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Research & Innovation Bulletin

NHS
Northern Care Alliance
NHS Group

Research news from the Northern Care Alliance

15 May 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.



Deliver excellence in research and education programmes

Research is a key priority for Trust

The Northern Care Alliance has published its priorities for all the Care Organisations for 2019-20, with excellence in research and education identified as a key aim for the first time.

The Trust says that we will improve care and outcomes for our patients through research by continuing to grow our research portfolio and increasing the number of people taking part in our studies.

Copies of the priorities posters for each site are available on the intranet.

News





UK first and target reached

Well done to Dr Durga Viswesvaraiah who randomised the first patient in the UK to the BE RADIANT study, which is testing whether an investigational medication called bimekizumab is safe and effective for treating moderate to severe chronic plaque psoriasis. The patient was randomised at Salford Royal on 5 February and the dermatopharmacology team has already reached its recruitment target of five.

Professor Richard Warren is Salford Royal's Principal Investigator for the study. Sponsor Parexel aims to recruit 700 patients worldwide.



Leading way for cardiovascular study

Congratulations to Research Nurse Joanne Shaw who recruited the first UK patient to a major global study looking at a treatment to prevent further cardiovascular problems in patients with established cardiovascular disease who are overweight or obese. Joanne is working with the North Manchester General diabetes research team, pharmacy and pre-operative assessment unit on the industry-sponsored study which aims to recruit 17,500 participants from 41 countries around the world. Professor Cuong Dang is the Principal Investigator for North Manchester.



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.

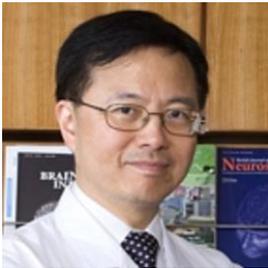
Electronic copies of the survey are available from [Claire Mooney](#) - completed surveys should also be returned to Claire at Summerfield House, Salford.



NIHR backs imaging analysis study

A major new research project aims to help patients through earlier diagnosis of a rare, disabling condition. Systemic sclerosis (also known as scleroderma) is a chronic disease of the immune system, blood vessels and connective tissue, which affects around 10,000 people in the UK.

Early diagnosis and starting treatment promptly can help prevent painful finger ulcers, possible finger/toe amputation and life-threatening damage to internal organs. The NIHR has awarded more than £560,000 to fund work by Salford Royal's Professor Ariane Herrick and Professor Chris Taylor from The University of Manchester on automated analysis of images of small blood vessels in the fingers for diagnosing systemic sclerosis. [Read more](#)



Fresh look at neurosurgical training

Professor Wai Poon will give a talk on **Neurosurgical Training: the Asian Perspective** at Salford Royal on 30 May.

He is Professor and Chief of the Division of Neurosurgery, Department of Surgery, Prince of Wales Hospital, the Chinese University of Hong Kong. He trained in Glasgow with Bryan Jennett, Graham Teasdale and David Mendelow and undertook research with Jim McCulloch. His clinical interests include pituitary surgery and surgical management of Parkinson's disease, epilepsy surgery and the spinal cord. Research interests include head injury, hyponatraemia, telemedicine, neurorehabilitation, neuro-oncology and cell therapy for intracerebral haemorrhage.

The talk takes place in Humphrey Booth Lecture Theatre, Mayo Building, from 4.15-5pm and all are welcome.



Journal Clubs: Support available

Do you run a Journal Club or are you thinking of setting one up? Then why not enlist the help of the NCA's librarians who can assist with training on critically appraising articles. Staff from across the Trust's libraries can give training and advice and are also happy to attend the journal club and use their skills to critique medical papers.

Email evidence@pat.nhs.uk for more information.



Learning from AKI study

CLAHRC GM recently completed work in Bury CCG, looking at the primary care management of patients who have had an episode of hospital care complicated by acute kidney injury (AKI). This work has important learning for Pennine Acute and other Trusts.

The discharge summaries are key for downstream management of this patient population. The evaluation showed that the information provided on discharge summaries was generally good, but there were inconsistencies between trusts, and AKI was not always prominent and could be missed. Annotation of information on discharge summaries was noted to improve over the course of the study period, with greater diagnosis, medication information and blood result details. However, some information on discharge summaries could be interpreted as conflicting.

A summary of the project can be found [here](#), and further information [here](#).



Prestigious appointment for surgeon

A Salford Royal surgeon is taking on a prestigious international appointment in Stockholm.

Consultant colorectal and intestinal failure surgeon Matt Soop has been appointed to the inaugural Chair of Colorectal Surgery at Ersta Hospital in Stockholm, Sweden and will be leaving Salford this July.

Matt came to Salford from Stockholm as a junior doctor in 2000 to undertake research in Professor Gordon Carlson's unit. He then completed his training in Stockholm and at the Mayo Clinic in Rochester. He returned to Salford six years ago as consultant surgeon and honorary reader in surgery at The University of Manchester.



Support for your innovative ideas

Staff are encouraged to visit [Innovation Factor®](#), where they can submit ideas to bring positive change to the Trust.

These may include ideas for new medical devices, training packages, mobile applications, software and more. Ideas may also include new transformation projects or service delivery pathways. Click [here](#) to visit Innovation Factor® now.

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Research stars of the month



Bury & Rochdale

Colleagues say Louise Stabler is a whirlwind who makes a real impact! Dr Saravanan's secretary has helped to develop an effective system where consultant stroke review appointments are arranged to coincide with the research follow up for studies. She is always quick to respond and deal with any issues, keeps everyone informed and is always pleasant and willing



North Manchester

The brilliant staff of the coronary care unit (CCU) are North Manchester's research stars of the month. They have been very helpful to the cancer research team when they have been working on the UKGRIS trial, welcoming staff onto the unit and helping to identifying patients. They are a great team and have helped the

to help.

team get established and make a fantastic start to recruitment.



Oldham

The Royal Oldham's Research Star of the Month is research pharmacist Hadia Ashraf . She is always working hard to make sure clinical research medications are dispensed in a timely manner to our volunteers, preventing any delays. She has helped the research teams at Oldham improve processes and goes beyond her responsibilities to help support them with their studies. From the patient perspective she has addressed issues which were causing delays and this really improves the patient experience and helps with retention in trials.



Salford

Research assistant Michelle Beswick only started her research career a few months ago but she has really hit the ground running. She has taken over the running of the NURTuRE renal study, both recruiting and doing follow ups for over 350 patients. Michelle has lots of initiative and comes up with new ideas to help make the running of such a big study a lot smoother. She is always keen to learn and is helping to build a closer relationship with the renal unit while promoting research to them. She is fun to be around and will always help out anyone without having to be asked.

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:

- [HSJ Awards](#) - closes 29 May
- [Quality in Care Diabetes Awards](#) - closes 31 May
- [Max Perrutz Science Writing Award](#) - closes 26 June
- [National Acute Pain Symposium Acute Pain Awards](#) - closes 1 September

Congratulations

- Congratulations to Dr Meghna Jani, rheumatologist at Salford Royal and NIHR funded Academic Clinical Lecturer in rheumatology at The University of Manchester, who was given a Young Investigator Award at the British Society for Rheumatology's annual conference.
- Congratulations to David Chambers, consultant anaesthetist at Salford Royal, who has co-written [CRQs for the final FRCA](#), a new resource for candidates preparing to pass the written aspect of the final FRCA. It has been specifically designed to reflect the new written examination format, providing complete CRQ examination papers and answer templates, with additional tips and references to aid further learning.

Governance



Phase 1 of R-Peak changes live

Phase 1 of the LPMS (R-Peak) to CPMS (ODP) Research Activity Integration is now live. The research activity that has occurred in financial year 2019-20 will be automatically sent from R-Peak to ODP. Your role as part of the research team using R-Peak will be more important than ever as the recruitment activity you record in R-Peak will ultimately inform the funding we receive from the NIHR. Therefore prompt and accurate data uploads are crucial. There's guidance on assigning research sites, uploading site capacity and capability and setting site status [here](#).

Local Information Pack ready to launch

A UK Local Information Pack will be introduced on 5 June 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](#).

HR Good Practice resource pack

The HR Good Practice Resource Pack contains information and documentation to support the process for handling HR arrangements for researchers.

It includes details of:

- The Research Passport system for issuing honorary research contracts (HRCs) or letters of access to HEI researchers who need to undertake their research within the NHS/HSC.
- Arrangements for sharing and accepting pre-engagement checks between NHS/HSC organisations when NHS/HSC staff wish to undertake research within the NHS/HSC outside of their employing organisation.

[More here.](#)

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Engagement



Support with first steps in research

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.

Please encourage colleagues who may be interested but unsure where to start to come along to our introductory event [Building a successful research culture in Bury and Rochdale](#) on Tuesday 25 June (4.30-8pm) at Fairfield General.

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
- Buffet supper and networking opportunity

CPD credits have been applied for from the Federation of the Royal Colleges of Physicians of

the United Kingdom.

International Clinical Trials Day

Our research nurses and research assistants will mark International Clinical Trials Day next week by spreading the message about the benefits of clinical trials to colleagues at all our care organisations.

Monday May 20 marks the anniversary of the first clinical trial, conducted by Scottish doctor James Lind in 1754 to discover a new treatment for scurvy among sailors in the Royal Navy.

Backed by the National Institute for Health Research, the annual International Clinical Trials Day provides an opportunity to make colleagues aware of how much research goes on across all specialties and how it makes a huge impact on the lives of our patients and service users. This year, the day coincides with the launch of a new NIHR campaign [Be Part of Research](#) and anyone who uses social media is encouraged to use the hashtags #BePartofResearch and #ICTD2019.

A team from R&I will also join a celebration of ICTD at the Clinical Research Network Greater Manchester on 24 May.

Medicine for Members

Local residents and Trust members can find out how research improves diagnosis, care and treatment for patients in the NHS at a free talk at Fairfield General Hospital.

The event is one of a series of Medicine for Members sessions, which are aimed at giving an insight into key elements of the hospital's daily work. It will take place on Tuesday 21 May from 2-3pm in the Auditorium at Fairfield General Hospital's Education Centre.

Among the speakers will be Professor Jimmy Limdi, Consultant Gastroenterologist at Fairfield General, Professor Steve Woby, Director of R&I Operations, and Senior Research Nurse Dawn Johnstone.

The event is free and open to all, and you can reserve a place by emailing membership@pat.nhs.uk or calling 01706 517302.

Linking patients with respiratory research

Do you have a respiratory condition such as asthma or COPD or know someone who does? As well as asking your healthcare professional about research that you might be able to take part in, you can also register your details with Research for the Future.

This is an NHS programme, hosted by the Northern Care Alliance, linking researchers and potential volunteers. Signing up to its database means you will be kept informed about research going on locally that might be relevant to you, specify what sorts of studies you might be interested in and be sent information in the way you choose, but taking part is still completely voluntary.

Find out more on Research for the Future's [website](#), [Facebook page](#) or [Twitter feed](#).

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Funding



Internal peer review for RfPB bids

If you are planning a bid to the next round of the NIHR [Research for Patient Benefit programme](#), MAHSC is once again offering internal peer reviews to enhance the competitiveness of applications.

Researchers from across the MAHSC partnership from different disciplines with relevant RfPB experience will review applications and provide expert feedback.

Principal Investigators must involve the R&I department at an early stage in the preparation of applications to make sure all finance streams and details are correct.

All paperwork, including a completed draft grant application form, should be submitted electronically to [Adam Reekie](#) no later than Wednesday 12 June. PIs will be given anonymised feedback by 3 July so they can make revisions in time for the submission deadline on 24 July.

Looking for your 1st grant?

The RDS NW is putting on an information event at Salford Royal on 3 June for anyone considering their first research grant.

Places for 'Developing funding proposals in applied health and social care: First grants' can be booked through [Eventbrite](#). There's more information [here](#).

Clinical Academic Research Partnerships

A new Medical Research Council and NIHR scheme provides a flexible route for research-qualified NHS consultants to increase their research skills and experience by engaging with groups and centres of biomedical research excellence, enabling the cross-seeding of perspectives, ideas and connections needed to underpin future translational biomedical research.

The pilot scheme is targeted at addressing known barriers within medical and dental careers. The deadline is 18 June. More [here](#).

NIHR Doctoral Fellowships

NIHR Doctoral Fellowships are currently open for application. This is a three year full-time award that supports individuals to undertake a PhD in an area of NIHR research. This Fellowship may also be taken up on a part-time basis of between 50 per cent and 100 per cent whole time equivalent.

Clinical applicants are able to include up to 20 per cent clinical time as part of the Fellowship, to ensure the maintenance of their clinical competence while undertaking the Fellowship.

Applications close on 18 June - [more here](#).

HEE/NIHR Bridging Scheme

Are you a Nurse, Midwife, Allied Health Professional, Pharmacist or Healthcare Scientist? Have you completed or are about to complete a masters level degree or a PhD? Could you be looking to undertake a PhD or a post-doctoral level fellowship?

The HEE/NIHR ICA bridging scheme offers a 12 month post-doctoral programme with an individual award of up to £34,000 and up to £10,000 for the six/12 month pre-doctoral programme (dependent on the date of submission for a fellowship). It is envisaged that the award will contribute towards salary backfill costs, training modules, travel expenses and access to high-quality academic mentorship. Awardees will be released for up to 50 per cent of their contracted hours to focus on the development of their research career and work towards a successful NIHR fellowship application. For advice regarding the scheme, contact [Jo Simpson](#) on 07885 832199.

NIHR calls

Current NIHR opportunities include:

- [Seedcorn Funding Competition 2019](#). Applications are invited for funding for up to £10,000 to support the early development of novel technology-based solutions applicable to the brain injury pathway from prevention through to long term rehabilitation. Awarded projects will kick off on 5 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.

Clinical trials coordination

This is a new two-day course aimed at Band 5 staff working in research coordination. It will focus on the logistics of conducting health research within the NHS, including study set-up, operation and closedown, HRA approval, grant applications and finance.

It runs from 5-6 June at the Nowgen Centre, Manchester, and costs £300. For more information contact Research.Training@mft.nhs.uk.

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Events



[NCA Diagnostics and Pharmacy Innovation Network](#). Join the Diagnostics & Pharmacy Senior Management Team, Clinical Leads, Transformation Team and sponsors to find out how our transformation programme will shape our future delivery models. It's on 22 May, 9am-noon, at Salford Royal.

[NIHR Greater Manchester PSTRC Symposium](#). This event for anyone with an interest in patient safety in healthcare will cover artificial intelligence, transitions in healthcare, avoidable harm and the devolved health and social care system in Greater Manchester. It's on 22 May at Crowne Plaza, Manchester.

[PKU Health Professionals Day](#). This information day is aimed at groups not usually captured by current PKU educational meetings - GPs, psychiatrists, neurologists, geriatricians, paediatricians, dermatologists, radiologists, general physicians, dieticians, mental health, learning disability and general nurses. It's at Salford Royal on 24 May, 9am-4pm.

Neurosurgical training: The Asian perspective. Professor Wai Poon, a leading Professor from the Chinese University of Hong Kong, will give a lecture in Mayo Building, Salford Royal on 30 May, 4.15-5pm. More details in the news section.

Malnutrition priority setting workshop. Health professionals (as well as patients and carers) are invited to the James Lind Alliance's final workshop for setting research priorities in malnutrition. It's at The University of Manchester on 7 June, 9.30am-4pm. Contact [Debra Jones](#) for more details and to express an interest.

[Cardiovascular, metabolic and kidney disease: crosscutting science and best practice](#). Salford Royal'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 development of multidisciplinary collaboration and interaction. It runs from 25-29 August at Manchester Central.

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Vacancies



- [Senior Oncology Research Nurse](#), based Salford (closes 20 May)
- [Senior Neurology Research Nurse](#), based Salford (closes 21 May)
- [Senior Rheumatology Research Nurse](#), based Salford (closes 24 May)
- [Trust Doctor in Neonatology](#) (ST4 equivalent), based Oldham (closes 29 May)
- [Senior Metabolic Medicine Research Nurse](#), based Salford (closes 29 May)
- [Senior Research Nurse](#), based Salford (closes 2 June)
- [Senior Acute Research Nurse](#), based Salford (closes 3 June)

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

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Publications



- Shahin Hajibandeh, Shahab Hajibandeh, Diwaker Sarma, Sankar Blakrishnan, Mokhtar Eltair, Rajnish Mankotia, Misra Budhoo, Yogesh Kumar: [Laparoscopic transcystic versus transductal common bile duct exploration: A systematic review and meta-analysis](#) (World Journal of Surgery).
- Qiongyuan Hu, Jie Wu, Yanhan Ren, Xiuwen Wu, Lin Gao, Gefei Wang, Guosheng Gu, Huajian Ren, Zhiwu Hong, Dominic Slade, Jianan Ren: [Degree of STING activation is associated with disease outcomes](#) (Gut).
- Joseph Hamilton, Hiren Patel, Benjamin Davies: [Ensuring safe surgery is more than just tackling antimicrobial resistance: Making the case for a skin preparation trial](#) (Acta Neurochirurgica).
- Thaleia Kalatha, Marianthi Arnaoutoglou, Theodoros Koukoulidis, Eleni Hatzifilippou, Emmanouil Bouras, Stavros Baloyannis, Effrosyni Koutsouraki: [Does cognitive dysfunction correlate with neurofilament light polypeptide levels in the CSF of patients with multiple sclerosis](#) (Journal of International Medical Research).
- Zoe Betteridge, Sarah Tansley, Gavin Shaddick, Hector Chinoy, Robert Cooper, Robert New, James Lilleker, Jiri Venkovsky, Louise Ekholm, Neil McHugh, et al: [Frequency, mutual exclusivity and clinical associations of myositis autoantibodies in a combined European cohort of idiopathic inflammatory myopathy patients](#) (Journal of Autoimmunity).
- Estela Rubio-Gozalbo, Minela Haskovic, Annet Bosch, Birute Burnyte, Ana Coelho, David Cassiman, Maria Couce, Karolina Stepien, Eileen Treacy, Gerard Berry, et al: [The natural history of classic galactosemia: Lessons from the GalNet registry](#) (Orphanet Journal of Rare Diseases).
- Safwaan Adam, Yifen Liu, Tarza Siahmansur, Jan Ho, Shaishav Dhage, Rahul Yadav, John New, Rachelle Donn, Basil Ammori, Akheel Syed, Rayaz Malik, Handrean Soran, Paul Durrington: [Bariatric surgery as a model to explore the basis and consequences of the Reaven hypothesis: Small, dense low-density lipoprotein and interleukin-6](#) (Diabetes and Vascular Disease Research).
- Patrick Hamilton, Fiona Wilson, Rajkumar Chinnadurai, Smeeta Sinha, Malinder Singh, Arvind Ponnusamy, Peter Hall, Ajay Dhaygude, Durga Kanigicherla, Paul Brenchley: [The investigative burden of membranous nephropathy in the United Kingdom](#) (Clinical Kidney Journal).
- Ashley Bond, Antje Teubner, Michael Taylor, Lynne Wilbraham, Loraine Gillespie, Kirstine Farrer, Marie McMahon, Gavin Leahy, Arun Abraham, Mattias Soop, Andrew Clamp, Jurjees Hasan, Claire Mitchell, Gordon Jayson, Simon Lal: [A novel discharge pathway for patients with advanced cancer requiring home parenteral nutrition](#) (Journal of Human Nutrition and Dietetics).
- Manish Motwani, Oliver Burley, Matthew Luckie, Colin Cunningham, Anthony Pisaniello, Ragheb Hasan, Iqbal Malik, Douglas Fraser: [3D-printing assisted closure of paravalvular leak](#) (Journal of Cardiovascular Computed Tomography).
- Dave Thompson, Deborah Antcliff, Steve Woby: [Cognitive factors are associated with disability and pain, but not fatigue among physiotherapy attendees with persistent pain and fatigue](#) (Physiotherapy).
- Andrew Berg, Antonia Hoyle, Edward Yates, Aslam Chougale, Rama Mohan: [Cement-in-cement revision with the Exeter Short Revision Stem: A review of 50 consecutive hips](#) (Journal of Clinical Orthopaedics and Trauma).

- Mohammad Tariq Ramtoola, Mubashir Bhatti, Ritesh Shetty: [A case report of a ruptured subclavian artery aneurysm presenting to the emergency department](#) (Clinical Case Reports).
- Sarika Paul, Josie Austin, Rebecca Elliott, Ian Ellison-Wright, Ming Wai Wan, Richard Drake, Darragh Downey, Alya Elmadih, Ipshita Mukherjee, Lisa Heaney, Steve Williams, Kathryn Abel: [Neural pathways of maternal responding: Systematic review and meta-analysis](#) (Archives of Women's Mental Health).
- Connie Woodall, Pavan Padaki, Arshad Siddiqui, Sherif Bayoumi: [The use of intraoral local anaesthetic to aid reduction of acute temporomandibular joint dislocation](#) (Journal of Stomatology, Oral and Maxillofacial Surgery).
- Jose Anton-Rodriguez, Daniel Lewis, Ibrahim Djoukhadar, David Russell, Peter Julyan, David Coope, Andrew King, Simon Lloyd, Gareth Evans, Alan Jackson, Julian Matthews: [\[18F\] fluorothymidine and \[18F\] fluorodeoxyglucose PET imaging demonstrates uptake and differentiates growth in neurofibromatosis 2 related vestibular schwannoma](#) (Otolaryngology and Neurotology).
- Richard Haynes, Doreen Zhu, Parminder Judge, William Herrington, Philip Kalra, Colin Baigent: [Chronic kidney disease, heart failure and neprilysin inhibition](#) (Nephrology, Dialysis, Transplantation).
- Meizhi Ju, Andrea Short, Paul Thompson, Nawar Bakerly, Georgios Gkoutos, Loukia Tsaprouni, Sophia Ananiadou: [Annotating and detecting phenotypic information for chronic obstructive pulmonary disease](#) (JAMIA Open).
- Adam Morris, Piyali Pal, Edmond O'Riordan, Dimitrios Poulikakos: [Small vessel multi-organ vasculitis and marantic endocarditis complicating rheumatoid arthritis](#) (European Journal of Rheumatology).
- Dipesh Vasant, Ayodele Sasegbon, Emilia Michou, Craig Smith, Shaheen Hamdy: [Rapid improvement in brain and swallowing behaviour induced by cerebellar repetitive transcranial magnetic stimulation in poststroke dysphagia: A single patient case-controlled study](#) (Neurogastroenterology and Motility).
- Leona Yip, T Barrett, Matthew Harries: [Folliculitis decalvans and lichen planopilaris phenotypic spectrum: A case series of bi-phasic clinical presentation and theories on pathogenesis](#) (Clinical and Experimental Dermatology).
- Adam Daunton, Jason Williams: [The impact of UV exposure on patch testing in clinical practice: A case-control study](#) (Clinical and Experimental Dermatology).
- Benjamin Crooks, Jimmy Limdi, John McLaughlin: [How to manage chronic diarrhoea in the elderly](#) (Frontline Gastroenterology).
- Ayodele Sasegbon, Masahiro Watanabe, Andre Simons, Emilia Michou, Dipesh Vasant, Jin Magara, Philip Bath, John Rothwell, Makoto Inoue, Shaheen Hamdy: [Cerebellar repetitive transcranial magnetic stimulation restores pharyngeal brain activity and swallowing behaviour after disruption by a cortical virtual lesion](#) (Journal of Physiology).
- Ian Loram, Abdul Siddique, Maria Sanchez, Pete Harding, Monty Silverdale, Christopher Kobylecki, Ryan Cunningham: [Automated analysis of neck muscle boundaries for cervical dystonia using ultrasound imaging and deep learning](#) (Engrxiv).
- Alicja Raginis-Zborowska, Ivy Cheng, Neil Pendleton, Antony Payton, William Ollier, Emilia Michou, Shaheen Hamdy: [Genetic influences on the variability of response to repetitive transcranial magnetic stimulation in human pharyngeal motor cortex](#)

- (Neurogastroenterology and Motility).
- Andrew Robinson, Yvonne Davidson, Michael Horan, Maggie Isom, Neil Pendleton, David Mann: [No association between head injury with loss of consciousness and Alzheimer's disease pathology – Findings from The University of Manchester Longitudinal Study of Cognition in Normal Healthy Old Age](#) (International Journal of Geriatric Psychiatry).
 - Richard Warren, Jonathan Barker, Peter Van de Kerkhof, Kristian Reich, Ulrich Mrowietz: [Switching from a fumaric acid ester mixture to dimethylfumarate monotherapy in psoriasis](#) (Journal of the European Academy of Dermatology and Venereology).
 - Joanna Balmforth, Antony Thomas: [Unplanned removal of medical devices in critical care units in North West England between 2011 and 2016](#) (American Journal of Critical Care).
 - Diana Vassallo, Helen Alderson, Nicolas Vuilleumier, James Ritchie, Darren Green, Sabrina Pagano, Julien Virzi, Constantina Chrysochou, Philip Kalra: [Association of novel biomarkers with major clinical outcomes in a cohort of patients with atherosclerotic renovascular disease](#) (Annals of Clinical Biochemistry).
 - Will Hewins, Karolis Zienius, James Rogers, Simon Kerrigan, Mark Bernstein, Robin Grant: [The effects of brain tumours upon medical decision-making capacity](#) (Current Oncology Reports).
 - Gemma Patterson, Claire Howard, Lauren Hepworth, Fiona Rowe: [The impact of visual field loss on driving skills: A systematic narrative review](#) (British and Irish Orthoptic Journal).
 - Jeffrey Crowley, Richard Warren, Jennifer Cather: [Safety of selective IL-23p19 inhibitors for the treatment of psoriasis](#) (Journal of the European Academy of Dermatology and Venereology).
 - James Tollitt, Nicola Bennett, Denise Darby, Emma Flanagan, Paul Chadwick, Smeeta Sinha, Philip Kalra, James Ritchie, Dimitrios Poulikakos: [The importance of acute kidney injury in suspected community acquired infection](#) (PLOS One).
 - Adrian Heald, Anthony Fryer, Simon Anderson, Mark Livingstone, Mark Lunt, Mark Davies, Gabriela Moreno, Roger Gadsby, Robert Young, Mike Stedman: [Sodium-glucose co-transporter-2 inhibitors, the latest residents on the block: Impact on glycaemic control at a general practice level in England](#) (Diabetes, Obesity and Metabolism).
 - Craig Smith, Calvin Heal, Andy Vail, Adam Jeans, Willeke Westendorp, Paul Nederkoorn, Diederik van de Beek, Lalit Kalra, Joan Montaner, Mark Woodhead, Andreas Meisel: [Antibiotic class and outcome in post-stroke infections: An individual participant data pooled analysis of VISTA-Acute](#) (Frontiers in Neurology).
 - Nikolaos Dimasis, Periklis Koukourikis, Athanasios Klampatsas, Persefoni Xirou, Petros Sountolides: [A unique case of aggressive uterine cancer in a 45-year-old man with persistent Mullerian duct syndrome](#) (Archivos Espanoles de Urologia).
 - Gavin Lewis, Erik Schelbert, Josephine Naish, Emma Bedson, Susanna Dodd, Helen Eccleson, Dannii Clayton, Beatriz Jimenez, Theresa McDonagh, Simon Williams, Anne Cooper, Colin Cunnington, Fozia Ahmed, Rajavarma Viswesvaraiyah, Stuart Russell, Stefan Neubauer, Paula Williamson, Christopher Miller: [Pirfenidone in heart failure with preserved ejection fraction - rationale and design of the PIROUETTE trial](#)

(Cardiovascular Drugs and Therapy).

- 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

Research and Innovation is part of the [Northern Care Alliance NHS Group](#), comprising [Salford Royal NHS Foundation Trust](#) and [The Pennine Acute Hospitals NHS Trust](#).



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