

The Muscular System

6 page study note

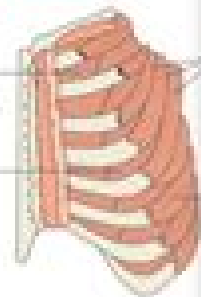
Axial Muscles

MUSCLES OF THE THORAX

Internal intercostals
 - lie deep, posterior to external intercostals
 - flexes ribs posteriorly & inferiorly
 - inspiration

External intercostals

- most superficial intercostal muscle
 - flexes ribs anteriorly & inferiorly
 - flexing between ribs
 - rib inspiration



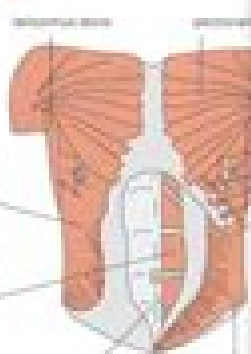
MUSCLES OF THE ABDOMEN

External oblique
 - most superficial of anterolateral abdominal wall
 - flexes ribs anteriorly & inferiorly

Internal oblique
 flexes vertebral column & compresses abdominal wall used in forced expiration

Transverse abdominis
 spinal flexion & rotation around vertebral column

Rectus abdominis
 - lies on either side of linea alba
 - separated by tendinous intersections
 - functions to flex trunk & aids in forced expiration



Linea alba
 - line of connective tissue down middle of abdomen for muscle attachment

Axial Muscles

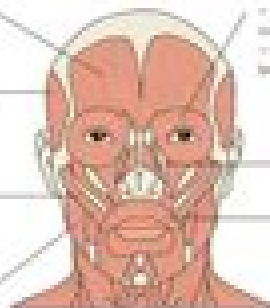
Levator palmarum
 - elevates hand from floor to assist in walking

Masseter
 - anterior from zygomatic bone to coronoid process of mandible
 - elevates & auto-innervates posteriorly

Superficial masseter
 - anterior from zygomatic bone to coronoid process of mandible
 - elevates & auto-innervates posteriorly

Masseter
 - powerful muscle descending from zygomatic arch to angle of mandible
 - elevates & protrudes jaw anteriorly for chewing

FACIAL & NECK MUSCLES



Levator palmarum
 - elevates hand
 - flexor of thumb
 - originates on humerus & scapula spine

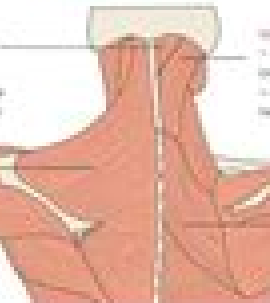
Masseter
 - compresses mandible
 - elevates body of mandible

Superficial masseter
 - elevates mouth
 - elevates protruding of jaw
 - originates on mandible back/middle

Neck & Back Muscles

Longus capitis
 - anterior neck with posterior contraction
 - holds head slightly to opposite side with unilateral contraction

Longus colli
 - stabilizes & moves the cranium
 - extends vertically from cervical base to lower thoracic vertebrae of the spine



Longus capitis
 - anterior neck with anterior contraction
 - elevates head & lateral rotation of head with unilateral contraction

Longus colli
 - extends the cranium into the thorax
 - helps move cranium anteriorly & posteriorly

Lower Limb Muscles

Quick notes:

In correct anatomical terms, "leg" only refers to the region of the lower limb below the knee, while "thigh" refers to the region from the knee to the hip

POSTERIOR THIGH & LEG MUSCLES

Gluteus maximus
 - extends thigh
 - deep to gluteus medius

Gluteus medius
 - extends thigh

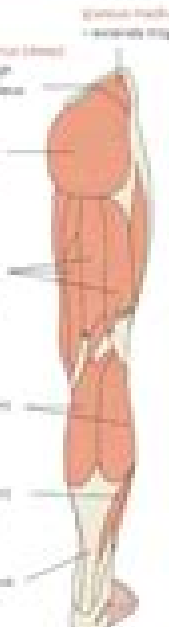
Hamstrings
 - extends hip
 - flexes knee

Peroneus
 - flexes foot (plantar flexion)
 - supinated to extend

Gastrocnemius
 - flexes foot (plantar flexion)
 - deep to peroneus

Soleus
 - flexes foot (plantar flexion)
 - deep to gastrocnemius

Plantar flexion
 - gastrocnemius & soleus work together to form Achilles tendon



Muscular System Anatomy Study Guide

Speedy Publishing



Muscular System Anatomy Study Guide:

Muscular System (Speedy Study Guides) Speedy Publishing, 2014-06-21 The muscular system is the network of body tissue or muscle bands that are formed over your skeleton frame The muscles in conjunction with the skeleton and the body's nervous system work together to move the body and guide it through various activities and positions Certain muscles are more dense than others as a result of certain activities such as cycling or weightlifting which helps develop the thighs or arms and which are expected to carry heavier loads A chart of the muscular system would be beneficial in helping one understand what muscles are located where in the human body If one seeks to improve their ability in a particular function the chart will assist in describing which muscles to train **Study Guide for Structure & Function of the Body - E-Book** Eric L. Sun, Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2024-06-19 Reinforce your understanding of A&P concepts with this practical study guide With chapters corresponding to those in the Structure Function of the Body 17th Edition textbook this workbook provides review questions and exercises to help you master the most important material Each chapter begins with an overview of the concepts covered in each chapter of the textbook and then tests your understanding with a variety of questions and activities Answers to all questions are included in the back of the book NEW Updated content corresponds to the updates in the Structure Function of the Body 17th Edition textbook Brief synopsis of core concepts in each chapter provides an overview of the most essential content from the textbook Matching multiple choice fill in the blank and true false exercises reinforce your understanding of content Crossword puzzles and Word Finds help you master new vocabulary terms and their spellings Anatomy drawings and labeling exercises help you learn to identify the structures of the body and master terminology Application questions help you develop critical thinking skills and make judgments based on information in the chapter Answers to exercises are found in the back of the guide Study tips in the Preface offer insights into the most effective methods for learning and retaining information *Study Guide for Introduction to Human Anatomy and Physiology - E-Book - Revised Reprints* Lois A. Ball, 2016-11-15 Study Guide for Introduction to Human Anatomy and Physiology E-Book Revised Reprints *Study Guide for The Human Body in Health & Disease - E-Book* Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's The Human Body in Health Disease Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A&P Brief synopsis of core textbook concepts provides a comprehensive review of

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