Core biopsy & diagnosis of bone tumors - A Diagnostic challenge for a histopathologist!

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Needles to state, correct diagnosis is the fundamental basis for the appropriate treatment and management of a patient in any disease. Orthopaedic surgery for bone tumors is a highly specialised area & is performed usually in specialised centres. The type of specimens received in orthopaedic oncology are needle biopsies, curetted samples, open biopsies, wide resections, amputation specimens, disarticulations & specimens for evaluation of neoadjuvant chemotherapy response. But needle biopsy is the most commonly received specimen in most of the pathology laboratories. Because of the overlap of histological features between Reactive and Reparative Lesions, Benign & Malignant Tumors, sharing of age & location of the tumor correct diagnosis becomes a challenging task. Therefore it is very essential to be aware about the pitfalls of the core biopsies & differential diagnosis of Bone Tumors. The biopsy can be Representative or Representative but Inadequate or Non-Representative. The problem areas are usually Giant lesions of bone (Reparative, benign & malignant), Round Cell Tumors of bone, Fibrous lesions with bone & tumors with presence of cartilage. Various methods & techniques are applied to arrive at definitive diagnosis. With the significant improvement in the prognosis it is obligatory on the part of the pathologist to make correct diagnosis and convey the same to the clinician for better patient care and management. It is important to integrate modern Molecular methods, Radiology & Morphological pathology to the better understanding of tumors, risk stratification & better treatment of the patient to prolong & improve the quality of life.

Biography
Rajni Bhan Safaya working as a Professor in the Department of Pathology, All India Institute of Medical Sciences, New Delhi, India, which is premier Medial Institute in the country. She has over 25 years of experience in diagnostic services, Medical education & research. Her field of interest is oncopathology. Was Awarded Common Wealth Medical Fellowship in Oncopathology and trained in Oncopathology at Christie Cancer Hospital & University of Manchester Medical School, Manchester, UK. She is a Fellow of Indian College of Pathologists. Besides being a member of prestigious professional bodies like “Pathological Society of Great Britain & Ireland”, European Society of Pathology, SIOP (International Society of Paediatric Oncology), RCPA (Royal College of pathologists of Australia). She is also a member of STAFF COUNCIL for formation of Curriculum for Undergraduate & Postgraduate courses. She was Awarded “Shiksha Rattan Puruskar i.e. Excellence in education by India International Friendship Society in December 2013. She have several Publications to her credit.

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