

LEAGUE OF NATIONS

HANDBOOK

INFECTIOUS DISEASES

with

**NOTES ON PROPHYLAXIS,
SERUM TREATMENT AND VACCINATION**

C. H. 1454

LEAGUE OF NATIONS

Geneva, 1945.

HANDBOOK OF INFECTIOUS DISEASES

with

**NOTES ON PROPHYLAXIS,
SERUM TREATMENT AND VACCINATION**

by the Staff of the Cantacuzène Institute,

under the direction of

Professors C. IONESCU-MIHĂEȘTI and M. CHIȚĂ - POONI

Series of League of Nations Publications

III. HEALTH

1945. III. 1.

Dedicated to the memory of
Professor J. CANTACUZÈNE
*Member of the Health Committee
of the League of Nations*

PREFACE

The danger from infectious diseases increases considerably as the result of war and migrations caused by the war. Every recent addition to scientific knowledge concerning methods of combating these diseases is therefore of special interest now to health administrations and to physicians in the civil and military health services. War conditions have in recent years greatly hampered the dissemination from one country to another of information concerning new scientific discoveries and in certain countries have made it difficult, if not impossible, to publish up-to-date medical books containing accounts of these discoveries.

The need for placing in the hands of physicians in a condensed and handy form modern scientific facts relating to infectious diseases, their diagnosis, treatment and prevention, already recognised at the beginning of the war by the League of Nations Health Section, has now become much more acute. It was therefore with gratitude that the Secretariat agreed to publish, in both English and French, this *Handbook* prepared by Professors IONESCU-MIHĂESCU and M. CIUCĂ, Directors of the Cantacuzène Institute in Bucharest, and their colleagues of that Institute.

The authors give the reader the benefit of first-hand experience gained during the first and second World Wars, not only of the common communicable diseases of Western Europe, but of several of the pestilential diseases which have prevailed in Roumania and the neighbouring countries during the last thirty years.

Their first manual of infectious diseases was issued at the request of the Roumanian authorities in 1915. In 1939, a similar request resulted in the publication of a more comprehensive volume. On the exhaustion of the first, a revised and augmented second edition was issued in January 1944. The present volume is not a mere translation of

	Pages
<i>Brucella.</i>	Brucellosis, Undulant fevers 39
<i>Eberthella.</i>	Typhoid fever 42
<i>Salmonella.</i>	Paratyphoid fevers. 44
"	Food-poisoning 46
<i>Escherichia.</i>	Colibacillosis 47
<i>Shigella.</i>	Bacillary dysentery 49
	Acute peritonitis. 51
 BACILLACEAE:	
<i>Clostridium.</i>	Botulism 53
"	Gas gangrene 55
"	Tetanus. 57
<i>Bacillus.</i>	Anthrax, Malignant pustule 59
 Spirochetales.	
 Spirillaceae.	
<i>Vibrio.</i>	Cholera 60
<i>Treponema.</i>	Syphilis 62
<i>Leptospira.</i>	Spirochetosis icterohemorrhagica 64
"	Mud-fever 66
<i>Borrelia.</i>	Relapsing fever 67
"	Vincent's angina 69
"	Fuso-spirillary infections 70
 Actinomycetales.	
 Actinomycetaceae.	
<i>Erysipelothrix.</i>	Swine erysipelas 71
 Mycobacteriaceae.	
<i>Mycobacterium.</i>	Tuberculosis 73
"	Leprosy 76
<i>Pfeifferella.</i>	Glanders 78
<i>Corynebacterium.</i>	Diphtheria 80



	Pages
Rickettsiales (?)	
<i>Rickettsia.</i>	
Rickettsioses, typhus and typhus-like diseases	83
Louse-borne typhus fever (Epidemic—)	83
Trench fever	88
Endemic benign, murine typhus	90
Boutonneuse fever	91
Trachoma	93
CHAPTER II. — INFECTIONS CAUSED BY FILTER-PASSING VIRUSES	
1. General Febrile Diseases.	95
with pustular eruption:	
Smallpox	96
Varioloid	98
Alastrim	98
Cowpox	99
Chickenpox	100
Shingles	101
with vesicular eruption:	
Herpes	103
with maculo-papular eruption:	
Measles	104
German measles (Rubella)	107
Fourth disease (Dukes's disease)	108
Fifth disease	108
with septicæmic symptoms:	
Dengue	109
Yellow fever	110
Sand-fly fever	114

	Pages
2. Diseases with localisations in the body	
<i>the Respiratory Organs:</i>	
Influenza	115
Coryza (Common cold)	117
Psittacosis	118
<i>the Nervous System:</i>	
Acute infectious encephalitis	121
Human encephalitis due to various viruses	123
Poliomyelitis (Infantile paralysis)	128
Rabies	131
<i>other Organs:</i>	
Glandular fever (infectious mononucleosis)	134
Foot-and-mouth disease	136
Lymphogranuloma venereum; poradenitis	137
Mumps (Epidemic parotitis)	139
Venereal wart, Warts	141
Epidemic hepatitis	142

CHAPTER III. — INFECTIONS CAUSED BY PROTOZOA AND METAZOA

Amœbic dysentery	145
Kala-azar, Leishmaniasis	147
Malaria	149
Taeniasis, Bothriocephalus infestation	154
Hydatid disease	155
Ascariasis	157
Oxyuris infestation	159
Hookworm (Ankylostomiasis)	161
Trichiniasis	164
Scabies (Itch)	166
Pediculosis (Louse infestation)	168
Delousing	169

CHAPTER IV. — INFECTIONS CAUSED BY PATHOGENIC FUNGI

	Pages
<i>Favus (Achorion schöleinii)</i>	172
<i>Small-spored ringworm (Microsporum audouini)</i>	173
<i>Trichophytosis (Large-spored ringworm)</i>	174
<i>Mycetoma</i>	176
<i>Blastomycoses</i>	177
<i>Sporotrichosis</i>	178

Part II.

OUTLINE OF GENERAL AND SPECIAL IMMUNOLOGY

212	GENERAL CONSIDERATIONS
214	IMMUNE SERA
CHAPTER V. — OUTLINE OF IMMUNITY AND ITS APPLICATIONS	
221	Outline of immunity and its applications
222	Titration and standardisation of immune sera and microbic products
223	Technique for immune sera injections
224	Accidents due to serum and their prevention

CHAPTER VI. — BIOLOGICAL DIAGNOSTIC TESTS

TUBERCULOSIS : <i>Tuberculin Test</i>	201
DIPHTHERIA : <i>Schick Test</i>	204
<i>Moloney Test</i>	206

	Pages
SCARLET FEVER: <i>Dick Test</i>	207
<i>Schultz-Charlton Extinction Phenomenon</i>	208
BRUCELLOSIS: <i>Burnet Test</i>	208
TULAREMIA: <i>Foshay Test</i>	209
SOFT CHANCRE: <i>Ito-Reenstierna Test</i>	210
PORADENITIS: <i>Frei Test</i>	211
HYDATID DISEASE: <i>Casoni Test</i>	212
CHAPTER VII. — PREVENTIVE VACCINATION AGAINST—AND VACCINE TREATMENT OF—INFECTIOUS DISEASES	213

1. Preventive vaccination against:

Y. C. Typhoid and paratyphoid fevers	213
Cholera	215
Plague	216
Louse-borne, exanthematic, typhus fever	218
Diphtheria, by means of anatoxin	221
Tetanus, by means of anatoxin	223
Scarlet fever, by means of toxin and anatoxin	225
Tuberculosis, by means of B.C.G. (Calmette-Guérin Vaccine)	226
Smallpox	229

2. Vaccination against rabies

3. Preventive vaccination against measles with immune-globulin

4. Vaccine treatment of:	233
Staphylococcus infection with polyvalent vaccine	237
" " anatoxin	238
Streptococcus infection with polyvalent vaccine	239
Pneumococcus	239

	Pages
4.1. Meningococcus infection with polyvalent vaccine	239
Gonococcus " " " " "	239
4.2. Whooping-cough " " " " "	240
B. coli infection with polyvalent vaccine	240
Influenza with tetra vaccine	240
5. Microbic filtrates (Polymicrobic bouillon-vaccine, shock treatment)	241
6. Specific treatment of tuberculosis	241

CHAPTER VIII. — TREATMENT OF INFECTIOUS DISEASES WITH BACTERIOPHAGE (LYTIC PRINCIPLE) **244**

CHAPTER IX. — SERUM TREATMENT	
A.	Antitoxic Sera:
Diphtheria	247
Scarlet fever	249
Tetanus	250
Staphylococcus infections.	251
Botulism	252
Venoms	253
B.	Antimicrobic Sera:
Streptococcus infections	254
Pneumococcus infections	255
Meningococcus infections	255
Plague	257
Anthrax	257
C.	Antimicrobic and Antitoxic Sera:
Bacillary dysentery	258
Colibacillosis	260
Gangrene	261
Peritonitis	262
Typhoid fever	264
Cholera	265

	Pages
D. <i>Antipoliomyelitis Serum</i>	265
E. <i>Convalescents' Sera</i>	266

CHAPTER X. — TRANSFUSION AND IMMUNO- TRANSFUSION DURING THE COURSE OF INFECTIOUS DISEASES	268
--	------------

CHAPTER XI. — SULPHONAMIDE TREATMENT IN INFECTIOUS DISEASES.	280
ANTI-BIOTIC PRODUCTS OF MICROBIC ORIGIN (FUNGI, BACTERIA)	286

Part III.

CHAPTER XII. — COLLECTION OF PATHOLOGI- CAL SPECIMENS FOR BACTERIOLOGICAL, SEROLOGICAL, ETC., DIAGNOSIS, CAPTURE OF VECTOR INSECTS, ETC.	293
---	------------

Blood	294
Sputum	298
Faeces	298
Purulent exudates	299
Urine	300

HANDBOOK OF INFECTIOUS DISEASES 13

	<i>Pages</i>
Pathological products collected at post-mortems	300
Capture of insects, vectors of germs or viruses	301
Special methods for the collection and despatch of certain pathological specimens	302

**CHAPTER XIII. — BRIEF DIRECTIONS WITH
REGARD TO THE BACTERIOLOGICAL
EXAMINATION OF WATER** 304

* * *

INDEX

Index of subjects	309
Index of authors	323
References	331