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Primary PNET/Ewing sarcoma of the skin: Case report

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Background: Ewing sarcoma (ES) is a primary bone tumor but when present in soft tissues it characterizes an extremely uncommon clinical picture. It has been well described in deep soft tissues. However, location in cutaneous or subcutaneous tissue has rarely been reported; being seen principally in white women in the second decade of life. This tumor is histologically indistinguishable from ES of bone. Differential diagnosis is done with other cutaneous neoplasms composed of small round cells such as lymphomas, leukemia and Merkel cell carcinoma.

Case report: We present a case of primary cutaneous PNET (primitive neuroectodermal tumor)/Ewing sarcoma at the right arm of an Egyptian girl 18-year-old without osseous or other extra skeletal involvement. Clinical examination skin colored soft nodule 2×2 cm. Histologically, it was a small round cell tumor which reacted strongly for CD99 antibody and negative for leukocyte common antigen (LCA), myeloperoxidase and CK20 antibodies. The diagnosis of primary PNET/Ewing sarcoma of the skin was performed.

Conclusion: Primary PNET/Ewing sarcoma of the skin which is a very rare malignant tumor may be present as a soft solitary skin nodule that should be differentiated from other cutaneous neoplasms composed of small round cells. It is worth noting that while strong diffuse membranous expression of CD99 antibody is a highly sensitive marker of Primary PNET/Ewing sarcoma of the skin, it is not entirely specific. CD99 expression may be seen in many small round cell tumors.

Biography

Abdul Karim Hasan Kohil has completed his Master's degree from Al-Azhar University, Egypt. He is currently working as an Assistant Lecturer in Pathology Department, Faculty of Medicine, Al-Azhar University, Egypt.

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