LECTURES ON TROPICAL DISEASES: BEING THE LANE LECTURES FOR 1905 DELIVERED AT COOPER MEDICAL COLLEGE, SAN FRANCISCO, U.S.A. AUGUST 1905

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649137381

Lectures on tropical diseases: being the Lane lectures for 1905 delivered at Cooper Medical College, San Francisco, U.S.A. August 1905 by Sir Patrick Manson

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

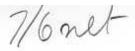
This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this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

www.triestepublishing.com

SIR PATRICK MANSON

LECTURES ON TROPICAL DISEASES: BEING THE LANE LECTURES FOR 1905 DELIVERED AT COOPER MEDICAL COLLEGE, SAN FRANCISCO, U.S.A. AUGUST 1905

Trieste



LECTURES

ON

TROPICAL DISEASES

BEING

The Lane Lectures

For 1905

DELIVERED AT

COOPER MEDICAL COLLEGE,

SAN FRANCISCO U.S.A. AUGUST 1905

BY

SIR PATRICK MANSON

K.C.M.G. M.D. LL.D. (Aber.); F.R.C.P. (Lond.); F.R.S. Hon, D.Sc. (Oxon.) Medical Adviser to the Colonial Office; Lecturer London School of Tropical Medicine, St. George's Hespital Medical School, etc. etc.

LONDON

ARCHIBALD CONSTABLE & CO. LIMITED 16 James Street Haymarket S.W.

1905

×.

N-KC-161 M35 Public Health Library

CONTENTS

	Page
1.—PRINCIPLES DETERMINING THE GEOGRAPHICAL DIS-	
TRIBUTION OF TROPICAL DISEASES-EPIPHYTIC	
Disease : Ankylostomiasis	1
IIDRACONTIASIS : ENDEMIC HÆMOPTVSIS	28
III,-BILHARZIOSIS : FILARIASIS	50
IV,—MALARIA	83
V.—TRYPANOSOMIASIS AND SLEEPING SICKNESS	107
VI.—FEBRILE TROPICAL SPLENO-MECALY (KALA-AZAR)	131
VIITHE DIAGNOSIS OF TROPICAL FEVERS	149
VIIITHE DIAGNOSIS OF TROPICAL FEVERS (continued)	168
IXTREATMENT OF FEVERS AND FLUXES	190
X.—PROBLEMS IN TROPICAL MEDICINE	209

M354501

- 26

LIST OF ILLUSTRATIONS

									Page
Tinea im	bricata					***			10
	.,	Fungus	of						10
Ankylost	omum	duodenal	e—Male :	and Fe	emale :	highly	magni	fied	15
	E.C.	.11	Ova of					16	i, 26
		**	Embry	o of					17
Ankylosi	tome Ea	mbryos b	eneath E	pidern	ıis				18
"		" i	n Vein					+++	19
39		" iı	h Bronchu	IS					20
39		,. i	n Stomacl	i					21
Guinea-v	vorm, T	ransvers	e section	of a					31
	" E	mbryo							34
	,, E	mbryos	in body ca	avity o	of Cyclo	ps			38
		ld Print,	showing	guinea	-worm	and lo	a bein	g ex-	
		tracted	by the nat	ives of	West .	Africa			42
Paragoni	imus we	sterman	ni						46
.,,		,,	Ova of						47
Schistos	mum l	ematob	ium—Mal	le and	Femal	e		5	1, 52
.,			Ova	of					52
,			Lat	eral-s	pined O	vum			53
	c	attoi-M	lale						55
		,, in	Mesente	ric Ve	ssel			5	6-58
			ransverse	secti	on of	appen	dix ve	rmi-	
			formis sh	owing	Ova of				59
**		" 0	va				+++		61
Filaria n	octurna								63
"		in lung v	ressels				2243		72
	iurna .						35.7	· · · · ·	63
	" 'aı	nd persta	nš			122	524		64
353	emarqu				100	1.11	0325		64

1

(viii)

										Page
100000	1. S.			, showing			•••			65
Elephai	ntiasis	of Sc	alp,	Scrotum,	Ma	mma,	Legs,	and	Upper	
	1010			+++	$\mathbf{o} \mathbf{r}$	+++			6	7-69
Filarial	Varico	se Gro	oin G	land ⁻					***	68
Head o	f Culex		•••	***			***	***	***	74
Filaria	leaving,	and	after	leaving,	its sh	eath		***	0.00	75
	The en	ipty s	heath							76
	in thora	ncic m	uscle	s of Mose	quito	***			7	6.79
	in proth	horax	of M	osquito						80
	in prob	oscis (of Mo	squito		+++		***		81
Embryo	o Filaria	a as it	leav	es Mosqu	ito					82
Ring Pa	arasite									84
Benign	Tertian	Para	site, l	half grow	n					84
**	77		1	hree part	s grov	۸n	0.799			85
	31		1.1	Rosettes			24.08			5,86
				Parasite-	-Cre			Sub-T	0	6 9 (E.S.).
800000 9 808						lings	0.000		0.000 (0.000) (0.000)	87
"		"		**		gellatin			5908 5 44 4	89
40. 90	33			(85) (85)	10.000	, gellatin	5 M 1 M 1 M 1 M 1 M 1 M		101 - 10 - 10 - 10 - 10 - 10 - 10 - 10	~
<i>8</i> 0	3862	88		1.54%	0.1.2.592	lagellui		-	1999	90
Anophe	les Mos	anito					000000	888.5 400.5		93
		S. S. S. S.		ach of Me						94
"	2012/02/05/2014			"		1006685359	power	N		95
,, Develop	n ment o					10000		55 SPR	135	96
Oocyst				1410-00	100	2.62	0.000	***	1555	97
Gamete		0.000					(200	283.N	100	97
10000002	관 - 151,255		1.000	ia Parasit		1112	(111)	107/i	***	- 53
Trypan						ttt:	3755		108	99
Sleeping				000	100	885).		100	250.001	109
2000/22015	Ser altera			Cell Infiltr		1		120		113
	"			.ea mau	ation	m	335		114,	123.5
Glossina	100000000000000000000000000000000000000					·**	200	1120	242	126
	morsit				200	1353				127
	in Bodi	CS	***		***				138,	146
Leishma		61 S.	1.000	1999 (Sec. 1997)						
Leishma " Spirillur	,,	in l	Phage	ocyte			1255			140 187

LECTURES

ON

TROPICAL DISEASES.

Ι.

PRINCIPLES DETERMINING THE GEOGRAPHICAL DIS-TRIBUTION OF TROPICAL DISEASES—EPIPHYTIC DISEASE : ANKYLOSTOMIASIS.

My first duty is to thank the authorities of this College for the honour they have done me in selecting me as Lecturer on this occasion. It is no small honour, and it is one, I need hardly assure you, I highly appreciate.

While thanking you I would congratulate you, not on your choice of lecturer, but on your choice of subject. Considering the time and the place there could be no more appropriate theme than Tropical Medicine.

During the last few years tropical pathology has advanced by leaps and bounds, and probably at a greater rate than any other department of medicine. I was going to say every month—this may be exaggeration but certainly every year brings with it some notable discovery, some new fact, some new disease, some fresh light on an old disease, or, it may be, some revolutionising idea pregnant with possibilities.

Thirty years ago tropical pathology as a distinct department of medicine could hardly be said to exist;

A

GEOGRAPHICAL DISTRIBUTION

but within that short space of time how many important discoveries have been made! To mention but a few, I might point to the germ causes of leprosy, of cholera, of Mediterranean fever, of chyluria, of tropical splenomegaly, of tropical sore, and, most important of all, of malaria; it may be also of dysentery, of liver abscess, of sleeping sickness. Many hitherto unknown animal parasites, some exercising pernicious effects on their human hosts, have been dragged to light; and helminthology, until recently an insignificant, if not a despised, branch of pathology, has acquired an importance no longer to be ignored. The protozoa, formerly hardly mentioned in our text books, thanks mainly to research in tropical pathology, are gradually usurping the premier place hitherto held by the bacteria. Lastly, an entirely new and, especially from the standpoint of preventive medicine, a most important departure was inaugurated when it was found that insects and their congeners are instrumental, and in many instances are necessary agents, in the diffusion of a considerable section of human and animal disease. When the mosquito made her bow on the stage of pathology, and more especially when Ross demonstrated her role in malaria, a new and most important era in the science of medicine was inaugurated.

Manifestly the present is an appropriate time in which to discuss tropical medicine. Equally appropriate for this discussion is the building and the city in which we are assembled. Whether ye will it or no, America is bound to expand. I cannot pretend to say precisely what form this expansion is to take, whether it is to be in the shape of conquest, of colonisation, or merely of moral, intellectual, and commercial assimilation, or, in other words, as civilisation; but certain it is that one

2

way or another, and in the not very distant future, American influences will dominate a large and increasing proportion of the earth's surface. Seeing, however, that the greater part of the temperate regions of the globe are already fully occupied by kindred races and kindred civilisations, the latent energies of American expansion must find their vent and opportunity in the tropics, as indeed has already happened, and more especially in those lands whose shores are washed by the Pacific. For these lands this port of San Francisco is the natural jumping-off and dumping place. It takes little prescience to foretell that ere many years have passed thousands will annually leave your shores for tropic countries, and thousands will return to them from tropic exile. San Francisco will become a yet greater commercial centre, and will stand in this respect to the west of the American Continent very much in the same relationship as London used to stand to the west of Europe. The San Francisco of to-day is but a village as compared to the vast metropolis of the Pacific which it is her destiny to become.

The expansion of America tropicwards will undoubtedly bring in its train great material prosperity to this city. With this prosperity will come trials, duties, responsibilities. Not the least important of these are those having reference to disease and to the preservation of health in tropical countries.

The establishment of those admirable and fruitful research laboratories in the Philippines, the splendidly successful efforts made in Cuba to banish yellow fever, and the elaborate sanitary arrangements devised for the Panama Canal route, show that the Washington authorities thoroughly appreciate this. Doubtless the selection

A 2