

Test Specification Matrix 2010-2014

MDCB Test Specification Matrix: Revised August 2009 based on the Medical Dosimetry Job Task Analysis Content Outline Category		-
I. RADIATION PHYSICS		% Weight
A. Radioactivity	16%	
B. Production of x-rays		
C. Interaction of radiation with matter		
D. Treatment machine characteristics (e.g., linear accelerator, cobalt 60, orthovoltage, superficial x-rays)		
E. Imaging modalities (e.g., MRI, PETs, CT, ultrasound, SPECT, KV, MV cone beam)		
F. Imaging modalities (e.g., linear accelerator, cobalt 60, orthovoltage, superficial X-rays)		
G. Radiation units (e.g., activity, exposure, absorbed dose, and dose equivalent, radiation monitoring)		
II. DOSE CALCULATION METHODS		
A. Applied mathematics (e.g., geometry, trigonometry)	20%	
B. Basic external beam calculations (computer and manual) calculations (e.g., electron and photon beam)		
C. Effects of beam modifying devices (e.g., wedges, bolus, partial transmission blocks, compensators)		
D. Irregular field calculations		
E. Special calculations (e.g., off axis, gap calc, entrance/exit dose)		
F. Manual corrections for tissue inhomogeneities		
G. Dose normalization calculations (e.g., ICRU standards)		
III. TREATMENT PLANNING		
A. Isodose curve parameters	30%	
B. Isodose distributions		
C. Electron beam dose distributions		
D. Beam energy selection		
E. Radiobiology (e.g., dose tolerances, hypofractionation, time dose fractionation (tdf) calculations, biologic modeling)		
F. Dose volume histogram (dvh) (e.g., differential, cumulative)		
G. IMRT, ARC therapy		
H. Cross-sectional anatomy (e.g., site specific clinical oncology)		
I. Treatment machine limitations		
J. Special procedures (e.g., TBI, TSEI, IORT, SR5, SBRT)		
K. Algorithms (e.g., treatment planning software, calculation)		
IV. LOCALIZATION		
A. Acquisition of patient data	10%	
B. Patient positioning		
C. Ancillary treatment devices (e.g., breast board, bite block)		
D. Treatment simulations (e.g., conventional simulations, CT simulations, PET-CT, 4D)		
E. Medical imaging with application to radiation oncology		
F. Digitally Reconstructed Radiograph (DRR/DCR)		
G. Image registration (image fusion)		
H. IGRT (e.g., CBCT, ultrasound guidance, KV-KV, MV-MV, infrared, fluoroscopy, CT on rails, fiducials)		
I. Patient immobilization techniques		
J. Site specific organ motion (e.g., bladder extension, respiratory motion)		

Mdcb Exam Guide

Rachel Sandford



Mdcb Exam Guide:

Review of Medical Dosimetry William Amestoy, 2015-03-03 This study guide will be a reliable support and easy to use source of information for students in the fields of dosimetry physics radiation oncology and therapy as they progress through the educational levels in preparation for board examinations The theoretical and practical knowledge gained by students on previous courses or in clinical settings is reinforced by means of almost 1200 questions and accompanying detailed analytical answers In order to cater for the needs of all students the questions are arranged according to three levels of difficulty The level 1 questions are mainly intended for those hoping to pass the Medical Dosimetrist Certification Board MDCB exam but will also be beneficial for Medical Physics candidates taking written exams and for Radiation Oncology residents The level II questions are in general clinically related and will be relevant for any student while the level III questions are advanced and are especially suitable for American Board of Radiology candidates or those taking equivalent exams elsewhere in the world The study guide is broken down into different subject areas with provision of multiple questions and answers on each subject In addition the mathematical and physics questions include brief explanations of how the student can solve each problem At the end of the guide three practice tests are included with the same number of questions as are found in the MDCB exam These tests will help students to test their knowledge and improve their test taking speed **Medical Dosimetry**

Certification Study Guide, Second Edition Govinda Rajan, 2015-10-01 **Barron's Math 360: A Complete Study Guide to Geometry with Online Practice** Barron's Educational Series, Lawrence S. Leff, Elizabeth Waite, 2021-09-07 Barron's Math 360 Geometry is your complete go to guide for everything geometry This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of geometry and build as you go Topics include the building blocks of geometry angle pairs and perpendicular lines transformation geometry ratios and proportions area and volume and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come *Global Perspectives on Cancer* Kenneth D. Miller M.D., Miklos Simon MD, 2015-02-03 Two leading oncologists along with experts spanning several medical disciplines shed light on the global pandemic of cancer particularly the difference in diagnosis treatment and care between global communities Despite advancing globalization and amazing breakthroughs in modern

medicine developing countries continue to struggle with the prevention and treatment of the most common killer in the world today cancer. Logistical barriers, scarceness of resources and economic hardships in these regions make the screening, detection and care of this disease difficult at best. This book is the only one of its kind to review the pandemic of cancer from a global and epidemiological perspective. The work is presented in three sections focusing on key issues in cancer management, treatment of specific types of the disease and the difference in medical care between low, medium and high resource countries. Chapters address the history, incidence and treatment across nations, prevailing cultural attitudes which may delay or prevent treatment in many parts of the world and the geopolitics of cancer care and funding. Patients and caregivers from all around the globe explain the daily challenges of living with the disease in their nation. **Dietary Intake**

and Type 2 Diabetes Omorogieva Ojo, 2019-12-05. The prevalence of diabetes is on the increase in the UK and worldwide, partly due to changes in lifestyle which predispose individuals to overweight and obesity. It is estimated that about 90% of the currently diagnosed adults have type 2 diabetes and based on the World Health Organisation (WHO) report, about 422 million adults were living with diabetes in 2014 compared with 108 million in 1980. This condition caused about 1.5 million deaths in 2012. In the United States of America, it is estimated that about 30.3 million adults are living with diabetes, with a further 1.5 million new diabetes cases diagnosed every year, representing an increasing prevalence of this condition. Diabetes represents a major public health challenge despite advances in technology and the pharmaceutical industry. These problems may be in the form of acute or long-term complications. Therefore, in order to attenuate the problems of diabetes management, strategies usually include lifestyle changes such as increased physical activity and dietary interventions. Studies which evaluate the role of nutrition in the management of type 2 diabetes often involve human and animal models as these approaches enable us to have a broader and more in-depth understanding of the condition. In some cases, diabetes may co-exist with other conditions such as stroke and these may present unique challenges with regard to nutritional interventions. This Special Issue aims to evaluate the risk factors associated with type 2 diabetes and the role of the diet in the management of people with this condition. This evidence is drawn from both human and animal studies. **Southern**

Medical Journal, 1922. **The Journal of Industrial Hygiene**, 1919. Journal of the American Medical Association, American Medical Association, 1918. Athenaeum and Literary Chronicle, James Silk Buckingham, John Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1866. *The Journal of Industrial Hygiene and Abstract of the Literature*, 1920.

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