PATHOLOGICAL HORSE-SHOEING: A
THEORY AND PRACTICE OF THE SHOEING
OF HORSES;
EMBRACING ALSO AN OUTLINE OF THE
ANATOMY AND PHYSIOLOGY OF THE
FOOT OF THE HORSE

Published @ 2017 Trieste Publishing Pty Ltd

#### ISBN 9780649125623

Pathological horse-shoeing: a theory and practice of the shoeing of horses; embracing also an outline of the anatomy and physiology of the foot of the horse by Joseph Brine Coleman

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

## JOSEPH BRINE COLEMAN

PATHOLOGICAL HORSE-SHOEING: A
THEORY AND PRACTICE OF THE SHOEING
OF HORSES;
EMBRACING ALSO AN OUTLINE OF THE
ANATOMY AND PHYSIOLOGY OF THE
FOOT OF THE HORSE



# INDEX.

Anatomy and Physiology of the Foot of		Functions of	39
the Horse-General Remarks	10	Reasons versus Ipse Divits	49
Definitions	48	Periosteal and Endosteal Membranes	4
External Structures of the Foot	18	Sensitive Luminae	43
The Wall	+8	An Undetermined Question	43
Composition of	19	Interperiosteal i'ad	43
Form of	10	Relative Weights Sustained by Fore and	
Shape of	20	Hind Limbs	**
Bars, Braces, or Buttresses of	20	Facilis Decensus Avernus	43
Laminated Internal Surface of	218	Sensitive Sole	45
Epidermis or Cuticle of	20	An Erroneous Conception Exposed	45
Coronary Concavity	20	Mr. Fleming, Rise and Explain	47
Angle of Inflection, Abnormal	21	The Solar Zone	43
Horny Sole and its Functions	9.5	Sensitive Frog	47
Peculiarities of Structure	2.4	Functions of	45
Horny Frog and its Functions	24	Characteristic Structure of	43
Peculiar Properties of	21	Importance of Healthy Condition of	49
Internal Apex of	25	Structure Indicates Function	49
Remarkable Appendix to	95	Maximum and Minimum of Lateral Move-	
Coronary Frog-band	26	ments	5
Fleming's Description of	27	Summary of Views	54
Internal Tissues of the Foor-Its Parts		Tendons and Tendinous Textures-Par-	
Particularized	28	ticularized	58
Bone, Chemical Constitution of	18	General Character of	54
General Characteristics of	79	Important Anatomical Fact	5
Banes of the Foot	30	Flexor Tendons	54
Os Pedis	30	Remarkable Mechanical Arrangements of	53
"A Mockery, A Delusion, and A Snare."	3.4	Three-fold Functions of	54
Pedestal of the Column	34	Extensor Tendons	54
Remarkable Construction of	12	Accessories of	55
Essential Importance of the Fost	32	The True Suspensor	56
Os Coronae	3.8	Low Instep, Frequent Source of Lameness	54
Os Naviculare	3.7	Antagonizing Forces	50
Stellate Ligaments of,	34	Secret of Knee Action	57
Cartilaginous Structures of the Foot	35	Tendinous Expansions	57
Lateral Cartilages	35	Lesser Ligaments of the Articulations	57
Inferior Cartilages	35	Synovial Membranes	58
Articular Cartilage	36	Diseases of, and their Sequelar,	55
Remarkable Characteristics of	37	A Common Error Corrected	32
Buffers and Gilding Surfaces	37	The Circulatory System of the Foot	60
A Knotty Question	98	Arteries	60
Ligamentons Textures of the Foot	39	General Remarks Upon	60
Coronary Ligament	50	Characteristics of	61

With the color transmit of		340 Important Outston Supplied 9
The Plantar Arteries, Description of	Ga	"Language the Key to the Sciences" 9
The Plantar Capillaries	04	Authorized Definitions 93
Physiological Facts	65	What Does Atrophy Mean? 90
Veins	66	Value of the Word Atrophy 9
Microscopic Anatomy of	66	Facts versus Fallacies
Anatomical Arrangement Described	68	Varieties of Feet-How Produced 94
Veins of the Foot Have No Valves	67	Effects of Dry Atmosphere 94
The Reason Why	68	Varieties and Effects of Contraction 9
Lymphatics of the Foot	tig.	The Invariable Cause of Quarter-Crack. 16
Scavengers or Sanatory Agents	70	The Diseases of the Foot of the Horse-
Lymphatic Glands	71	Contraction-Symptoms and Treat-
Nerves	71	ngent 95
General Remarks Upon Nervous System		Positive and Negative Evidence 07
Nerves of the Foot	70	Preparation of the Foot
Distributive Arrangement of	70	Form
Is the Equine Fout an Organ of Special		The Best Kind of Shoe 100
Sensation?	73	Nail-holes and Naiting ros
Prima Facie Reasons	74	Acute Luminitis Acute Rheomatism-
Analogical Argument		Acute Founder-Proximate Causes
An Objection Anticipated	75	af με
Experientia Docet		Symptoms and Treatment to
Relative Sensibility of the Equine Foot	76	A Puzzling Problem 100
Causes of Impaired Action	76	The Cure, "That is the Question" 164
Sub-acute Laminitis		Octogenarian Vetericarians
Acute Laminitis	77	The Kind of Reception 10
General Causes - Diverse Effects	78	Special Points in Shoring for Laminitis ros
Injuries from Nailing on the Shoe	201	Broad's Laminitis Shoe
Source of Pain in the Foot	79	A Point of Importance
External Sources of Pain in the Foot	844	The Rolling Motion Expedient 100
Muscular Spasms, or Cramp	80	Depletion, When Desirable
Non-Inflammatory Affections	84	Constitutional Treatment 103
The "Ragged Edge"	80	Chronic Laminitis Chionic Founder-
Possible Cause of Stringhalt	Sr	Pumiced Foot 103
Secreting Structures of the Foot Par-		Authorized Errors Combated
ticularized	82	Support the Sole 10
" Ample Room and Verge Enough"	82	"Stubborn Facts" versus "High Author-
Constitution of Secreting Villa	81	ity" 10
Fluid Elements of the Foot Particularized	83	A Demonstrable Fact
Physical Properties of the Blond	83	The Why and the Wherefore
Important Physiological Facts	83	Common-Sense Shoring the Desideratum 110
Red and White Blood-Cells	84	How to shoe the Pumiced Foot tre
Chemico-vital Changes in the Blood	10000	Navicular Disease- Causes and Symp-
Judicious Mechanical Expansion	85	toms
The "No-Contraction and Non-Expon-		Rheumatic Symptoms
sion Heresies	86	Treatment
Preliminary Remarks	86	Ringbone-Etiology and Pathology 11
Facts versus Theories	87	Treatment
Contraction as a Morbid Condition	88	Sidebones-Ossification of the Lateral
The Reviewer Reviewed	811	Cartilages - Etiology and Pathology 114
Age not the Gage of Experience	80	Treatment
" Be Just and Fear Not "		Corn-Causes and Symptoms
	80	The Old Theory 118
Essence of Gamgee		The Writer's Theory
The Case Stated	90	THE PURISH A WORLD AND THE PROPERTY OF THE PARTY OF THE P

Contraction, or Lateral Pressure, the	Facts of Pathology
Cause of Com 216	Concurrent, or Predisposing Causes
Treatment of Corn	Invaluable Adjunctive Measure
Concomitants of Contraction 117	Stringhalt- A Mysterious Malady 13
No Bar-Shoes Necessary for the Cure of	Notes and Queries
Any Corn 117	Peculiar Mechanism of the Hock Laint 14
Supporating Corn	Does Stringbalt Constitute Unsoundness / 14
Nothing Like Expansion of the Quarters	Professor Spooner's Hypothesis 14
to Cure Corn	Percival's Opinion 14
Toe-Crack and Quarter-Crack- Etiology	Microscopical Research 14
and Pathology 148	Professor Spaones's Final Judgment 14
Contractionists, and Non-Contractionists 119	Physiological Attribute of the Hock-
Solid Proofs Wanted, Not Fallacious Ar-	Joint 14
guments 119	Busteed's Belief
The True Rationale of Quarter-Cruck rec	Professor Spooner's Strictures
Centers of Rotation, or Motion 1901	Dr. Busteed's Claim as a Discoverer 14-
Correlative Movements ret	Experimental Facts
Rationale of Treatment 121	A Curious Coincidence
A Sine Qua Non	The Writer's Suggestion 14
An Exploded Fallacy 122	Summarized Statement of Author's The-
Quarter Before, Toe Behind, 125	ory
The Cause, Par Extellence	Summary of Changes
What to Do, What Not to Do 12)	Incipient Contraction
False Quarter-Shelly Foot-Seedy Toe. 124	Advanced Contraction 447
False Quarter	Uniforming of Least Courts
Treatment	Ussification of Lateral Cartilages 147
Shelly Foot	Laminitis
Treatment	Drop Sole, or Pumiced Foot
Seedy Toe Special Characteristics 125	Navicular Disease
General Treatment	Ringbone
Grease - Scratches - Chapped Heels-	Corns
Thrush-Etiology and Pathology 128	Quark-Clack
Fatty Follicles and Their Functions. 128	Toe-Crack 142
Crowding and Dwarfing the Tissues 128	False Quarrer
Difficult to Misunderstand	Shelly-Foot 149
The Marking and C.C.	Seedy-Toc
The Machinery out of Geor 129	Scratches
Had Enough at That	Thrush of the Frog
Treatment of Grease or Scratches (30	Canker of the Sole t49
Treatment of Thrush	General Atrophy of the Foot 149
The All-Important Adjunct	Accidental Injuries 140
Treatment of Canker	Treads 149
Some Cures Contrary to All Expectation 131	Bruises 149
Atrophy of the Foot-Dry Rot 133	Injuries from Calking
Contraction, Eath Cause and Couse-	Quittors 149
Quence 133	Suppurating Corns
General Principles of Treatment 133	Picking Up Nails 149
Accidental Injuries	Injuries Connected With Shoeing 140
Calking the Instep	Constitutional Complaints 149
Characteristics of Quittor	Tetanus, or Locked Jaw 140
A Remarkable Resemblance 134	Pneumonia r49
The Most Powerful Adjunct	Pleurisy 149
Tetanus or Lucked-Jaw-Etiology and	Gastritis 149
Pathology 135	Enteritis
Mysterions Intertransmutations of Disease 136	Gastro-Enteritis149
3,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Skin Affections 149	Hoof Dressings-Their Use and Abuse 16:
Sweeny, or Atrophy of Muscles	Hoof Stimulants
Irregularities of Gait and Action 150	Hoof Salves
Conclusion	Hoof Stoppings for Sole and Frog 164
	Constitutional Treatment
FORMULE:	Preliminary Remarks 166
Poultices and Poultice Boots 152	
Fomentations for Different Forms of In-	
jury	
Lotions for Various Purposes 154	
Liniments and Embrocations for Sprains,	Glossary, 170
Bruises, ete	Special Notification 179
Liniments and Salves for Canker, Thrush,	Testimonials
etc 157	How to make a Book 184
Powders for Scratches, Canker, Thrush,	The Play without the Part of Hamlet 181
elc	Acknowledgments 182
Powders for Cleaning Foul Ulcers, etc 160	Unexceptionable Testimony 182
Blistering Applications for the Removal	Letter from Addison Doughty 182
of Splents, Spavins, Ringbones, Side-	Letter from R. C. Anthony 184
tones, Bony Enlargements, Thick-	The Dilator 180
ened Tendons, etc	The Book and the Instrument-Terms 187
Enery remains even a contract that	

### APOLOGETIC AND EXPLANATORY

The author of this work is fully conscious of some errors of omission as well as commission to be found within its pages. although he deems them of minor importance, when compared with the really valuable and useful practical information it contains, upon a much neglected but highly important branch of veterinary science and art. It was intended that its pages should have been enriched with first-class engravings illustrative of the doctrines and the practice taught. These, however, the exigencies of professional duties, and other circumstances, would not admit of being executed in a manner that would be deemed satisfactory to the public, or the author. within the limits of time at the latter's disposal. He trusts that his desire for the issuance of his work during the most momentous celebration of human progress of modern times. may, to some extent, further excuse this omission, as well as the reduction of the original price-Five Dollars with illustrations, to Three Dollars without them. It is the author's intention to fully complete his work in a future edition, and to make it worthy in every respect of the age of enlightened progress in which we live; of the great epoch now being celebrated; of the Country, par excellence, which as yet, has exhibited the highest developement combined with the greatest utilization of speed in the noblest of all animals, the Horse; and of the important profession to which he has the honor to belong.



#### INTRODUCTORY.

#### HUMANE SOCIETIES AND IMPROVED HORSE-SHOEING.

Amongst the various secondary objects which Humane Societies, the world over, propose to themselves to attain in order to carry into effect their highest benevolent intentions towards the inferior order of created beings, which are associated with, or subject to, the service of mankind within the different spheres of civilization, there is none I deem of more transcending importance to the best interests of society, in subserving the noble aims, greater and lesser, which those societies have in view, and the well being of the quadruped under consideration, than improved methods of shocing horses, whether for the purpose of preventing disease and lameness, or for removing or ameliorating those abnormal conditions when present. The full measure or complement of all that is possible in these directions, ought to be accomplished.

The writer of the following pages on pathological horseshoeing, deeply impressed with this view, as well as actuated by a profound conviction of personal duty, earnestly desires to enlist the active sympathies and assistance of the above societies in every civilized community on behalf of what he regards as his mission of mercy to the victim of the most unaccountable ignorance of his necessities, in the management of one of his most essential organs of usefulness; yet, withal, an indispensable and invaluable adjunct of civilization everywhere.

About three years since, the Scottish Society for the Prevention of Cruelty to Animals, awarded prizes "for the best and most practical essays on horse-shoeing, in connection with the comfort and soundness of the horse." Upwards of forty essays