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MAST CELL LEVEL IN PATIENT WITH REVERSAL REACTION OF LEPROSY

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Background: Reversal reaction (RR) is an acute on chronic episode which frequently contribute to withdrawal of treatment and disability in leprosy patients. Previous study showed that mast cell in the reactive tuberculoid lesions biopsy had lower density than non-reactive tuberculoid lesions. Granulomatous lesions in leprosy patients with high level density of mast cells were more vulnerable to become severe reversal reaction.

Objective: To understand mast cell level in reversal reaction patients (RR) dan non-reactional leprosy patients (non-RR)

Methods: 56 leprosy patients consist of 28 with reversal reactions and 28 non-reactional leprosy were assessed for level of mast cell by immunohistochemistry staining. The mast cell levels in both groups were analyzed using independent samples T test.

Results: There was a significant difference of mast cell levels in both groups (p<0.05).

Conclusion: Mast cell level is associated with reversal reaction of leprosy.

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