

CASE 043

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MALIGNANT EXTRARENAL RHABDOID TUMOUR

A 4-year-old female presented with a rapidly progressive, painless right-sided neck mass. Biopsy was performed and paraffin block was received for histopathological and immunohistochemical review.

HISTOPATHOLOGY

Microscopically, the tumour showed a 'patternless' growth comprising of large polygonal cells, with moderate amount of eosinophilic cytoplasm; eccentric, vesicular nuclei and distinct nucleolus. Brisk mitotic activity and focal area of necrosis were noted.

IMMUNOHISTOCHEMISTRY

The tumour cells were diffusely positive for vimentin, CD99 and focally positive for cytokeratin, synaptophysin, FLI-1, epithelial membrane antigen (EMA), S-100 and TLE-1. However, neoplastic cells were negative for human melanoma black monoclonal antibody 45 (HMB-45), CD34, desmin, smooth muscle actin, MyoD1 and Wilms tumor-1 (WT-1). Diffuse loss of INI-1 expression by the tumour cells was noted which made it consistent with the diagnosis of malignant extrarenal rhabdoid tumour.

