

# **Diagnostic Medical Sonography Technology**

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## **Diagnostic Medical Sonography Technology:**

2007 Mississippi Curriculum Framework Crystal Larimore, Nita Megginson, Tracy B. Weekley, 2007 As the world economy continues to evolve businesses and industries must adopt new practices and processes in order to survive Quality and cost control work teams and participatory management and an infusion of technology are transforming the way people work and do business Employees are now expected to read write and communicate effectively think creatively solve problems and make decisions and interact with each other and the technologies in the workplace Vocational technical programs must also adopt these practices in order to provide graduates who can enter and advance in the changing work world The curriculum framework in this document reflects these changes in the workplace and a number of other factors that impact on local vocational technical programs Diagnostic Medical Sonography uses high frequency sound waves to produce images of organs masses fluid collections and vascular structures within the human body Sonography is user dependent requiring competent and highly skilled professionals to be a part of the integral health care system Sonographers have extensive direct patient contact providing care to a variety of people from healthy to critically ill The sonographer is responsible for obtaining pertinent patient history performing the sonographic examination providing for the needs and comfort of the patient during examination and recording anatomy and pathology or other data for interpretation by the supervising physician to aid in diagnosis Sonography is commonly used in the field of obstetrics and gynecology for purposes ranging from confirming and or dating pregnancies to diagnosing disease processes of the female reproductive system Sonographers must have knowledge of normal structure and functional anatomy of the human body and use independent judgment in recognizing the need to perform procedures according to sonographic findings Upon completion of the two year program of study the student will be awarded the Associate of Applied Science degree Until a Diagnostic Medical Sonography program reaches accreditation approval from CAAHEP the students must meet the following criteria in order to apply to sit for the American Registry of Diagnostic Medical Sonographers 1 Be a graduate from a two year allied health program that is patient care related which includes but is not limited to Diagnostic Medical Sonography Radiologic Technology Respiratory Therapy Registered Nurse Occupational Therapy and Physical Therapy and have 12 months of full time clinical ultrasound vascular experience or 2 Hold a Bachelor's degree and have 12 months of full time clinical ultrasound vascular experience Graduates from a CAAHEP accredited Diagnostic Medical Sonography Program may apply to take the ARDMS without further experience Industry standards referenced are from the CAAHEP Standards and Guidelines for the Accreditation of Educational Programs in Diagnostic Medical Sonography 1996 Appended are 1 Standards and Guidelines for the Accreditation of Educational Programs in Diagnostic Medical Sonography 2 Related Academic Standard and 3 21st Century Skills A list of suggested references is provided for each unit Contains 3 footnotes **2011 Mississippi Curriculum Framework** Wanda Finch, Lesa Wilson, 2011 As the world economy continues to evolve businesses and industries must adopt

new practices and processes in order to survive Quality and cost control work teams and participatory management and an infusion of technology are transforming the way people work and do business Employees are now expected to read write and communicate effectively think creatively solve problems and make decisions and interact with each other and the technologies in the workplace Career technical programs must also adopt these practices in order to provide graduates who can enter and advance in the changing work world The curriculum framework in this document reflects these changes in the workplace and a number of other factors that impact local career technical programs Diagnostic Medical Sonography uses high frequency sound waves to produce images of organs masses fluid collections and vascular structures within the human body Sonography is user dependent requiring competent and highly skilled professionals to be a part of the integral health care system Sonographers have extensive direct patient contact providing care to a variety of people from healthy to critically ill The sonographer is responsible for obtaining pertinent patient history performing the sonographic examination providing for the needs and comfort of the patient during examination and recording anatomy and pathology or other data for interpretation by the supervising physician to aid in diagnosis Sonography is commonly used in the field of obstetrics and gynecology for purposes ranging from confirming and or dating pregnancies to diagnosing disease processes of the female reproductive system Sonographers must have knowledge of normal structure and functional anatomy of the human body and use independent judgment in recognizing the need to perform procedures according to sonographic findings Upon completion of the 2 year program of study the student will be awarded the Associate of Applied Science degree Until a Diagnostic Medical Sonography program reaches accreditation approval from CAAHEP the students must meet the following criteria in order to apply to sit for the American Registry for Diagnostic Medical Sonographers 1 Be a graduate from a 2 year allied health program that is patient care related that includes but is not limited to Diagnostic Medical Sonography Radiologic Technology Respiratory Therapy Registered Nurse Occupational Therapy and Physical Therapy and have 12 months of full time clinical ultrasound vascular experience and 2 Hold a Bachelor's degree and have 12 months of full time clinical ultrasound vascular experience Graduates from a CAAHEP accredited Diagnostic Medical Sonography Program may apply to take the ARDMS without further experience Industry standards referenced are from the CAAHEP Standards and Guidelines for the Accreditation of Educational Programs in Diagnostic Medical Sonography 2007 Appended are 1 Standards and Guidelines for the Accreditation of Educational Programs in Diagnostic Medical Sonography 2 Related Academic Standards and 3 21st Century Skills A list of suggested references is provided for each unit Contains 3 footnotes Iournal of Diagnostic Medical Sonography, 2001 **Vocational & Technical Schools - East** Peterson's,2009-12-10 More than 2 200 vocational schools east of the Mississippi River Cover Career Planning Guide for the Allied Health Professions Zubie W. Metcalf, 1997 Provides students with the pertinent information and directs them step by step towards an Allied Health Career Bulletin of the United States Bureau of Labor Statistics ,2002 Occupational Outlook Handbook ,2003 Describes 250 occupations which cover approximately 107 million jobs Study Guide and Laboratory Exercises for Technology for Diagnostic Sonography - E-Book Wayne R. Hedrick, Paul R. Wagner, 2016-06-24 Gain a firm foundation for sonography practice Corresponding to the chapters in Hedrick's Technology for Diagnostic Sonography this study guide focuses on basic concepts to help you master sonography physics and instrumentation It includes laboratory exercises designed to teach you how to operate a scanner and comprehensive review questions allow you to assess your knowledge Not only will you learn the theoretical knowledge that is the basis for ultrasound scanning but also the practical skills necessary for clinical practice Laboratory exercises teach you the function of operator controls and how to optimize image quality and practice ALARA and include step by step instructions for scanner operation for hands on application and practice 250 review questions help you assess your understanding of sonography physics and instrumentation and identify areas of knowledge that may need further study Key Points at the beginning of each chapter emphasize the most important sonography principles that you need to understand and apply

Journal of the American Society of Echocardiography ,1993-07

Occupational Outlook Handbook, 2002-2003 United States. Department of Labor, 2002 This book is an up to date resource for career information giving details on all major jobs in the United States 120 Careers in the Health Care Field Stanley Alperin, 1989 Vocational Education Program Courses Standards ,1996 <u>Introduction to Radiologic Sciences</u> and Patient Care Arlene McKenna Adler, Richard R. Carlton, 2007 Text offers thorough information meeting the standards set by the American Society of Radiologic Technologists Curriculum Guide and the American Registry of Radiologic Technologists Task List Provides an overview of the radiologic science professions America's Top 101 Computer and Technical Jobs J. Michael Farr, Michael Farr, 2004 Profiles over one hundred jobs involving computers and technology from desktop publishers to cardiovascular technologists to aerospace engineers describing the nature of the work working conditions training and qualifications outlook and earnings and presents a seven step job search guide and details on market U. S. Occupational Outlook Handbook United States. Bureau of Labor Statistics, 1991 trends Directory of College & University Administrators ,2005 Chronicle Vocational School Manual Chronicle Guidance Publishers, 2000-08

LANGE Review: The Fundamentals of Pediatric Sonography: A Registry Review and Protocol Guide Jenna Laquerre, 2023-04-28 An essential resource for pediatric sonographers preparing for the specialty exam or working in the field An ideal review for anyone seeking sonography certification LANGE Review The Fundamentals of Pediatric Sonography provides both students and practitioners with critical knowledge of clinical applications and scanning techniques for pediatric patients The book first walks you through the content and then tests your knowledge with 200 review based questions Featuring 500 diagnostic images and 200 review questions complete with detailed answer rationales LANGE Review The Fundamentals of Pediatric Sonography is the only book on the market that incorporates educational content sample sonographic protocols and an examination review This is an essential resource for sonographers preparing for the

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