STRUCTURE AND FUNCTIONS OF THE BODY: A HAND-BOOK OF ANATOMY AND PHYSIOLOGY FOR NURSES AND OTHERS DESIRING A PRACTICAL KNOWLEDGE OF THE SUBJECT

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649714711

Structure and Functions of the Body: A Hand-Book of Anatomy and Physiology for Nurses and Others Desiring a Practical Knowledge of the Subject by Annette Fiske

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

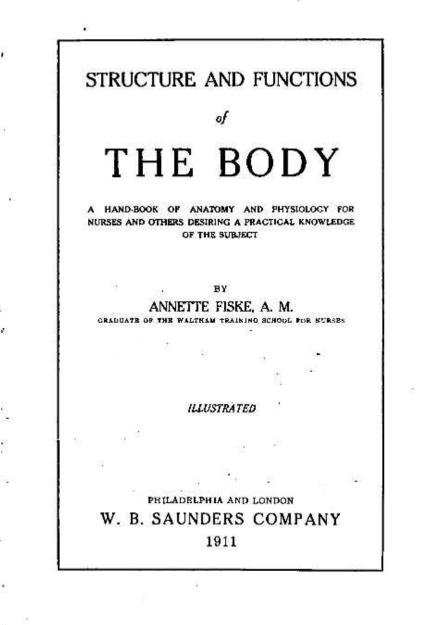
This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

ANNETTE FISKE

STRUCTURE AND FUNCTIONS OF THE BODY: A HAND-BOOK OF ANATOMY AND PHYSIOLOGY FOR NURSES AND OTHERS DESIRING A PRACTICAL KNOWLEDGE OF THE SUBJECT

Trieste



Mair

_

24

- 29

Copyright, 1911, by W. B. Sauaders Company

-

37

53

10

PRESS OF W. B. BAUNDENS COMPANY PHILADELPHIA

TO MY FATHER

(新知) A 19

+:

Q.

άĩ.

and

TO DR. ALFRED WORCESTER

as those who have perhaps most helped me in the formation and realization of my ideals this book is affectionately dedicated

15 (2

85 85

3

.₩ ₩

±1

PREFACE.

ALTHOUGH there are already in existence many books on anatomy and physiology for nurses, none with which I am acquainted has seemed to me to provide in concise form just the knowledge needed by the nurse in her profession. Most of them, moreover, separate the anatomy from the physiology and all treat the different systems of tissues separately, first the bones, then the muscles, and so on. These defects, as they seem to me, I have attempted to correct not only by weaving the physiology in with the anatomy, but by treating first the general structures found throughout the body and then describing the structure and function of each part in detail. Thus, the first chapter is devoted to a description of the general structure of all the tissues, a separate chapter being devoted, however, to the skin, its appendages, and function, including the sense of touch. Then the head with its bones, muscles, and organs of special sense is described, while the brain is treated with the rest of the nervous system, thus forming the connecting link between the head and the body. In the same way the back, chest, abdomen, pelvis, and extremities are taken up in turn and the bones, muscles, blood-vessels, nerves, and special organs of each, together with their functions, described.

Although written more particularly for nurses I am in hopes that this book may prove useful to any others who may desire to acquire a practical knowledge of anatomy and physiology.

Besides the usual text-books, I am much indebted for material to notes taken in lecture courses given by

PREFACE.

Dr. Fred R. Jouett and Dr. F. J. Goodridge of Cambridge, Mass., at the Cambridge School of Nursing, and by Dr. Vivian Daniel of Watertown at the Waltham Training School for Nurses.

I wish particularly to express my gratitude and appreciation for the kind and helpful criticism given me by Dr. Eugene A. Darling, Assistant Professor of Physiology, Harvard College.

May, 1911.

ANNETTE FISKE.

٠

6

i.

CONTENTS.

CHAPTER I.

PAGE 11 100

٠

COMPOSITION AND GENERAL STRUCTURE OF THE BODY Chemical Constitution of the Body, 11—The Cell, 12— The Fundamental Tissues of the Body, 13—Epithelial Tissue, 14—Connective Tissue, 15—Structure of Bone, 17—Bone Formation, 18—Chemical Composition of Bone, 18—Classification and Function of Bones, 19— Joints, 20—Muscle, 21—Action of the Muscles, 23— Physiology of Muscle, 24—Cilia, 27—The Blood, 27— Arteries, 27—Veins, 28—Capillaries, 28—Lymphatic System, 29—Lymphatic Vessels, 31—Lymphatic Glands, 32—Lymph, 32—Glands, 35—Ductless Glands, 36—Nervous Tissue, 36.

CHAPTER 11.

CHAPTER III.

THE CRANTUM AND FACE The Cranial Bones, 48—Frontal Bone, 49—Parietal Bones, 49—Occipital Bone, 50—Occipito-frontalis Muscle, 51—Temporal Bones, 51—Sphenoid or Wedge Bone, 52—Ethmoid Bone, 53—Turbinated Bones, 53— Ossification of Sutures, 53—Bones of the Face, 53— Superior Maxillary Bones, 54—Antrum of Highmore, 54—Malar or Cheek Bones, 54—Lachrymal Bones, 54— Palate Bones, 54—Nasal Bones, 55—Vomer, 55—Inferior Turbinated Bones, 55—Inferior Maxillary Bone or Lower Jaw, 55—Sublingual Gland, 56—Submaxillary Gland, 56.

CHAPTER IV.

THE ORGANS OF SPECIAL SENSE The Nose, 57—The Sense of Smell, 58—The Mouth, 59—The Hyoid Bone, 60—The Teeth, 60—The Sense

7

48

57