

Costanza Rossi, MD

EDUCATION

- Oct 2025** Master's Degree in Biostatistics for Medical Research and Scientific Reporting
University of Padua, Padua, Italy
- 2021- 2025** Ophthalmology residency
University "Magna Graecia" of Catanzaro, Catanzaro, Italy
70/70 cum laude | "Residual Bed Thickness in Deep Anterior Lamellar Keratoplasty: a Comparative Study of Peeling-off and Manual Technique
- 2015 - 2021** Medicine and Surgery Degree
Humanitas University, Milan, Italy
110/110 cum laude and Honorable Mention | "Analysis of Corneal Shape after Dovetail Deep Anterior Lamellar Keratoplasty: a Novel Technique for Graft Apposition with Three Years follow up"

CLINICAL ROTATIONS

- Dec 24-June 2025** Presidio Territoriale di Gagliano del Capo – ASL Lecce
Cataract surgery rotation
Supervisor: Dott. Enrico Rotondo
- Mar - May 2024** Queen's Medical Center - Nottingham University Hospitals NHS Trust, Nottingham, United Kingdom
Clinical attachment – Cornea and Anterior Segment
Supervisor: Prof. Harminder S. Dua
- 2021 - 2025** Azienda Ospedaliero Universitaria "Renato Dubecco" – *Università Magna Graecia* – Catanzaro, Italy
Resident in Ophthalmology
Supervisor: Prof. Vincenzo Scorgia
- 2018 – 2021** Ophthalmology Internship
IRCCS Istituto Clinico Humanitas, Milan, Italy
Supervisor: Prof. Paolo Vinciguerra

SURGICAL EXPERIENCE

- 2022 - current** Cataract Surgery: Facoemulsification and intraocular lens implantation – Procedures as first operator: 300
Intravitreal Injections – Procedures as first operator: 500
Corneal cross-linking – Procedures as first operator: 30

PEER REVIEWED SCOPUS-INDEXED PUBLICATIONS

Rossi C, Lucisano A, Scalia G, Vaccaro S, Alessio G, Taloni A, Romeo MA, Porchia S, Borselli M, Carnevali A, Scorgia V, Carnovale-Scalzo G. Keratoscope-guided opening of graft-host junction to treat elevated astigmatism after deep anterior lamellar keratoplasty. Br J Ophthalmol. 2025;bjo-2025-327208. doi: 10.1136/bjo-2025-327208.

Elzawahry F, Rossi C, Said D, Dua HS. Correlation of Anterior Segment Optical Coherence Tomography and Slit-Lamp Imaging in Infectious Keratitis. Cornea. 2025. doi: 10.1097/ICO.0000000000003788.

Giannaccare G, Vagge A, Pellegrini M, Buzzi M, Mencucci R, Lorusso M, Massimino M, Rossi C, Celandroni F, Calvigioni M, Mazzantini D, Nicolò M, Scorgia V, Traverso CE, Ghelardi E. In vitro and in vivo antimicrobial activity of medicated wipes containing biosecure on the microbial Flora of the eyelid and conjunctiva. Eur J Ophthalmol. 2025;11206721251332758. doi: 10.1177/11206721251332758.

Borrelli E, Coco G, Pellegrini M, Mura M, Ciarmatori N, Scorgia V, Carnevali A, Lucisano A, Borselli M, Rossi C, Reibaldi M, Ricardi F, Vagge A, Nicolò M, Forte P, Cartabellotta A, Hasanreisoglu M, Kesim C, Demirel S, Yanik Ö, Bernabei F, Rothschild PR, Farrant S, Giannaccare G. **Safety, Tolerability, and Short-Term Efficacy of Low-Level Light Therapy for Dry Age-Related Macular Degeneration.** *Ophthalmol Ther.* 2024;13(11):2855-2868. doi: 10.1007/s40123-024-01030-w.

Vaccaro S, Borselli M, Scalia G, Rossi C, Toro MD, Rejdak R, Pellegrini M, Scorgia V, Giannaccare G. **A Novel Noninvasive Screening Tool for Dry Eye Disease.** *Diagnostics (Basel).* 2024 Jun 7;14(12):1209. doi: 10.3390/diagnostics14121209.

Borselli M, Rossi C, Carnevali A, Scorgia V, Giannaccare G. **Petal-shaped corneal pattern in a patient with posterior amorphous corneal dystrophy.** *Am J Ophthalmol Case Rep.* 2024;35:102081. doi: 10.1016/j.ajoc.2024.102081.

Borselli M, Oliverio F, Giannaccare G, Rossi C, Lucisano A, De Lellis M, Vaccaro S, Lamonica L, Scorgia V, Carnevali A. **Aspects of Optical Coherence Tomography Angiography and Dye Angiography in the Diagnosis of type 1 Choroidal Neovascularization secondary to Pachychoroid.** *Minerva Ophthalmology.* 2024; 66(1):1-6. doi:10.23736/S2785-1265.23.01874-8.

Borselli M, Rossi C, Chisari D, Carnovale Scalzo G, Lucisano A, Randazzo G, Mollace V, Scorgia V, Carnevali A. **Current and Emerging Treatment Options for Central Serous Chorioretinopathy.** *Expert Review of Ophthalmology.* 2024, 1–14. doi:10.1080/17469899.2024.2336241.

Rossi C, Buizza A, Alessio G, Borselli M, Taloni A, Carnevali A, Carnovale Scalzo G, Lucisano A, Scorgia V, Giannaccare G. **Ophthalmic Manifestations in Patients with Blood Malignancies.** *Hematology Reports.* 2024; 16(2):193-203. <https://doi.org/10.3390/hematolrep16020020>.

Rossi C, Vaccaro S, Borselli M, Carnovale Scalzo G, Toro MD, Scorgia V, Giannaccare G. **Noninvasive Ocular Surface Workup in Patients with Meibomian Gland Dysfunction Using Microwave-Heated Eye Bag.** *Clin Ophthalmol.* 2024;18:853-858. doi: <https://doi.org/10.2147/OPHTH.S451925>.

Borselli M, Toro MD, Rossi C, Taloni A, Khemlani R, Nakayama S, Nishimura H, Shimizu E, Scorgia V, Giannaccare G. **Feasibility of Tear Meniscus Height Measurements Obtained with a Smartphone-Attachable Portable Device and Agreement of the Results with Standard Slit Lamp Examination.** *Diagnostics (Basel).* 2024;14(3):316. doi: 10.3390/diagnostics14030316.

Giannaccare G, Vaccaro S, Borselli M, Rossi C, Carnovale Scalzo G, Scalia G, Di Cesare Mannelli L, Ghelardini C, Zerillo L, Polvere I, Vito P, Zotti T, Stilo R, Scorgia V. **A Novel Ophthalmic Solution Containing Glicopro® Complex for the Treatment of Patients with Dry Eye Disease: Results from a Pilot Study.** *J Clin Med.* 2024;13(5):1447. doi: 10.3390/jcm13051447.

Giannaccare G, Borselli M, Rossi C, Carnovale Scalzo G, Pellegrini M, Vaccaro S, Scalia G, Lionetti G, Mancini A, Bianchi P, Scorgia V. **Noninvasive screening of ocular surface disease in otherwise healthy patients scheduled for cataract surgery.** *Eur J Ophthalmol.* 2024;11206721241228621. doi: 10.1177/11206721241228621.

Fogagnolo P, Giannaccare G, Mencucci R, Villani E, Orfeo V, Aragona P; **Italian Dry Eye Study Group.** **Effectiveness of a New Active Tear Substitute Containing 0.2% Hyaluronic Acid and 0.001% Hydrocortisone on Signs and Symptoms of Dry Eye Disease by Means of Low- and High-Tech Assessments.** *Ophthalmol Ther.* 2024;13(1):251-266. doi: 10.1007/s40123-023-00833-7.

Giannaccare G, Rossi C, Borselli M, Carnovale Scalzo G, Scalia G, Pietropaolo R, Fratto B, Pellegrini M, Yu AC, Scorgia V. **Outcomes of low-level light therapy before and after cataract surgery for the prophylaxis of postoperative dry eye: a prospective randomised double-masked controlled clinical trial.** *Br J Ophthalmol.* 2023;bjo-2023-323920. doi: 10.1136/bjo-2023-323920.

Borselli M, Ferrari FF, Bianchi P, Rossi C, Carnovale Scalzo G, Mangialavori D, Scorgia V, Giannaccare G. **Outcomes of the Addition of Oral Administration of Curcumin-Phospholipid to Hyaluronic Acid-based Tear Substitute for the Treatment of Dry Eye Disease.** *Front. Ophthalmol.* 2023;3:1236525. doi: 10.3389/fopht.2023.1236525.

Taloni A, Borselli M, Scarsi V, Rossi C, Coco G, Scorgia V, Giannaccare G. **Comparative performance of humans versus GPT-4.0 and GPT-3.5 in the self-assessment program of American Academy of Ophthalmology.** *Sci Rep.* 2023;13(1):18562. doi: 10.1038/s41598-023-45837-2.

Giannaccare G, Coco G, Rossi C, Borselli M, Lucisano A, Vaccaro S, Verdiglione M, Scorgia V. **Combined Use of Therapeutic Hyper-CL Soft Contact Lens and Insulin Eye Drops for the Treatment of Recalcitrant Neurotrophic Keratopathy.** *Cornea.* 2024; 1;43(1):120-124. doi: 10.1097/ICO.0000000000003361.

Rossi C, Scorgia V, Borselli M, Giannaccare G, Spina R, Lucisano A. **Surgical Tips for Improving Success Rate of Deep Anterior Lamellar Keratoplasty in Keratoconus.** *OBM Transplantation.* 2023; 7(2): 188; doi:10.21926/obm.transplant.2302188.

Lucisano A, Scorgia V, Rossi C, Scalia G, Giannaccare G. **Phacoemulsification Under the Complex Dua's Layer-Descemet-Endothelium for Combined Cataract Surgery and Penetrating Keratoplasty after Failed Deep Anterior Lamellar Keratoplasty.** *Cornea;* 2023; doi: 10.1097/ICO.0000000000003338

Lucisano A, Scorcio V, Taloni A, Rossi C, Gioia R, Giannaccare G. **Impact of topographic localization of corneal ectasia on the outcomes of deep anterior lamellar keratoplasty employing large (9 mm) versus conventional diameter (8 mm) grafts.** Eye (Lond). 2023. doi: 10.1038/s41433-023-02536-6.

Giannaccare G, Rossi C, Borselli M, Bonzano C, Carnovale Scalzo G, Nicolò M, Scorcio V, Traverso CE, Vagge A. **Clinical Outcomes of Topical 0.1% Ciclosporin Cationic Emulsion Used on Label in Children with Vernal Keratoconjunctivitis.** Ophthalmol Ther. 2023. doi: 10.1007/s40123-023-00707-y.

Randazzo A, Raimondi R, Fossati G, Romano M, Sorrentino T, Castellani C, Rossi C, Cancian G, Vinciguerra P. **Outcomes of Abrupt Switch to Bevacizumab of Patients Undergoing Aflibercept Intravitreal Injections for Neovascular Age-Related Macular Degeneration in a Tertiary Center in Lombardy, Italy: A Real-Life Retrospective Analysis.** J Ophthalmol. 2021 Sep 11;2021:7940297

BOOK CHAPTERS

2025 Rossi C, Kilian R, Bovone C, Scorcio V. **Chirurgia corneale ed herpes virus: cheratoplastica lamellare anteriore.** La Malattia Erpetica Oculare. Antonio Delfino Editore. ISBN: 978-88-7287-711-1.

2022 Giannaccare G, Vaccaro S, Rossi C, Scorcio V. **Come valutare il risultato della ricostruzione del limbus per poter dare l'indicazione alla cheratoplastica: quadro clinico, citologia ad impressione, microscopia confocale.** Atlante delle Malattie della Superficie Oculare – Trattamento chirurgico – Parte seconda. Antonio Delfino Editore. ISBN: 978 – 88 – 7287 – 688 – 6.

AWARDS AND RECOGNITIONS

2024 Terzo premio “Miglior Video”: Rossi C, Scalia G, Pietropaolo R. **Suture Life-Line: un metodo innovativo di impianto di lembo DSAEK in un caso di diaframma incompleto.** XXIII Congresso Società Oftalmologica Calabrese (SOC), Reggio Calabria

2023 Secondo premio “Miglior Poster”: Rossi C, Borselli M, Scorcio V, Giannaccare G. **Utilizzo combinato di lente a contatto terapeutica hyper-CL e collirio a base di insulina per il trattamento di ulcere neurotrofiche refrattarie.** XXII Congresso Società Oftalmologica Calabrese (SOC), Reggio Calabria

Best Video Award: C. Rossi, G. Giannaccare, G. Scalia, A. Lucisano, V. Scorcio. **Phacoemulsification Under the Complex Dua's Layer-Descemet-Endothelium for Combined Cataract Surgery and Penetrating Keratoplasty after Failed Deep Anterior Lamellar Keratoplasty.** 27° Congresso Nazionale Società Italiana Trapianti di Cornea e Superficie Oculare (S.I.TRA.C.), Bologna

NATIONAL AND INTERNATIONAL CONFERENCE CONTRIBUTIONS

2025 Presented Poster: Rossi C, Elzawahry F, Sahay P, Nubile M, Dua H, Said D. **Anterior segment optical coherence tomography (ASOCT) evaluation of cryo-preserved and vacuum dried amniotic membrane used in the management of persistent corneal epithelial defects (PED).** 16th Eucornea Congress, Prague

Presented Poster: Rossi C, Lucisano A, Borselli M, Taloni A, Scorcio V. **Keratospere-guided Opening of Graft Host Junction to Treat Elevated Astigmatism after Deep Anterior Lamellar Keratoplasty.** 16th Eucornea Congress, Prague

Invited Oral Presentation: **Unsatisfactory Outcomes After IOL Implantation: Solutions and the Role of the Cornea.** XXVI Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER) – International Edition, Trieste

Invited Oral Presentation: **Introductory Course in Collaboration with SOU - Mastering the Secrets of Cataract Surgery: Tunnel Enlargement.** XXVI Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER) – International Edition, Trieste

Free Paper: Rossi C, Scalia G, Alessio G, Romeo MA, Lucisano A, Scorcio V. **Dissezione Smussa Sotto Guida Cheratoscopica Della Giunzione Donatore-Ricevente Per La Gestione Dell'astigmatismo Elevato Post Cheratoplastica Lamellare Anteriore Profonda.** 29° Congresso Nazionale Società Italiana Trapianti di Cornea e Superficie Oculare (S.I.TRA.C.), Padova

2024

Free Paper: **Rossi C, Borselli M, Taloni A, Mancini A, Scordia V, Lucisano A. Transcapsular Scleral Fixation For Zonular Dehiscence With Lens Subluxation: A Case Report** – 42nd Congress of the European Society of Cataract and Refractive Surgeons (ESCRS), Barcelona

Poster: **Rossi C, Borselli M, Iovino C, Carnevali A, Scordia V, Giannaccare G. Photobiomodulation for Dry Age Related Macular Degeneration and Beyond: Expanding Horizons of this Promising Technology 2024** Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Seattle

Invited Oral Presentation: **Grave infezione corneale: cosa fare** – 3° Congresso Nazionale Società Italiana di Scienze Oftalmiche (SISO), Rome

Invited Oral Presentation: **Mystery Case in Cornea** – 3° Congresso Nazionale Società Italiana di Scienze Oftalmiche (SISO), Rome

Invited Oral Presentation: **A Revolutionary Approach to Anterior Segment Pathologies: Our Journey with LM LLLT Technology** – Synoptik Fagdag 2024, Oslo

Invited Oral Presentation: **Il mio amico facoemulsificatore: chattering followability e holdability: conoscerli per evitarne alcuni ed averne altri** – XXV Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Rome

Invited Oral Presentation: **Corso di chirurgia della cataratta con SOU: chirurgia della cataratta per giovani chirurghi. Come iniziare bene e finire meglio. Le incisioni: come e dove** – XXV Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Rome

Free paper: **Rossi C, Taloni A, Borselli B, Giannaccare G, Scordia V, Lucisano A. Transcapsular scleral fixation for zonular dehiscence with lens subluxation: a case report** – XXV Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Rome

Invited Oral Presentation: **Descemet stripping automated endothelial keratoplasty (DSAEK) – casi clinici a confronto** – Società Italiana Laser in Oftalmologia 2024, Cortina D'Ampezzo

2023

Poster: **Rossi C, Borselli M, Scordia V, Giannaccare G. Utilizzo combinato di lente a contatto terapeutica hyper-CL e collirio a base di insulina per il trattamento di ulcere neurotrofiche refrattarie.** XXII Congresso Società Oftalmologica Calabrese (SOC), Reggio Calabria

Free Paper: **Lucisano A, Scordia V, Taloni A, Rossi C, Gioia R, Giannaccare G. Impact Of Topographic Localization Of Corneal Ectasia On The Outcomes Of Deep Anterior Lamellar Keratoplasty Employing Large (9 mm) Versus Conventional Diameter (8 mm) Grafts.** 41st Congress of the European Society of Cataract and Refractive Surgeons (ESCRS), Vienna

Free Paper: **Rossi C, Borselli M, Vaccaro S, Carnovale Scalzo G, Scordia V, Carnovale Scalzo G. Efficacy and Safety of a Novel Ophthalmic Solution Containing 0.2% Xanthan Gum and 0.025% Desonide Sodium Phosphate for the Treatment of Dry Eye Disease.** 2023 International Society of Cornea, Stem Cells and Ocular Surface (SICSSO) Congress, Catania

Poster: **Giannaccare G, Rossi C, Vaccaro S, Carnovale Scalzo G, Borselli M, Scarsi V, Toti G, Scordia V. Efficacy and Safety of a Novel Ophthalmic Solution Containing 0.2% Xanthan Gum and 0.025% Desonide Sodium Phosphate for the Treatment of Dry Eye Disease.** European Dry Eye Society (EuDES) Meeting, Munich

Invited Oral Presentation: **Pratica Clinica nel Dry Eye Disease Iatrogeno da Tossicità.** Dry Eye Disease, Advanced Learning in Ophthalmology - European School for Advanced Studies in Ophthalmology (ESASO) Special Programme, Catanzaro

Poster: **Rossi C, Bifezzi L, Carnovale Scalzo G, Scordia V. Efficacy and Safety of a Novel Ophthalmic Solution Containing 0.2% Xanthan Gum and 0.025% Desonide Sodium Phosphate for the Treatment of Dry Eye Disease.** 2023 Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, New Orleans

Invited Oral Presentation: **Basic Course of Cataract Surgery in collaboration with SOU and ESASO: Iniziamo Bene con l'Idrodissezione.** XXIV Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Florence

Free Paper: **Rossi C, Borselli M, Scalia G, Giannaccare G. Noninvasive Screening of Ocular Surface Disease in Healthy Patients Scheduled for Cataract Surgery.** XXIV Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Florence

Free paper: **Rossi C, Giannaccare G, Scalia G, Lucisano A, Scorcia V. Phacoemulsification Under the Complex Dua's Layer-Descemet-Endothelium for Combined Cataract Surgery and Penetrating Keratoplasty after Failed Deep Anterior Lamellar Keratoplasty.** 27° Congresso Nazionale S.I.TRA.C., Bologna

2022

Free paper: **Rossi C, Scalia G, Lucisano A, Giannaccare G, Carnevali A, Scorcia V. Nuova tecnologia per la facoemulsificazione con Quattro Pompe: la nostra esperienza.** 13° Congresso Nazionale congresso Congiunto Associazione Italiana Medici Oculista (AIMO), 1° congresso Congiunto AIMO - Società Italiana di Scienze Oftalmologiche (SISO), Rome.

ONGOING RESEARCH PROJECTS

2024 - current

Residual Bed Thickness in Deep Anterior Lamellar Keratoplasty: a Comparative Study of Peeling-off and Manual Technique. Principal investigator: Prof. V. Scorcia – under revision in Cornea.

Anterior segment optical coherence tomography (ASOCT) evaluation of cryo-preserved and vacuum dried amniotic membrane used in the management of persistent corneal epithelial defects (PED). Principal Investigator: Prof H. Dua – under revision in Eye Open

Impact of Residual Stromal Thickness on the Outcomes of Manual Deep Anterior Lamellar Keratoplasty. Principal Investigator: Prof. V. Scorcia

Surgical management of Corneal Perforations associated to Peripheral Ulcerative Keratitis: a Case series and literature review. Principal Investigator: Prof H. Dua – under revision in Cornea

WORKSHOPS AND WETLABS

Jul 2023

Amniotic Membrane wetlab. Supervisor: Prof. H. Dua - 2023 SICSSO Congress, Catania

Feb 2023

DSAEK wetlab – Supervisor Dr. R. Colabelli Gisoldi - 27° Congresso Nazionale S.I.TRA.C., Bologna

Oct 2022

European School for Advanced Studies in Ophthalmology (ESASO) Special Programme “Anterior Segment Diseases and Surgery”. Wetlabs: Cataract Surgery, Corneal suturing techniques, Penetrating Keratoplasty. ESASO Training Centre, Lugano (Switzerland).

March 2022

Cataract Surgery Simulator. XIII Congresso Nazionale Associazione Italiana di Chirurgia della Cataratta e Refrattiva (AICCER), Milan

March 2022

Cataract Surgery Course with Surgical Simulator, OFFHEALTH, Florence

LANGUAGES

Italian

Mother Tongue

English

Fluent

Spanish

Fluent

French

Fair

ADDITIONAL INFORMATION

2024 - Current

GMC registration, reference n. 8096497

November 4th, 2025

Authorization (with reference to Law 196/2003)