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Vascular Technology

by Cindy Owen, RDMS, RVT, with D. E. Strandness, Jr., MD

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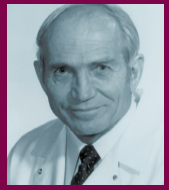
Cindy Owen is the author of *Abdominal Sonography Review, Ultrasound Physics Review,* and *Ultrasound Physics Mock Exam on CD-ROM.* A former ARDMS and ICAVL board member, she is a Fellow of the Society of Diagnostic Medical Sonography and lectures widely throughout the world. Cindy lives with her family in Memphis, where she bases her ultrasound consulting practice and rides her horse Gus.



A pioneering leader well known for his central role in the development of duplex ultrasonography, the late Dr. Strandness wrote dozens of major books, published hundreds of important papers, lectured extensively throughout the world, and was professor of surgery and chair of the department of vascular surgery at the University of Washington.

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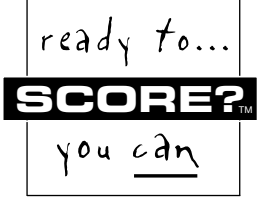

ScoreCards™ for

Vascular Technology

A Q&A Flashcard Study System for Vascular Technology

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CONTENTS

The *ScoreCards* study system covers what you need to know to pass the ARDMS exam for the Vascular Technology (VT) examination. The *ScoreCards* contents therefore cover key concepts, facts, and principles topic by topic. The numbers in parentheses indicate the approximate percentage of the exam that a particular topic is likely to represent. On the question side of each page of the *ScoreCards*, at the bottom, there is a key indicating its place within the topic outline, as well as the relative importance of the topic. So you always know where you are and how you are doing.

ScoreCards for Vascular Technology also contains an image gallery of challenging case-based problems and coverage of physiology and fluid dynamics—the vascular-specific physical principles that you must know to pass the Vascular Technology exam. These physical principles are key to understanding the physiologic basis of the indirect vascular tests, Doppler technology and its clinical application, and other clinically important issues and applications.

For best results, we strongly urge you to combine *ScoreCards* with *Vascular Technology: An Illustrated Review* and either *Vascular Technology Review* (the book form of the mock exam) or *Vascular Technology CD-ROM Mock Exam*.

HOW TO USE SCORE CARDS

As part of our 1-2-3 Step Ultrasound Education and Test Preparation program, *ScoreCards for Vascular Technology* systematically prepares you to pass the Vascular Technology exam for the RVT credential. It also helps you to master the facts, problem-solving skills, and habits of mind that form the foundation of success not only on your registry exams but also in your career as an ultrasound professional. And they're fun. Here are some tips for maximizing their value:

Take it with you. The pocket-sized *ScoreCards* study system is designed to be portable. Use it on breaks or between patients. You can review a dozen question/answer items in five minutes.

Study, test yourself, review. As you study vascular technology, *ScoreCards* drills you on key facts and figures, it tests your knowledge of those facts in practical situations, and it provides clear explanations and references for further study. Each Q&A card is keyed to the ARDMS exam content outline so that you always know where you are, how you are doing, and how important the topic is to your overall success on the exam.

Triangulate on your target. By itself, the *ScoreCards* study system is a powerful, convenient, and fun way of learning and testing yourself. It is especially effective when used with *Vascular Technology: An Illustrated Review* [Step 1: review text] and *Vascular Technology Review* [Step 2: mock examination]. Just as each ScoreCard tells you which exam topic it covers, it also indicates exactly where in the Step 1 text you can find further information about the subject. So do the

Davies mock examinations. This integrated, systematic strategy triangulates on your target—exam and career success!

Shuffle it! After using the flipcard format for a while, consider removing the spiral wire binding and mixing up the cards to vary the order in which they challenge you.

Earn CME credit. The *ScoreCards* study system is an SDMS-approved CME activity that can help you earn the 12 clock hours required to take an ARDMS exam or to meet the CME requirements necessary to maintain your registry status once you pass your exams. Use the application that follows the last question in this book.

Check our website. News about your exams, continuing medical education, diagnostic testing, catalogs of additional references and resources, and online help are just a click away.
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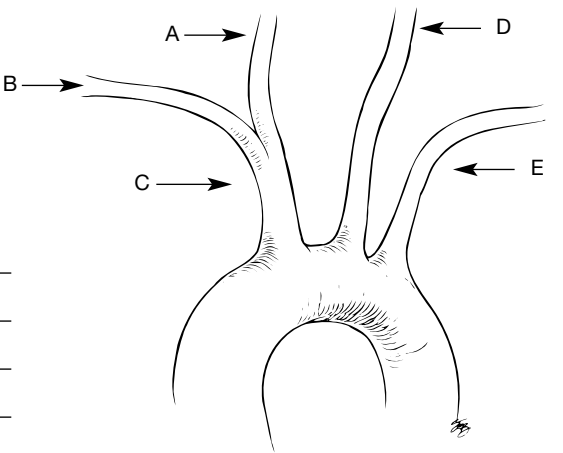
Q 1

In this illustration of the aortic arch, name the vessels labeled A–E.



a. _____

b. _____

c. _____

d. _____

e. _____

A. Right common carotid artery.
B. Right subclavian artery
C. Innominate artery.
D. Left common carotid artery.
E. Left subclavian artery.

This classic pattern of the aortic arch is seen in approximately 70% of individuals. The first of these branches is the innominate or brachiocephalic trunk, which usually courses 3–4 cm before dividing into the right common carotid and subclavian arteries. The second branch is the left common carotid artery. The last branch of the aortic arch is the left subclavian artery.

▶ Kadir S: Regional anatomy of the thoracic aorta. In *Atlas of Normal and Variant Angiographic Anatomy.* Philadelphia, Saunders, 1991, pp 19–54.

Q 2

The most common anatomic variant of the aortic arch is:

a. a common origin of the innominate and left common carotid arteries
b. origin of the left vertebral from the aortic arch
c. origin of the right subclavian from the aortic arch
d. origin of the right common carotid from the aortic arch

A. A common origin of the innominate and left common carotid arteries.

A common origin of the innominate and left common carotid arteries is by far the most common variant anatomy of the aortic arch, occurring in approximately 22% of individuals.

▶ Kadir S: Regional anatomy of the thoracic aorta. In *Atlas of Normal and Variant Angiographic Anatomy.* Philadelphia, Saunders, 1991, pp 19–54.

Q 3

The subclavian artery becomes known as what artery after crossing the lateral margin of the first rib?

a. brachiocephalic artery
b. axillary artery
c. brachial artery
d. vertebral artery

B. Axillary artery.

The subclavian artery continues as the axillary artery after it passes the lateral margin of the first rib. The axillary artery in turn becomes the brachial artery.

▶ Rumwell C, McPharlin M: *Vascular Technology: An Illustrated Review,* 4th edition. Pasadena, Davies Publishing, 2011, p 4.