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Alveolar soft part sarcoma with CD68 expression

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A 24-year-old man presented to our hospital for evaluation of a 10-cm neck mass. Fine-needle aspiration and a core biopsy were performed, which was followed by tumor resection. The smears displayed numerous loosely cohesive or single large cells with abundant granular cytoplasm, round nuclei, vesicular chromatin, and occasional prominent nucleoli. Periodic and Schiff (PAS)-positive, diastase-resistant rhomboid, or needle-shaped crystals were present. Tumor cells had diffuse and strong nuclear TFE3 expression and aberrant cytoplasmic CD68 expression. Fluorescence in situ hybridization analysis was performed, which detected a characteristic translocation t(X;17)(p11;q25). The diagnosis of alveolar soft part sarcoma was rendered. Alveolar soft part sarcoma is a rare highly malignant neoplasm of the soft tissue and usually occurs in the lower extremities of children and young adults.

Biography

Dr. Neda Zarrin-Khameh is a pathologist in Houston, Texas and is affiliated with multiple hospitals in the area, including CHI St. Luke's Health-Patients Medical Center and Harris Health Ben Taub General, Quentin Mease and LBJ Hospitals. She received her medical degree from Tehran University of Medical Sciences School of Medicine and has been in practice for more than 20 years.