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Abstract Title: **Multifocal Electroretinogram in Birdshot Chorioretinopathy**
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Keywords: 509 electroretinography: clinical, 451 chorioretinitis, 549 imaging/image analysis: clinical
Purpose: To describe multifocal electroretinogram (m ERG) at the baseline examination of 15 patients in a longitudinal cohort study of Birdshot chorioretinopathy and to identify relation ship between mERG and visual acuity, perimetry, ocular symptoms and VFQ 25 score.
Methods: Single center cross-sectional study. mERG was evaluated with a corneal electrode ERG Jet and with an Ganzfeld optoelectrical stimulator performed by Metrovision. Relationship between N1, P1 and N2 waves values and automated perimetry (MD and PSD), LogMAR visual acuity and VFQ 25 scores were evaluated.
Results: N1 and P1 waves values and N1/P1 ratio were decreased in the 15 degrees central area of the retina. These alterations are less important in the peripheral retina. With the use of univariate analyses, there were significant associations between mERG and MD($r=0,37$, $p=0,05$), logMAR visual acuity ($r=0,48$, $p=0,01$) , and VFQ25 score($r=-0,5$, $p=0,01$).
Conclusions: In our study mERG map could identify early disease activity whereas visual acuity or visual field alone does not fully reflect the severity of disease. Electroretinographic results suggested an alteration of the inner retina. Studies of mERG parameters in this series will be further studied after one or two years or evolution.
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