NHS BLOOD AND TRANSPLANT

OCULAR TISSUE ADVISORY GROUP

CONFERENCE PRESENTATIONS, CURRENT AND FUTURE WORK

INTRODUCTION

1 This report summarises current and future work being undertaken by NHS Blood and Transplant, as well as providing details of conference presentations given and abstracts submitted.

CONFERENCE PRESENTATIONS

2 A poster presentation on the stability of visual outcome after corneal transplantation was given at the Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting in May 2016. This work has been undertaken in collaboration with colleagues from the Bristol Eye Hospital and work is now underway to prepare a paper for publication.

3 Two further presentations were given at ARVO, by colleagues from the Royal Liverpool University Hospital and the Bristol Eye Bank, for work that is being undertaken in collaboration with NHSBT looking at the influence of gender incompatibility on corneal transplant outcomes (Liverpool oral presentation) and also whether HLA class I matching influences PK outcomes (Bristol poster presentation). The results of the gender incompatibility analysis have now also been accepted for publication in the American Journal of Transplantation.

4 An update of graft outcomes following endothelial keratoplasty was presented at the Bowman Club meeting in March 2016.

PUBLICATIONS

5 Papers in preparation and those submitted or accepted for publication are listed below. Publications since 2006 are listed in the appendix.

Papers in preparation

OTAG10
Armitage WJ, Jones MNA, Zambrano I, Kaye SB, Tole DM. Factors predicting primary graft failure in corneal transplantation.

Papers submitted/accepted for publication

OTAG20
Hopkinson CL, Romano V, Kaye R, Steger B, Stewart R, Tsagkataki M, Jones MNA, Larkin DFP, Kaye SB. The influence of donor and recipient gender incompatibility on corneal graft rejection and failure [Accepted by American Journal of Transplantation]
OTAG21
Steger B, Curnow E, Kaye A, Romano V, Cheeseman R, Jones MNA, Kaye SB.
Bilateral corneal transplants increase graft survival in the first eye [Submitted to Ophthalmology currently answering reviewers’ comments].

OTAG22
SJ Robbie, MNA Jones, DFP Larkin
The influence of socio-economic deprivation on visual acuity in patients undergoing corneal transplantation [Rejected by British Journal of Ophthalmology]

CURRENT AND FUTURE WORK

6 Further work has been undertaken in collaboration with the SN-OD teams to look at eye procurement from solid organ donors (EPSOD). This is an ongoing project and the results for 2015/16 are reported as a separate agenda item.

7 Work is also underway looking at the incidence of graft failure or rejection in the presence of pre-operative corneal neovascularisation. This project is being undertaken in collaboration with colleagues from Moorfields Eye Hospital and the Royal Liverpool University Hospital.

8 Work is due to commence shortly on two further projects. The first is a project in collaboration with colleagues from the Royal Liverpool University Hospital looking at the impact of donor factors on the failure or rejection of corneal grafts following penetrating keratoplasty. The second project, in collaboration with Bristol Eye Hospital, will characterise the rate of graft dislocation and primary graft failure following endothelial keratoplasty.

9 There are also two other projects, suggested by colleagues in the Royal Liverpool University Hospital and Moorfields Eye Hospital that have been approved by the OTAG audit and analysis sub group. These are currently either awaiting resource or sufficient data for analysis:
   • Determine whether a larger graft size results in improved graft survival following endothelial keratoplasty (Liverpool)
   • Trends in incidence of rejection and impact on corneal transplant survival (Moorfields)

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Statistics and Clinical Studies

January 2016
APPENDIX

AUDIT AND RESEARCH PUBLICATION LIST

Publications since 2006

OTAG1

OTAG2

OTAG3

OTAG5


OTAG6

OTAG7

OTAG8


Chen JY, Jones MNA, Srinivasan S, Neal TJ, Armitage WJ, Kaye SB. Endophthalmitis after penetrating keratoplasty. *Ophthalmology* 2015; 122(1) 25-30
