



Contents

Contributors	xi
Foreword	xiii
Preface	xvii
Acknowledgments	xxi

PART I

Historical Development and Current Theories of Myofascial Manipulation 1

CHAPTER 1

Historical Basis for Myofascial Manipulation 3

Robert I. Cantu and Robert W. Stanborough

Ancient Times..... 4

Modern Times: The Trend Toward Mobility and Diagnosis of Pathology 10

Future Considerations 13

CHAPTER 2

Modern Theories and Systems of Myofascial Manipulation 17

Robert I. Cantu, Alan J. Grodin, and Robert W. Stanborough

Autonomic Approaches 17

Mechanical Approaches..... 21

Movement Approaches 25

Conclusion..... 28

PART II

Scientific Basis for Myofascial Manipulation 31

CHAPTER 3

Histology and Biomechanics of Myofascia..... 33

Robert I. Cantu and Robert W. Stanborough

Histology and Biomechanics of Connective Tissue	33
Histology and Biomechanics of Muscle	54
Histology and Biomechanics of Junctional Zones.	58
Conclusion.	63

CHAPTER 4

Histopathology of Myofascia and Physiology of Myofascial Manipulation	69
--	----

Robert I. Cantu, Alan J. Grodin, and Robert W. Stanborough

Histopathology of Myofascia	69
Physiology of Myofascial Manipulation	80
Conclusion.	86

CHAPTER 5

Neuromechanical Aspects of Myofascial Pathology and Manipulation	91
---	----

Clayton D. Gable

Basic Afferent Neurology of Connective Tissue	92
Receptor Influence on Movement	105
Muscle Tone.	111
Application to Specific Therapeutic Techniques	117
Conclusion.	121

CHAPTER 6

Muscle Pain Syndromes	125
---------------------------------	-----

Jan Dommerholt and Robert W. Stanborough

Soft Tissue Lesion and Mechanical Dysfunction.	126
Myofascial Pain Syndrome	128
Fibromyalgia	149

PART III

Evaluation and Treatment of the Myofascial System	181
---	-----

CHAPTER 7

Basic Evaluation of the Myofascial System.	183
--	-----

Robert I. Cantu, Alan J. Grodin, and Robert W. Stanborough

History	184
Postural and Structural Evaluation	185

Active Movement Analysis	193
Compressive Testing of the Spine.....	195
Palpatory Examination	195
CHAPTER 8	
Atlas of Therapeutic Techniques	199
<i>Robert I. Cantu, Alan J. Grodin, and Robert W. Stanborough</i>	
Techniques for the Lumbar Spine	205
Techniques for the Lumbopelvic/Lower Quarter Area.....	248
Techniques for the Thoracic/Upper Thoracic Spine and Upper Extremity. . . .	279
Techniques for the Cervical Spine	305
Index.....	317
About the Authors	327