

# KSUM 2026

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**Specialty :** Pediatric

**Lecture Title :** US for Palpable Lesions in Children

**PT\_No. :** CC03-S1

Ultrasonography is the primary imaging tool for assessing palpable lesions in children, offering high-resolution, real-time evaluation without ionizing radiation or sedation. It allows accurate characterization of lesion location, layer of origin, internal content, and vascularity, which helps distinguish benign from suspicious masses and guides need for further MRI, CT, or biopsy. Most pediatric superficial soft-tissue lesions are benign developmental or reactive processes, so US-based conservative management and follow-up are often appropriate. Typical benign entities include vascular tumors and malformations, fat-containing tumors, reactive lymph nodes, dermoid/epidermoid cysts, fibroadenomas, and lymphatic malformations, each with characteristic sonographic patterns. However, US also plays a key role in detecting malignant tumors such as rhabdomyosarcoma or metastatic disease when features like size >3–5 cm, deep fascial involvement, necrosis, or highly abnormal vascularity are present. Familiarity with age, clinical presentation, and key ultrasonographic signatures of common lesions enables radiologists and trainees to provide confident diagnoses, minimize unnecessary intervention, and appropriately select cases needing tissue diagnosis.