

16 May 2018

News



Record breaking year for research at Salford Royal...

Very well done and a huge thank you to everyone who has helped to make 2017-18 our most successful year yet for research. Everyone involved should be very proud that our work enabled 6,285 Salford Royal patients to take part in studies – an amazing 20 per cent improvement on our previous best figure.

This fantastic performance in National Institute for Health Research (NIHR) Clinical Research Network portfolio studies was achieved through hard work across a broad range of specialties. We are among the top five per cent of recruiters in England in neurology, stroke, dermatology, anaesthesia, and dementias and neurodegeneration and among the top 10 per cent in a further three areas – renal, diabetes and musculoskeletal.

We successfully recruited to 192 NIHR active studies during the year, of which 56 were interventional and 47 were commercial, an excellent record that puts the Trust on a similar level to the country's biggest teaching trusts.

Director of Research & Innovation Operations Professor Steve Woby said: "Our performance over the last year in all specialties has been brilliant and we are thrilled that we have recruited more than 6,000 patients for the first time. Research links closely with clinical care and these figures mean that more people than ever before are being given the chance to test new medicines and to contribute to improvements in diagnosis, care and treatments. It has also been a record-breaking year at the hospitals that make up the Pennine Acute Hospitals NHS Trust, with more than 7,700 patients taking part in research there. I want to thank all the dedicated staff at Salford Royal and Pennine Acute who have contributed to these fantastic achievements."

... success is reflected across Northern Care Alliance

Team work across the Northern Care Alliance has been part of our success story this year. Since Salford Royal and the Pennine Acute Hospitals NHS Trust formed a group, the research department has been at the forefront of the closer working, with one joint Research and Innovation Office now covering all sites.

Together, the Alliance has recruited 14,018 patients to Clinical Research Network (CRN) portfolio studies in 2017-18, putting it in 11th place out of 154 acute trusts in England. The combined Trusts are among the top five per cent recruiters in 10 specialties and the top 10 per cent in a further three.

The Alliance has done particularly well on recruitment into industry trials, with 1,659 patients – second only to Oxford University Hospitals.

Research features in key medical journals

Our high level of research activity is also reflected in the number of staff who have had their work published in academic journals. In 2017, there were 386 research papers published with authors from Salford Royal, with many featuring in the key medical journals. The high volume and variety of published work clearly shows the commitment of staff, patients and the Trust to using research and innovation to enhance patient experience and outcome.

First UK patient for psoriasis study

Congratulations to Ni Godward, Lead Research Nurse, who recruited the first UK patient to the STELLAR Teens study.

The study aims to monitor the long-term safety of the medication ustekinumab and its effect on growth and development of psoriasis patients aged 12 to 18 years. It will also collect information on clinical outcome and quality of life. Ni recruited the first participant at our Dermatology Outpatient Clinic in March.

The study is being sponsored by Janssen-Cilag International NV and the Principal Investigator for Salford Royal is Professor Chris Griffiths.

Final chance to complete 7-day survey

In June the HiSLAC study will launch its fifth and final survey to help create a nationwide snapshot of specialist intensity and seven-day services.

The annual Point Prevalence Survey will be distributed to consultants and associate specialists, via local project leads, in mid-June. The lead for Salford is Dr Richard Warner.

HiSLAC (High-Intensity Specialist Led Acute Care) seeks to determine whether having more specialists in hospitals at weekends will improve outcomes for patients admitted as medical emergencies.

The web-based questionnaire takes just two minutes to complete and aims to capture a snapshot of the number of consultants on duty on a reference Wednesday and Sunday each June. Since the survey began in 2014, researchers have gathered 56,000 responses from acute trusts in England.

Researchers hope to establish whether there is a correlation between specialist (senior doctor) intensity and weekend/weekday admission mortality. Other parts of the study are investigating weekend/weekday care quality (case record review); care processes (ethnography); as well as the cost effectiveness (health economics).

Team is runner-up in equality award

[Research for the Future](#) has won a runners' up spot in the Northern Care Alliance Equality & Diversity awards. The awards recognise teams or individuals who have promoted inclusivity or delivered projects to meet the needs of service users.

Research for the Future's 'Help BEAT' campaigns invite people with diabetes, respiratory, heart and kidney disease to register to find out about future research opportunities taking place across the Alliance and Greater Manchester. The award recognised recent improvements to its database so that volunteers registering their interest in research can advise of their communication need in advance of their first contact. A red flag on the record highlights this to staff so they can contact the volunteer using their preferred method. This personalised service enhances their experience as they begin their research journey.

Fracture clinic team are Research Stars of the Month

Very well done to the team in Salford Royal's fracture clinic who are April's Research Stars of the Month. They have been a key part of the success of the UK-START trial, working with the Acute Research Delivery Team to

recruit double the number of patients they had targeted. The study is comparing two methods of rehabilitation for ruptured Achilles tendon (plaster cast or walking boot) to see which has the best outcomes for patients.

The staff in fracture clinic have been particularly helpful and enthusiastic about referring potential patients and are always very friendly and accommodating when research staff attend the extremely busy clinic.

It's great to hear the many stories of staff working so hard to make a difference to research and patient care within research. Please keep sending your nomination(s) each month to both Senior Clinical Research Nurse Manager [Vikki O'Loughlin](#) and Engagement in Research Manager [Jess Zadik](#) with the name of the person or team and a short paragraph explaining why their work should be recognised.

Help needed for homeless all year round

Research Assistant Jes Pendlebury is asking for donations of clothes and bedding for homeless people in Manchester. Her appeal at Christmas brought lots of support from research staff but Jes is continuing to work with the Reach Out organisation and says help is needed all year round.

She is always grateful for any good quality clothes, including underwear, socks and gloves, sleeping bags and other bedding and treats like biscuits or chocolate that she can pass on to those living on the streets.

Be social – follow us on Facebook and Twitter

Social media is a great way to keep in touch with the latest from the Research & Innovation team and to connect with colleagues. Please like and follow our [Facebook page](#) and ask your friends to do so too.

Our main Twitter account is [@NCAresearchNHS](#) (previously @SalfordRD) and we also have accounts for research at each of the hospital sites, which can be used to share patient and staff events and to promote research that is taking place at that location – contact [Claire Mooney](#) if you have a message to share. Click here to see the accounts for research at:

- [Salford Royal](#)
- [Fairfield General](#)
- [The Royal Oldham](#)
- [North Manchester General](#)
- [Rochdale Infirmary](#)

Put your team in the frame for an award

- [HSJ Awards](#) – deadline 31 May
- [Quality in Care Diabetes Awards](#) – deadline 1 June
- [Quality in Care Hepatitis C programme](#) – deadline 18 June
- [Max Perrutz Science Writing Award](#) – deadline 4 July
- [Kate Grainger Compassionate Care Awards](#) – deadline 10 July

Governance



Are you ready for GDPR?

The General Data Protection Regulation (GDPR) comes into force on 25 May. Updated guidance is now live on the [HRA website](#). If you have any questions once you have read the guidance, email hra.approvalprogramme@nhs.net, with GDPR in the subject header.

Locally [Wendy Osborne](#) is leading on this work for the Research & Innovation team at Salford Royal.

Engagement



Spreading the message about clinical trials

Patients, colleagues and visitors will be able to hear about the benefits of research for patients and the wider community when we celebrate International Clinical Research Day with a stall in Hope Building on Monday 21 May (10am-4pm).

Staff from our rheumatology research team will be taking the opportunity to promote the DISKO study into a potential treatment for knee osteoarthritis. Other staff will be there to talk about research in general and to highlight some of the successes of our record-breaking year.

Party time for NHS70

The National Health Service is turning 70 on 5 July. It's the perfect opportunity to celebrate the achievements of one of the nation's most loved institutions and as part of the celebrations at Salford Royal, we'll be eating cake again! Senior Research Nurse Marie Greenhalgh is organising a Big 7Tea party at Summerfield House on 5 July (12.30-1.30pm), which will support an NHS charity. We are asking for a £3 donation to cover the cost of your lunch and a raffle ticket. This means you don't have to bring food but donations of raffle prizes and cake would be very welcome.

Getting started in research

Senior Nurse Manager Simon Kaye and Clinical Research Lead Dr Georgios Antoniou are hosting an event at the Royal Oldham's Education Centre to encourage clinical staff to get involved in research and innovation. Staff can go along on Wednesday 6 June (5-8pm) to find out about how to start a career in research, what training is available, and current research areas. Supper is provided. Contact [Simon](#) for more information.

Funding



MAHSC funding call for projects in Inflammation and Repair

[MAHSC](#) is providing funding for innovative projects that tackle a health problem across the Inflammation and Repair Domain.

The maximum funding available per application is in the region of £10,000 and the deadline is 29 June. Further information is available [here](#).

Research for Patient Benefit

The NIHR is looking for research proposals that are concerned with the day-to-day practice of health service staff, and which have the potential to have an impact on the health or wellbeing of patients and users of the NHS for its [Research for Patient Benefit](#) programme.

The programme aims to fund high quality quantitative and qualitative research with a clear trajectory to patient benefit. It particularly encourages applications that have a strong element of interaction with patients and the public, and which have been developed in association with a relevant group of service users. The NIHR Research Design Service North West has places available on a [free advice session](#) on applications for this funding stream at The University of Manchester on 28 June. Applications close on 18 July.

Latest NIHR calls

The NIHR [Invention for Innovation \(i4i\) programme](#) is looking for research proposals for translational projects aimed at cultivating new techniques or technologies into innovative interventions which address healthcare needs. It supports projects developing innovative medical technology including medical devices, active implantable devices and in vitro diagnostic devices. i4i also supports projects which utilise and develop techniques or technologies from other industry sectors that could have a potential impact if applied in a healthcare setting. The closing date for this round is 6 June.

New opportunities in the Efficacy and Mechanism Evaluation programme include:

- [Neurodegenerative disorders](#) (closing date 21 August)
- [Type 2 diabetes](#) (closing date 21 August)
- [Improving safety and efficacy through targeted drug delivery](#) (closing date 21 August)

Latest calls in the Health Technology Assessment programme include:

- [Extended duration haemodialysis](#) (closing date 26 September)

Applications are now open for the [researcher-led Health Services and Delivery Research Programme](#) (closing date 6 September).

Visit the [NIHR website](#) for details of all current funding and support calls.

Training



Drilling down into digital data

The [Arthritis Research UK Centre for Epidemiology](#) is organising the inaugural Manchester Digital Epidemiology Summer School to demonstrate how to capture and use digital health data to support high-quality epidemiological research.

The three-day programme covers opportunities, challenges and methods across a variety of data types, from data in electronic health records to data collected through smartphones and wearable devices. An internationally renowned and multidisciplinary faculty will deliver interactive seminars on methods for collecting and analysing digital data in the context of epidemiological studies.

The summer school is intended for clinical epidemiologists, health informaticians, health data scientists, and clinicians with an interest in epidemiology and/or data science. It runs from 18-20 July – [more here](#).

Expert advice on retreat to develop grant bids

Do you have a great idea for research in health, social care or public health? Would you or your team benefit from protected time and expert support to develop your idea into a competitive funding application?

The NIHR Research Design Service (RDS) is offering health, social care and public health professionals across England an opportunity to attend a three-day residential grant development and writing retreat in September.

Applications are invited from individuals or teams of two or three people, at least one of whom must be a health, social care or public health professional working in England. Successful applicants will be offered a free place at the retreat. More details and an application form [here](#).

Clinical Research Network courses

The dates for Good Clinical Practice (GCP) and GCP refresher courses for 2018 are available on [our website](#). If your certification is due to expire, please use [this link](#) to confirm your place.

The CRN also runs courses on informed consent, communication and consent in paediatric settings, informed consent in adults lacking capacity, research practitioner essentials and working in the CRN. [More here](#).

Maternal medicine symposium

Improving outcomes for pregnant women with underlying medical conditions will be the focus of this Royal College of Physicians of Edinburgh event at The University of Manchester on 20 June. Professor Catherine Nelson-Piercy, Consultant Obstetric Physician at Imperial College, will be the keynote speaker and the programme also covers the management during pregnancy of a wide range of conditions including cystic fibrosis, thyroid disease, lupus, pulmonary hypertension, inherited cardiac conditions, HIV, sickle cell disease and vascular disease. More [here](#).

Clinical trials training for investigators

This course at the University of Liverpool is aimed at health and research professionals, particularly those aiming to become Chief Investigators. The programme includes trial design, trial conduct, recruitment of trial participants, public and patient involvement, analysis and reporting, and health economics.

The course runs from 24-28 September – booking details [here](#).

Events



[Sight-loss as a consequence of traumatic brain injury and mental health implications](#). This event organised by Blind Veterans UK and The University of Manchester is on 23 May, 12.30-6pm at the university's Theatre A in University Place.

[Collaborating to deliver new technologies for patient benefit](#). Professor Rick Body will talk about the new Diagnostics and Technology Accelerator at the Greater Manchester Academic Centre for Acute Care and Trauma meeting on 19 June, 5.30-8pm, at Citylabs, Manchester.

[Forging New Links: Cellular and Developmental Systems](#). Consultants who want to develop new research connections in these areas can explore options with scientists from The University of Manchester Cellular and Developmental Systems research domain. It's on 26 June, 12.30-5pm, at the Core Technology Facility, Manchester.

[Infection, Immunity, Inflammation and Repair Networking Meeting](#). This event will consider ways in which research in these areas could be developed and identify opportunities for collaborative funding applications. It's on Wednesday 27 June at the Core Technology Facility, Grafton Street, Manchester.

Staff updates



Vacancies

- [Clinical Research Fellow – gastroenterology](#) (closes 18 May)
- [Locum Consultant – diabetes and endocrinology](#) (closes 18 May)
- [Research Occupational Therapist – Band 6](#) (closes 18 May)
- [Programme Manager – CLAHRC](#) (closes 18 May)
- [Senior Clinical Fellow – knee](#) (closes 19 May)
- [Clinical Research Nurse – Band 6](#) (closes 25 May)
- [Lead Clinical Technologist – Photobiology Unit](#) (closes 28 May)

This list of vacancies now incorporates roles across the Northern Care Alliance. Please visit the [NHS Jobs](#) website for all internal or external vacancies.

Congratulations and thanks

- Congratulations to Dr Zenas Yiu who won the Royal Society of Medicine's trainee research prize in the Dermatology section for his abstract 'An investigation into the association and prediction of serious infection in patients on biologic therapies for psoriasis', which he presented at the RSM's dermatology meeting in April. Dr Yiu is a Specialty Registrar in Dermatology at Salford Royal and a National Institute for Health Research Doctoral Research Fellow in Dermatology at The University of Manchester.
- Well done to Dr Hector Chinoy who won the Michael Mason prize at the British Society for Rheumatology's annual conference at the start of May. The prize is awarded annually for excellence in clinical or scientific research in the field of rheumatology. Dr Chinoy is a Rheumatology Consultant at

Salford Royal and Senior Lecturer in Rheumatology at The University of Manchester and has a special interest in myositis.

- Congratulations to Consultant Surgeons Mr Iain Anderson and Mr Jonathan Epstein, who have contributed a chapter on abdominal sepsis and abdominal compartment syndrome to the latest edition of [Core Topics in General & Emergency Surgery](#), edited by Simon Paterson-Brown and Hugh Paterson and published by Elsevier.
- Mr Epstein has also contributed to the new edition of the famous textbook [Bailey and Love's Short Practice of Surgery](#). He and Professor Gordon Carlson wrote its chapter on the large intestine, while Professor Carlson also contributed a chapter with Mattias Soop on the small intestine.

Publications



Journals, articles, newsletters and blogs

- The latest edition of [The Researcher](#) magazine, produced by NHS R&D NW in collaboration with HEE and the NIHR, is available online now.
- The NIHR Greater Manchester Patient Safety Translational Research Centre's latest bulletin is available [here](#).
- Ann Webb, Andreas Kazantzidis, Richard Kift, Mark Farrar, Jack Wilkinson, Lesley Rhodes: [Meeting vitamin D requirement in white Caucasians at UK latitudes: Providing a choice](#) (Nutrient).
- Alexandra Kendall, Marta Koszyczarek, Emrys Jones, Philippa Hart, Mark Towers, Christopher Griffiths, Michael Morris, Anna Nicolaou: [Lipidomics for translational skin research: A primer for the uninitiated](#) (Experimental Dermatology).
- Julie Snowden, Christopher Kobylecki, Matthew Jones, Jennifer Thompson, Anna Richardson, David Mann: [Association between semantic dementia and progressive supranuclear palsy](#) (Journal of Neurology, Neurosurgery and Psychiatry).
- Paul Harmatz, Federica Cattaneo, Diego Ardigo, Silvia Geraci, Julia Hennermann, Nathalie Guffon, Allan Lund, Christian Hendriksz, Line Borgwardt: [Enzyme replacement therapy with velmanase alfa \(human recombinant alpha-mannosidase\): Novel global treatment response model and outcomes in patients with alpha-mannosidosis](#) (Molecular Genetics and Metabolism).
- David Bodansky, Ashtin Doorgakant, Joseph Alsousou, Hassan Iqbal, Benjamin Fischer, G Scicluna, M Bowers, Badri Narayan: [Acute compartment syndrome: Do guidelines for diagnosis and management make a difference?](#) (Injury).
- Thomas Riley, Yeng Ang: [Methylation panel as a diagnostic biomarker in Barrett's oesophagus: A comprehensive biomarker panel in a population-based screening programme?](#) (Journal of Laboratory and Precision Medicine).
- Carl Marincowitz, Fiona Lecky, William Townend, Victoria Allgar, Andrea Fabbri, Trevor Sheldon: [A protocol for the development of a prediction model in mild traumatic brain injury with CT scan abnormality: Which patients are safe for discharge?](#) (Diagnostic and Prognostic Research).
- Kenny Yu, Saam Youshani, Fiona Wilkinson, Claire O'Leary, Peter Cook, Liisi Laaniste, Aiyin Liao, Dominic Mosses, Christopher Waugh, Hannah Shorrock, Omar Pathmanaban, Andrew Macdonald, Ian Kamaly-Asl, Federico Roncaroli, Brian Bigger: [A non-myeloablative chimeric mouse model accurately defines microglia and macrophage contribution in glioma](#) (Neuropathology and Applied Neurobiology).
- James Tollitt, Emma Flanagan, Sheila McCorkindale, Sam Glynn-Atkins, Lauren Emmett, Denise Darby, James Ritchie, Brandon Bennett, Smeeta Sinha, Dimitrios Poulidakos: [Improved management of acute kidney injury in primary care using e-alerts and an educational outreach programme](#) (Family Practice).
- Kenneth Hiew, Claire Hart, Adnan Ali, Tony Elliott, Vijay Ramani, Vijay Sangar, Maurice Lau, Satish

Maddineni, Mick Brown, Noel Clarke: [Primary mutational landscape linked with pre-docetaxel lactate dehydrogenase levels predicts docetaxel response in metastatic castrate-resistant prostate cancer](#) (European Urology Focus).

- Martin Marziniak, Giampaolo Brichetto, Peter Feys, Uta Meyding-Lamade, Karen Vernon, Sven Meuth: [The use of digital and remote communication technologies as a tool for multiple sclerosis management: Narrative review](#) (JMIR Rehabilitation and Assistive Technologies).
- Arvind Ponnusamy, Smeeta Sinha, Gareth Hyde, Samantha Borland, Rebecca Taylor, Emma Pond, Heather Eyre, Colette Inkson, Andrew Gilmore, Nick Ashton, Philip Kalra, Ann Canfield: [FTI-277 inhibits smooth muscle cell calcification by up-regulating P13K/Akt signalling and inhibiting apoptosis](#) (PLOS One).
- Anil George: [Can David topple Goliath again? The 'simple' perianal abscess could provide a key to identifying early Crohn's diseases](#) (Colorectal Disease).
- Peter Hutchinson, Barrie White, Adel Helmy, John Thorne, Alistair Jenkins, Richard Kerr, Neil Kitchen, Paul May, on behalf of the Society of British Neurological Surgeons: [The relationship between neurosurgical instruments and disease transmission: Society of British Neurological Surgeons perspective](#) (Acta Neuropathologica).
- Michael Hughes, Andrea Murray, Christopher Denton, Ariane Herrick: [Should all digital ulcers be included in future clinical trials of systemic sclerosis-related digital vasculopathy?](#) (Medical Hypotheses).
- Ignacio Garcia-Doval, Miguel Descalzo, Kayleigh Mason, Arnon Cohen, Anthony Ormerod, Francisco Gomez-Garcia, Simone Cazzaniga, Ilan Feldhamer, Hassan Ali, Enrique Herrera-Acosta, Christopher Griffiths, Robert Stern, Luigi Naldi: [Cumulative exposure to biologics and risk of cancer in psoriasis patients: A meta-analysis of Psonet studies from Israel, Italy, Spain, United Kingdom and Republic of Ireland](#) (British Journal of Dermatology).
- Patricia Hodgson, Jake Ireland, Bianka Grunow: [Fish, the better model in human heart research? Zebrafish Heart aggregates as a 3D spontaneously cardiomyogenic in vitro model system](#) (Progress in Biophysics and Molecular Biology).
- Barbara Shih, Mark Farrar, Marcus Cooke, Joanne Osman, Abigail Langton, Richard Kift, Ann Webb, Jacqueline Berry, Rachel Watson, Andy Vailm Frank de Gruijl, Lesley Rhodes: [Fractional sunburn threshold UVR doses generate equivalent vitamin D and DNA damage in skin types I-VI, but with epidermal DNA damage gradient correlated to skin darkness](#) (Journal of Investigative Dermatology).
- Cyril Pottier, Xiaolai Zhou, Ralph Perkerson, Matt Baker, Sara Rollinson, Anna Richardson, Julie Snowden, David Mann, Stuart Pickering-Brown, Rosa Rademakers, et al: [Potential genetic modifiers of disease risk and age at onset in patients with frontotemporal lobar degeneration and GRN mutations: A genome-wide association study](#) (The Lancet Neurology).
- April Armstrong, Sarah Jarvis, Wolf Boehncke, Murlidhar Rajagopalan, Pablo Fernandez-Penas, Ricardo Romiti, Anthony Bewley, Bhavin Vaid, Louise Huneault, Todd Fox, Monisha Sodha, Richard Warren: [Patient perceptions of clear/almost clear skin in moderate to severe plaque psoriasis: Results of the Clear About Psoriasis Worldwide Survey](#) (Journal of the European Academy of Dermatology and Venereology).
- Anna Sasdelli, Federica Agostini, Caterina Pazzeschi, Mariacristina Guidetti, Simon Lal, Loris Pironi: [Assessment of intestinal failure associated liver disease according to different diagnostic criteria](#) (Clinical Nutrition).
- Rowan Gurney, Yvonne Davidson, Andrew Robinson, Anna Richardson, Matthew Jones, Julie Snowden, David Mann: [Lysosomes, autophagosomes and Alzheimer pathology in dementia with Lewy body disease](#) (Neuropathology).
- Wen Teh, Craig Smith, Raphae Barlas, Adrian Wood, Joao Bettencourt-Silva, Allan Clark, Anthony

- Metcalf, Kristian Bowles, John Potter, Phyo Myint: [Impact of stroke-associated pneumonia on mortality, length of hospitalization and functional outcome](#) (Acta Neurologica Scandinavica).
- John Pallot, Halima Choonara, Elliott Gerrard, Kanna Gnanalingham, Benjamin Davies: [Trends in the quality of work presented at the Society of British Neurological Surgeons Meetings: 1975 to 2010](#) (British Journal of Neurosurgery).
 - Susan Stocks, Ailsa Donnelly, Aneez Esmail, Joanne Beresford, Carolyn Gamble, Sarah Luty, Richard Deacon, Avril Danczak, Nicola Mann, David Townsend, James Ashley, Paul Bowie, Stephen Campbell: [Development and piloting of a survey to estimate the frequency and nature of potentially harmful preventable problems in primary care from a UK patient's perspective](#) (BMJ Open).
 - Rebecca Morris, Susan Stocks, Rahul Alam, Siân Taylor, Carly Rolfe, Steven Glover, Joanne Whitcombe, Stephen Campbell: [Identifying primary care patient safety research priorities in the UK: a James Lind Alliance Priority Setting Partnership](#) (BMJ Open).
 - Christian Jones, Denham Phipps, Darren Ashcroft: [Understanding procedural violations using Safety-I and Safety-II: the case of community pharmacies](#) (Safety Science).
 - Mary Tully, Kyle Bozentko, Sarah Clement, Amanda Hunn, Lamiece Hassan, Ruth Norris, Malcolm Oswald, Niels Peek: [To what extent should patients control access to patient records for research? A trial by citizens' jury](#) (Journal of Medical Internet Research).
 - Denham Phipps, Sally Giles, Penny Lewis, Kate Marsden, Ndeshi Salema, Mark Jeffries, Anthony Avery, Darren Ashcroft: [Mindful organizing in patients' contributions to primary care medication safety](#) (Health Expectations).
 - Hayley Gorton, Roger Webb, Matthew Carr, Marcos del Pozo Baños, Ann John, Darren Ashcroft: [Risk of Unnatural Mortality in People With Epilepsy](#) (JAMA Neurology).
 - Niels Peek, Pedro Pereira Rodrigues: [Three controversies in health data science](#) (International Journal of Data Science and Analytics).

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

How to submit an article

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Please submit articles to claire.mooney@manchester.ac.uk by close of play 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](#).

