used as an aid to selfstudy, or a group of residents can take the exam on-line beginning June 1 2013 up to August 2014.

Please visit Rabex site at:

<http://www.Rabex.net>

Please save UserName and password to log back in and review the questions & Answers. From the first log in time, **you have approximately 2 months period to log back in and review.** Important: Please click Review Answers to see the Questions & Answers.

Please submit your registration form via fax (608-833-2255) & also email your information to info@rabex.net while processing your payment. You also can sign up directly each individual resident online by creating a user name and password. RABEX will authorize the participants. The Login User Name and Password will be e-mailed to individual registrant automatically. The exam will be given only on-line.

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Features: 1) Real time scoring, 2) Email score immediately to program director, 3) Review the Questions & Answers using the same user ID & password for studying purposes 4) Review the Questions & Answers right after the exam is finished, 5) Break down of Score by subject categories, 6) percentile presentation, 7) Take the exam on Smart phones & Tablets, 8) Navigate through the Questions & Answers via desk top & Smart phones & Tablets, viewing Questions & Answers sequentially, & Overall ranking Please note these features are given as part of exam package.

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Rabex History & its inception in 1995

The concept of a radiobiology practice examination was discussed in the early 1990's. After some encouragement from my colleagues, Drs. L. R. Coia, S. Shahabi, and B. Corn, I agreed to become Editor-in-Chief of this endeavor that produced its first exam in 1995. In 1999, the fifth consecutive radiobiology practice examination was produced at a quality level that has improved in each successive year. The goals of this project were: 1) to provide an educational tool (typical questions with comprehensive answers) for assisting residents of diagnostic radiology and radiation oncology in self-study and preparation for their American College of Radiology board exams in this field of science, 2) to extend the teaching of traditional radiobiology into the new era of molecular biology, and 3) to provide a national scoring system that provided some information about relative standing. Most of these goals have now been achieved, but only after a difficult learning curve. Each year, questions were generated by Associate Editors who are involved directly in the teaching of radiobiology to medical residents. From these, 300 questions of the A, B and X formats were selected and edited for inclusion in the annual exam. Although complete answers to each question were requested from their authors, several answers in support of the correct choice were either not provided or were not very informative. References in the answer sections to Hall and a page number refer to the standard radiobiology textbook entitled RADIOBIOLOGY FOR THE RADIOLOGIST, 4th Edition by E. J. Hall and published by J. B. Lippincott Company in 1994. Complete references are included to other cited works. It fell upon the Editor-in-Chief to determine the appropriate explanation for several questions. Some Associate Editors have faithfully served for each of the five years while others could only serve for a portion of that time. The names of all participants in the project are listed on page iv.

This compilation of the best questions from the first five radiobiology practice exams required extensive additional editing and formatting that was accomplished with the assistance of my wife, Beverly, who is a computer-publishing expert and my best friend. She has devoted over 200 hours of her time to the project and deserves much of the credit for any success. I have proofread the questions and answers several times and am responsible for any remaining errors in the questions, their answers and/or typos. We trust that this project in radiation oncology and radiology medical education will find a useful niche in the formal instruction of future medical scholars. Dr. S. Shahabi has provided moral support and encouragement throughout this project and during this larger task of formatting and producing the compilation.

J.D. Chapman, Ph.D.

Editor-in-Chief
Fox Chase Cancer Institute
January 2000

Siamak Shahabi, PhD

Chief-Technical Editor
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