

Philippa Tyrrell, MD, FRCP
Honorary
Division of Cardiovascular Sciences (L5)



Employment

Emeritus Professor

Honorary
Division of Cardiovascular Sciences (L5)
The University of Manchester
1 Dec 2017 → present

Chair in Stroke Medicine

Academic (Teaching & Research) Clinical Professor
Division of Cardiovascular Sciences (L5)
The University of Manchester
1 Aug 2016 → 30 Nov 2017

Medical Vice Chair

The Stroke Association
London, United Kingdom
31 Aug 2014 → present

Research output

Six month reviews for stroke survivors: A study of the modified Greater Manchester Stroke Assessment Tool (GMSAT) with care home residents

Patchwood, E., Woodward-Nutt, K., Rothwell, K., Perry, C., Tyrrell, P. & Bowen, A., 2020, In : Clinical Rehabilitation. DOI: 10.1177/0269215520912515

Evaluation of reconfigurations of acute stroke services in different regions of England and lessons for implementation: a mixed-methods study

Fulop, N. J., Ramsay, A. IG., Hunter, R. M., McKeivitt, C., Perry, C., Turner, S. J., Boaden, R., Papachristou, I., Rudd, A. G., Tyrrell, P. J., Wolfe, C. DA. & Morris, S., Feb 2019, In : Health Services and Delivery Research. 7, 7, p. 1-250 250 p. DOI: 10.3310/hsdr07070

SCIL-STROKE (Subcutaneous Interleukin-1 Receptor Antagonist in Ischemic Stroke): A Randomized Controlled Phase 2 Trial

Smith, C. J., Hulme, S., Vail, A., Heal, C., Parry-Jones, A. R., Scarth, S., Hopkins, K., Hoadley, M., Allan, S. M., Rothwell, N. J., Hopkins, S. J. & Tyrrell, P. J., May 2018, In : Stroke. 49, 5, p. 1210-1216 7 p. DOI: 10.1161/STROKEAHA.118.020750

Bespoke versus off-the-shelf ankle-foot orthosis for people with stroke: randomized controlled trial

Tyson, S., Vail, A., Thomas, N. A., Woodward-Nutt, K., Plant, S. & Tyrrell, P., Mar 2018, In : Clinical Rehabilitation. 32, 3, p. 367-376 10 p. DOI: 10.1177/0269215517728764 10.1177/0269215517728764

The Nottingham Fatigue after Stroke (NotFAST) study: Factors associated with severity of fatigue in stroke patients without depression

Drummond, A., Hawkins, L., Sprigg, N., Ward, N. S., Mistri, A., Tyrrell, P., Mead, G. E., Worthington, E. & Lincoln, N. B., 1 Oct 2017, In : Clinical Rehabilitation. 31, 10, p. 1406-1415 10 p. DOI: 10.1177/0269215517695857

The association between delays in screening for and assessing dysphagia after acute stroke, and the risk of stroke-associated pneumonia

Bray, B. D., Smith, C. J., Cloud, G. C., Enderby, P., James, M., Paley, L., Tyrrell, P., Wolfe, C. D. A., Rudd, A. G. & SSNAP Collaboration, 1 Jan 2017, In : Journal of Neurology, Neurosurgery and Psychiatry. 88, p. 25-30 6 p.
DOI: 10.1136/jnnp-2016-313356

Reduction of inflammation after administration of interleukin-1 receptor antagonist following aneurysmal subarachnoid hemorrhage: results of the Subcutaneous Interleukin-1Ra in SAH (SCIL-SAH) study

Galea, J., Ogungbenro, K., Hulme, S., Patel, H., Scarth, S., Hoadley, M., Illingworth, K., McMahon, C. J., Tzerakis, N., King, A. T., Vail, A., Hopkins, S. J., Rothwell, N. & Tyrrell, P., 2017, In : Journal of neurosurgery. 128, 2, p. 515-523 9 p.
DOI: 10.3171/2016.9.JNS16615

Weekly variation in health-care quality by day and time of admission: a nationwide, registry-based, prospective cohort study of acute stroke care

Bray, B. D., . Cloud, G. C., James, M. A., Hemingway, H., Paley, L., Stewart, K., Tyrrell, P., Wolfe, C. D. A. & Rudd, A. G., 9 Jul 2016, In : The Lancet. 388, 10040, p. 170-177 8 p.
DOI: 10.1016/S0140-6736(16)30443-3

Explaining outcomes in major system change: a qualitative study of implementing centralised acute stroke services in two large metropolitan regions in England

Fulop, N. J., Ramsay, A. I. G., Perry, C., Boaden, R. J., McKeivitt, C., Rudd, A. G., Turner, S., Tyrrell, P. J., Wolfe, C. D. A. & Morris, S., 3 Jun 2016, In : Implementation Science. 11, 1, p. 80 80.
DOI: 10.1186/s13012-016-0445-z

Clinical risk scores for predicting stroke-associated pneumonia: A systematic review: A systematic review

Kishore, A., Vail, A., Vray, B. D., Chamorro, A., Di Napoli, M., Kalra, L., Langhorne, P., Montaner, J., Roffe, C., Rudd, A. G., Tyrrell, P., Beek, D. V. D., Woodhead, M., Meisel, A. & Smith, C., 1 Jun 2016, In : European Stroke Journal. 1, 2, p. 76-84 9 p.
DOI: 10.1177/2396987316651759

Development and feasibility testing of an oral hygiene intervention for stroke unit care

Smith, C. J., Horne, M., McCracken, G., Young, D., Clements, I., Hulme, S., Ardron, C., Hamdy, S., Vail, A., Walls, A. & Tyrrell, P., 16 May 2016, In : Gerodontology. DOI: 10.1111/ger.12232

Interleukin-1 in Stroke. From Bench to Bedside

Sobowale, O., Parry-Jones, A., Smith, C.J., Tyrrell, P., Rothwell, N. & Allan, S., 3 Mar 2016, In : Stroke. 47, 8, p. 2160-7 8 p.
DOI: 10.1161/STROKEAHA.115.010001

Care-limiting decisions in acute stroke and association with survival: analyses of UK national quality register data

Parry-Jones, A., Paley, L., Bray, B. D., Hoffman, A. M., James, M., Cloud, G. C., Tyrrell, P. & Rudd, A. G., 6 Jan 2016, In : International Journal of Stroke. DOI: 10.1177/1747493015620806

Lessons for major system change: centralization of stroke services in two metropolitan areas of England

Turner, S., Ramsay, A., Perry, C., Boaden, R., McKeivitt, C., Morris, S., Pursani, N., Rudd, A., Tyrrell, P., Wolfe, C. & Fulop, N., Jan 2016, In : Journal of health services research & policy. DOI: 10.1177/1355819615626189

Study design and population pharmacokinetic analysis of a phase II dose-ranging study of interleukin-1 receptor antagonist.

Ogungbenro, K., Hulme, S., Rothwell, N., Hopkins, S., Tyrrell, P. & Galea, J., 18 Oct 2015, In : Journal of pharmacokinetics and pharmacodynamics. 43, p. 1-12 11 p.
DOI: 10.1007/s10928-015-9450-0

Effects of Centralizing Acute Stroke Services on Stroke Care Provision in Two Large Metropolitan Areas in England
Ramsay, A. I. G., Morris, S., Hoffman, A., Hunter, R. M., Boaden, R., McKeivitt, C., Perry, C., Pursani, N., Rudd, A. G., Turner, S. J., Tyrrell, P. J., Wolfe, C. D. A. & Fulop, N. J., Jul 2015, In : *Stroke*. 46, 8, p. 2244-2251 8 p.
DOI: 10.1161/STROKEAHA.115.009723

Post-stroke pain

Tyrrell, P. & Jones, A., Jul 2015, *Management of post-stroke complications*. Bhalla, A. & Birns, J. (eds.). Springer Nature
DOI: 10.1007/978-3-319-17855-4_13

Impact of specialist neurovascular care in subarachnoid haemorrhage

Khan, A., Dulhanty, L., Vail, A., Tyrrell, P., Galea, J. & Patel, H., Jun 2015, In : *Clinical Neurology and Neurosurgery*. 133, p. 55-60 5 p.
DOI: doi:10.1016/j.clineuro.2015.03.006

Patient-directed therapy during in-patient stroke rehabilitation: stroke survivors' views of feasibility and acceptability

Horne, M., Thomas, N., McCabe, C., Selles, R., Vail, A., Tyrrell, P. & Tyson, S., 28 Apr 2015, In : *Disability and Rehabilitation*. 37, 25, p. 2344-2349 5 p.
DOI: 10.3109/09638288.2015.1024341

Phase II anti-inflammatory and immune-modulating drugs for acute ischaemic stroke

Smith, C. J., Denes, A., Tyrrell, P. & Napoli, M. D., Mar 2015, In : *Expert Opinion on Investigational Drugs*. 24, 5, p. 623-643 20 p.
DOI: 10.1517/13543784.2015.1020110

Can a Novel Clinical Risk Score Improve Pneumonia Prediction in Acute Stroke Care? A UK Multicenter Cohort Study

Smith, C. J., Bray, B. D., Hoffman, A., Meisel, A., Heuschmann, P. U., Wolfe, C. D. A., Tyrrell, P. J., Rudd, A. G. & The Intercollegiate Stroke Working Party Group, 15 Jan 2015, In : *American Heart Association. Journal. Cardiovascular and Cerebrovascular Disease*. 4, 1, e001307.
DOI: 10.1161/JAHA.114.001307

Phase II Pragmatic Randomized Controlled Trial of Patient-Led Therapies (Mirror Therapy and Lower-Limb Exercises) During Inpatient Stroke Rehabilitation

Tyson, S., Wilkinson, J., Thomas, N., Selles, R., McCabe, C., Tyrrell, P. & Vail, A., 9 Jan 2015, In : *Neurorehabilitation and Neural Repair*. 29, 9, p. 818-826 8 p.
DOI: 10.1177/1545968314565513

How Is Pneumonia Diagnosed in Clinical Stroke Research? A Systematic Review and Meta-Analysis

Kishore, A., Vail, A., Chamorro, A., Garau, J., Hopkins, S., Di Napoli, M., Kalra, L., Langhorne, P., Montaner, J., Roffe, C., Rudd, A. G., Tyrrell, P., van de Beek, D., Woodhead, M., Meisel, A. & Smith, C.J., 2015, In : *Stroke*. 46, 5, p. 1202-1209 7 p.
DOI: 10.1161/STROKEAHA.114.007843

Recruiting to in-patient based rehabilitation trials: lessons learnt from a randomised controlled trial of patient-led therapy during stroke rehabilitation

Tyson, S.F., Thomas, N., Vail, A. & Tyrrell, P., 2015, In : *Trials*. 16, 75, p. 75 75.
DOI: 10.1186/s13063-015-0588-2

What is rehabilitation potential? Development of a theoretical model through the accounts of healthcare professionals working in stroke rehabilitation services

Burton, C. R., Horne, M., Woodward-Nutt, K., Bowen, A. & Tyrrell, P., 2015, In : *Disability and Rehabilitation*. 37, 21, p. 1955-1960 6 p.
DOI: 10.3109/09638288.2014.991454 10.3109/09638288.2014.991454

The study protocol of: 'initiating end of life care in Stroke: clinical decision making around prognosis'

Burton, C., Payne, S., Turner, M., Bucknall, T., Rycroft-Malone, J., Tyrrell, P.J., Horne, M., Ntambwe, L., Tyson, S., Mitchell, H., Williams, S. & Elghenzai, S., Dec 2014, In : *BMC palliative care*. 13, 55
DOI: 10.1186/1472-684X-13-55

Derivation and External Validation of a Case Mix Model for the Standardized Reporting of 30-Day Stroke Mortality Rates
Bray, BD., Campbell, J., Cloud, GC., Hoffman, A., James, M., Tyrrell, P.J., Wolfe, CD., Rudd, AG. & Intercollegiate Stroke Working Party Group, Nov 2014, In : Stroke. 45, 11, p. 3374-3380 6 p.
DOI: 10.1161/STROKEAHA.114.006451

Authors' reply to Hill and Rudd

Morris, S., Hunter, R. M., Ramsay, A. I. G., Boaden, R., McKeivitt, C., Perry, C., Pursani, N., Rudd, A. G., Turner, S. J., Tyrrell, P. J., Wolfe, C. D. A. & Fulop, N. J., 24 Sep 2014, In : BMJ (Online). 349, g5717.
DOI: 10.1136/bmj.g5717

Impact of centralising acute stroke services in English metropolitan areas on mortality and length of hospital stay: difference-in-differences analysis

Morris, S., Hunter, R. M., Ramsay, A. I. G., Boaden, R., McKeivitt, C., Perry, C., Pursani, N., Rudd, A. G., Schwamm, L. H., Turner, S. J., Tyrrell, P. J., Wolfe, C. D. A. & Fulop, N. J., 5 Aug 2014, In : Bmj. 349, p. g4757 g4757.
DOI: 10.1136/bmj.g4757

Associations between stroke mortality and weekend working by stroke specialist physicians and registered nurses: prospective multicentre cohort study.

Bray, BD., Ayis, S., Campbell, J., Cloud, GC., James, M., Hoffman, A., Tyrrell, P.J., Wolfe, CD. & Rudd, AG., Aug 2014, In : P L o S Medicine (Print). 11, 8
DOI: 10.1371/journal.pmed.1001705

Incidence, predictors and clinical characteristics of orolingual angio-oedema complicating thrombolysis with tissue plasminogen activator for ischaemic stroke

Hurford, R., Rezvani, S., Kreimeir, M., Herbert, A., Vail, A., Parry-Jones, A. R., Douglass, C., Molloy, J., Alachkar, H., Tyrrell, P. J., Tyrrell, P. & Smith, C. J., 12 Jul 2014, In : Journal of Neurology, Neurosurgery and Psychiatry.
DOI: 10.1136/jnnp-2014-308097

Pitfalls in microdialysis methodology: an invitro analysis of temperature, pressure and catheter use.

Galea, GP., Tyrrell, P.J., Patel, HC., Vail, A., King, AT. & Hopkins, SJ., Mar 2014, In : Physiological Measurement. 35, 3, p. 21-28 7 p.

A simple tool to identify elderly patients with a surgically important acute subdural haematoma

Evans, J. A., Bailey, M., Vail, A., Tyrrell, P. J., Parry-Jones, A. R. & Patel, H. C., 25 Feb 2014, In : Injury.
DOI: 10.1016/j.injury.2014.07.009

The effect of out of hours presentation with acute stroke on processes of care and outcomes: Analysis of data from the Stroke Improvement National Audit Programme (SINAP)

Campbell, J. T. P., Bray, B. D., Hoffman, A. M., Kavanagh, S. J., Rudd, A. G. & Tyrrell, P. J., 12 Feb 2014, In : PLoS ONE. 9, 2, e87946.
DOI: 10.1371/journal.pone.0087946

Can a quality improvement collaborative make stroke care better? A cluster randomised trial

Power, M., Tyrrell, P.J., Rudd, A., Tully, M. P., Dalton, D., Marshall, M., Chappell, I., Corgie, D., Goldmann, D., Wenn, D., Dixon-Woods, M. & Parry, G., Feb 2014, In : Implementation Science. 9, 1, p. 40-48 8 p.
DOI: 10.1186/1748-5908-9-40

Detection of atrial fibrillation after ischemic stroke or transient ischemic attack: A systematic review and meta-analysis

Kishore, A., Vail, A., Majid, A., Dawson, J., Lees, K. R., Tyrrell, P. J. & Smith, C. J., Feb 2014, In : Stroke. 45, 2, p. 520-526 6 p.
DOI: 10.1161/STROKEAHA.113.003433

The effect of intravenous interleukin-1 receptor antagonist on inflammatory mediators in cerebrospinal fluid after subarachnoid haemorrhage: a phase II randomised controlled trial.

Singh, N., Hopkins, S. J., Hulme, S., Galea, J. P., Hoadley, M., Vail, A., Hutchinson, P. J., Grainger, S., Rothwell, N. J., King, A. T. & Tyrrell, P. J., 3 Jan 2014, In : Journal of Neuroinflammation. 11, 1, p. 2-8 7 p., 1.

DOI: 10.1186/1742-2094-11-1 10.1186/1742-2094-11-1

Characterizing the mechanisms of central and peripheral forms of neurostimulation in chronic dysphagic stroke patients

Michou, E., Mistry, S., Jefferson, S., Tyrrell, P. J. & Hamdy, S., Jan 2014, In : Brain Stimulation. 7, 1, p. 66-73 7 p.

DOI: 10.1016/j.brs.2013.09.005 10.1016/j.brs.2013.09.005

Organisation, practice and experiences of mouth hygiene in stroke unit care: A mixed-methods study

Horne, M., Mccracken, G., Walls, A., Tyrrell, P. J. & Smith, C. J., 2014, In : Journal of Clinical Nursing.

DOI: 10.1111/jocn.12665

Bigger, Faster? Associations between hospital thrombolysis volume and speed of thrombolysis administration in acute ischaemic stroke

Bray, B., Campbell, J., Geoffrey, C., Hoffman, A., Tyrrell, P., Wolfe, C. & Rudd, A., 13 Sep 2013, In : Stroke.

Accuracy and clinical usefulness of intracerebral hemorrhage grading scores: A direct comparison in a UK population

Parry-Jones, A. R., Abid, K. A., Di Napoli, M., Smith, C. J., Vail, A., Patel, H. C., King, A., Tyrrell, P. J. & Tyrrell, P., Jul 2013, In : Stroke. 44, 7, p. 1840-1845 5 p.

DOI: 10.1161/STROKEAHA.113.001009 10.1161/strokeaha.113.001009

Associations between the organisation of stroke services, process of care, and mortality in England: Prospective cohort study

Bray, B. D., Ayis, S., Campbell, J., Hoffman, A., Roughton, M., Tyrrell, P. J., Wolfe, C. D. A. & Rudd, A. G., 20 Jun 2013, In : Bmj. 346, 7912, f2827.

DOI: 10.1136/bmj.f2827

Feasibility of assessing the needs of stroke patients after 6 months using the GM-SAT

Rothwell, K., Boaden, R., Bamford, D. & Tyrrell, P.J., Mar 2013, In : Clinical Rehabilitation. 27, 3, p. 264-271

Feasibility of assessing the needs of stroke patients after six months using the GM-SAT

Rothwell, K., Boaden, R., Bamford, D. & Tyrrell, P., 2013, In : Clinical Rehabilitation. 2013, 3, p. 264-71

Improving care for people after stroke: how change was actively facilitated

Bamford, D., Rothwell, K., Tyrrell, P. & Boaden, R., 2013, In : Journal of Health Organization and Management. 27, 5, p. 548-60 12 p.

DOI: 10.1108/JHOM-05-2011-0053

Which factors influence decisions to transfer and treat patients with acute intracerebral haemorrhage and which are associated with prognosis? A retrospective cohort study

Abid, K.A., Vail, A., Patel, H.C., King, A.T., Tyrrell, P.J. & Parry-Jones, A.R., 2013, In : Bmj.

Cerebrospinal fluid and plasma cytokines after subarachnoid haemorrhage: CSF interleukin-6 may be an early marker of infection

Hopkins, S. J., McMahon, C. J., Singh, N., Galea, J., Hoadley, M., Scarth, S., Patel, H., Vail, A., Hulme, S., Rothwell, N. J., King, A. & Tyrrell, P. J., 23 Nov 2012, In : Journal of Neuroinflammation. 9, 255.

DOI: 10.1186/1742-2094-9-255

1. Stroke thrombolysis in England: an age stratified analysis of practice and outcome

Bray, B. D., Campbell, J., Hoffman, A., Tyrrell, P.J., Wolfe, C.D.A. & Rudd, A.G., 22 Nov 2012, In : Age and Ageing.

Rapid diagnosis of TIA reduces risk of subsequent stroke

Tyrrell, P., Martin, S. & Rudd, A., Sep 2012, In : Practitioner. 256, 1754, p. 17-20 3 p.

Effectiveness of enhanced communication therapy in the first four months after stroke for aphasia and dysarthria: A randomised controlled trial

Bowen, A., Hesketh, A., Patchick, E., Young, A., Davies, L., Vail, A., Long, A. F., Watkins, C., Wilkinson, M., Pearl, G., Ralph, M. A. L. & Tyrrell, P., 4 Aug 2012, In : Bmj. 345, 7868, e4407.

DOI: 10.1136/bmj.e4407

Interleukin-1 receptor antagonist reverses stroke-associated peripheral immune suppression

Smith, C. J., Emsley, H. C., Udeh, C. T., Vail, A., Hoadley, M. E., Rothwell, N. J., Tyrrell, P. J. & Hopkins, S. J., Jun 2012, In : Cytokine. 58, 3, p. 384-389 5 p.
DOI: 10.1016/j.cyto.2012.02.016

The benefits and harms of intravenous thrombolysis with recombinant tissue plasminogen activator within 6hr of acute ischaemic stroke (the third international stroke trial (IST-3): a randomised controlled trial

Baigent, C., Chadwick, D., Tyrrell, P., Lowe, G., Sandercock, P., Lindley, R., Wardlaw, J., Dennis, M., Cohen, G. & Innes, K., 23 May 2012, In : The Lancet. 379, p. 2352-2362

4. Short term effects of ambient particulates and gaseous pollutants on the incidence of transient ischaemic attack and minor stroke: a case crossover study

Bedada, GB., Smith, CJ., Tyrrell, PJ., Hirst, AA. & Agius, R., 2012, In : Environmental Health. 11, p. 77

Clinical effectiveness, cost effectiveness and service users' perceptions of early, intensively resourced communication therapy following a stroke, a randomised controlled trial (The ACT NoW Study)

Bowen, A., Hesketh, A., Patchick, E., Young, A., Davies, L., Vail, A., Long, A., Watkins, C., Wilkinson, M., Pearl, G., Lambon Ralph, M. A. & Tyrrell, P., 2012, In : Health Technology Assessment.

Feasibility of assessing the needs of stroke patients after six months using the GM-SAT

Rothwell, K., Boaden, R., Bamford, D. & Tyrrell, P.J., 2012, In : Clin Rehab .

Imaging young adults with intracerebral haemorrhage

Kirkman, MA., Tyrrell, PJ., King, AT. & Patel, HC., 2012, In : Clinical Neurology and Neurosurgery.

The timing, extent, progression and regression of deep vein thrombosis in immobile stroke patients: Observational data from the CLOTS multicenter randomized trials

Tyrrell, P., Dennis, M., Mordi, N., Graham, C. & Sandercock, P., Nov 2011, In : Journal of Thrombosis and Haemostasis. 9, 11, p. 2193-2200 7 p.
DOI: 10.1111/j.1538-7836.2011.04486.x

Regulation of interleukin-1 in acute brain injury

Brough, D., Tyrrell, P. J. & Allan, S. M., Oct 2011, In : Trends in pharmacological sciences. 32, 10, p. 617-622 5 p.
DOI: 10.1016/j.tips.2011.06.002

The importance of angiographic and venographic cranial imaging in intracerebral hemorrhage occurring during pregnancy and the puerperium

Tyrrell, P., Kirkman, M. A., Tyrrell, P. J., King, A. & Patel, H. C., Sep 2011, In : European Journal of Neurology. 18, 9, p. e112-e113
DOI: 10.1111/j.1468-1331.2011.03463.x

Brain inflammation is induced by co-morbidities and risk factors for stroke

Drake, C., Boutin, H., Jones, M. S., Denes, A., McColl, B. W., Selvarajah, J. R., Hulme, S., Georgiou, R. F., Hinz, R., Gerhard, A., Vail, A., Prenant, C., Julyan, P., Maroy, R., Brown, G., Smigova, A., Herholz, K., Kassiou, M., Crossman, D., Francis, S. & 6 others, Proctor, S. D., Russell, J. C., Hopkins, S. J., Tyrrell, P. J., Rothwell, N. J. & Allan, S. M., Aug 2011, In : Brain, Behavior, and Immunity. 25, 6, p. 1113-1122 9 p.
DOI: 10.1016/j.bbi.2011.02.008

Difficulties with recruiting into neurosurgical clinical trials: The Surgical Trial in IntraCerebral Haemorrhage II as an example

Tyrrell, P., Kirkman, M. A., Greenwood, N., Singh, N., Tyrrell, P. J., King, A. & Patel, H. C., Apr 2011, In : British journal of neurosurgery. 25, 2, p. 231-234 3 p.
DOI: 10.3109/02688697.2010.539718

Intravenous anakinra can achieve experimentally effective concentrations in the central nervous system within a therapeutic time window: Results of a dose-ranging study

Galea, J., Ogungbenro, K., Hulme, S., Greenhalgh, A., Aarons, L., Scarth, S., Hutchinson, P., Grainger, S., King, A., Hopkins, S. J., Rothwell, N. & Tyrrell, P., Feb 2011, In : Journal of Cerebral Blood Flow and Metabolism. 31, 2, p. 439-447 8 p.

DOI: 10.1038/jcbfm.2010.103

Effects of antihypertensive treatment after acute stroke in the Continue Or Stop post-Stroke Antihypertensives Collaborative Study (COSSACS): A prospective, randomised, open, blinded-endpoint trial

Tyrrell, P., Robinson, T. G., Potter, J. F., Ford, G. A., Bulpitt, C. J., Chernova, J., Jagger, C., James, M. A., Knight, J., Markus, H. S., Mistri, A. K. & Poulter, N. R., Aug 2010, In : The Lancet Neurology. 9, 8, p. 767-775 8 p.

DOI: 10.1016/S1474-4422(10)70163-0

Adjunctive Functional Pharyngeal Electrical Stimulation Reverses Swallowing Disability After Brain Lesions

Jayasekeran, V., Singh, S., Tyrrell, P., Michou, E., Jefferson, S., Mistry, S., Gamble, E., Rothwell, J., Thompson, D. & Hamdy, S., May 2010, In : Gastroenterology. 138, 5, p. 1737-e2

DOI: 10.1053/j.gastro.2010.01.052

Rapid brain penetration of interleukin-1 receptor antagonist in rat cerebral ischaemia: Pharmacokinetics, distribution, protection

Greenhalgh, A. D., Galea, J., Dénes, A., Tyrrell, P. J. & Rothwell, N. J., May 2010, In : British Journal of Pharmacology. 160, 1, p. 153-159 6 p.

DOI: 10.1111/j.1476-5381.2010.00684.x

Adjunctive functional pharyngeal electrical stimulation reverses swallowing disorders following brain lesions

Jayaskeran, V., Singh, S., Tyrrell, P., Michou, E., Jefferson, S., Mistry, S., Gamble, E., Rothwell, J., Thompson, D. & Hamdy, S., Apr 2010, In : Gastroenterology. 138, p. 1737-46

Current and Emerging Treatments for Stroke: relationships with infection

Smith, C. J. & Tyrrell, P. J., Apr 2010, In : Infect Disord Drug Targets. 10, p. 112-121

Diagnosis and initial management of transient ischaemic attack

Tyrrell, P., Tyrrell, P. J., Swain, S. & Rudd, A., Apr 2010, In : Clinical Medicine, Journal of the Royal College of Physicians of London. 10, 2, p. 164-167 3 p.

Current and emerging treatments for acute stroke: Relationships with infection

Smith, C. J. & Tyrrell, P., 2010, In : Infectious Disorders - Drug Targets. 10, 2, p. 112-121 9 p.

DOI: 10.2174/187152610790963492

Diagnosis and Management of Transient Ischaemic Attack

Tyrrell, P., Swain, S. & Rudd, A., 2010, In : Clin Med. 10, p. 164-167

Inflammation and risk of recurrent vascular events after TIA and minor stroke: the NORTHSTAR study

Selvarajah, J., Smith, C., Hulme, S., Georgiou, R., Jury, F., Payton, A., Illingworth, K., Ollier, W. E. R., Vail, A., Rothwell, N., Hopkins, S. & Tyrrell, P., Oct 2009, In : EUROPEAN JOURNAL OF NEUROLOGY. 16, p. 18-18 1 p.

Predicting aspiration after hemispheric stroke from timing measures of oropharyngeal bolus flow and laryngeal closure

Power, M. L., Hamdy, S., Goulermas, J. Y., Tyrrell, P. J., Turnbull, I. & Thompson, D. G., Sep 2009, In : Dysphagia. 24, 3, p. 257-264 7 p.

DOI: 10.1007/s00455-008-9198-4

NICE guideline on acute stroke and TIA: Commentary

Tyrrell, P., Swain, S. & Rudd, A., May 2009, In : Heart. 95, 10, p. 843-845 2 p.

DOI: 10.1136/hrt.2009.167684

Initial evaluation of causes of stroke in frail older adults

Tyrrell, P., Swain, S. & Rudd, A., Apr 2009, In : *Geriatrics and Aging*. 12, 3, p. 146-151 5 p.

Rationale and design of a randomized, double-blind, parallel-group study of terutroban 30 mg/day versus aspirin 100 mg/day in stroke patients: The prevention of cerebrovascular and cardiovascular events of ischemic origin with terutroban in patients with a history of ischemic stroke or transient ischemic attack (PERFORM) study

Tyrrell, P., Boussier, M. G., Amarenco, P., Chamorro, A., Fisher, M., Ford, I., Fox, K., Hennerici, M. G., Mattle, H. P. & Rothwell, P. M., Apr 2009, In : *Cerebrovascular Diseases*. 27, 5, p. 509-518 9 p.
DOI: 10.1159/000212671

Classification of minor stroke: Intra- and inter-observer reliability

Tyrrell, P., Selvarajah, J. R., Glaves, M., Wainwright, J., Jha, A., Vail, A. & Tyrrell, P. J., Mar 2009, In : *Cerebrovascular Diseases*. 27, 3, p. 209-214 5 p.
DOI: 10.1159/000196817

Effectiveness of thigh-length graduated compression stockings to reduce the risk of deep vein thrombosis after stroke (CLOTS trial 1): a multicentre, randomised controlled trial

Tyrrell, P., 2009, In : *The Lancet*. 373, 9679, p. 1958-1965 7 p.
DOI: 10.1016/S0140-6736(09)60941-7

Potential surrogate markers of cerebral microvascular angiopathy in asymptomatic subjects at risk of stroke

Selvarajah, J., Scott, M., Stivaros, S., Hulme, S., Georgiou, R., Rothwell, N., Tyrrell, P. & Jackson, A., 2009, In : *European Radiology*. 19, 4, p. 1011-1018 7 p.
DOI: 10.1007/s00330-008-1202-8

Predicting aspiration after hemispheric stroke using discriminant analysis.

Power, ML., Hamdy, S., Tyrrell, PJ., Thompson, DG., John, G. & Ian, T., 2009, In : *Dysphagia*.

Rapid assessment vital in stroke and TIA

Rudd, A. & Tyrrell, P., Nov 2008, In : *Practitioner*. 252, 1712, p. 32-35 3 p.

Inflammation in acute ischemic stroke and its relevance to stroke critical care

Emsley, H. C. A., Smith, C. J., Tyrrell, P. J. & Hopkins, S. J., Aug 2008, In : *Neurocritical Care*. 9, 1, p. 125-138 13 p.
DOI: 10.1007/s12028-007-9035-x

Pharmacokinetic modelling of interleukin-1 receptor antagonist in plasma and cerebrospinal fluid of patients following subarachnoid haemorrhage

Gueorguieva, I., Clark, S. R., McMahon, C. J., Scarth, S., Rothwell, N. J., Tyrrell, P. J., Hopkins, S. J., Rowland, M. & Tyrrell, P., Mar 2008, In : *British Journal of Clinical Pharmacology*. 65, 3, p. 317-325 8 p.
DOI: 10.1111/j.1365-2125.2007.03026.x

Interleukin-1 receptor antagonist penetrates human brain at experimentally therapeutic concentrations

Clark, S. R., McMahon, C. J., Gueorguieva, I., Rowland, M., Scarth, S., Georgiou, R., Tyrrell, P. J., Hopkins, S. J. & Rothwell, N. J., Feb 2008, In : *Journal of Cerebral Blood Flow and Metabolism*. 28, 2, p. 387-394 7 p.
DOI: 10.1038/sj.jcbfm.9600537

Prognosis in patients with transient ischaemic attack (TIA) and minor stroke attending TIA services in the North West of England: The NORTHSTAR Study

Selvarajah, J. R., Smith, C. J., Hulme, S., Georgiou, R. F., Vail, A. & Tyrrell, P. J., Jan 2008, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 79, 1, p. 38-43 5 p.
DOI: 10.1136/jnnp.2007.129163

Acute neurodegeneration: cerebral ischaemia and stroke

Smith, CJ., Ross, J., Rothwell, N. & Tyrrell, P., 2008, *Mechanisms of Disease*. Second edition ed. New York, US: Cambridge University Press, p. 191-209

Diagnosis and initial management of acute stroke and transient ischaemic attack: summary of NICE guidance.

Swain, S., Turner, C., Tyrrell, P. & Rudd, A., 2008, In : B M J . 337, 7664, p. 291-293 2 p.

DOI: 10.1136/bmj.a786

The use of restricted access solid phase extraction for [C-11](R)-PK11195 radiometabolite measurements

McMahon, A. W., Pelton, N. S., Barnett, E. C., Brown, G. & Tyrrell, P. J., 2008, In : NeuroImage. 41, Supplement 2, p. T95 1 p.

DOI: 10.1016/j.neuroimage.2008.04.064

A survey of the practice of stroke doctors in developing transient ischaemic attack services in the UK

Tyrrell, P., Beech, P., Greenhalgh, J., Thornton, M. & Tyrrell, P., Jun 2007, In : Journal of Evaluation in Clinical Practice. 13, 3, p. 395-399 4 p.

DOI: 10.1111/j.1365-2753.2006.00714.x

Inflammation and ischaemic stroke

Muir, K. W., Tyrrell, P., Sattar, N. & Warburton, E., Jun 2007, In : Current Opinion in Neurology. 20, 3, p. 334-342 8 p.

DOI: 10.1097/WCO.0b013e32813ba151

Deglutitive laryngeal closure in stroke patients

Power, M. L., Hamdy, S., Singh, S., Tyrrell, P. J., Turnbull, I. & Thompson, D. G., Feb 2007, In : Journal of Neurology, Neurosurgery and Psychiatry. 78, 2, p. 141-146 5 p.

DOI: 10.1136/jnnp.2006.101857

Evaluation of a service development to implement the top three process indicators for quality stroke care

Power, M. L., Cross, S. P., Roberts, S. & Tyrrell, P. J., Feb 2007, In : Journal of Evaluation in Clinical Practice. 13, 1, p. 90-94 4 p.

DOI: 10.1111/j.1365-2753.2006.00665.x

Clinical outcome following acute ischaemic stroke relates to both activation and autoregulatory inhibition of cytokine production

Emsley, H. C. A., Smith, C. J., Gavin, C. M., Georgiou, R. F., Vail, A., Barberan, E. M., Illingworth, K., Scarth, S., Wickramasinghe, V., Hoadley, M. E., Rothwell, N. J., Tyrrell, P. J. & Hopkins, S. J., 2007, In : BMC Neurology. 7, 5.

DOI: 10.1186/1471-2377-7-5

Variability of the systemic acute phase response after ischemic stroke

Smith, C. J., Emsley, H. C. A., Vail, A., Georgiou, R. F., Rothwell, N. J., Tyrrell, P. J. & Hopkins, S. J., 21 Dec 2006, In : JOURNAL OF THE NEUROLOGICAL SCIENCES. 251, 1-2, p. 77-81 4 p.

DOI: 10.1016/j.jns.2006.09.011

A dose response trial of pharyngeal stimulation for the treatment of dysphagia post stroke

Singh, S., Power, M., Tyrrell, P., Thompson, DG. & Hamdy, S., Apr 2006, In : Gut. 55, p. A21-A22

Evaluating oral stimulation as a treatment for dysphagia after stroke

Power, M. L., Fraser, C. H., Hobson, A., Singh, S., Tyrrell, P., Nicholson, D. A., Turnbull, I., Thompson, D. G. & Hamdy, S., Jan 2006, In : Dysphagia. 21, 1, p. 49-55 6 p.

DOI: 10.1007/s00455-005-9009-0

Interobserver and intraobserver reliability of transcranial Doppler middle cerebral artery velocity measurements in healthy volunteers

McMahon, C., Horsfall, D., Clark, S., McDermott, P., Selverajah, J., Vail, A., King, A. & Tyrrell, P., 15 Nov 2005, In : JOURNAL OF THE NEUROLOGICAL SCIENCES. 238, p. S417-S418

DOI: 10.1016/S0022-510X(05)81610-7

Penetration of interleukin-1 receptor antagonist into the cerebrospinal fluid of patients with subarachnoid haemorrhage
Clark, S., McMahon, C., Scarth, S., Hopkins, S., Tyrrell, P., Rothwell, N. & King, A., 15 Nov 2005, In : JOURNAL OF THE NEUROLOGICAL SCIENCES. 238, p. S478-S478
DOI: 10.1016/S0022-510X(05)81844-1

A randomised phase II study of interleukin-1 receptor antagonist in acute stroke patients
Emsley, H. C. A., Smith, C. J., Georgiou, R. F., Vail, A., Hopkins, S. J., Rothwell, N. J. & Tyrrell, P. J., Oct 2005, In : Journal of Neurology, Neurosurgery and Psychiatry. 76, 10, p. 1366-1372 6 p.
DOI: 10.1136/jnnp.2004.054882

Interleukin-6 and acute ischaemic stroke (multiple letters)
Emsley, H. C. A., Smith, C. J., Georgiou, R. F., Vail, A., Barberan, E. M., Rothwell, N. J., Tyrrell, P. J., Hopkins, S. J., Waje-Andreassen, U., Kråkenes, J., Ulvestad, E., Thomassen, L., Myhr, K. M., Aarseth, J. & Vedeler, C. A., Oct 2005, In : Acta Neurologica Scandinavica. 112, 4, p. 273-275 2 p.
DOI: 10.1111/j.1600-0404.2005.00479.x

Managing stroke and transient ischaemic attacks
Tyrrell, P. & Tyrrell, P. J., Sep 2005, In : Practitioner. 249, 1674, p. 595-602 7 p.

Interleukin-1 and neuronal injury
Allan, S. M., Tyrrell, P. J. & Rothwell, N. J., Aug 2005, In : Nature Reviews Immunology. 5, 8, p. 629-640 11 p.
DOI: 10.1038/nri1664

Developing functional outcome measures for unilateral neglect: A pilot study
Bowen, A., Gardener, E., Cross, S., Tyrrell, P. & Graham, J., May 2005, In : Neuropsychological Rehabilitation. 15, 2, p. 97-113 16 p.
DOI: 10.1080/09602010443000010

The long-term impact of pharyngeal electrical stimulation in the rehabilitation of dysphagia post stroke: A randomised controlled trial assessing dose response
Singh, S., Power, T., Tyrrell, P., Thompson, D., Hamdy, S. & Power, M., Apr 2005, In : Gastroenterology. 128, 4, p. A376-A376

Routine oral nutritional supplementation for stroke patients in hospital (FOOD): A multicentre randomised controlled trial
Tyrrell, P. & Dennis, M., 26 Feb 2005, In : The Lancet. 365, 9461, p. 755-763 8 p.

Correlation of systemic inflammatory response with infarct volume in acute ischemic stroke patients [2] (multiple letters)
Emsley, H. C. A., Smith, C. J., Georgiou, R. F., Vail, A., Tyrrell, P. J., Barberan, E. M., Rothwell, N. J., Hopkins, S. J., Audebert, H. & Haberl, R. L., Feb 2005, In : Stroke. 36, 2, p. 228-229 1 p.

Effect of timing and method of enteral tube feeding for dysphagic stroke patients (FOOD): a multi-centre randomised controlled trial.
Tyrrell, P. J., 2005, In : Lancet. 365

Evaluation of a service development to implement the top three process indicators for quality stroke care.
Tyrrell, P. J., 2005, In : Journal of Evaluation in Clinical Practice.

Awareness of Dysphagia by Patients Following Stroke Predicts Swallowing Performance
Parker, C., Power, M., Hamdy, S., Bowen, A., Tyrrell, P. & Thompson, D., Dec 2004, In : Dysphagia. 19, 1, p. 28-35 7 p.
DOI: 10.1007/s00455-003-0032-8

The long-term impact of deglutitive aspiration in acute stroke: A 7 year prospective study
Power, M., Hamdy, S., Singh, S., Tyrrell, P. & Thompson, D., Apr 2004, In : Gastroenterology. 126, 4, p. A654-A654

Peak plasma interleukin-6 and other peripheral markers of inflammation in the first week of ischaemic stroke correlate with brain infarct volume, stroke severity and long-term outcome

Smith, C. J., Emsley, H. C. A., Gavin, C. M., Georgiou, R. F., Vail, A., Barberan, E. M., del Zoppo, G. J., Hallenbeck, J. M., Rothwell, N. J., Hopkins, S. J., Tyrrell, P. J. & Tyrrell, P., 15 Jan 2004, In : *BMC Neurology*. 4, 2.
DOI: 10.1186/1471-2377-4-2

Changes in pharyngeal corticobulbar excitability and swallowing behavior after oral stimulation

Power, M., Fraser, C., Hobson, A., Rothwell, J. C., Mistry, S., Nicholson, D. A., Thompson, D. G., Hamdy, S. & Tyrrell, P., Jan 2004, In : *AJP: Gastrointestinal and Liver Physiology*. 286, 1, p. G45-G50
DOI: 10.1152/ajpgi.00114.2003

Reliability of a semi-automated technique of cerebral infarct volume measurement with CT

Gavin, C. M., Smith, C. J., Emsley, H. C. A., Hughes, D. G., Turnbull, I. W., Vail, A. & Tyrrell, P. J., 2004, In : *Cerebrovascular Diseases*. 18, 3, p. 220-226 6 p.
DOI: 10.1159/000079957

An early and sustained peripheral inflammatory response in acute ischaemic stroke: Relationships with infection and atherosclerosis

Emsley, H. C. A., Smith, C. J., Gavin, C. M., Georgiou, R. F., Vail, A., Barberan, E. M., Hallenbeck, J. M., Del Zoppo, G. J., Rothwell, N. J., Tyrrell, P. J., Hopkins, S. J. & Tyrrell, P., Jun 2003, In : *Journal of neuroimmunology*. 139, 1-2, p. 93-101 8 p.
DOI: 10.1016/S0165-5728(03)00134-6

Inflammation and infection in clinical stroke

Tyrrell, P., Emsley, H. C. A. & Tyrrell, P. J., 1 Dec 2002, In : *Journal of Cerebral Blood Flow and Metabolism*. 22, 12, p. 1399-1419 20 p.
DOI: 10.1097/00004647-200212000-00001

Poststroke shoulder pain: A prospective study of the association and risk factors in 152 patients from a consecutive cohort of 205 patients presenting with stroke

Gamble, G. E., Barberan, E., Laasch, H. U., Bowsher, D., Tyrrell, P. J. & Jones, A. K. P., 2002, In : *European Journal of Pain*. 6, 6, p. 467-474 7 p.
DOI: 10.1016/S1090-3801(02)00055-1

Review: Inflammation and Infection in Clinical Stroke

Emsley, H. C. A. & Tyrrell, P. J., 2002, In : *J Cereb Blood Flow and Metabolism*. 22

Dementia with lewy bodies studied with positron emission tomography

Cordery, R. J., Tyrrell, P. J., Lantos, P. L. & Rossor, M. N., 2001, In : *Archives of Neurology*. 58, 3, p. 505-508 3 p.
DOI: 10.1001/archneur.58.3.505

The Oxfordshire Community Stroke Project classification in the early hours of ischemic stroke and relation to infarct site and size on cranial computed tomography

Smith, C. J., Emsley, H. C. A., Libetta, C. M., Hughes, D. G., Drennan, R. F., Vail, A. & Tyrrell, P. J., 2001, In : *Journal of Stroke and Cerebrovascular Diseases*. 10, 5, p. 205-209 4 p.
DOI: 10.1053/jscd.2001.29825

Post stroke shoulder pain: More common than previously realized

Gamble, G. E., Barberan, E., Bowsher, D., Tyrrell, P. J. & Jones, A., 2000, In : *European Journal of Pain*. 4, 3, p. 313-315 2 p.
DOI: 10.1053/eujp.2000.0192

Recovery after Dysphagic Stroke - Does sensory-induced reorganisation of human swallowing motor cortex have part to play?

Fraser, C. H., Hamdy, S., Tyrrell, P. J., Rothwell, J. M. & Thompson, D. G., 2000, *British Society of Gastroenterology*.

The unreliability of clinical measures of muscle tone: Implications for stroke therapy

Pomeroy, V. M., Dean, D., Sykes, L., Faragher, E. B., Yates, M., Tyrrell, P. J., Moss, S. & Tallis, R. C., 2000, In : Age and Ageing. 29, 3, p. 229-233 4 p.

Thrombolysis: How the NHS can learn from the European Experience.

Tyrrell, P.J., 2000, In : Geriatric medicine.

Does patient insight into swallowing dysfunction following stroke help predict outcome?

Tyrrell, P.J., Parker, C., Power, M.L., Hamdy, S., Bowen, A. & Thompson, D.G., 1999, *Dysphagia Research Society Eighth Annual Scientific Meeting, Vermont, USA.*

Progressive frontal gait disturbance with atypical Alzheimer's disease and corticobasal degeneration.

Rossor, M.N., Tyrrell, P.J., Warrington, E.K., Thompson, P.D., Marsden, C.D. & Lantos, P., 1999, In : Journal of Neurology, Neurosurgery and Psychiatry . 67

Activities

Projects

Ankle foot Orthoses (AFO) for people with stroke- 'AFOOT'

Tyson, S., Tyrrell, P. & Vail, A.

1/09/12 → 31/12/14

Development and Feasibility of a Stroke Friendly Oral Health Promoting (STOP) Toolkit to Improve Oral Self-Care Practices After Discharge from Hospital Stroke Services.

Smith, C., Bowen, A., O'Malley, L. & Tyrrell, P.

4/09/17 → 3/09/19

Does Subcutaneous Interleukin-1 Receptor Antagonist Reduce Inflammation After Ischaemic Stroke?

Tyrrell, P., Allan, S., Hopkins, S., Parry-Jones, A., Rothwell, N., Smith, C. & Vail, A.

1/07/13 → 31/03/17

Innovations in major system reconfiguration.

Boaden, R. & Tyrrell, P.

1/09/11 → 30/06/17

Long-Term Support for People with Stroke: What and How?

Tyrrell, P., Boaden, R., Bowen, A., Cotterill, S., Horne, M. & Vail, A.

1/04/12 → 31/03/13

The North West evaluation of speech and language therapy for people with post-stroke aphasia dysarthria

Bowen, A., Davies, L., Hesketh, A., Lambon Ralph, M., Sage, K., Tyrrell, P., Vail, A. & Young, A.

1/10/04 → 31/10/10

Impacts

Overview

I am Professor of Stroke Medicine and an Honorary Consultant in Stroke Medicine at the Comprehensive Stroke Centre at Salford Royal Foundation Trust. My research interests include translational studies of immunomodulation after acute ischaemic stroke and subarachnoid haemorrhage, studies in stroke rehabilitation and implementation studies in stroke. I was Clinical Lead for the NICE Acute Stroke and TIA Guideline (2006-8) and contributed to the 2016 National Clinical Guideline for Stroke. Until 2013 I was Clinical Lead for Stroke in Greater Manchester and led the Manchester stroke service redesign from 2007. I am Associate Director of the Royal College of Physicians Stroke programme with responsibility for the National Stroke Audit, SSNAP. I am Vice Chair (Medical) and Trustee of the Stroke Association and Chair of its Research Awards Panel.