



### **Dr. Óscar Gris**

Cornea, Cataract and Refractive Surgery Department of the IMO, Institute of Ocular Microsurgery

Lecturer in the Master's Degree in Cornea and Refractive Surgery and Master's Degree in Anterior Segment of the IMO. Member of the Ethics Committee of Clinical Research (CEIC) of the IMO

License Number: 28,186

## **Curriculum**

### **Professional Profile**

Partner and doctor specialising in cornea and cataract surgery at the Ocular Microsurgery Institute, spokesperson for the IMO Foundation and **professor on the Master's Course in the Anterior Segment and the Master's Course in Cornea and Refractive Surgery run by the IMO** and the Faculty of Medicine at the Autonomous University of Barcelona.

He is a specialist in corneal, conjunctival and ocular surface pathologies and their surgical treatments. Also in small-incision cataract surgery.

The surgical techniques he has used and researched include cornea transplant, limbal transplant and amniotic membrane transplant for the treatment of ocular surface pathology.

Fellowship in corneal pathology and external ocular diseases at Emory University in Atlanta, USA, under the direction of Dr Doyle Stulting in 1996.

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## Training

Dr Óscar Gris has a Bachelor's of Medicine and Surgery from the Autonomous University of Barcelona and a specialist in ophthalmology since 1996.

Ophthalmology residency at Vall d'Hebrón General Hospital (Autonomous University of Barcelona).

Fellowship in corneal pathology and external ocular diseases at Emory University, Atlanta (1996), under the direction of Dr R. Doyle Stulting.

In 2004, he became Doctor of Medicine and Surgery from the Autonomous University of Barcelona with the doctoral thesis "Transplante de membrana amniótica en patología de la superficie ocular" (*Transplantation of amniotic membrane in ocular surface pathology, cum laude*).

## Specialisation

He specialises in corneal, conjunctival and ocular surface diseases and surgery.

The surgical techniques he has used and researched include corneal transplantation, limbal transplantation and amniotic membrane transplantation for the treatment of ocular surface pathology.

He also has extensive experience in small-incision cataract surgery..

## Professional Appointments

He has worked in the Ophthalmology Department of Mútua de Terrassa Hospital (1997–98) and Sant Pau Hospital (1999–2004).

Clinical Hospital of Barcelona, where he held the post of section head and associate lecturer in Ophthalmology (University of Barcelona) until October 2006.

Since October 2006 he has practised exclusively at the IMO, where he has worked since January 1997.

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## Teaching

Lecturer at the School of Medicine of Vall d'Hebron General Hospital (Autonomous University of Barcelona) for the academic years 1994 to 1996.

Lecturer at the School of Optics and Optometry (Polytechnic University of Catalonia) of Terrassa in 1997 and 1998.

From 1999 to 2004 he lectured in Ophthalmology theory and practice at the Medical School of Santa Creu i Sant Pau Hospital (Autonomous University of Barcelona).

He later lectured in theory and practice as an associate lecturer in Ophthalmology at the Medical School of the Clinical Hospital of Barcelona (University of Barcelona) until October 2006.

## Research

He has undertaken and/or participated in numerous research projects, 31 of which have been published in international scientific journals. He has worked on three FIS (Health Research Fund) research projects related to corneal transplantation (one as principal researcher).

He is currently involved in several research projects on corneal transplantation and the treatment of ocular surface diseases (cornea, conjunctiva and sclero-corneal limbus).

## Memberships

- European Society of Cornea and Ocular Surface Disease Specialists
- Spanish Ocular Surface and Cornea Group
- Spanish Ophthalmology Society
- Catalan Ophthalmology Society
- Spanish Society of Ocular Refractive Implant Surgery

## Publications

He has published more than 50 publications in international ophthalmology journals as author or co-author.

Author or co-author on more than 30 chapters in ophthalmology books (Spanish and international). Editor on two ophthalmology books.

Evaluator of the journals British Journal of Ophthalmology, Journal of Cataract and Refractive surgery and archives from the Spanish Ophthalmology Society.

Member of the publishing committee for the journal "Superficie Ocular y Córnea" (Cornea and Ocular Surface). Member of the editorial board for the "Journal of Emetropia".

Most recently:

Paula Verdaguer, **Gris O.**, Ricardo Casaroli-Marano, Daniel Elies, Gerardo Muñoz Gutierrez, Güell J.L. Intraocular lens opacification after endothelial keratoplasty as analyzed by environment scanning electron microscopy. Cornea 2015. Aug ;34(8):972-5. doi:10.1097/ICO.0000000000000468

Güell J.L., Verdaguer P, Elies D, **Gris O.**, Manero F. Persistent stromal scar after PRK and CXL: different preoperative findings, similar complication. J Refract Surg 2015 Mar;31(3): 211-2

Soler N, Romero-Aroca P, **Gris O.**, Camps J, Fernandez-Ballart J. Corneal endothelial changes in patients with chronic obstructive pulmonary disease and corneal vulnerability to cataract surgery. Cataract Refract Surg. 2015 Feb;41(2):313-9. doi: 10.1016/j.jcrs.2014.04.043.

J.L. Güell, M. Morral, **Gris O.**, D. Elies, F. Manero. (Manuscript 2015-35) Comparison of 20% SF6 versus air as Tamponade in Descemet membrane Endothelial Keratoplasty. Ophthalmology 2015;-1-8 2015. <http://dx.doi.org/10.1016/j.opthta.2015.05.013>.

Güell J.L., Verdaguer P, Mateu-Figueras G, Elies D, **Gris O.**, El Hussein MA, Manero F, Morral M. SMILE Procedures With Four Different Cap Thicknesses for the Correction of Myopia and Myopic Astigmatism. J Refract Surg. 2015 Sep 1;31(9):580-5.

Güell J.L., Verdaguer P, Elies D, **Gris O.**, Manero F. Corneal impairment in a patient with type 2 dystal arthogryposis. Eye Contact Lens 2015 Jan ;41(1): e5-8. Doi.10.1097/ICL.0b013e3182a2f881

Barbany M, **Gris O.**, Güell J.L. Therapeutic sectorial full-thickness sclero-keratoplasty for recurrent fungal keratitis. Arch Soc Esp Oftalmol 2014. Pii: S0365-6691(14)00184-1:doi. 10.1016/j.oftal.2014.04.024 (Epub ahead of print)

Morral M, Güell J.L., El husseiny M, Elies D, **Gris O.**, Manero F. Paired-Eye comparison of corneal endothelium cell counts after Unilateral Iris-Claw Phakic Intraocular Lenses. J Cataract Refract Surg 2016; 42:117–126

Verdaguer P, Güell J.L., Mateu-Figueres G, Elies D, **Gris O.**, Manero F, Morral M. Unilateral Iris-claw Intraocular Lens Implantation for Aphakia: A Paired-Eye Comparison. Accepted at the Cornea Journal on July 2016

Güell JL, El Husseiny MA, Manero F, **Gris O**, Elies D. **(2014)**. Historical review and update of surgical treatment for corneal endothelial diseases. Ophthalmol Ther; 3: 1-15.

Güell JL. El Husseiny M, Manero F, Elies D, **Gris O.** **(2014)**. Artisan-Verysise Lens Secondary Implantation in Aphakic Eyes. Journal of the Egyptian Society of Cataract and Refractive Surgery. 2014 February; Cataract & Cornea-Volume 20:1-10

Ponce C, **Gris O**, Elies D, Güell JL. **(2014)**. Progressive Corneal Clearance After a DMEK Graft Partially Folded Over on Itself in a Non-Fuchs Pseudophakic Eye. Cornea 2014;33(9): 985-987. Doi. 10.1097/ICO.0000000000000195

Güell JL, Verdaguer P, Mateu-Figueras G, Elies D, **Gris O**, Manero F, Morral M. **(2014)**. Epithelial ingrowth after LASIK: Visual and refractive results after cleaning the interface and suturing the lenticule. Cornea 2014 Oct;33 (10):1046-1050

Güell JL, Verdaguer. P, Elies D, **Gris O**, Manero F. **(2014)**. Late onset of a persistent deep stromal scarring after PRK and corneal cross-linking in a patient with forme fruste keratoconus. J Refract Surg. 2014 Apr; 30(4):286-8. doi: 10.3928/ bjophthalmol-20140320-09.

Güell J, Verdaguer P, Elies D, **Gris O**, Manero F, Mateu- Figueras G, Morral M. **(2014)**. Secondary iris-claw anterior chamber lens implantation in patients with aphakia without capsular support. Br J Ophthalmol 2014; 98: 658-63.

Muñoz G, Güell JL, **Gris O**, Elies D, Manero F, Verdaguer P, Ramos R. (2014). Corneal collagen crosslinking in progressive keratoconus: changes in corneal irregularity indices and correlation with the best spectacle-corrected visual acuity. *Journal of Emmetropia* 2014.

Güell JL, Verdaguer P, Elies D, **Gris O**, Manero F, Mateu-Figueras G, Morral M. (2014). Secondary iris-claw anterior lens implantation in patients with aphakia without capsular support. *Br J Ophthalmol.* 2014 May; 98(5):658-63. doi: 10.1136/bjophthalmol-2013-304035. Epub 2014. Jan 31.

Verdaguer P, El Husseiny M, Elies D, **Gris O**, Manero F, Güell JL. (2013). Small incision lenticule extraction (SMILE) procedure for the correction of myopia and myopic astigmatism. *J Emmetropia* 2013;4:191-196.

Güell JL, Verdaguer P, Elies D, **Gris O**, Manero F. (2013). Corneal impairment in a patient with type 2 distal arthrogyposis. *Eye Contact Lens* 2013; Nov 27

Güell JL, Morral M, **Gris O**, D. Elies, F. Manero. (2013). Bimanual Technique for Insertion and Positioning of Endothelium-Descemet Membrane Graf Descemet Membrane Endothelial Keratoplasty. *Cornea* 2013; 32(12): 1521–1526. Doi:10.1097/ICO.0b013e3182933aee

### **Chapters in books**

Ponce C, Elies D, **Gris O**, Güell JL. 2015 MONOGRAPH. Óptica para el cirujano facorefractivo. Chapter 15. C.D. Bases ópticas de las lentes intraoculares multifocales refractivas. Pages 229-233. Chapter 27-2-2: Plata- forma Carl-Zeiss (MEL 90) Pallás H, Güell JL, Elies D, Gris O, Manero F. Page 340 Instituto de Microcirugía Ocular de Barcelona. Editors: Ramón Ruíz Mesa/ Pedro Tañá Rivero. Elsevier. SECOIR Monographs. No. 17.

Güell JL, Verdaquer P, **Gris O**, Manero F, Elies D. Chapter: I. Las lentes fáquicas en cirugía refractiva. *J Requested Paper* 2014. SEO 2014

Güell JL, Arrondo E, Cortina S, Echevarría J, Gómez Resa, MV, **Gris O**, Hannush S, Mateo C. Chapter: Boston KPro I: Complications. Edition: Springer Publishing. Book: Keratoprosthesis and Artificial Corneas: Fundamentals and Surgical Applications. C26 Chapters. July 2014.

Verdaguer P, Güell JL, Elies D, **Gris O**, Ponce C, Manero F. 2014 SECOIR Monograph. Biomecánica y arquitectura corneal. Chapter: Técnicas de cirugía refractiva corneal y

biomecánica corneal: LASIK, LASEK, PRK Y SMILE (entregado el 6.2.2014) Biomecánica y arquitectura corneal.

## Conferences and courses

Author or co-author on more than 300 communications / conferences in Spanish and international ophthalmology courses and conferences:

**Gris O.** (2016) Speaker. Lamellar corneal surgery. DALK and DMEK. Video course and wet lab. Course co-director and speaker. Xerencia Xestión Integrada A Coruña Ophthalmology Department A Coruña

**Gris O.** (2016) Speaker. When not to operate: consequences of surface disorders. Course: Ocular surface for anterior segment surgeons. 31st Spanish Society of Ocular Refractive Implant Surgery (SECOIR) Conference. Murcia

**Gris O.** (2016) Speaker. Manual dissection in DALK when the big bubble is not achieved. SECOIR-EUCORNEA Symposium. 31st Spanish Society of Ocular Refractive Implant Surgery (SECOIR) Conference. Murcia

**Gris O.** (2016) Speaker. Keratoplasty and ocular surface. Course on corneal transplants and advanced therapies for the cornea and ocular surface. Fernández-Vega University Institute. Oviedo

**Gris O.** (2016) Speaker. Double bubble in deep anterior lamellar keratoplasty. 14th GESOC Annual Meeting. Refresher course on keratoconus. Madrid

**Gris O.** (2016) Speaker. DMEK. Surgical technique and complications. DMEK and other endothelial keratoplasty video course. Mutua de Terrassa University Hospital Terrassa

**Gris O.** (2016) Speaker. Ocular cicatricial pemphigoid and Stevens-Johnson syndrome. 29th Specialised ophthalmology introductory course. Instituto de Investigaciones Oftalmológicas "Ramón Castroviejo." Madrid

**Gris O.** (2016) Speaker. Indications and complications of scleral contact lenses. Postgraduate course on ocular surface. Santa Creu i Sant Pau Hospital. Autonomous University of Barcelona (UAB). Barcelona

**Gris O.** (2015) Speaker. Role of corneal cross-linking in infectious keratitis. Forum Arruzafa. Cordoba

**Gris O.** (2015) Speaker. Refresher on amniotic membrane transplantation. Refresher symposium on ocular surface disorders and oculo-plastic surgery. Barcelona

**Gris O.** (2015) Speaker. Moderate-severe dry eye. Patient quality of life prospects. 91st Spanish Ophthalmology Society Conference. Seville

**Gris O.** (2015) Speaker. When is an amniotic membrane transplant and/or epitheliectomy appropriate in limbal stem cell deficiency? 91st Spanish Ophthalmology Society Conference. Seville

**Gris O.** (2015) Speaker. DMEK: a more physiological transplant procedure. Cornea refresher session. Josep Trueta University Hospital. Girona

**Gris O.** (2015) Speaker. Surgical technique in DMEK. Functional results and complications. Valencian Ophthalmology Society Conference. Valencia

**Gris O.** (2015) Speaker. Limbal and corneal epithelial stem-cell transplantation. 14th Spanish Tissue Bank Association National Conference. Zaragoza

**Gris O.** (2015) Speaker. Keratoplasty in ocular surface reconstruction. Postgraduate course on ocular traumatology. Instituto Barraquer. Barcelona

**Gris O.** (2015) Speaker. Ocular cicatricial pemphigoid and Stevens-Johnson syndrome. 28th Specialised ophthalmology introductory course. Instituto de Investigaciones Oftalmológicas "Ramón Castroviejo." Madrid

**Gris O.** (2015) Speaker. Complex clinical ocular surface cases. Postgraduate course on the cornea and ocular surface. Santa Creu i Sant Pau Hospital. Autonomous University of Barcelona (UAB). Barcelona

**Gris O.** (2014). Meeting coordinator: Surface and Glaucoma. Mediterranean Conference. Barcelona.

**Gris O.** (2014). Speaker. Controlling intraocular pressure without forgetting the ocular surface. Trends in Glaucoma. Surgical and Medical Meeting. Barcelona.

**Gris O.** (2014). Speaker. Keratoplasty in acanthamoeba keratitis. 5th ASETCIRC Congress. Madrid.

**Gris O.** (2014). Speaker. Update on endothelial transplantation. Surface and Glaucoma. Mediterranean Conference. Barcelona.



**Gris O.** (2014). Speaker. Advances in corneal transplants. 11th National meeting of transplant coordinators and communication professionals. Saragossa.

**Gris O.** (2014). 1) Speaker. Acanthamoeba keratitis. Course on corneal infections. 2) Speaker. Surgical treatment of corneal dystrophies. Course on corneal dystrophies. 29th SECOIR Congress. Alicante. May 2014. 3) Speaker. Corneal large-diameter transplants. EUCORNEA/SECOIR Symposium. Surgical cornea. 4) Speaker. DALK versus penetrating keratoplasty. Results in keratoconus. 7th Keratoconus Society Congress. 5) Speaker. Keratoplasty in keratoconus: DALK with Big Bubble technique. Session: intraocular lenses and keratoplasty in keratoconus. 29th SECOIR Congress. Alicante.

**Gris O.** (2014). Speaker. Current indications for penetrating keratoplasty in endothelial pathology. 12th Annual GESOC Meeting. Madrid.

**Gris O.** (2014). Speaker. DALK in keratoconus with manual dissection technique. Live surgery course of the San Carlos Clinical Hospital. Madrid.

**Gris O.** (2013). Course Director. Lamellar Keratoplasty. Instituto Alcon. Barcelona.

**Gris O.** (2013). Speaker. 1) Ocular surface caustication. 2) DMEK Ocular Traumatology Course. 40th Meeting of the Galician Ophthalmology Society. Lugo.

**Gris O.** (2013). Speaker. Causes of impaired ocular surface after ophthalmic surgery and importance of the pre-surgical study of ocular surface. Angelini-Equipisa Symposium. 44th Conference of the Catalan Ophthalmology Society. Barcelona.

**Gris O.** (2013). Speaker. Bilateral corneal epithelial cysts. Course on Corneal Nightmares. Bilbao.

**Gris O.** (2013). Video Symposium. DMEK: surgical technique. Video Symposium: endothelial keratoplasty. 4th ASETCIRC Congress. Seville.

**Gris O.** (2013). Speaker. 1) Antiangiogenic drugs. Course on corneal neovascularisation. 2) Speaker. IOL opacification after DSAEK. Course on lamellar keratoplasty: anterior and posterior. 3) Video Symposium. DALK in descemetocoele cases. Video Symposium: Surgical manoeuvres and complicated cases. 28th SECOIR Congress. Barcelona.

**Gris O.** (2013). Speaker. Recurring pterygium surgery. 11th Annual Meeting of the Spanish Ocular Surface and Cornea Group, GESOC. Seville.

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**Gris O.** (2013). Speaker. Keratoplasty in anterior segment reconstruction. Course on emergency and reconstructive surgery of the anterior segment. Instituto Universitario Barraquer. Barcelona.

**Gris O.** (2013). Speaker. Deep anterior lamellar keratoplasty and penetrating keratoplasty in keratoconus. 5th Annual Meeting of the Murcia Ophthalmology Society. Murcia.