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Incidence of bone marrow infiltration and hematological profile in patients of neuroblastoma

Sanjay Mishra

King George's Medical University, India

Neuroblastoma is one of the most common malignant neoplasms of infancy. The tumour frequently metastasizes to bone marrow. Therefore bone marrow examination is regularly done for staging of the disease. In our study we analyzed 32 cases of neuroblastoma for bone marrow infiltration and correlation was made with their clinical parameters and their hematological profile. The age of these patients ranged from six months to 10.6 years. Male to female ratio was 2.3:1. Of these 18 (56.25) cases showed infiltration with the neoplastic cells. Of these, 12 cases (75%) were less than five years of age. There was a male preponderance with male: female ratio of 4:1 in involved cases. The patients who showed infiltration in the marrow had anemia, leucopenia and thrombocytopenia. 75% of these patients showed leukoerythroblastic picture. 12/18 cases showed rosette formation at some place on the smear.

Biography

Sanjay Mishra has completed his MBBS, MD and has five years' work experience in the field of Hematology and Hematopathology from King George's Medical University, Lucknow, Uttar Pradesh. He is presently working as an Assistant Professor, in the department of Pathology at King George's Medical University, Lucknow, Uttar Pradesh, India.

sanjay.dosco295@gmail.com

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