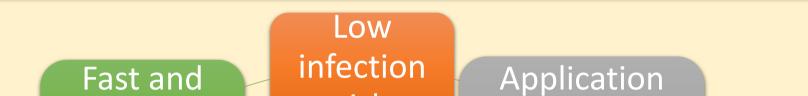


Developing neural transplant cell sprays for traumatic neurological injuries

WILLLIAM WOODS¹, CHRIS ADAMS², DIVYA CHARI¹ ¹ School of Medicine, Keele University, ST5 5BG, UK, ² School of Life Sciences, Keele University, ST5 5BG, UK

Background

Clinical need: Traumatic neurological injuries drastically impact patients



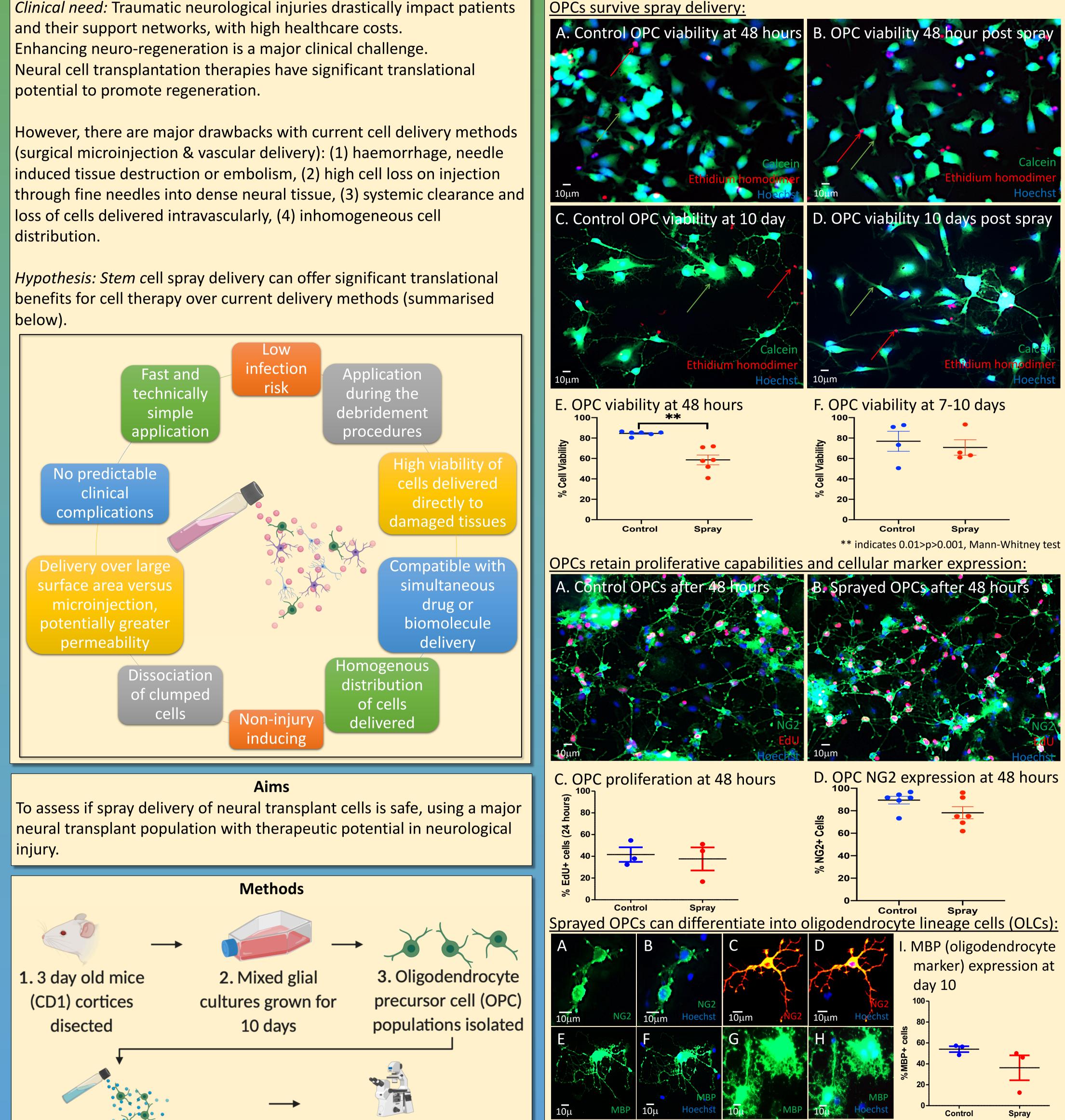
Results

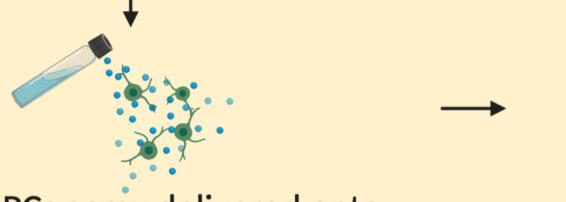
Neural

Tissue

Keele

Engineering





4. OPCs spray delivered onto glass coverslips (controls were pipetted)



- 5. Analysis:
- Viability
- Cell marker expression
- Proliferation

Sprayed OPCs differentiated into a full range of OLC morphologies; OPC (A+B), pre-oligodendrocyte (C+D), immature oligodendrocyte (E+F), mature oligodendrocyte (G+H).

Conclusions

Acknowledgements: Keele School of Medicine Intercalated Degree programme, Faculty of Natural Science Research Support Fund.

Spray technology could offer a novel clinical solution for neural cell delivery in transplantation therapies for traumatic neurological injuries.