

Ophthalmology Congress

October 27-28, 2021

WEBINAR

Marsida Krasniqi, J Clin Exp Ophthalmol 2021, Volume 12

Outcomes of post-traumatic endophthalmitis after treatment in a mother teresa hospital in albania, a retrospective study.

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Purpose: The aim of this study is to evaluate the clinical characteristics, visual outcome and prognostic factors of post-traumatic endophthalmitis cases.

Materials and methods: This is a retrospective study, where patients with post-traumatic endophthalmitis followed up for a minimum of 6 months and referred to Mother Teresa Hospital of Tirana from January 20018 to December 2020 were included. Data of the patients were collected from patient records and included demographic data, clinical presentation, type of injury (site on eye, lens involvement, retained intraocular foreign body); mechanism of injury (penetration/perforation/ rupture/ruptured surgical wound); primary repair; lensectomy at the time of primary repair; and prognostic factor for the final visual outcome. Data were collected and analyzed with SPSS.

Results: From 53 cases with post-traumatic endophthalmitis presented to the department of ophthalmology of Mother Teresa hospital of Tirana, 57% were male. From 53 cases, 11 (21%) were children with mean age 6.02 ± 10.14 years old. Regarding visual acuity, 36 (67.9%) of patients presented only light perception or worse; 15 (28.3%) hand movement and 2 (3.7%) better than hand movement. The duration between the precipitating trauma and presentation at the hospital was less than 24 hours in 5 (9.4%), between 1 and 7 days in 26 (49%) and greater than 7 days in 22 (41.5%) of cases. 26 cases received Intravitreal antibiotics only while 27 cases received both Intravitreal antibiotics and vitrectomy. At follow-up, 18 (34.9%) of 53 patients had improvement in vision while in 35 (65.1%) cases the vision remained same or deteriorated. The anatomical outcome was poor (phthisis bulbi, evisceration or enucleation) in 14 (26.4%) of cases.

Conclusions: In our study an unfavorable outcome in post traumatic endophthalmitis cases was seen to be correlated with delay in primary repair and poor presentation of visual acuity.

Keywords: Post traumatic endophthalmitis, Outcomes, Retrospective Study, Albania

Biography

Marsida Krasniqi is an ophthalmologist in the department of ophthalmology at Our Lady of Good Counsel and at German Hospital, Tirana and she also is a lecturer in the Department of Medical Science at Aleksandër Moisiu University of Durrës. She holds degrees from the University of "Our Lady of Good Counsel" and "TorVergata" (MSc in Medicine and Surgery), the "TorVergata University" Roma, Italy (Certificate Del Diploma Originale del Abilitazione – Medico Chirurgo), the University "Our Lady of Good Counsel (Phd in Public Health, Molecular diagnosis of infection diseases and Pharmacovigilance), and University of Medicine of Tirana (Ophthalmology). Previously she was Physician, Medical Consultant, Project Coordinator, Coordinator of National and International Conferences and Lecturer at University of Sports, Tirana. Dr. Krasniqi has authored or co-authored the book of "Manual of Management of Refractive Errors" and over 35 publications in peer reviewed journals at regional, national and international conferences.