



# Secrets of the ARDMS Ultrasound Physics & Instrumentation Exam Study Guide: Unofficial ARDMS Test Review for the American Registry for Diagnostic Medical Sonography Exam

*By Mometrix Unofficial Test Prep Team for the ARDMS Exam*

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**Get the test prep help you need to be successful on the ARDMS Ultrasound Physics & Instrumentation test.**

The ARDMS Ultrasound Physics & Instrumentation Exam is extremely challenging and thorough test preparation is essential for success. ***ARDMS Ultrasound Physics & Instrumentation Exam Secrets Study Guide*** is the ideal prep solution for anyone who wants to pass the ARDMS Ultrasound Physics & Instrumentation Exam.

***ARDMS Ultrasound Physics & Instrumentation Exam Secrets Study Guide*** includes:

- A complete look at the American Registry for Diagnostic Medical Sonography Ultrasound Physics and Instrumentation Exam
- A full study of sound and the mechanisms of sound generation
- A thorough guide to sound propagation, interaction with target, and single line reconstruction
- An in-depth review of hardware controls and image features
- An examination of resolution, beamforming, the point spread function and the scattering and reflection of sound
- A comprehensive look at four types of Doppler ultrasound and sensitivity in ultrasound
- An exhaustive guide to piezoelectricity and properties of acoustic plane wave
- An analysis of transducer efficiency, bandwidth, frequency, beam spread, and testing
- A extensive guide to color flow imaging in clinical practice and creation of

color image

It's filled with the critical information you'll need in order to do well on the test: the concepts, procedures, principles, and vocabulary that the American Registry for Diagnostic Medical Sonography (ARDMS) expects you to have mastered before sitting for the exam.

**The Sound and the Mechanisms of Sound Generation section covers:**

- Wave equation
- Quantitative properties
- Beam formation

**The Sound Propagation, Interaction with Target, and Single Line Reconstruction section covers:**

- Effects of Medium/Tissue
- Reflection
- Refraction

**The Hardware Controls and Image Features section covers:**

- Safety
- Resolution

**The Resolution, Beamforming, and the Point Spread Function; the Scattering and Reflection of Sound section covers:**

- Rayleigh Tyndall scattering
- Ultrasound beam
- Intensity of sound

**The Four Types of Doppler Ultrasound and Sensitivity in Ultrasound section covers:**

- Continuous wave
- Pulse wave
- Energy or power Doppler

**The Piezoelectricity and the Properties of Acoustic Plane Wave section covers:**

- Piezoelectric ceramics
- Wavelength, frequency, and velocity
- Refraction and Snell's Law

**The Transducer Efficiency, Bandwidth, Frequency, Beam Spread, and Testing section covers:**

- Fraunhofer zone
- Axial resolution
- Digital scan converter

**The Color Flow Imaging in Clinical Practice and Creation of the Color Image section covers:**

- The meaning of color
- The importance of time
- Multigate Doppler

These sections are full of specific and detailed information that will be key to passing the ARDMS Ultrasound Physics & Instrumentation Exam. Concepts and principles aren't simply named or described in passing, but are explained in detail. The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language.

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