



Dra. Miriam Barbany Rodríguez

Cornea and Refractive Surgery Department at the Ocular Microsurgery Institute (IMO)

License Number: 47.157

Curriculum

Professional Profile

Doctor specialising in cornea and cataract surgery at the Ocular Microsurgery Institute (IMO).

She specialises in corneal, conjunctival and ocular surface pathologies, as well as small-incision cataract surgery. Her work and research focuses primarily on corneal transplantation, limbal transplantation and transplantation for the treatment of ocular surface pathology.

She did an observership in corneal pathology and cornea transplants at the Centre Hospitalier Universitaire de Rouen, France, led by Prof. Muraine in 2015.

Training

Bachelor of Medicine and Surgery from the Universitat de Barcelona (UB), 2010.

Intern at the Anatomic Dissection Service at Hospital de Bellvitge (2005 – 2007).

Exchange scholarship at the Haukeland Hospital (Bergen, Norway) in 2009.

Specialist in Ophthalmology at the Hospital Universitari Mútua de Terrassa, Barcelona.

Observership in the Cornea, Refractive and Anterior Segment Department at the Centre Àptima Clínica Mútua de Terrassa, since 2011.

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Specialisation validated by exams of the International Council of Ophthalmology (2013 – 2014).

Additional training as a paediatric ophthalmologist at the Hospital Sant Joan de Déu in 2015 (Barcelona).

Specialisation

Her areas of expertise are medical and surgical treatment of corneal, conjunctival and limbal diseases. She also dedicates herself to cataract surgery with phacoemulsification via a small incision or extracapsular technique, as well as monofocal or multifocal lense implants to correct presbyopia.

Professional Appointments

Member of the Cornea, Cataract and Refractive Surgery Department at the IMO since 2016.

Specialist ophthalmologist of the Cornea and Anterior Segment Department at the Hospital Universitari Mútua de Terrassa since 2015.

Specialist ophthalmologist of the Paediatric Ophthalmology Department at the Hospital Universitari Mútua de Terrassa since 2015.

Specialist ophthalmologist of the Cornea, Anterior Segment and Refractive Surgery Department at the Centre Àptima Clínica Mútua de Terrassa and, later on, at the Surgical Eye Centre of Terrassa (2014 – 2015).

Affiliations

Member of the European Society of Cataract and Refractive Surgery since 2012.

Member of the Medical Association of Barcelona since 2011.

Member of the Catalanian Ophthalmology Society since 2011.

Research

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

She has undertaken and/or participated in numerous research projects, among which are:

Collaborating researcher. HOLOCORE. Efficacy and Safety of Autologous Cultivated Limbal Stem Cells Transplantation (ACLSCT) for Restoration of Corneal Epithelium in Patients With Limbal Stem Cell Deficiency. (7424-01)

Collaborating researcher. PRGF-ENDORET. Randomised, parallel-group, multicentre, blind to evaluators clinical trial to evaluate the efficacy and safety of PRGF-Endoret eye drops in patients with stage 2 and 3 neurotrophic keratitis. (BTI-011-EC/15/QUER)

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| Since May 2015 | OPHTHEC, THE NETHERLANDS & HOSPITAL UNIVERSITARI MÚTUA DE TERRASSA
Prospective multicenter clinical trial with the PrecizonPresbyopic multifocal intraocular lens. |
| 2013 – 2015 | PUBLIBECA SECOIR 2015 – HOSPITAL UNIVERSITARI MÚTUA DE TERRASSA
Relationship of Visual Acuity and Graft Thickness in Descemet Stripping Automated Endothelial Keratoplasty. |
| Since 2013 | REFOCUS GROUP & HOSPITAL UNIVERSITARI MÚTUA DE TERRASSA
PresView Scleral Implant (PSI) for the improvement of near visual acuity in presbyopic patients. |
| 2012 – 2015 | CONSORCI SANITARI DE TERRASSA
The use of HD-OCT to evaluate the results after the pterygium's surgery. Tomographic patterns. |
| 2012 – 2013 | LABORATORIO ALCON & HOSPITAL UNIVERSITARI MÚTUA DE TERRASSA
Surface Project "Approach of the ocular surface disease in the patient with glaucoma". |
| 2012 | HOSPITAL UNIVERSITARI MÚTUA DE TERRASSA
Assessment of central corneal thickness in normal eyes with non-contact optical low-coherence reflectometry (Lenstar), ultrasound pachymetry and specular microscopy. |

Publications

She has written and/or participated in numerous publications, notable among which are the following:

Güell JL, Morral M., **Barbany M.**, Gris O. Intacs® Corneal Implants for keratoconus. In: Price FW, McKee Y. Management of Keratoconus: iBook. 2016.

Gris O., **Barbany M.**, Güell JL., Elíes D. Capítulo 1.7 Superficie Ocular y queratoplastia. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., Gris O., **Barbany M.**, Morral M. Capítulo 5.4.4 Queratoplastia laminar anterior profunda: técnica de viscodisección. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., Gris O., **Barbany M.**, Morral M. Capítulo 7.2.4 Queratoplastia descemeto-endotelial: técnica bimanual. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., Gris O., **Barbany M.**, Morral M. Capítulo 7.3.3 Queratoplastia descemeto-endotelial y cirugía vítreo-retiniana. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., **Barbany M.**, Morral M. Capítulo 7.5.1 Complicaciones intraoperatorias de la queratoplastia descemeto-endotelial. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., **Barbany M.**, Morral M. Capítulo 7.5.3 Complicaciones postoperatorias tras la queratoplastia descemeto-endotelial. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., Celis J., **Barbany M.**, Morral M., Verdaguer P. Capítulo 7.6 Resultados de la queratoplastia descemeto-endotelial: comparación con otras técnicas. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., **Barbany M.**, Morral M. Capítulo 7.7.2 Queratoplastia descemeto-endotelial en el síndrome endotelial iridocorneal. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

Güell JL., Segovia E., **Barbany M.**, Morral M. Capítulo 7.7.5 Queratoplastia descemeto-endotelial en ojo con injerto penetrante fallido y múltiples cirugías previas. Queratoplastias: Nuevas técnicas para el siglo XXI. Sociedad Española de Oftalmología. 2016. ISBN: 978-84-89085-62-6

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.ofal.2014.04.024 (Epub ahead of print)

Pujol P, Julio G, **Barbany M.** Ophthalmic and Physiological Optics. Healing indicators after pterygium excision by optical coherence tomography. May 2015.

Conferences and courses

She has been author or co-author of numerous communications and lectures at national and international ophthalmology courses and conferences. Most recently:

Barbany M. (2016) 1) Communications: Loss of tissue during DMEK graft acquisition with the Muraine technique. Graft functionality and adhesion in complex DSAEK. Loss of donor tissue: DMEK vs DSAEK. Busting the myth. DMEK: our experience and analysis of results. 2) Poster: Postoperative follow-up of DMEK with OCT (1st prize). 47th Catalan Ophthalmology Society Conference. Barcelona

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Barbany M. (2016) Tearing of Descemet's membrane (DM) when obtaining grafts for Descemet membrane endothelial keratoplasty (DMEK) using Muraine's technique. 7th EuCornea Congress. Amsterdam

Barbany M. (2016) Video and communication: Cataract surgery post fungal infection. 2nd Vallés-Bages Ophthalmology Session. Manresa

Barbany M. (2016) Organiser and speaker. Video course on DMEK surgery. Alternative techniques to DMEK. One-day video course at Mutua de Terrassa University Hospital. Terrassa

Barbany M. (2015) Anterior segment: Cornea, cataracts, glaucoma and anterior uveitis. Communication: Iridocorneal endothelial syndrome. 1st Vallés-Bages Ophthalmology Session. Terrassa

Barbany M. (2015) Surgical management in cases of glaucoma secondary to angular endothelisation. 10th Spanish Glaucoma Society Conference. Madrid