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blood vessels and lymphatics of the lower limb lymphatic drainage of the lower limb venous drainage of the lower limb 1 more master lower limb anatomy using this topic page click now to study the muscles arteries veins and nerves of the lower limb at kenhub the leg is the entire lower limb of the human body including the foot thigh or sometimes even the hip or buttock region the major bones of the leg are the femur thigh bone tibia shin bone and adjacent fibula anatomical atlas of the lower extremity diagrams of the pelvis hip thigh knee ankle and foot osteology myology arthrology nervous and vascular anatomy topographical and surface anatomy 3d interactive models and tutorials on the anatomy of the lower limb including the muscular compartments osseous structures blood supply and innervation bones and joints the lower limb is attached via the hip joint to the pelvic bones the femur or thigh bone extends down to the knee joint and articulates with the patella the bones of the leg include the larger tibia shin bone and the smaller fibula there are many bones in the lower limb including the femur thigh bone tibia and fibula shin bones and the bones of the foot each of these bones has a specific purpose and function the femur is the longest and strongest bone in the body and it serves to support the weight of the upper body to capture a more holistic picture of lower limb movements in everyday life we collected data from 12 participants performing 20 non cyclic activities e g sit to stand jumping squatting explain how anatomical structure affects movement capabilities of lower extremity articulations identify factors influencing the relative mobility and stability of lower extremity articulations explain the ways in which the lower extremity is adapted to its weight bearing function the lower limb is divided into three regions these are the thigh located between the hip and knee joints the leg located between the knee and ankle joints and distal to the ankle the foot there are 30 bones in each lower limb these are the femur patella tibia fibula seven tarsal bones five metatarsal bones and 14 phalanges muscles of the free lower limb previous muscle groups and muscles in the hip region thigh lower leg and foot the leg is defined anatomically as the portion of the lower limb from the knee joint to the ankle joint the muscles of the leg are divided into three compartments the anterior compartment the posterior compartment and the lateral compartment in total there are 13 separate muscles across these three

compartments the human lower limb can achieve diverse movements in daily living to build a comprehensive and representative categorization for the lower limb movements and explore their similarities and differences a motion dataset from previous work of the authors huang et al 2021a huang et al 2021b was analyzed in this study this cross sectional human anatomy atlas of the lower limb is an interactive tool based on mri axial images of the human leg anatomical structures of the lower limb hip thigh knee leg ankle and foot and specific regions compartment of the lower limb are visible on dynamic labeled images the lower limb bones of the lower limb bones of the lower limb bones of the foot tarsals metatarsals and phalanges the femur the patella the tibia the fibula the thigh muscles subdivide into the anterior medial and posterior compartments the function of the anterior compartment muscles is to extend the lower limb at the knee joint the innervation of the anterior compartment of the thigh is from the femoral nerve which originates from spinal roots l2 l4 and blood supply is from the femoral artery and its first branches this anatomical region abductor digiti minimi muscle of foot abductor hallucis muscle achilles tendon ankle annular ligaments of toes anserine bursa anterior compartment of leg anterior intermuscular septum of leg anterior menisiofemoral ligament with this study we provide a novel comprehensive overview of human lower limb biomechanics for daily essential and sportive movements the data was extracted to improve the dimensioning of robotic limbs that target human like performance muscles of the leg muscles in the posterior compartment of the leg muscles in the anterior compartment of the leg 1 more in this study we measured the muscle weight and the muscle fiber morphometry cross sectional area and total number of muscle fibers at the muscular belly and muscle fiber size of the human lower limb in an adult japanese cadaver male 58 years old

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there are many bones in the lower limb including the femur thigh bone tibia and fibula shin bones and the bones of the foot each of these bones has a specific purpose and function the femur is the longest and strongest bone in the body and it serves to support the weight of the upper body

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identify factors influencing the relative mobility and stability of lower extremity articulations
explain the ways in which the lower extremity is adapted to its weight bearing function

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the lower limb is divided into three regions these are the thigh located between the hip and knee joints the leg located between the knee and ankle joints and distal to the ankle the foot there are 30 bones in each lower limb these are the femur patella tibia fibula seven tarsal bones five metatarsal bones and 14 phalanges

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the human lower limb can achieve diverse movements in daily living to build a comprehensive and representative categorization for the lower limb movements and explore their similarities and differences a motion dataset from previous work of the authors huang et al 2021a huang et al 2021b was analyzed in this study

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the lower limb bones of the lower limb bones of the lower limb bones of the foot tarsals metatarsals and phalanges the femur the patella the tibia the fibula

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the thigh muscles subdivide into the anterior medial and posterior compartments the function of the anterior compartment muscles is to extend the lower limb at the knee joint the innervation of the anterior compartment of the thigh is from the femoral nerve which originates from spinal roots l2 l4 and blood supply is from the femoral artery and its first branches this anatomical

region

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