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human muscle system the muscles of the human body that work the skeletal system that are under voluntary control and that are concerned with movement posture and balance broadly considered human muscle like the muscles of all vertebrates is often divided into striated muscle smooth muscle and cardiac muscle 1 mobility the muscular system s main function is to allow movement when muscles contract they contribute to gross and fine movement gross movement refers to large coordinated motions and last updated january 15 2021 definition the muscular system is a set of tissues in the body with the ability to change shape muscle cells connect together and eventually to elements of the skeletal system when the muscle cells contract force is created as the muscles pull against the skeleton 113133 suzanne wakim mandeep grewal butte college this chapter describes the structure and functions of the muscular system it compares and contrasts the three major types of muscle tissue and explains in detail how muscles contract according to the sliding filament theory overview what are muscles muscles are pieces of soft tissue throughout your body they help you do everything from holding your body still to running a marathon muscles also move and support your organs your heart is a hard working muscle that beats thousands of times a day to keep you alive explore the muscular system with innerbody s interactive 3d anatomy models including the muscles of the arms legs chest back and more chapter 6 bone tissue and the skeletal system the muscular system 11 0 introduction 11 1 describe the roles of agonists antagonists and synergists the muscular system is an organ system consisting of skeletal smooth and cardiac muscle it permits movement of the body maintains posture and circulates blood throughout the body the muscular systems in vertebrates are controlled through the nervous system although some muscles such as the cardiac muscle can be posture takeaway what are the main functions of the muscular system muscles play a part in every function of the body the muscular system is made up of over 600 muscles these include three 5022 30316 5022 anatomical terminology edit on wikidata muscle is a soft tissue one of the four basic types of animal tissue muscle tissue gives skeletal muscles the ability to contract muscle is formed during embryonic development in a process known as myogenesis the musculoskeletal system locomotor system is a human body system that provides our body with movement stability shape and support it is subdivided into two broad systems muscular system which includes all types of muscles in the body skeletal muscles in particular are the ones that act on the body joints to produce movements through these properties the muscular system as a whole performs several important functions these include the production of force and movement support of body stature and position stability of joints production of body heat to maintain normal body temperature as well as provision of form to the body 10 1 introduction to the muscular system the focus of this chapter is on skeletal muscle organization the system to name skeletal muscles will be explained in some cases the muscle is named by its shape and in other cases it is named by its location or attachments to the skeleton a typical myofiber is 2 3 centimeters 3 4 1 1 5 in long and 0 05millimeters 1 500 inch in diameter and is composed of narrower structures myofibrils these contain thick and thin myofilaments made up mainly of the proteins actin and myosin numerous capillaries keep the muscle supplied with the oxygen and glucose needed to fuel the muscular system explained in 6 minutes youtube cte skills com 233k subscribers subscribed 31k 3m views 8 years ago health science principles see more videos download page pdf download full book pdf resources expand more periodic table physics constants scientific calculator reference expand more reference cite tools expand more 1 a of relating 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