

Ophthalmology

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Research technicians

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DESCRIPTION

The research we conduct is primarily clinical and applied. It includes case studies, literature reviews, longitudinal studies, clinical trials, and evaluations of new technologies and treatments. We also collaborate with other clinical teams to investigate the potential ophthalmological toxicity of the drugs under study. Additionally, our research encompasses basic studies on biomarkers and disease mechanisms, as well as innovation in devices and therapies. In summary, we combine clinical, experimental, and technological innovation research to improve the diagnosis and treatment of eye diseases.

MAIN LINES OF RESEARCH

- Use of machine learning and artificial intelligence algorithms in various chronic ocular diseases: glaucoma, AMD. (Díaz Cascajosa, Jesús).
- Glaucoma and drainage device surgery (MIGS – Minimally Invasive Glaucoma Surgery). (Tellez Vazquez, Jesús Maria).
- Glaucoma: clinical presentation and surgical indications in a tertiary care center within our healthcare environment. (Loscos Gimenez, Irene Victoria).
- Idebenone therapy for Leber hereditary optic neuropathy. (Castillo Campillo, Lorena).
- Extended depth of focus intraocular lens. (Lázaro Rodríguez, Víctor; Gil Arnal, Julián Miguel Angel).

- Evaluation of Immunoglobulins in the Tear Film of Patients with Atopic Dermatitis Undergoing Dupilumab Treatment. (Sabater Cruz, Noelia; Del Campo Carrasco, Zoraida).
- Evaluation of Intravitreal Treatments in Age-Related Macular Degeneration (AMD). (Salvador Miras, Ignacio).
- Evaluation of Intravitreal Treatments in Diabetic Macular Edema. (Vela Segarra, José Ignacio; Crespi Vilimelis, Jaume; Díaz Cascajosa, Jesús).
- Strabology, surgical management. (Rosello Silvestre, Noemí; Luna Marine, Maria Sabina).
- Alternative Treatment to Surgery for Blepharoptosis. (Castro Seco, Roberto; Liscombe Sepulveda, John Paul).
- Luna S., Galan A., Conversa S, Roselló N. Parálisis del VI nervio craneal bilateral crónica. Acta Estrabológica 2024; 53(2):57-67. Document type: Article.
- Oliver D, van der Veen RLP, Ros E, Segura G, Alonso T, Herranz A, Matas J, Seco RC, Arcediano MA, Zapata MA, Oliveres J. Periorbital necrotizing fasciitis: clinical perspectives on nine cases. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2024; 43(10). DOI:10.1007/s10096-024-04908-6. PMID:39085512. IF:3,700 (Q2/3D). Document type: Article.
- Rojo M, Martínez JM, Albis O, Yañez G, Maroto R, Tellez J, Menoyo R. Preserflo™ MicroShunt implantation combined with Ologen™ in primary and secondary glaucoma patients in a clinical setting. INDIAN JOURNAL OF OPHTHALMOLOGY. 2024; 72(3). DOI:10.4103/IJO.IJO_1502_23. PMID:38153975. IF:2,100 (Q2/4D). Document type: Article.

SCIENTIFIC CHALLENGES

- The scientific challenges in the areas of research you mentioned are vast and multifaceted, focusing on technological advancements, therapeutic efficacy, and the optimisation of treatments for a variety of ocular conditions.

SCIENTIFIC PRODUCTION

- Batista CSP, Loscos-Giménez I, Gámez M, Altaba R, de Miniac D, Martí N, Bassaganyas F, Juanes E, Rivera A, Navarro F. Comparing the in vitro efficacy of chlorhexidine and povidone-iodine in the prevention of post-surgical endophthalmitis. J Ophthalmic Inflamm Infect. 2024; 14(1):20. DOI:10.1186/s12348-024-00404-2.. PMID:38782819. IF:2,900 (Q1/3D). Document type: Article.
- Karam, Emely Z; Rosello, Noemí. Estrabismo de origen neurológico o no: Un recorrido a través de la diplopía. Acta Estrabológica 2024; 53(1):2-11. Document type: Article.
- Loscos-Giménez I, Rego-Lorca D, Bassaganyas-Vilarrasa F, Crespi-Vilimelis J, Díaz-Cascajosa J, Segarra JIV. New prefilled syringe aflibercept design. A cause of symptomatic IOP spike after aflibercept PFS? Rom J Ophthalmol. 2024; 68(3):219-224. DOI:10.22336/rjo.2024.41. PMID:39464766. Document type: Article.