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Langerhans cell histiocytosis: A case report of CT guided FNAB and immunocytochemistry

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Objective: Presentation of a case report of Langerhans cell histiocytosis (LCH) diagnosed by fine needle aspiration cytology of bone (FNAB) and immunocytochemistry (ICC). Because LCH is an encompassing term for a spectrum of clinical syndromes characterized by a proliferation of Langerhans histiocytes with other inflammatory cells. LCH is deceiving disease that may be indistinguishable from inflammatory disorders.

Methods: Six years Egyptian female presented with osteolytic infiltrative lesion at the left head of femur and ischial bone presented for CT guided FNAB.

Results: PAP stained slides and cell block show moderately cellular smears composed of atypical histiocytic cells with abundant eosinophilic cytoplasm and coffee bean shaped nuclei masked by numerous macrophages and eosinophils. The exact morphologic features were confirmed by immunocytochemical (ICC) stains; atypical histiocytic cells displayed positivity for both S100 and CD1a and negativity for CD68. While the macrophages showed positivity for CD68.

Conclusions: CT guided FNAB is very effective tool for rapid accurate diagnosis. Langerhans cell histiocytosis cytologically may be indistinguishable from inflammatory processes therefore cell block for FNAB has a great help for ICC stains confirmation.

Biography

Ahmed El-Habashi has completed his MD, PhD from Cairo University and Tulane University in a channel system scholarship program. He got Post-doctoral fellowship at Groningen University Hospital, The Netherlands at 1998. He is the past-director of pathology department, National Cancer Institute, Cairo University and now he is working in the capacity of Professor of Pathology. He got the International Board of Cytopathology from International Academy of Cytopathology at 2007. He is an international cytology speaker and he conducted many Cytopathology workshops in Egypt and Arab countries aiming to improve the cytology practice and profession. He has published more than 35 papers in reputed journals and has been serving as a reviewer for more than three reputed Journals.

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