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## **Advances in endothelial keratoplasty**

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# Appendices

List of Publications

Acknowledgements

Curriculum Vitae

## LIST OF PUBLICATIONS

1. Dockery PW, Parker JS, **Birbal RS**, Tong CM, Parker JS, Joubert KP and Melles GRJ. Clinical outcomes of Descemet membrane endothelial keratoplasty performed in eyes with comorbid keratoconus and corneal endothelial dysfunction. *Submitted for publication*
2. **Birbal RS**, Baydoun L, Ham L, Miron A, van Dijk K, Dapena I, Jager MJ, Böhringer S, Oellerich S and Melles GRJ. Effect of surgical indication and preoperative lens status on Descemet Membrane Endothelial Keratoplasty outcomes. *Am J Ophthalmol* 2020;212:79-87
3. **Birbal RS**, Parker JS, van Dijk K, Oellerich S, Dapena I and Melles GRJ. Hydrops after corneal perforation during manual deep anterior lamellar keratoplasty (DALK) for keratoconus. *Acta Ophthalmol* 2020;98:e522-3
4. **Birbal RS**, Ni Dhubhghaill S, Baydoun L, Ham L, Bourgonje V, Dapena I, Oellerich S and Melles GRJ. Quarter-Descemet Membrane Endothelial Keratoplasty: One- to two-year clinical outcomes. *Cornea* 2020;39:277-82
5. **Birbal RS**, Ni Dhubhghaill S, Bourgonje VJA, Hanko J, Ham L, Jager MJ, Böhringer S, Oellerich S and Melles GRJ. Five-year graft survival and clinical outcomes after Descemet membrane endothelial keratoplasty: Results of the first 500 consecutive cases. *Cornea* 2020;39:290-7
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12. Miron A, Spinozzi D, Bruinsma M, Lie J, **Birbal RS**, Baydoun L, Oellerich S and Melles GRJ. Asymmetrical endothelial cell migration from in vitro Quarter-DMEK grafts. *Acta Ophthalmol* 2018;96:828-33
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14. Dragnea DC, **Birbal RS**, Ham L, Dapena I, Oellerich S, van Dijk K and Melles GRJ. Bowman Layer transplantation for progressive keratoconus. *Eye Vis* 2018;12:5:24

15. Baydoun L, Zygoura V, Hsien S, **Birbal RS**, Spinozzi D, Lie J, Ham L, Oellerich S and Melles GRJ. Clinical feasibility of using multiple grafts from a single donor for Quarter-DMEK. *Acta Ophthalmol* 2018;96:e656-8
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## Books/ Book chapters

1. Dockery PW, Parker JS, **Birbal RS**, van Dijk K, Tong M, Ambati B, Baydoun L, Dapena I and Melles GRJ. Bowman layer transplantation. In: The Keratoplasty - Practical guide. *Submitted for publication*
2. Tong M, Parker J, van Dijk K, **Birbal RS** and Melles GRJ. The Melles technique. In Jacob S (ed.): Mastering DALK - A video textbook on Deep anterior lamellar keratoplasty. 2019; Chapter 7
3. Parker JS, **Birbal RS**, van Dijk K, Tong M, Ambati B, Baydoun L, Dapena I and Melles GRJ. Bowman Layer Transplantation for Advanced Keratoconus. In Barbara A (ed.): Controversies in the management of keratoconus. 2019; Chapter 27
4. Parker J, **Birbal R** and Melles GRJ - Picture Perfect DMEK: A visual guide to a beautiful operation. 2018

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## CURRICULUM VITAE

Rénuka Sadhna Birbal was born on October 24, 1987 in The Hague, The Netherlands. She graduated from secondary school (Atheneum, Segbroek College, The Hague) in 2005, after which she started her medical training at the Erasmus University Rotterdam. During the first few years of her medical training, Rénuka worked as an eye bank technician at the Amnitrans EyeBank Rotterdam (AER) and a research student at the Netherlands Institute for Innovative Ocular Surgery (NIIOS) in Rotterdam (supervisor: Dr. G.R.J. Melles). She completed clinical and research minors with the Department of Obstetrics and Gynecology at the Singapore General Hospital in Singapore and the Department of Trauma Surgery at the Groote Schuur Hospital in Capetown, South-Africa. After obtaining her medical degree in 2015, Rénuka worked as a medical doctor at the Department of General Surgery at the Haaglanden Medical Center in The Hague. In 2016, Rénuka returned to NIIOS as a medical doctor and a research fellow, where she was responsible for specialized cornea consultations and assisting corneal surgeries at the Melles Cornea Clinic Rotterdam, and processing donor tissue at the AER. She participated in multiple research projects on the topics of eye banking and advanced lamellar keratoplasty techniques designed and implemented at NIIOS. These include projects with Parker Cornea in Birmingham, AL, USA. As part of the NIIOS Academy, Rénuka contributed to regional and international instructional and wetlab courses on eye banking and lamellar keratoplasty. In August 2017, she was accepted for a joint PhD-position at the Leiden University Medical Center and NIIOS (advisors: Prof. Dr. M.J. Jager and Dr. G.R.J. Melles). During this period, she continued her clinical and teaching duties. Renuka has presented her research at various national and international conferences, including as an invited expert speaker for an American keratoconus symposium. In January 2019, she was a member of the organizing committee for the annual meeting of the European Eye Bank Association in Rotterdam. In the summer of 2019, Rénuka completed a clinical observership at the Anterior and Refractive Surgery Department of the Adolphe de Rothschild Hospital Foundation and Institut Laser Vision Noémie de Rothschild in Paris, France (supervisor: Dr. D. Gatineau). She subsequently worked as a medical doctor in General Ophthalmology at the Ophthalmic Medical Center Zaandam, The Netherlands (supervisor: Dr. M.J.W. Zaal). Rénuka started as a medical doctor at the Department of Ophthalmology at the Radboud University Medical Center in Nijmegen, The Netherlands, on November 1, 2020, and will commence her residency at the same institute in January 2021 (residency program director: Dr. S. Keijser).

