

## **NIHR STROKE RESEARCH WORKSHOP 2019**

**Date: Wednesday 11th and Thursday 12th September 2019**

**Location: Chancellor's Hotel & Conference Centre, Manchester**

Arranged under the auspices of the NIHR CRN Stroke Speciality.

Supported by The Stroke Association, the British Association of Stroke Physicians  
and NIHR Clinical Research Network Greater Manchester

**CPD approval RCP: 12 credits**

### **Programme**

**Wednesday 11<sup>th</sup> September**

**Pre-meeting - How to be successful in getting research funding**

*Open to all but particularly focussed on trainees*

*Chairs: Hugh Markus*

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|--------------|---|
| 11.00        | <i>What makes an application successful? Tips from panel members</i> <ul style="list-style-type: none"><li>- MRC (Hugh Markus, Cambridge)</li><li>- NIHR (Bill Deakin, Manchester)</li><li>- BHF (Andrew Trafford, Manchester)</li></ul>                |
| 11.20        | <i>How I got a fellowship? Tips from successful applicants; medical and non-medical</i> <ul style="list-style-type: none"><li>- Claire Howard (Liverpool) – NIHR Fellowship</li><li>- Robin Brown (Cambridge) – ABN/Brain Clinical Fellowship</li></ul> |
| 11.40        | Q and A – All Speakers, Richard Francis (Stroke Association),   |
| <b>12.00</b> | <b>Lunch</b>  |
| 13.00        | Welcome (Stuart Allan, Local Organiser)   |

## **Novel treatment approaches in brain haemorrhage**

*Chairs: David Werring*

- 13.10 Novel surgical approaches  
Barbara Gregson, Newcastle
- 13.35 Latest developments in treating intracerebral haemorrhage  
Floris Schreuder, Radboud, Netherlands
- 14.05 Challenges in improving outcomes after SAH  
Hiren Patel, Manchester
- 14.30 Submitted abstract: Statins and survival: should we stop or continue statins in intracerebral haemorrhage?  
Joshua Yeung, Manchester
- 14.40 Submitted abstract: Long-term antithrombotic therapy and risk of intracranial haemorrhage from cerebral cavernous malformations: a population-based cohort study, systematic review, and meta-analysis  
Charlotte Hickman, Edinburgh
- 14.50 Submitted abstract: Climbing the STAIRs for improved clinical translation: NK1 receptor antagonist treatment for the reduction of cerebral oedema and intracranial pressure following stroke in an ovine model  
Annabel Sorby-Adams, Adelaide
- 15.00 Tea**
- 15.15 Poster session**

## **Psychological and Cognitive consequence of stroke**

*Chairs: Christine Roffe*

- 16.15 What causes dementia after stroke?  
Sarah Pendelbury, Oxford
- 16.40 Apathy – from neurobiology to treatment  
Jonathan Tay, Cambridge
- 17.05 Post-stroke fatigue: From mechanisms to management  
Gillian Mead, Edinburgh
- 17.30 Submitted abstract (Jane White Medical student prize): What are the best predictors of fatigue in CADASIL: Clinical measures or MRI data?  
Sam Moore, Cambridge
- 17.40 Submitted abstract (Medical student) White matter network disruption mediates the association between vascular risk factors and cognitive impairment in a community population

Jun Shen, Cambridge

17.50      The relationship between iron status and ischaemic stroke risk  
Grace Monori, Imperial College London

18.00      End of session

**19.30      Dinner**

## **Thursday 12<sup>th</sup> September**

### **The future of stroke prevention**

*Chairs:      Hugh Markus, Thompson Robinson*

09.00      Personalising anti-platelet treatment to prevent cardiovascular disease  
Tabassome Simon, UPMC-Site Saint Antoine, France

09.30      New advances in anti-coagulants  
Jesse Dawson, Glasgow

09.55      Blood pressure – its not just systolic and diastolic  
Alastair Webb, Oxford

10.20      Submitted abstract: (Medical student prize): Thrombus Permeability and  
Response to Intravenous Thrombolytic Drugs in Acute Ischaemic Stroke  
Fraser Glass, University of Glasgow

10.30      Submitted abstract: Microglial Responses in Post-Stroke and Other Age-Related  
Dementias  
Ayushi Mahesh, Newcastle University

10.40      Submitted abstract: Change in CSF dynamics responsible for ICP elevation after  
ischemic stroke in rats: A new mechanism for unexplained END?  
Mohammed Alshuhri, University of Glasgow

**10.50      Coffee break**

### **The blood brain barrier and cerebral small vessel disease**

*Chairs:      Tom Van Agtmael,*

11.20      An introduction to the BBB  
Inge Mulder, Amsterdam

- 11.45      Imaging BBB leakage in man  
             Laura Parkes, Manchester
- 12.10      Cerebral small vessel disease- from BBB leakage to treatment  
             Joanna Wardlaw, Edinburgh
- 12.35      Submitted abstract: Diffusion networks as an outcome measure to evaluate  
             treatment effects in cerebral small vessel disease trials: the PRESERVE trial  
             Patrick Pflanz, University of Cambridge
- 12.45      Lunch**

### **Advances in stroke recovery**

*Chairs:      Claire Howard,*

- 13.40      Upper limb rehabilitation – from science to treatment  
             Nick Ward, UCL
- 14.05      Profile of post-stroke visual field loss  
             Fiona Rowe, Liverpool
- 14.30      Understanding post-stroke dysphagia  
             Shaheen Hamdy, Manchester

### **PLENARY LECTURE**

*Chair:      Stuart Allan*

- 14.55      The microbiome and stroke  
             Arthur Liesz, Munich
- 15.35      Concluding remarks & poster prizes
- 15.45      Close of meeting

## Posters

### Poster session 11<sup>th</sup> September 15.15-16.15

In addition posters will be on display all day 11 September and possible to view during all breaks. Poster presenters to stand by posters during poster session on 11<sup>th</sup> September. There will be a poster prize awarded at the closing session.

1. *Feasibility and Variability of Automated Pupillometry Among Stroke Patients and Healthy Participants: Potential Implications for Clinical Practice*  
Matthew Marshall; Ritesh Deo; Charmaine Childs; Ali Ali (University of Sheffield)
2. *The Ischaemic Cascade and Novel and Most Recent Therapeutic Targets for Neuroprotection Strategies (A Review)*  
Adrian Mohit (King's College London)
3. *TBC*  
Anjali Seedher (Keele University)
4. *Structural neural mechanisms of post-stroke compensation in chronic aphasia*  
Anna Woollams; Ajay Halai; Matt Lambon Ralph (University of Manchester; University of Cambridge)
5. *A year in the life of SPATIAL (a feasibility Study of Prisms And Therapy In Attention Loss after stroke)*  
Bowen, A.; Woodward-Nutt, K.; Turton, A.; Moule, P.; Hulme, S.; Bamford, A.; Checketts, M.; Longley, V.; Stocking, K.; Vail, A. (University of Manchester)
6. *Manipulating brain macrophages to enhance brain repair and functional recovery after stroke*  
Adrian Olmos-Alonso, Alicia Garcia-Culebras, Alessio Alfieri, Lucas Lefevre, Alison Harris, Ignacio Lizasoain, Maria Moro; David A. Hume; Barry W. McColl (University of Edinburgh; Universidad Complutense de Madrid; University of Queensland)
7. *Blood-brain barrier dysfunction in hypertensive rats assessed using gadolinium-enhanced and water exchange MRI*  
Ben R Dickie; Herve Boutin; Geoff JM Parker; Stuart M. Allan; Laura M. Parkes (University of Manchester; University College London)
8. *Is a Mobility Assessment Course (MAC) useful in the functional assessment of post-stroke hemianopia?*  
Claire Howard; Fiona Rowe (University of Liverpool)
9. *A systematic review of treatment parameters for post-stroke upper limb functional electrical stimulation*  
Scott G; Harrop D; Sage K; Smith C (Sheffield Hallam University)

10. *Do stroke patients presenting to Royal Alexandra Hospital get timely and appropriate investigations?*  
Ghulam Nawaz (University of Glasgow)
11. *Call to hospital times for suspected stroke patients in the North East of England: a service evaluation*  
Graham McClelland, Daniel Haworth (North East Ambulance Service NHS Foundation Trust)
12. *A 12 Month Follow-Up of the Re-Education of Arm and Hand Function Following Stroke (REACH)*  
Luckie H; Smith C; Williams A; Kenney L (Sheffield Hallam University; University of Salford)
13. *Direct presentation vs Patient transfer: A comparison of thrombectomy outcome*  
Jake Weddell; Christine Roffe (Royal Stoke University Hospital; Keele University)
14. *Lacunar infarcts are related to domain-specific quality of life deficits in symptomatic small vessel disease*  
Jeevan Fernando; Robin B. Brown; Hugh S. Markus; Jonathan Tay (University of Cambridge)
15. *Association of Prior Antiplatelet Therapy on Stroke Severity at Admission in Stroke Patients in Scotland: A National Database Study*  
Kadie-Ann Sterling; Mary J Macleod; Peter Langhorne; Melanie Turner; Scottish Stroke Care Audit (University of Glasgow; Institute of Applied Health)
16. *Intracranial Haemorrhage on Anticoagulation Management Audit*  
Kiran Saif; Christina Donnellan (South Tipperary General Hospital)
17. *What to include in a new patient reported outcome measure for post-stroke visual impairment: a Nominal group approach*  
Lauren Hepworth; Fiona Rowe; Girvan Burnside (University of Liverpool)
18. *What Gives a Paper Impact? Assessing Traditional and Alternative Metrics of Scientific Impact*  
LS Wong; TJ Quinn; D Doherty; BA Drozdowska (University of Glasgow)
19. *How is stroke care managed in GP surgeries in the UK? A literature review.*  
Lydia Dean; Nithya Kadiyala; Ryc Aquino; Ricky Mullis; Lisa Lim (University of Cambridge)
20. *Cerebrovascular burden and degeneration of normal appearing white matter underlies executive impairment after ischaemic stroke*  
Michele Veldsman; Emilio Werden; Natalia Egorova; Mohamed Salah Khlif; Amy Brodtmann (University of Oxford; University of Melbourne)

21. *Patient Relevant Outcomes at 6 months after a stroke and their association with National Institutes of Health Stroke Scale (NIHSS) on admission to hospital.*  
N Bains; A Smith; B Carter; J Hewitt (Cardiff University; King's College London)
22. *Post-stroke cognition with the Oxford Cognitive Screen vs Montreal Cognitive Assessment: a multi-site randomized controlled study (OCS-CARE)*  
Nele Demeyere; Shuo Sun; Elise Milosevich; Kathleen Vancleef (University of Oxford; KU Leuven, Belgium)
23. *Early Mobilisation after Stroke Thrombolysis: Exploration of Current UK Physiotherapy Practice*  
Nicola Turner; Karen Jones (Cardiff and Vale University Health Board; Cardiff University)
24. *How is stroke care managed in general practices in the East of England and East Midlands?*  
Nithya Kadiyala; Lydia Dean; Ryc Aquino; Ricky Mullis; and Lisa Lim (University of Cambridge)
25. *Preconditioning with interleukin-1 alpha improves the neuroprotective properties of human mesenchymal stem cells in a model of focal cerebral ischaemia*  
Raymond Wong; Emmanuel Pinteaux; Stuart Allan; Craig Smith; Nancy Rothwell (University of Manchester)
26. *Natural history of white matter hyperintensity progression in small vessel disease: vascular mechanisms and cognitive consequences*  
Robin B. Brown; Jonathan Tay; Hugh S. Markus (University of Cambridge)
27. *Association between retinal vascular measures and silent brain lesions in healthy young adults*  
Valia Rodriguez-Rodriguez; Yilian Costantin; Rebekka Heitmar (Aston University, Birmingham; Cuban Centre for Neurosciences)
28. *Users experience of power assisted exercise following stroke: An interpretative phenomenological analysis*  
Rachel Young,
29. *Post Stroke Neglect Service Improvement Project on an Acute Stroke Unit: A Knowledge Translation Intervention Study*  
Vicki Collie; Dr Usman Ghani; Dr Awolkhier NurHussien; Andrew Gadie; Dr Christian Holmes (University Hospital Coventry Warwickshire NHS Trust)
30. *Management of poor-grade aneurysmal subarachnoid haemorrhage: a retrospective cohort study on the optimal timing of intervention*  
A Gittins; A Gilani; T Veenith (University Hospitals Birmingham NHS Trust)
31. *Cell Senescence and Cerebral Small Vessel Disease in the Brains of Older People, Aged 80+*

Emma Norton; Leslie Bridges; Lawrence Kenyon; Margaret Esiri; Dorothy Bennett; Atticus Hainsworth (University of London; St George's University Hospitals NHS Foundation Trust; Thomas Jefferson University Hospital; Oxford-Radcliffe NHS Trust; Oxford University)

32. *Anxiety and depression after aneurysmal subarachnoid haemorrhage*

Lydia Isted; Louise Dulhanty; Hiren C Patel (University of Manchester; Salford Royal NHS Foundation Trust)

33. *A systematic review and meta-analysis of risk factors for pregnancy-associated stroke*

Rebecca Green; Nikola Sprigg; Laila Tata (University of Nottingham)

34. *Scottish stroke patient rare variant discovery in the COL4A1 and COL4A2 genes*

Graham Hamilton; Rustam Al-Shahi Salman; Ian Deary; Tom Van Agtmael (University of Glasgow; University of Edinburgh)