LABORATORY METHODS, WITH SPECIAL REFERENCE TO THE NEEDS OF THE GENERAL PRACTITIONER

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649623297

Laboratory Methods, with Special Reference to the Needs of the General Practitioner by B. G. R. Williams & E. G. C. Williams & Victor C. Vaughan

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

B. G. R. WILLIAMS & E. G. C. WILLIAMS & VICTOR C. VAUGHAN

LABORATORY METHODS, WITH SPECIAL REFERENCE TO THE NEEDS OF THE GENERAL PRACTITIONER

Trieste

LABORATORY METHODS

WITH SPECIAL REFERENCE TO THE NEEDS OF

THE GENERAL PRACTITIONER

BY C B. G. R. WILLIAMS, M. D.

MEMBER OF ILLINOIS STATE MEDICAL SOCIETY, AMERICAN MEDICAL ASSOCIATION, STO.

ASSISTED BY

E. G. C. WILLIAMS, M. D.

FORMERLY PATHOLOGIST OF NORTHERN MICHIGAN HOSPITAL FOR THE INBANE, TRAVERSE CITY, MICHIGAN

WITH AN INTRODUCTION BY

VICTOR C. VAUGHAN, M. D., LL. D.

PROFESSOR OF HYGIENE AND PHYSIOLOGICAL CHEMISTRY AND DRAN OF THE DEPARTMENT OF MEDICINE AND SUBGERT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

SECOND EDITION

ILLUSTRATED WITH FORTY-THREE ENGRAVINGS

ST. LOUIS C. V. MOSBY COMPANY 1913

1.2.106.

COPYRIGHT, 1913, BY C. V. MOSBY COMPANY



ř,

Press of C. V. Mosby Company St. Louis ł

TO

THE GENERAL PRACTITIONER,

WHO MUST BE A SPECIALIST IN ALL BRANCHES OF MEDICINE, THIS BOOK IS DEDICATED BY THE AUTHORS.

.

*

3

94 - 10

PREFATORY NOTE

A realization of the fact that the general practitioner is not usually prepared to make, on account of lack of extensive apparatus and other conveniences, elaborate chemical tests and examinations, has prompted the authors to prepare this book. "Laboratory Methods" is not of an encyclopedic form, nor is it a limited compend, and is especially designed for the general practitioner who desires to make, easily and inexpensively, examinations on which he may depend.

The physician may have experienced some discouragement in attempts to conduct certain examinations, but he has probably been confused by the complexity of the large book and thwarted by the paucity of the compend. It is not presumed that the practitioner shall attempt every investigation, but this book will show that many of the comparatively simple cases that are usually sept to distant cities for expert examination may be made with more satisfactory results by the practitioner.

It has been the aim of the authors to simplify methods both as to apparatus and technic. Essential factors have not, however, been omitted, but have been emphasized in such manner as to indicate their importance. Only the best tests are given, so that the reader will not be perplexed by being obliged to do any choosing for specific cases. Stress has been laid on safe diagnosis, and sources of error, as well as the value and limitation of tests, have been pointed out.

> B. G. R. W., M. D. E. G. C. W., M. D.

PREFACE TO SECOND EDITION.

Certain portions of this book have been reorganized, and there have been added descriptions of the Albumin Sputum Test for Tuberculosis, Bass and Watkins' Rapid Widal Method, Noguchi's Butyric Acid Test for Syphilis, and the Urobilinogen Test for Hepatic Function.

Furthermore, an attempt has been made to meet some of the needs of the amateur analyst; and for this reason a few tests have been added in the form of an appendix, which includes a Bedside Method for the Estimation of the Urinary Acidity, a very valuable Indican Test, a simple Test for Indolacctic Acid, a consideration of the Bence-Jones Albumose Body, the Sulphosalicylic Acid Test for Urinary Albumin, and the Hermann-Perutz Serum Test for Syphilis.

> B. G. R. W., M. D. E. G. C. W., M. D.

April, 1913.

CONTENTS

	C	HAI	TE	RI										10.035
GENERAL CONSIDERATIONS .														PAGE
GENERAL CONSIDERATIONS .	• •	00 0 0		о ж	0.00	•	•	•	50 4	0.00	•	•	•	10
	C	HAF	TE	R II	Γ.									
THE SPUTUM														07
Тпе Sputum	• •	8	630	18	9.0	•2			÷	3 * 3	•S	•	۲	21
5a	CI	IAP	TER	: П	Ĩ.									
SEARCHING FOR GERMS .														97
SEARCHING FOR GERMS .	•		·••		•	•	•		•	•		•	•	.01
	CI	TAP	TEI	1 1	Ζ.									
VASCULAR DRAMAB														59
TABUILLE DALARD	8 8 8	0 *	10	20		20	.		28	388	. 3	•	ः	00
	C	HAF	TE	RV				3						
CHEMISTRY AND BIOLOGY OF T	THE	GAN	T'H141	.Tr	TCR	835	33	12	62	123	33	63	33	71
						236	83	93	35	323	33	80	33	35
	CI	AP	TER	۲, Y	I.									
ESSENCE OF TISSUE DIAGNOS	18		- 24		na Serie			32	- 14	1123				78
											20			
	CE	AP	FE R	V	Ι.					82				
DETECTION OF THE COMMON H	OIB	BEC	,											85
	CH	API	ER	VI	п.									
EXUDATES IN BRIEF		2 - 42 1	38	33	830)			÷.				2	12	94
	23		- 14.7	a lat	165									
	CI	IAP	TEI	ł 12	κ.									
DIAZO VERSUS WIDAL		e	38	12						•	•		æ.	100
	C	HAI	PTE.	RX										
THE UBINE IN DISEASE .	ē. 1	2 12	33	1	1			\mathbf{Q}			- 20	10	2	107
					-									
	CI	IAP	TER	X X	I.									
MILK AND ITS HOME MODIFICA	TIO	. 87	28	32	•	•			3	•	•		÷	125
	1				~									
		IAP.												
Some Simple Water Analys	ES .											×		138
			7											