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Research & Innovation Bulletin

NHS
Northern Care Alliance
NHS Group

Research news from the Northern Care Alliance

19 June 2019

The Northern Care Alliance NHS Group serves a population of over 1 million people with five local hospitals, 2,000 beds, specialist, acute and community services, and over 17,000 staff from Salford Royal NHS Foundation Trust and The Pennine Acute Hospitals NHS Trust. It has a rich history of pioneering health care and is now building one of the most innovative environments in the UK for conducting patient-focused health research and translating it into patient benefit.



Research ambassadors hit the road

Thank you to everyone who got involved in International Clinical Trials Day across the group. It was great to see so many of our staff sharing the message that research improves outcomes for our patients with stalls, stands and of course a tour of the wards with Robbie the Research Roadster. We do have materials available for any research teams who want to promote their work around our care organisations at other times of the year - please contact Communications Manager Claire Mooney if you're planning an event and would like some help.

News





International awards success for CRFs

Our expert research staff have won global recognition in the prestigious Pharma Times International Clinical Researcher of the Year awards.

The NCA's record-breaking year for clinical studies in partnership with pharmaceutical and medical technology firms was reflected in the way its three Clinical Research Facilities dominated the shortlist for the awards' Clinical Site of the Year category.

The Royal Oldham, Fairfield General and Salford Royal were all chosen for the five-strong shortlist, with the team from The Royal Oldham being awarded the silver place.

Dr Hilary Jones from Good Morning Britain presented the award to Senior Research Nurses Karen Hallett and Lyndsay Scarratt, and the Research & Innovation team's Sponsorship, Compliance and Laboratory Lead Dr Rob Oliver. [Read more.](#)



Joint first on diabetes study

Congratulations to Jo Shaw, Senior Research Nurse at North Manchester General Hospital, who achieved a joint UK first by recruiting a patient to the SURE UK study.

This real-world study is investigating the effectiveness of a once weekly injection of semaglutide for people with type 2 diabetes. It aims to recruit 217 patients and will run for two years in the UK. Professor Cuong Dang is the Principal Investigator for North Manchester.



Gastroenterology team lead way again

Well done to Fairfield General's gastroenterology research team who have randomised the first UK patient to LUCENT 2, an ulcerative colitis study. This trial is evaluating the safety and efficacy of Mirikizumab in people with moderately to severely active ulcerative colitis. Professor Jimmy Limdi is Chief Investigator in the UK for the study, which aims to recruit 1,044 patients worldwide. The same team - Denise McSorland, Julie Melville, Patricia Jacob, Ani Bhandare, Ben Crooks, Bijili John, Lauren McKenzie, Ruth Tonge and Asad Javed - also randomised the first and second UK patients to the LUCENT 1 study earlier this year.



Renal Leadership Award for Phil

Congratulations to Professor Phil Kalra, Renal Consultant and Principal Clinical Research Lead at Salford Royal, who is the 2019 winner of the Jane Macdonald Leadership Award given by the British Renal Society (BRS) for his leadership in UK renal research. As part of the award, he lectured on 'Renal research in the UK: stimulating participation, facilitating careers' at the UK Kidney Week conference, organised by the BRS and the Renal Association in Brighton on 4 June. The award is named after BRS Past President and former Assistant Director of Nursing, Jane Macdonald, who is now Associate Director of the Transaction Programme at Salford Royal.



\$6M award to tackle cognitive decline

Stroke specialists are to begin a \$6M programme aimed at preventing cognitive decline after stroke.

Problems with memory, language, thinking and judgment affect up to a third of people who've had a stroke within five years and this can have a major impact on their quality of life.

Professor Stuart Allan from The University of Manchester is the European co-ordinator for the Stroke-IMPACT (Stroke – Immune Mediated Pathways and Cognitive Trajectories) network, with Professor Craig Smith leading the clinical studies in Manchester and at Salford Royal, where he is a stroke consultant. In North America, Professor Marion Buckwalter from Stanford University will lead the programme. [Read more.](#)



Stroke grant will help spread innovation

A life-saving stroke project pioneered in Salford is to spread to the rest of England.

The Stroke Association has given Salford Royal Consultant Neurologist Dr Adrian Parry-Jones its Margaret Giffen Reader Award to develop new anti-inflammatory treatments for intracerebral haemorrhage (ICH), a type of stroke caused by

bleeding on the brain, and to improve the delivery of standard care for ICH patients.

Dr Parry Jones, who is a Senior Lecturer at The University of Manchester, has been awarded a £254,000 grant over five years from March 2020. [Read more.](#)



Pain study hits the headlines

A [smart phone application](#) connected to goggles which flash light at a special frequency to tune patients' brains is being tested as a new treatment for chronic pain.

The work led by Professor Anthony Jones from The University of Manchester and the Human Pain Research Group, based at Salford Royal, was featured on the BBC and in the [i newspaper](#) last week.

The researchers were looking for volunteers with chronic pain and healthy volunteers to take part in the study and were inundated with potential participants thanks to the media coverage.



Death of Professor Sally Hollis

It is with great sadness that we have learnt of the death of Professor Sally Hollis. Sally was Salford Royal's first statistician from 1989 to 1995, rapidly establishing many successful and long-lasting research collaborations. During her time here, she contributed to the setup of a national audit of the quality of diabetes care, which is still continuing as one of the largest annual clinical audits in the world. She was appointed Honorary Professor in Biostatistics at The University of Manchester in 2015 and maintained long-standing collaborations with trauma, rheumatology, renal and other research groups.



Helen becomes GCP facilitator

Congratulations to Research and Innovation Support Officer Helen Moffitt-Adams, who has become an NIHR GCP Facilitator.

Helen has completed her in-depth training following a successful application to the national NIHR GCP Facilitator Development Programme and delivered her first session at Salford Royal earlier this month with two CRN colleagues. She will now teach more Introduction to GCP and GCP Refresher workshops across the Northern Care Alliance.



What do our patients think of us?

It's vital that our patients have a good experience of taking part in research. If they don't, we want to hear more so we can learn from their feedback and improve what we do.

That's why we are conducting our own patient survey this spring and summer. We are asking patients to answer a short set of questions anonymously, although we want staff to identify their site and specialty on the form. Please do your best to encourage as many patients as possible to respond.

Electronic copies of the survey are available from [Claire Mooney](#) - completed surveys should also be returned to Claire at Summerfield House, Salford.



Research Rockettes brave the mud

They've got their pink tutus, they've got their trainers and they're ready for the mud! The team from the Royal Oldham's Clinical Research Facility are getting together to raise money for Cancer Research by taking part in [Pretty Muddy](#) on 13 July in Heaton Park. They will tackle plenty of mud and water as they do battle with the 5K run and obstacle course.

Staff from each of the divisions are joining the fun, along with friends and family to make up a 20-strong team aged from 15 to 60 plus. The team, called the Research Rockettes, say all their lives have been touched by cancer so they want to help out

and raise money for research. You can support them via [this link](#).



Cakes pile up pounds for Alzheimer's

Thank you and well done to everyone who supported our research teams' fundraising for the Alzheimer's Society last week. Staff at each of our four care organisations put on cupcake sales to raise money for more research into this devastating condition which has touched so many of our lives.

We are still adding up the totals at some sites but know we have raised over £500.



BMJ Best Practice

Did you know the Library and Knowledge Service provides access to BMJ Best Practice, a point of care tool that draws on the latest evidence-based research to offer step-by-step guidance on diagnosis, prognosis, treatment and management of conditions. It covers over 30 specialities and can be accessed anywhere through their webpage or mobile app - all you need is your NHS Athens log-in details. If you want more information on BMJ Best Practice or need help setting up an Athens account, email the [library team](#).



New deaf experts by experience group

It is estimated that there are 11 million people in the UK who are deaf or hard of hearing. Within this group of deaf people are sign language users. British Sign Language (BSL) is the preferred language for over 87,000 Deaf people in the UK.

The NIHR Manchester Biomedical Research Centre and Clinical Research Facility patient, public involvement and engagement team aim to improve diversity and inclusion of those involved in health research. You can read more about how they developed research's first Deaf Experts by Experience group (DEEG) in the UK, for BSL users [here](#).



Support for innovation and improvement

Have you identified a service delivery pathway at your hospital that could be improved? Submit your ideas to [Innovation Factor®](#).

The online innovation service allows you to share your idea with NHS innovation experts and seek their support in taking your idea forward. Help includes feedback on viability, market research and identifying potential funding opportunities. [Click here](#) to learn more.

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Research stars of the month



Bury & Rochdale

Estates manager Jim Shaw has been pivotal in project managing the refurbishment of the Clinical Research Facility at Fairfield General, which has helped to provide a safe environment for patients and professional working spaces for staff. Work on the clinical room is essential to the development of the CRF as it now has the capacity to reconstitute trial medication, enabling patients to access novel treatments. The team say Jim is always extremely helpful and polite and is always happy to help.



North Manchester

Clinical Trials Assistant Jacinta Guerin works really hard to make sure colleagues and patients can take part in research. Not only does she prepare clinics and assist nurses, she also does lots of work to help doctors and pharmacy. Nothing is ever too much trouble for her and she goes out of her way to support colleagues, especially helping those who are new to the team settle into their roles. Her colleagues say her kindness and efficiency make a real difference to their working lives.



Oldham

The Royal Oldham's Research Stars of the Month are the hard-working and helpful staff in Lucy Pugh outpatients.

It is such a busy department but they are extremely accommodating when the research team have patients in clinic and they are dedicated to making sure all the patients get seen on time.

They run the clinics very smoothly and have adapted to our research staff's presence without any issues. Their helpful and friendly attitude makes it a pleasure to work with them.



Salford

Always smiling, always helpful - that's Jenny Crabtree, Clinical Trials Administrator at the Barnes Clinical Research Facility. She gives everyone a warm welcome and shows great customer service skills, creating a good first impression for all who visit the unit. Patients and their families often comment on her helpful attitude and she always stays calm and focused no matter how busy things get. Jenny assists staff with room bookings, technical issues, ordering, courier problems and computer skills - she's a great multi-tasker.

Send your nominations

Please keep sending your nominations for the research star of the month, with the name of the person or team and a short paragraph explaining why their work should be recognised to [Vikki O'Loughlin](#) and [Jess Zadik](#).

You can also nominate your team or a colleague for these awards:

- [Max Perrutz Science Writing Award](#) - closes 26 June
- [National Acute Pain Symposium Acute Pain Awards](#) - closes 1 September

Congratulations

- Congratulations to Salford Royal's research team working on the Perioperative Quality Improvement Programme (PQIP), who have now recruited their 800th patient. During the time the study has been open, they have enrolled 27 patients on average every

month. More about the programme [here](#).

Governance



Local Information Pack launched

A UK Local Information Pack has been introduced to support the set-up of NHS/HSC research in the UK. Researchers working with NHS/HSC organisations across England, Northern Ireland, Scotland and Wales will benefit from a consistent package to support study set-up and delivery across the UK.

More information is available in the [Local Information Pack section of IRAS Help](#).

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Engagement



Help a colleague get started in research

If you have a colleague who would like to get involved in research but is hesitant about taking the first steps, please encourage them to come along to our information evening at Fairfield Education Centre on Tuesday 25 June (4.30-8pm).

It will be an opportunity to hear more about the support on offer and to network with colleagues. There's also a buffet supper and the event has been approved by the Federation of the Royal Colleges of Physicians of the United Kingdom for 2 category 1 (external) CPD credits. With research now a key priority for both the Northern Care Alliance and CQC inspections, there's never been a better time to get started on work that can make a huge difference to our patients' lives.

The programme includes

- Prof Steve Woby - Overview of Research & Innovation at Northern Care Alliance: What we have achieved and what more we can achieve
- Prof Jimmy Limdi - Principal Investigator for national and international clinical studies: Benefits for our patients, our organisation and the clinician
- Dr Deborah Antcliff - Clinical lectureship: The perspective of an Allied Healthcare Professional
- Dr Andy Ustianowski - Chief Investigator for clinical studies: What does it involve and how do you become one?
- Dr Jason Raw- How to build a research team within your organisation
- Prof Neil Reeves - Musculoskeletal biomechanics
- Mr George Antoniou - Evidence synthesis in clinical research: How to conduct your own systematic review and meta-analysis

- Maria Thornton - Research Design Service: Support available to develop your research application
- Support available from the National Institute for Health Research (NIHR) and Clinical Research Network (CRN) Greater Manchester

[Register here.](#)

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Funding



NIHR calls

Current NIHR opportunities include:

- [Efficacy and Mechanism Evaluation Programme - epigenetics](#) (closes 28 August)
- [Global Health Policy and Systems Research Programme](#) (various dates)
- [Health technology Assessment Programme - researcher-led primary research](#) (closes 11 September)

Details of all NIHR-funded awards and researchers can now be found together at www.fundingawards.nihr.ac.uk. This website provides information about NIHR funding awards for research, career development, infrastructure and global health projects. Visit the site for application abstracts, plain English summaries, funding values and links to published articles.

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Training



GCP dates for 2019

The dates for Good Clinical Practice (GCP) and GCP refresher courses for 2019 are now available on [our website](#). If your certification is due to expire, please use [this link](#) to confirm your place.

NHS ethics applications

Most research in the NHS requires NHS Ethical Approval, provided through the national Health Research Authority. A webinar organised by the NIHR Manchester Biomedical Research Centre will give you an overview of the key stages and main considerations you will need to take into account when navigating the complex area of making an ethics application. The speaker is Nailah Brown from The University of Manchester Masters in Experimental Research course and Project Manager, Hearing Health and Respiratory themes, NIHR Manchester

Biomedical Research Centre.

The webinar is on Thursday 20 June, 12-12.30pm and you can register to take part [online](#) or [attend in person](#) at the Nowgen Centre, Grafton Street, Manchester.

Sponsorship advice for trials and studies

The [NIHR Manchester Biomedical Research Centre's](#) Rapid Translational Incubator signposts researchers to appropriate support when setting up and running trials and studies in Greater Manchester. It runs networking events and webinars to discuss solutions to common problems in a supportive peer network.

A webinar on Thursday 11 July, 12-12.30pm will provide an overview of sponsorship processes for trials and studies in Greater Manchester, with speakers Lynne Webster, Head of Research Office, Manchester University NHS Foundation Trust and Mohammed Zubair, Research Governance, Ethics and Integrity Team, Directorate of Research and Business Engagement, The University of Manchester. [Register here.](#)

Health risk prediction: Methodology and applications

Staff and students engaged in or supporting P4 medicine research affiliated with the Manchester Biomedical Research Centre, The University of Manchester and/or Health Innovation Manchester are invited to this workshop to learn more about the use of statistical and machine learning methods to predict health risks and outcomes.

Speakers include Professor Niels Peek, Professor Gareth Evans, Dr Glen Martin and Dr Matthew Sperrin. It's on 18 July, 9am-1pm at the Nowgen Centre, Manchester. [Register here.](#)

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Events



[Cardiovascular, metabolic and kidney disease: crosscutting science and best practice.](#) Cancer Research UK's Principal Clinical Research Lead Professor Phil Kalra will chair a session and lead a discussion of the way forward at this conference to stimulate discussion and help set the foundation for establishing strategic partnerships to ultimately improve the health of patients with multi-morbidity. It's at the Royal College of Physicians of London on 1 July.

[Phase 1: Where science becomes medicine.](#) The Manchester Cancer Research Centre and the Experimental Cancer Medicine Centres network will host this three-day conference in Manchester city centre from 14-16 July. Keynote speakers include Lillian Siu (Princess Margaret Hospital, Toronto) and Skip Burris (Sarah Cannon Research Institute, Nashville).

[International Congress on Radiation Research.](#) This 16th international conference will facilitate the

Manchester Central.

[UK Stroke Research Workshop](#). The programme includes updates on the latest stroke research including sessions on brain haemorrhage, psychological and cognitive consequences of stroke, stroke prevention, blood brain barrier and small vessel stroke, stroke recovery, and the microbiome and stroke, as well as a special session targeted at trainees on navigating the research pathway. It's on 11 and 12 September at Chancellors Hotel and Conference Centre, Manchester.

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Vacancies



- [R&I Financial Management Assistant](#), based Salford (closes 19 June)
- [Clinical Research Fellow - colorectal surgery](#), based Salford (closes 24 June)
- [Specialist Pain Management Nurse](#), based Oldham (closes 24 June)
- [Senior Research Nurse - rheumatology](#), based Salford (closes 27 June)
- [Senior Clinical Fellow - trauma and orthopaedics](#), based Salford (closes 27 June)
- [Consultant Clinical Neuropsychologist](#), based Rochdale (closes 30 June)
- [ERAS+ Project Data Collector](#), based Salford (closes 30 June)
- [Advanced Practitioner, Major Trauma](#), based Salford (closes 30 June)
- [Clinical Psychologist](#), based Salford (closes 30 June)
- [Senior Research Nurse](#), based Bury - two roles, one in gastroenterology, one in Parkinson's disease (closes 1 July)
- [Lead Nurse - integrated community services](#), based Rochdale (closes 1 July)
- [Senior Research Nurse - core team](#), based Salford (closes 7 July)
- [Consultant Neurologist](#), based Salford (closes 12 July)

Please visit the [NHS Jobs](#) website for all internal or external vacancies.

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Publications



- Femke de Haes, N Bullen, George Antoniou, Neil Smart, Stavros Antoniou: [Systematic review and meta-analysis of incisional hernia post-reversal of ileostomy](#) (Hernia).
- Connor Rogerson, Edward Britton, Sarah Withey, Neil Hanley, Yeng Ang, Andrew Sharrocks: [Identification of a primitive intestinal transcription factor network shared between esophageal adenocarcinoma and its precancerous precursor state](#) (Genome Research).
- Shahin Hajibandeh, Shahab Hajibandeh, Diwakar, Sarma, Jamie East, Shafquat Zaman, Rajnish Mankotia, Christopher Thompson, Andrew Torrance, Rajeev Peravali: [Meta-analysis of temporary loop ileostomy closure during or after adjuvant chemotherapy following rectal cancer resection: The dilemma remains](#) (International Journal of Colorectal Disease).
- Simon Rothwell, Hector Chinoy, Janine Lamb, Frederick Miller, Lisa Rider, Lucy Wedderburn, Neil McHugh, John Bowes, William Ollier. Robert Cooper, Ingrid

- Lundberg, et al: [Focused HLA analysis in Caucasians with myositis identifies significant associations with autoantibody subgroups](#) (Annals of the Rheumatic Diseases).
- Carolyn Young, John Ealing, Christopher McDermott, Tim Williams, Ammar Al-Chalabi, Tahir Majeed, Alan Tennant, et al: [The relationships between symptoms, disability, perceived health and quality of life in amyotrophic lateral sclerosis/motor neuron disease](#) (Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration).
 - Elizabeth Seston, Darren Ashcroft, Elizabeth Lamerton, Lindsay Harper, Richard Keers: [Evaluating the implementation and impact of a pharmacy technician-supported medicines administration service designed to reduce omitted doses in hospitals: A qualitative study](#) (BMC Health Services Research).
 - Sarah Knowles, Sarah Cotterill, Nia Coupe, Michael Spence: [Referral of patients to diabetes prevention programmes from community campaigns and general practices: Mixed-method evaluation using the RE-AIM framework and Normalisation Process Theory](#) (BMC Health Services Research).
 - Amit Kishore, Adam Jeans, Javier Garau, Alejandro Bustamante, Lalit Kalra, Peter Langhorne, Angel Chamorro, Christine Roffe, Mark Woodhead, Joan Montaner, Andreas Meisel, Craig Smith, et al: [Antibiotic treatment for pneumonia complicating stroke: Recommendations from the pneumonia in stroke consensus \(PISCES\) group](#) (European Stroke Journal).
 - Lisa Brunton, Ruth Boaden, Sarah Knowles, Christopher Ashton, Adrian Parry-Jones: [Pre-hospital stroke recognition in a UK centralised stroke system: A qualitative evaluation of current practice](#) (British Paramedic Journal).
 - Ravi Vijapurapu, Rebecca Kozor, Derralynn Hughes, Peter Woolfson, Ana Jovanovic, Patrick Deegan, Rosemary Rusk, Gemma Figtree, Richard Steeds, et al: [A randomised controlled trial evaluating arrhythmia burden, risk of sudden cardiac death and stroke in patients with Fabry disease: The role of implantable loop recorders \(RaILRoAD\) compared with current standard practice](#) (BMC Trials).
 - George Antoniou, Stavros Antoniou, Francesco Torella: [The GRADE approach to evaluating the evidence on very urgent intervention for symptomatic carotid disease](#) (European Journal of Vascular and Endovascular Surgery).
 - Kristina Lee, Nicholas Ward, Babatunde Oremule, Navin Mani: [Optimal wound closure techniques for thyroid and parathyroid surgery: A systematic review of cosmetic outcomes](#) (Clinical Otolaryngology).
 - Ivancarmine Gambardella, George Antoniou, Mario Gaudino, Marcus D'Ayala, Leonard Girardi, Francesco Torella: [State of the art and meta-analysis of secondary open aortic procedure after abdominal endovascular aortic repair](#) (Journal of Vascular Surgery).
 - Pavan Padaki, Richard Graham, George Markose: [Modified Zimmer finger splint revisited](#) (British Journal of Oral and Maxillofacial Surgery).
 - Robert Hurford, Andy Vail, Calvin Heal, Wendy Ziai, Jesse Dawson, Santosh Murthy, Xia Wang, Craig Anderson, Daniel Hanley, Adrian Parry-Jones, on behalf of the VISTA-ICH collaborators: [Oedema extension distance in intracerebral haemorrhage: Association with baseline characteristics and long-term outcome](#) (European Stroke Journal).
 - Abigail Langton, Helen Graham, Christopher Griffiths, Rachel Watson: [Ageing significantly impacts the biomechanical function and structural composition of skin](#) (Experimental Dermatology).
 - Susan Simpson, Joshua Storrar, James Ritchie, Khalid Alshawy, Leonard Ebah,

- Smeeta Sinha, Peter Elton, Denise Darby, Dimitrios Poulidakos: [Point-of-care creatinine to assist clinical decision making in suspected sepsis in the community](#) (Point of Care: The Journal of Near-Patient Testing & Technology).
- Liam Ennis, Joanne Ablett, Michael Taylor, Simon Lal: [The active problem solving of patients dependent on home parenteral nutrition: A qualitative analysis](#) (Clinical Nutrition ESPEN).
 - Kat Parmar, Jennifer Law, Ben Carter, Jonathan Hewitt, Jemma Boyle, Patrick Casey, Ishaan Maitra, Ian Farrell, Lyndsay Pearce, Susan Moug: [Frailty in older patients undergoing emergency laparotomy – Results from the UK Observational Emergency Laparotomy and Frailty \(ELF\) Study](#) (Annals of Surgery).
 - Darren Green, Diana Vassallo, Kelly Handley, Natalie Ives, Keith Wheatley, Constantina Chrysochou, Janet Hegarty, Julian Wright, Jon Moss, Rajan Patel, Chris Deighan, John Webster, Peter Rowe, Sue Carr, Jenny Cross, Jamie O’Driscoll, Raj Sharma, Patrick Mark, Philip Kalra: [Cardiac structure and function after revascularization versus medical therapy for renal artery stenosis: The ASTRAL heart echocardiographic sub-study](#) (BMC Nephrology).
 - Yi Shiau Ng, Mika Martikainen, Gráinne Gorman, Alasdair Blain, Enrico Bugiardini, Apphia Bunting, Imelda Hughes, Stefan Spinty, Mark Roberts, Robert McFarland, et al: [Pathogenic variants in MT-ATP6: A UK-based mitochondrial disease cohort study](#) (Annals of Neurology).
 - John Reynolds, Tracy Briggs, Gillian Rice, Sathya Darmalinggam, Vincent Bondet, Ellen Bruce, Mumtaz Khan, Sahena Haque, Hector Chinoy, Ariane Herrick, Eoghan McCarthy, Leo Zeef, Andrew Hayes, Darragh Duffy, Ben Parker, Ian Bruce: [Type 1 interferon in patients with systemic autoimmune rheumatic disease is associated with haematological abnormalities and specific autoantibody profiles](#) (Arthritis Research and Therapy).
 - Linda Clare, Julia Teale, Gill Toms, Aleksandra Kudlicka, Isobel Evans, Sharon Abrahams, Laura Goldstein, John Hindle, Aileen Ho, Marjan Jahanshahi, Dawn Langdon, Robin Morris, Julie Snowden, Rhys Davies, Ivana Markova, Monica Busse, Jo Thompson-Coon: [Cognitive rehabilitation, self-management, psychotherapeutic and caregiver support interventions in progressive neurodegenerative conditions: A scoping review](#) (Neurorehabilitation).
 - Daniel Hanley, Richard Thompson, Michael Rosenblum, Gayane Yenokyan, Karen Lane, Nichol McBee, Steven Mayo, Hiren Patel, Issam Awad, et al: [Efficacy and safety of minimally invasive surgery with thrombolysis in intracerebral haemorrhage evacuation \(MISTIE III\): a randomised, controlled, open-label, blinded endpoint phase 3 trial](#) (Lancet).
 - Ciaran Walsh, Christopher Battersby, Nigel Suggett, Dominic Slade: [Lessons from cadaveric dissection in AWR](#) (Hernia).
 - Katie Young, Alexander Aquilina, Timothy Chesser, Matthew Costa, Shehan Hettiaratchy, Michael Kelly, Christopher Moran, Ian Pallister, Maralyn Woodford: [Open tibial fractures in major trauma centres: A national prospective cohort study of current practice](#) (Injury - International Journal of the Care of the Injured).
 - Jane Halliday, Daniel Holsgrove: [Pooling and patient satisfaction in non-instrumented lumbar decompressive surgery](#) (British Journal of Neurosurgery).
 - Stephen Gaduzo, Vincent McGovern, June Roberts, Jane Scullion, Dave Singh: [When to use single-inhaler triple therapy in COPD: a practical approach for primary care health care](#)

[professionals](#) (International Journal of Chronic Obstructive Pulmonary Disease).

Journal articles are available through the [Library Service](#), details and links to e-journals are available through the [online library catalogue](#).

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How to submit an article

The Research and Innovation bulletin is published on the third Wednesday of each month.

Please submit articles to [Claire Mooney](#) by noon on the preceding Monday.

An archive of previous editions is available online at www.NCAresearch.org.uk

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