

**VETERINARY  
MEDICINE SERIES, NO.  
4. SWINE DISEASES**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649002061

Veterinary medicine series, No. 4. Swine diseases by A. T. Kinsley

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](http://www.triestepublishing.com)

**A. T. KINSLEY**

**VETERINARY  
MEDICINE SERIES, NO.  
4. SWINE DISEASES**



VETERINARY MEDICINE SERIES

No. 4

---

# SWINE DISEASES

BY

A. T. KINSLEY, M. Sc., D. V. S.

ILLUSTRATED

Chicago

AMERICAN JOURNAL OF VETERINARY MEDICINE

1914

SF 971

K5

Library  
Department

**Main Lib.  
Agric. Dept.**

COPYRIGHT 1914

BY

D. M. CAMPBELL

*Original - 1914*

OSTER

## PREFACE

---

The experience of the writer in teaching, and in the manufacture and distribution of anti-hog cholera serum, no less than in practice, has forcibly impressed upon him the need of the veterinary profession for more general knowledge of the diseases of swine.

They are not few who maintain that veterinary practice in the future will be concerned largely with the food-producing animals. The automobile has already supplanted most of the fancy driving horses; the auto-truck does much that would otherwise be accomplished by horses; and predictions are rife that the gasoline tractor will soon be made practicable for work on small farms. All things considered it seems probable that the equine population of the country is destined to increase but slowly if at all. The keeping of pet animals, including dogs and cats, is being looked upon more and more as an insanitary practice, while the farm dog and the roaming cur are becoming more and more the object of antagonistic legislation. Contrasted with the foregoing, the increasing price of meat food products makes it seem desirable that veterinarians in general better equip themselves for the treatment of the ailments of food producing animals and thus qualify themselves to render greater service to the public in

a line of practice that is not likely to be affected by progress and invention.

It is the aim of this work to supply this information in a compact, readily assimilated form for both students and practitioners. Acknowledgement must be made to Dr. D. M. Campbell, editor of the *American Journal of Veterinary Medicine* for the illustrations used herein, and he wishes me to, in turn, acknowledge his indebtedness to Dr. L. Enos Day, in charge of the Branch Pathological Laboratory of the Bureau of Animal Industry of Chicago, and his assistant Dr. G. Tinsley Creech, for permission to photograph a number of specimens in the very excellent museum maintained in connection with their laboratory. And also indebtedness to the American Serum Company of Kansas City for photographs of their plant used in illustrating the manufacture of anti-hog cholera serum.

A. T. KINSLEY.

Kansas City, December 1914.



# CONTENTS

SECTION I.		PAGE
THE DIGESTIVE SYSTEM.....		9
<i>Lips</i> ; Malformations—Cheilitis—Tumors. <i>Tongue</i> ; Glossitis—Tumors—Parasites. <i>Mouth</i> ; Stomatitis—Scurvy—Parotiditis—Tonsillitis. <i>Pharynx</i> ; Pharyngitis—Pharyngeal Paralysis—Tumors. <i>Esophagus</i> ; Malformations—Stenosis—Dilatation—Perforation—Esophagitis—Tumors. <i>Stomach</i> ; Malformations—Foreign Bodies—Emesis—Anemia—Hematamesis—Peptic Ulcers—Hyperemia—Gastritis—Dilatation—Tumors—Parasites. <i>Intestines</i> ; Malformations—Entorrhagia—Obstruction—Dilatations—Emphysema—Enteritis—Toxic Gastritis, Gastroenteritis, Enteritis—Scours in Sucklings—Parasites—Tumors. <i>Liver</i> ; Malformations—Foreign Bodies—Rupture—Icterus—Cloudy Swelling—Fatty Changes—Amyloid Changes—Glycogenic Infiltration—Cholelithiasis—Hyperemia—Hepatitis—Tumors—Parasites. <i>Pancreas</i> ; <i>Peritoneum</i> ; Injuries—Ascites—Peritonitis—Tumors—Parasites.		
SECTION II.		
THE RESPIRATORY SYSTEM.....		75
<i>Nose</i> ; Epistaxis—Rhinitis—Infectious Nasal Catarrh—Tumors. <i>Larynx</i> ; Laryngitis—Tumors. <i>Trachea</i> ; Malformations—Stenosis—Tracheitis—Tumors. <i>Bronchial Tubes</i> ; Stenosis—Bronchitis—Verminous Bronchitis and Pneumonia. <i>Lungs</i> ; Atelectasis—Emphysema—Edema—Hemorrhage—Pneumonia—Tumors—Parasites. <i>Pleura</i> ; Hydrothorax—Hemothorax—Pneumothorax—Pleurisy—Tumors.		
SECTION III.		
THE URO-GENITAL SYSTEM.....		99
<i>Kidneys</i> ; Malformations—Hydronephrosis—Hemorrhage—Fatty Changes—Calculi—Congestion—Nephritis—Pyelonephritis—Albuminuria—Uremia—Tumors—Parasites. <i>Ureters</i> ; Malformations. <i>Bladder</i> ; Malformations—Hematuria—Dilatation—Calculi—Cystitis—Tumors. <i>Urethra</i> ; Stricture—Urethritis. <i>Prostate-Gland</i> ; <i>Cowper's Glands</i> ; <i>Testicles</i> ; Orchitis and Epididymitis—Tumors. <i>Sequels to Castration</i> ; Hemorrhage—Infection—Botryomycosis—Actinomycosis—Parasites—Scrotal Hernia. <i>Penis</i> ; <i>Ovary</i> ; Malformations—Hemorrhage—Oophoritis—Cysts—Tumors. <i>Fallopian Tubes</i> ; <i>Uterus</i> ; Malformations—Injuries—Hemorrhage—Metritis—Tumors. <i>Vagina</i> ; <i>Vulva</i> ; <i>Mammary Glands</i> ; Mammitis—Botryomycotic Mammitis—Actinomycotic Mammitis—Tuberculous Mammitis—Tumors.		

## CONTENTS—Continued

### SECTION IV.

ORGANS OF LOCOMOTION.....	135
---------------------------	-----

Sore Feet—Fatty Degeneration—Muscular Rheumatism—Articular Rheumatism—Rachitis—Osteomalatia—Purulent Osteomyelitis—Trichinosis—Cysticercosis (measles)—Sarcosporidiosis—Tumors.

### SECTION V.

THE SKIN.....	149
---------------	-----

Erythema—Sunburning—Freezing—Hemorrhage—Urticaria—Eczema—Dermatitis Granulosa—Necrobacillosis—Actinomyces—Tumors—Parasites.

### SECTION VI.

CIRCULATORY ORGANS.....	159
-------------------------	-----

*Heart*; Pericarditis—Hemorrhage—Fatty Changes—Endocarditis—Tumors—Parasites. *Blood Vessels*: Blood; Anemia—Leukemia. *Spleen*; Necrosis—Hyperthrophy—Sarcomatosis.

### SECTION VII.

THE NERVOUS SYSTEM.....	163
-------------------------	-----

Malformations—Delirium—Viciousness—Sunstroke—Heat Stroke—Lightning Stroke—Epilepsy—Dentition—Eclampsia—Chorea—Cerebral Hyperemia—Parasites.

### SECTION VIII.

INFECTIOUS DISEASES.....	169
--------------------------	-----

*Hog Cholera*; History—Extent—Etiology—Sources of Infection—Manner of Infection—Susceptibility—Channels of Infection—Period of Incubation—Lesions—Symptoms—Diagnosis—Prognosis—Treatment—Preventative Treatment—Anti-Hog Cholera Serum—Manufacture and Use. *Swine Plague*: *Necrobacillosis*; Necrotic Stomatitis—Necrotic Enteritis—Necrotic Rhinitis—Necrotic Pneumonia—Necrotic Hepatitis—Necrosis of the Spleen—Vaginal, Vulvar and Preputial *Necrobacillosis*—*Necrobacillosis of the Skin*—Other Forms of *Necrobacillosis*. *Tuberculosis*: *Pyemic Arthritis*; *Spasms of the Diaphragm*; *Rabies*; *Foot and Mouth Disease*.

## ILLUSTRATIONS

---

FIGURE	PAGE
1. Glossitis .....	11
2. Ascaris Suum .....	48
3. Gigantorhynchus Hirudinaceus .....	52
4. Adeno-Sarcoma of the Kidney .....	111
5. Actinomycosis .....	121
6. Scirrhus Cord due to Botryomycotic Infection .....	122
7. Infection of the Udder .....	131
8. Cysticercosis (Pork Measles) .....	145
9. Pedunculated Fibroma .....	146
10. Elephantiasis .....	152
11. Mucous Membrane of the Bladder .....	177
12. Mucous Membrane of the Intestine .....	179
13. Hearts .....	181
14. Early Stages of Hog Cholera .....	183
15. Acute Hog Cholera, Advanced Stage .....	185
16. Heart Showing Hemorrhages due to Hog Cholera .....	187
17. Kidneys .....	188
18. Lymph Nodes .....	189
19. Virus Bleeding Room .....	194
20. Hyperimmunizing Room .....	196
21. Serum Centrifuging Room .....	200
22. Sterilizing Room .....	201
23. Cholera-Immune Hogs .....	203
24. Necrobacillosis .....	212
25. Fat Necrosis .....	215
26. Tuberculosis of the Tongue .....	221
27. Tuberculosis of the Skin .....	222
28. Tuberculosis of the Pleura .....	225