



DERMATOPATHOLOGY

PRESENCE OF EMPERIPOLESIS AND S100 EXPRESSION IN XANTHOGRANULOMAS

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Introduction: In the spectrum of no Langerhans Histiocytosis, we face a problem in distinguishing xanthogranuloma (XG) from Cutaneous Rosai-Dorfman disease (CRDD). For years, pathologists have rely on the diagnosis of CRDD using S100 expression and the presence of emperipolesis. Recently a study by Ruby et al. was published, in which they found in 10 cases of XG, S100 expression and emperipolesis, which will mean that we can no longer rely on these histopathologic findings to distinguish CRDD from XG.

Objective: Describe the presence of emperipolesis and S100 expression in cases of xanthogranulomas from Hospital "Manuel Gea González".

Material and methods: Retrospective study conducted in the service of dermatopathology from "Hospital General Manuel Gea González" in Mexico City, with search for all the cases with histopathologic diagnosis of xanthogranuloma in the database from January 1984 to September 2018.

Results: We included 32 cases of XG, in 6 of them we observed the presence of emperipolesis and expression of S100. The most common cell engulfed was lymphocytes. All of the cases had histopathologic findings frequently seen in xanthogranuloma such as foamy cells, Touton-type multinucleated giant cells and plasmatic cells.

Conclusions: The presence of emperipolesis and S100 expression in some cases of XG makes even more challenging the differential diagnosis between XG and CRDD.

