ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

TROPICAL DERMATOLOGY

" A STUDY ON THE ROLE OF S100 IMMUNOHISTOCHEMICAL STAINING IN DEMONSTRATING NERVE DESTRUCTION PATTERN AND ITS UTILITY IN DIAGNOSING LEPROSY."

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Introduction: Skin granulomas pose a variety of differential diagnostic possibilities, which include non-leprosy granulomatous inflammation such as tuberculosis, sarcoidosis, and fungal infections. The presence of neural granulomas is a diagnostic hallmark for leprosy. However, nerve twigs within granuloma are often difficult to visualize on hematoxylin and eosin-stained sections (H and E) either due to their small size or due to extensive destruction. This problem is compounded by the paucity of acid–fast bacilli (AFB) in the tuberculoid spectrum.

Objective: To study the S100 staining pattern of nerves across the spectrum of leprosy. To study the utility of S100 staining in detection of leprosy.

Materials and Methods: The biopsy specimens of Clinic-histopathologically diagnosed cases of leprosy were stained with S100 immunoperoxidase stains. Bacillary index were calculated and staining patterns of nerve damaged were graded as follows : a) Absent b) Intact c) Fragmented. 5 non leprosy, cutaneous granulomatous diseases were used as controls The data was analysed using suitable statistical methods.

Results: S100 was superior to and more sensitive than H and E in demonstrating nerve destruction in leprosy especially in borderline tuberculoid leprosy. S100 is more sensitive than H and E in identifying nerve fibres inside the granuloma and in distinguishing between lepromatous and non lepromatous granulomas.

Conclusion: S100 staining is an ancillary tool in demonstrating nerve destruction pattern in tuberculoid and indeterminate leprosy. Reliable marker to differentiate between lepromatous and non lepromatous granulomas.





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