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Spectrum of granulomatous lesions with emphasis to tuberculosis- a cytopathological perspective

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A wide range of infectious and noninfectious causes are known to produce granulomas. The aim of this study is to analyze the spectrum of cytological presentation of dermal granulomatous diseases and their clinic-histopathological correlation. Twenty-five infectious and non-infectious lesions were studied on the basis of their clinical presentation, cytological impression and correlated with the histopathological findings along with special stains. Out of the 25 granulomatous lesions studied, 15 cases (60.0%) were bacterial, 2 cases (8.0%) each of fungal and associated with malignancy and 6 cases (24.0%) due to non-infectious etiology like granuloma annulare and foreign body associated were recorded. Amongst the bacterial granulomatous lesions, predominance of *Mycobacterium tuberculosis* was seen, 09 cases (36.0%). 4 cases (16.0%) of cutaneous tuberculosis caused by *Mycobacterium tuberculosis* was seen in our study and were typified as lupus vulgaris, 3 cases (12.0%), 2 cases (8.0%) each of tuberculosis lip and tongue and a single case (4.0%) each of conjunctival tuberculosis and tuberculosa verrucosa cutis. The varied presentation of Hansen's disease in our study included 4 cases (16.0%) of tuberculoid leprosy and 2 cases (8.0%) each of lepromatous leprosy and borderline tuberculoid leprosy. Single case (4.0%) of *Klebsiella rhinoscleromatis* was also seen. Granulomatous lesions have varied modes of presentation. A classical clinical picture may not always be present, posing a diagnostic challenge. Cyto-histopathological studies help in arriving at a conclusive diagnosis, if aided by a proper clinical history and examination and assisted by special stains, culture of organisms, PCR and immunofluorescence.

Biography

Mahboob Hasan has completed his M.B.B.S and M.D in Pathology from Jawaharlal Nehru Medical College, Aligarh Muslim University, Aligarh, India. He is presently working as a Professor in the department for 05 years. He has published more than 30 research papers in reputed journals and has been the Organizing Secretary of International Symposium on Women's ((Breast & Gynae) Pathology. He has been involved in WHO funded project "Development of an atlas of cancer in India" under the aegis of National Cancer Programme and supervised and co-supervised more than 10 M.D. theses.

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