

Ans: Osteochondroma



Osteochondroma is a cartilage-covered bony excrescence (exostosis) that arises from the surface of a bone, and is usually thought of as benign bone tumor, and account for 10-15% of all bone tumors and 20-50% of all benign bone tumors.

Osteochondroma is essentially a part of the growth plate which separates and continues growing independently, usually away from the nearby joint. The medullary cavity is continuous with the parent bone, and capped by hyaline cartilage (cartilage cap).

MRI is best at assessing cartilage thickness (assessing for malignant transformation), presence of edema in bone or adjacent soft tissues.

Malignant transformation occurs in the cartilage cap, and is uncommon in sporadic solitary osteochondromas (~1%), whereas in the setting of hereditary multiple exostosis the rate is much higher (5-25%).