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PIBIC Last Name -Manso First Name - Paulo Middle - Gois

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**Correlation between clinical activity score and resonance magnetic image in Graves' ophthalmopathy before and after treatment.**

Manso,P.G.; Martins, J.R.M ; Paves, L; Miki, Wolosker, A.M.B Furlanetto, R.P. Department of Ophthalmology, Image Diagnostic Department and Endocrinology Clinics from Paulista School of Medicine Graves' ophthalmopathy is a frequent complication of autoimmune thyroid disease. Recognizing the active or inactive inflammatory stage of this disease is crucial for its management.

Several methods are employed to determine the presence or the absence of inflammation such as the clinical activity score and resonance magnetic image. In the inflammatory stage the patients may be treated with corticosteroid, radiotherapy, immunosuppressive drugs, or by a combination of them. Purpose: The purpose of this study is to correlate the clinical activity score (CAS) and resonance magnetic image (MRI) in Graves' ophthalmopathy before and after treatment. Methods: 19 euthyroid patients with Graves' ophthalmopathy were enrolled in a prospective study and submitted to a clinical ophthalmologic exam and MRI. Patients with inflammatory involvement (CAS  $\geq$  3) were submitted to MRI and treated using corticosteroid for three months and/or by 1000 cGy orbital radiotherapy. The extra ocular muscle and white matter signal intensity on MRI T2 sequences were obtained of all patients pre and post treatment.