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Is Video Otoscopy Accurate for The Diagnostic of Otitis Media with Effusion? A Cross Sectional Study in A Pediatric Population in Cameroon

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ABSTRACT

Aim: Assess diagnostic value of an otoendoscopic grading for otitis media with effusion (OME) in our setting.

Methods: A prospective and descriptive study was carried out among patients aged 6 months to 15 years attending ENT and pediatric out patients' clinics of Yaounde. Those with acute or external otitis media and tympanic membrane perforation were excluded. Data collected were socio-demographic, clinical (Transparency, Integrity, Position of the eardrum leading to the TIP grading) and tympanometric. The study was approved by an institutional ethics committee and caregiver consent was obtained for each child. Statistical analyzes were performed using SPSS 23.0 software. Sensitivity, specificity, negative and positive predictive values were calculated.

Results: 52 patients were enrolled. The mean age was 8.6 years (SD = 4.24). Tympanometric finding in 14 ears showing OME were classified as TIP 1 and TIP 2, denoting 100% sensitivity. Among the 90 ears without tympanometric findings of OME, 79 were classified TIP 0 demonstrating 87% specificity. The positive predictive value and the negative predictive value were 56 and 100% respectively.

Conclusion: Otoendoscopic grading of the tympani membrane had a great diagnostic value for OME and could be used in our setting.

Keywords: Otitis media with effusion, otoendoscopy, TIP grading, tympanometry

BIOGRAPHY

Roger Christian Meva'a Biouélé has completed his training as ENT surgeon ten years ago at the Faculty of Medicine and Biomedical Sciences of the University of Yaoundé I, Cameroon. He is an Assistant Lecturer in the same institution for two years now. He has over 22 publications that have been read over 900 times, and his publication h-index is 1. He is also serving as ENT surgeon at the Yaoundé Central Hospital, Cameroon

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