

Bone And Joint Imaging

Temporomandibular joint The joints are unique in their bilateral function, being connected via the mandible. temporomandibular joints (TMJ) are the two joints connecting the jawbone to the skull. It is a bilateral synovial articulation between the temporal bone of the skull In anatomy, the temporomandibular joints (TMJ) are the two joints connecting the jawbone to the skull. It is a bilateral synovial articulation between the temporal bone of the skull above and the condylar process of mandible below; it is from these bones that its name is derived ebf300c62a

Accessory bone An accessory bone or supernumerary bone is a bone that is not normally present in the body, but can be found as a variant in a significant number of people An accessory bone or supernumerary bone is a bone that is not normally present in the body, but can be found as a variant in a significant number of people. It poses a risk of being misdiagnosed as bone fractures on radiography ebf300c62a

Scaphoid bone It is situated between the hand and forearm on the thumb side of the wrist (also called the lateral or radial side). It forms the radial border of the carpal tunnel. It is situated between the hand and forearm on the thumb side of the wrist (also called the The scaphoid bone is one of the carpal bones of the wrist. It is approximately the size and shape of a medium cashew nut. The scaphoid bone is the largest bone of the proximal row of wrist bones, its long axis being from above downward, lateralward, and forward. The scaphoid bone is one of the carpal bones of the wrist ebf300c62a

Nuclear medicine provides functional imaging and allows visualisation of bone metabolism or bone remodeling, which most other imaging techniques (such as X-ray computed tomography, CT) cannot. Bone scintigraphy competes with positron emission tomography (PET) for imaging of abnormal metabolism in bones, but is considerably less expensive. Bone scintigraphy has higher sensitivity but lower specificity than CT or MRI for diagnosis of scaphoid fractures following negative plain radiography... ebf300c62a

Lunate bone It is distinguished by its deep concavity and crescentic outline. The lunate bone (semilunar bone) is a carpal bone in the human hand. It is situated in the center of the proximal row carpal bones, which lie between the ulna and radius and the hand. The lunate carpal bone is situated between the lateral scaphoid bone and medial

triquetral bone. It is situated The lunate bone (semilunar bone) is a carpal bone in the human hand. It is distinguished by its deep concavity and crescentic outline ebf300c62a

They are the most common and most movable type of joint in the body. As with most other joints, synovial joints achieve movement at the point of contact of the articulating bones. They originated 400 million years... ebf300c62a The talus has joints with the two bones of the lower leg, the tibia and thinner fibula. These leg bones have two prominences (the lateral and medial malleoli) that articulate with the talus. At the foot end, within the tarsus, the talus articulates with the calcaneus (heel bone) below, and with the curved navicular bone in front; together, these foot articulations form the ball-and-socket-shaped talocalcaneonavicular joint. ebf300c62a

PET for bone imaging This article focuses on the pharmacokinetics of [18F]NaF in bones, and various semi-quantitative and quantitative methods for quantifying regional bone metabolism using [18F]NaF PET images. Positron emission tomography is a functional imaging technique that uses [18F]NaF radiotracer to visualise and quantify regional bone metabolism and blood flow. [18F]NaF has been used for imaging bones for the last 60 years. for bone imaging, as an in vivo tracer technique, allows the measurement of the regional concentration of radioactivity proportional to the image pixel Positron emission tomography for bone imaging, as an in vivo tracer technique, allows the measurement of the regional concentration of radioactivity proportional to the image pixel values averaged over a region of interest (ROI) in bones ebf300c62a

Bone scintigraphy medicine provides functional imaging and allows visualisation of bone metabolism or bone remodeling, which most other imaging techniques (such as X-ray computed A bone scan or bone scintigraphy is a nuclear medicine imaging technique used to help diagnose and assess different bone diseases. These include cancer of the bone or metastasis, location of bone inflammation and fractures (that may not be visible in traditional X-ray images), and bone infection (osteomyelitis) ebf300c62a

Atlanto-occipital joint It The atlanto-occipital joint (Articulatio atlantooccipitalis) is an articulation between the atlas bone and the occipital bone. atlanto-occipital joint (Articulatio atlantooccipitalis) is an articulation between the atlas bone and the occipital bone. It consists of a pair of condyloid joints. It is a synovial joint. It consists of a pair of condyloid joints ebf300c62a

Talus bone It transmits the entire weight of the body from the lower legs to the foot. : tali), talus bone, astragalus (), or ankle bone is one of the group of foot bones known as the tarsus. The talus has joints with the two bones of the

lower leg The talus (; Latin for ankle or ankle bone; pl. of the ankle joint. The tarsus forms the lower part of the ankle joint. It transmits the entire weight of the body from the lower legs to the foot ebf300c62a

Synovial joint The joint capsule is made up of an outer layer of fibrous membrane, which keeps the bones together structurally, and an inner layer, the synovial membrane, which seals in the synovial fluid. The A synovial joint, also known as diarthrosis, joins bones or cartilage with a fibrous joint capsule that is continuous with the periosteum of the joined bones, constitutes the outer boundary of a synovial cavity, and surrounds the bones' articulating surfaces. This joint unites long bones and permits free bone movement and greater mobility. The synovial cavity/joint is filled with synovial fluid. a synovial cavity, and surrounds the bones' articulating surfaces. This joint unites long bones and permits free bone movement and greater mobility ebf300c62a

Diagnosis is generally by X-ray and other radiological tests such as CT scan, MRI, PET scan and bone scintigraphy. Blood tests might include a complete blood count, inflammatory markers, serum electrophoresis, PSA, kidney function and liver function... ebf300c62a The talus is the second largest of the tarsal bones; it is also one of the bones in the human... ebf300c62a

Bone tumor Average five-year survival in the United States after being diagnosed with bone and joint cancer is 67% A bone tumor is an abnormal growth of tissue in bone, traditionally classified as noncancerous (benign) or cancerous (malignant). Sometimes there are no symptoms and the tumour is found when investigating another problem. A bone tumor might present with a pathologic fracture. Other symptoms may include fatigue, fever, weight loss, anemia and nausea. most common bone tumor is a non-ossifying fibroma. There may be a lump, pain, or neurological signs from pressure. Cancerous bone tumors usually originate from a cancer in another part of the body such as from lung, breast, thyroid, kidney and prostate ebf300c62a

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