GOALS AND OBJECTIVES
BONE AND SOFT TISSUE PATHOLOGY

MEDICAL EXPERT

- Demonstrate skill and knowledge in the handling and interpretation of bone biopsies for frozen section
- Demonstrate understanding of the importance of integrating clinical, imaging and histological information for the interpretation of bone biopsies and frozen sections
- Demonstrate skill and knowledge in handling fresh soft tissue specimens (biopsies and excisions), triage tissue (Electron Microscopy, Molecular, Flow, Cytogenetics, Histology), and in the orientation, inking, gross description, and sampling
- Understand the importance of grossing with respect to the important information that ultimately determines tumor grade and stage
- Demonstrate a working knowledge of the anatomy and histology of the bone, joints and soft tissue structures
- Demonstrate skill in the gross dissection and sampling of bone, joints and soft tissue structures
- Demonstrate ability to dissect and sample difficult gross specimens i.e. excision, radical resections, amputations
- Demonstrate proficiency in the interpretation of soft tissue and bone and understand the limitations in classifying lesions on limited samples
- Acquire proficiency in the interpretation of sarcoma excisions/resections and ability to prepare accurate comprehensive reports
- Acquire knowledge of the gross dissection and sampling of benign bone and soft tissue lesions, including joint replacements, and amputations from peripheral vascular disease
• Acquire knowledge of the important molecular and cytogenetic characteristics of soft tissue sarcomas
• Acquire knowledge in the use and interpretation of immunohistochemistry pertinent to soft tissue tumors and bone tumors (primary and secondary)
• Acquire knowledge in the use and availability of molecular testing on paraffin and fresh tissue (FISH and RT-PCR) for diagnosing soft tissue tumors
• Acquire knowledge of the characteristics of electron microscopic findings in some soft tissue tumors

COMMUNICATOR/COLLABORATOR

• Demonstrate the ability to present cases at rounds and to respond to questions regarding the cases
• Demonstrate the ability to teach aspects of bone and soft tissue pathology at multidisciplinary rounds and teaching sessions
• Gain an understanding of clinical aspects of bone and soft tissue sarcomas, particularly surgical and clinical oncological management of bone and soft tissue sarcomas

MANAGER

• Understand the importance of quality control and quality assurance measures for immunohistochemistry including preanalytical, analytical and postanalytical variables
• Understand the value of proficiency testing for immunohistochemistry
• Understand the volume of appropriate tissue for immunohistochemistry

HEALTH ADVOCATE/PROFESSIONAL

• Understand the importance of turn-around time for diagnostic bone and soft tissue biopsies and lesions, but also understand that the complexity of the lesion may result in delayed reporting due to the need for ancillary tests
• Understand the importance of communication with clinical colleagues when there is a delay due to case complexity
• Know when to appropriately consult
SCHOLAR

- Consider conducting a research project or case report based on bone and soft tissue pathology material if appropriate

- Review the pertinent literature relating to advances in bone and soft tissue pathology (i.e. molecular testing, classification of tumors, treatment options, prognostic factors)

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