



Joel A. Vilensky
Leslie A. Hoffman

ROHEN'S
PHOTOGRAPHIC
Anatomy
Flash Cards



Wolters Kluwer

2nd Edition

Thank you

for purchasing this e-book.

To receive special offers and news
about our latest products,
sign up below.

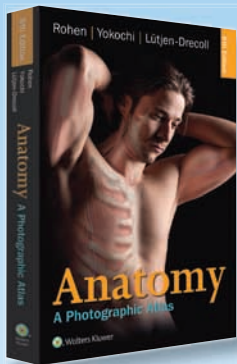
Sign Up

Or visit LWW.com



Wolters Kluwer

Prepare for the dissection lab and operating room with this proven atlas!



Anatomy

A Photographic Atlas

8th Edition

Johannes W. Rohen, MD

Chihiro Yokochi, PhD

Elke Lütjen-Drecoll, MD

978-1-4511-9318-3

Featuring outstanding full-color photographs of actual cadaver dissections, **Anatomy: A Photographic Atlas** depicts anatomic structures more realistically than traditional atlases. Chapters are organized by region in the order of a typical dissection; each chapter presents topographical anatomical structures in a systemic manner.

- Authentic photographic reproduction, as seen in the dissection lab and on the operating table, helps you develop an understanding of the anatomy of the human body.
- Functional connections between single organs, the surrounding tissue, and organ systems are clarified to prepare you for lab and practical exams.
- Clinical cases and more than 1,200 images including modern MRIs as well as CTs and endoscopic techniques.
- Dissections illustrate the topographical anatomy in layers “from the outside in.”

Anatomy in real-life 3D!



Acland's Video Atlas of Human Anatomy

Dr. Robert D. Acland

978-1451145007
(12-month access card)

AclandAnatomy.com is Lippincott's online portal to more than 300 video clips showing real human anatomic specimens in their natural colors. Clear narration, labeled structures, and Q&A reinforce learning and review. Unique for its rotating videography and carefully dissected specimens, the site allows students to see anatomy in context and prepares them for the lab and the practical exam.

- Browse the videos by region or topic; the site navigation makes it easy to find the content you need to prepare for class and lab or to review for exams.
- Download the PDF transcripts for offline review, or save your favorite clips for reference later.
- Take a quiz in review or exam/timed mode and track your performance; quiz results include a link to the supporting video clip.
- View subscription options and free clips at **AclandAnatomy.com**, including groundbreaking new footage of the cochlea (inner ear)!

Rohen's

PHOTOGRAPHIC ANATOMY

Flash Cards

Joel A. Vilensky, PhD

*Professor, Department of Anatomy and Cell Biology
Indiana University School of Medicine
Fort Wayne, Indiana*

Leslie A. Hoffman, PhD

*Assistant Professor, Department of Anatomy
and Cell Biology
Indiana University School of Medicine
Fort Wayne, Indiana*



Wolters Kluwer

Philadelphia • Baltimore • New York • London
Buenos Aires • Hong Kong • Sydney • Tokyo

Acquisitions Editor: Crystal Taylor
Product Development Editor: Greg Nicholl
Marketing Manager: Joy Fisher Williams
Production Project Manager: Priscilla Crater
Design Coordinator: Teresa Mallon
Art Director: Jennifer Clements
Prepress Vendor: Absolute Service, Inc.

2nd edition

Copyright © 2016 Wolters Kluwer
Copyright © 2009 Lippincott Williams & Wilkins, a Wolters Kluwer business.

All rights reserved. This book is protected by copyright. No part of this book may be reproduced or transmitted in any form or by any means, including as photocopies or scanned-in or other electronic copies, or utilized by any information storage and retrieval system without written permission from the copyright owner, except for brief quotations embodied in critical articles and reviews. Materials appearing in this book prepared by individuals as part of their official duties as U.S. government employees are not covered by the above-mentioned copyright. To request permission, please contact Wolters Kluwer at Two Commerce Square, 2001 Market Street, Philadelphia, PA 19103, via email at permissions@lww.com, or via our website at lww.com (products and services).

9 8 7 6 5 4 3 2 1

Printed in China

ISBN: 978-1-4511-9450-0

This work is provided “as is,” and the publisher disclaims any and all warranties, express or implied, including any warranties as to accuracy, comprehensiveness, or currency of the content of this work.

This work is no substitute for individual patient assessment based upon healthcare professionals’ examination of each patient and consideration of, among other things, age, weight, gender, current or prior medical conditions, medication history, laboratory data and other factors unique to the patient. The publisher does not provide medical advice or guidance and this work is merely a reference tool. Healthcare professionals, and not the publisher, are solely responsible for the use of this work including all medical judgments and for any resulting diagnosis and treatments.

Given continuous, rapid advances in medical science and health information, independent professional verification of medical diagnoses, indications, appropriate pharmaceutical selections and dosages, and treatment options should be made and healthcare professionals should consult a variety of sources. When prescribing medication, healthcare professionals are advised to consult the product information sheet (the manufacturer’s package insert) accompanying each drug to verify, among other things, conditions of use, warnings and side effects and identify any changes in dosage schedule or contraindications, particularly if the medication to be administered is new, infrequently used or has a narrow therapeutic range. To the maximum extent permitted under applicable law, no responsibility is assumed by the publisher for any injury and/or damage to persons or property, as a matter of products liability, negligence law or otherwise, or from any reference to or use by any person of this work.

LWW.com

Contents

Acknowledgments

Preface

1 THORAX

2 ABDOMEN

3 PELVIS AND PERINEUM

4 BACK

5 LOWER LIMB

6 UPPER LIMB

7 HEAD AND NECK

8 BRAIN

Acknowledgments

We wish to thank Ms. Crystal Taylor and Mr. Greg Nicholl at Wolters Kluwer for inviting us to compose these cards and assisting us with the process.

Ms. Haley Moon and Ms. Lowene Stipp are thanked for their assistance with some of the logistical issues involved in assembling these cards.

And we are grateful to our students for teaching us how to best use these cards to help them learn anatomy.

Preface

All of the photographs in this flash card set were derived from the 8th edition of **Anatomy: A Photographic Atlas** by Johannes W. Rohen, Chihiro Yokochi, and Elke Lütjen-Drecoll (2016).

We chose a subset of the large number of images in that atlas to use in this flash card set. This subset primarily includes images that seemed to us to be of most relevance to students preparing for a practical exam in gross anatomy and neuroanatomy. Furthermore, we greatly reduced the number of structures labeled in the flash cards compared to those in the atlas (although increased in this edition compared to the number of structures labeled in the first edition of the cards). Also in this edition, we added material that will be useful to the students in their preparation for the “written” component of their gross anatomy exams. The back of each card, in addition to having the answers to the structures labeled with numbers on the front, includes either an anatomical question involving one or more of the labeled structures or a related clinical anatomy “pearl” that is likely to be tested on their exam.

We recognize that the images on these cards lack the three-dimensional definition that cadavers offer; however, the dissections used for these photographs are so good that this liability is not as significant as it might be with lesser quality images.

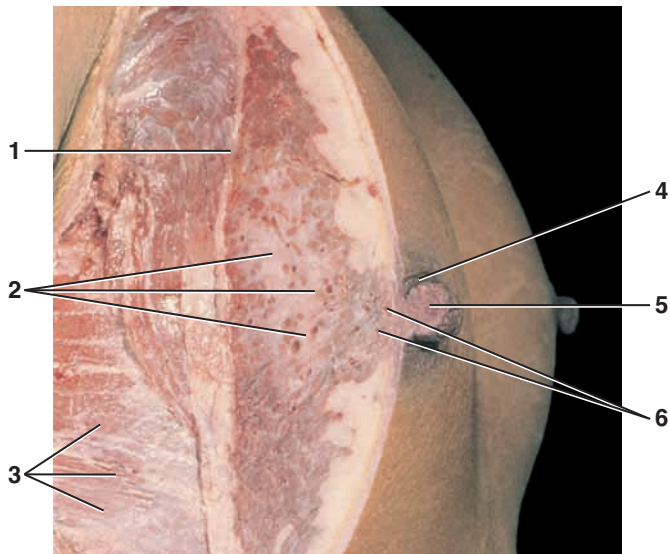
Performing well on a practical exam is a skill that some students find difficult to master, and we hope that students find these cards useful for acquiring this skill.

Joel A. Vilensky, PhD

Leslie A. Hoffman, PhD

Thorax

1.1



I. LABELS

1. **Deep fascia** overlying pectoralis major
2. **Mammary gland**
3. **Serratus anterior**
4. **Lactiferous sinus**
5. **Nipple**
6. **Areola**

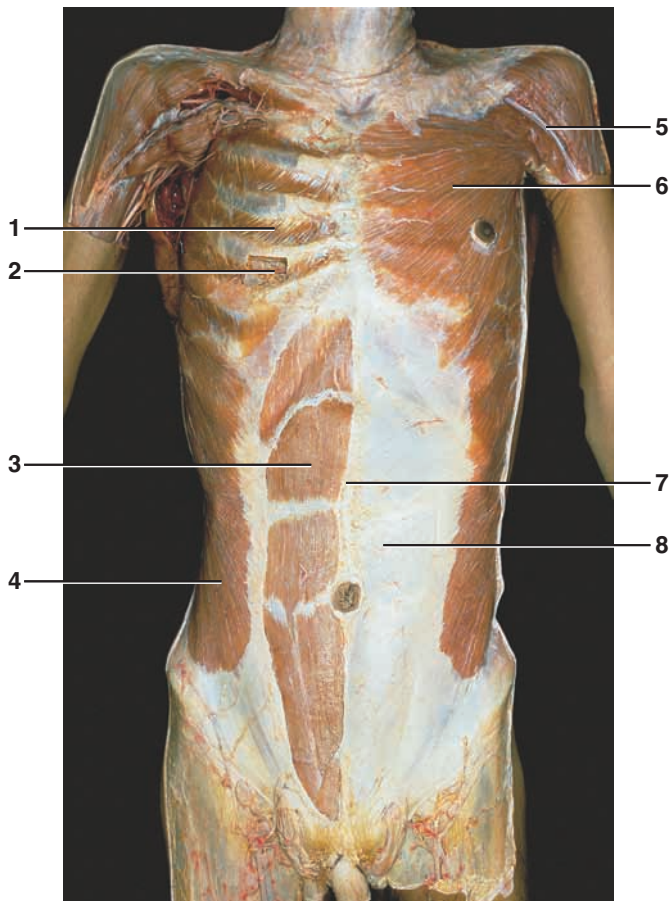
II. QUESTION

In your patient with breast cancer, you are concerned about possible spread of cancer cells (metastasis) via the lymphatic system. Most of the lymph from the breast first travels to which of the following groups of lymph nodes?

- A. Parasternal nodes
- B. Pectoral (anterior) group of axillary nodes
- C. Subscapular group of axillary nodes
- D. Phrenic nodes
- E. Tracheobronchial nodes

Thorax

1.2



I. LABELS

1. **Internal intercostal**
2. **Intercostal artery and vein**
3. **Rectus abdominis**
4. **External abdominal oblique**
5. **Cephalic vein**
6. **Pectoralis major**
7. **Linea alba**
8. **Anterior layer of rectus sheath**

II. CLINICAL ANATOMY

Movements of the thoracic wall during inspiration increase the volume of the thoracic cavity, resulting in a pressure gradient that draws air into the lungs. The volume of the thoracic cavity increases in three dimensions: vertically, as a result of contraction of the diaphragm; transversely, as a result of contraction of intercostal muscles (bucket-handle movement); and anteroposteriorly, as a result of elevation of the anterior ends of the ribs and the sternum (pump-handle movement).

Thorax

1.3

