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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 muscular system muscular the primary job of muscles is to move the bones of the skeleton but muscles also enable the heart to beat and constitute the walls of other vital hollow organs there are three distinct types of muscle skeletal muscle cardiac or heart muscle and smooth non striated muscle muscles provide strength balance posture movement and heat for the body to keep warm 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 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 the muscular system is made up of muscle tissue and is responsible for functions such as maintenance of posture locomotion and control of various circulatory systems this includes the beating of the heart and the movement of food through the digestive system overview muscle tissue has four main properties excitability an ability to respond to stimuli contractibility an ability to contract the muscular system consists of various types of muscle that each play a crucial role in the function of the body muscular system functions include mobility stability posture the muscular system is made up of three types of muscle tissue skeletal smooth and cardiac muscle tissue they differ in terms of their location cell structure and innervation the muscular system consists of all the muscles of the body the largest percentage of muscles in the muscular system consists of skeletal muscles which are attached to bones and enable voluntary body movements explore the muscular system with innerbody s interactive 3d anatomy models including the muscles of the arms legs chest back and more explain the structure and organization of muscle fascicles and their role in generating force explain the criteria used to name skeletal muscles identify the skeletal muscles and their actions on the skeleton and soft tissues of the body smooth cardiac and skeletal muscle move to facilitate body functions like heartbeats digestion and moving bones neurotransmitters and chemical reactions work together to facilitate movement the muscular system is the biological system of humans that produces movement the muscular system in vertebrates is controlled through the nervous system although some muscles like cardiac muscle can be completely autonomous there are three major muscle types found in the human body skeletal cardiac and smooth muscle each muscle type has unique cellular components physiology specific functions and pathology skeletal muscle is an organ that primarily controls movement and posture cardiac muscle encompasses the heart which keeps the human body alive hugh esmor huxley giovanni alfonso borelli related topics human muscle system hamstring abdominal muscle gluteus muscle sternohyoid muscle muscle contractile tissue found in animals the function of which is to produce motion proteins how proteins build muscle see all videos for this article musculoskeletal system 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 biology definition the muscular system is an organ system responsible for providing strength keeping up the balance maintaining posture allowing movement and producing heat it includes all the muscle tissues such as the skeletal muscle tissues smooth muscle tissues and cardiac muscle tissues the muscular system is made up of over 600 muscles these include three muscle types smooth skeletal and cardiac only skeletal muscles are voluntary meaning you can control them key terms the musculoskeletal system in the musculoskeletal system the muscular and skeletal systems work together to support and move the body the bones of the skeletal system serve to protect the body's organs support the weight of the body and give the body shape

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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

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