

Please help us to keep the R+D Bulletin topical and useful by sending us your news, events, publications and comments – the Bulletin is compiled by Communications Officer [Claire Mooney](#), who can be contacted on 0161 206 8161 or 0161 206 5110.

20 July 2016
V4 E7

Salford R+D oversees research and development on behalf of [Salford Royal NHS Foundation Trust](#).



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News

Muddy marvels raise more than £900 for cancer research

R+D staff braved the mud of Heaton Park to help find new ways to prevent and treat cancer.

A six-strong team took part in the Manchester [Pretty Muddy 5k](#), a muddy obstacle course through Heaton Park, and raised more than £900 for Cancer Research UK. Kathryn Fry, Kay Goulden, Jess Zadik, Diane Lomas, Vicky Thomas and Amy Barratt were the muddy marvels who completed the popular event on Saturday.

Kathryn said: “As an oncology research nurse, I see what a huge impact a diagnosis of cancer, and having treatment for cancer, can have on patients and their families. But I also get to see new treatments being given - treatments that initially are only available to patients as part of a trial, but then in time become available for all patients. We all wanted to take part in Race for Life so Cancer Research UK can fund more research, which will improve lives and outcomes for people living with cancer.”

You can still help the team with a donation by visiting their [JustGiving page](#) or search under the individual members’ names.

Warm welcome to Margaret

Margaret Cooper has joined the Salford R+D team on a temporary basis (following the departure of Rachel Georgiou) to help provide oversight of research. Margaret has considerable experience of leading research and is currently the Associate Director of Research Development and Innovation at University Hospital of South Manchester NHS Foundation Trust. She will be aiming to spend one day a week at Summerfield House with the Salford team for at least the next few months.

Prestigious fellowship for renal doctor

Renal doctor, S M Ammar Raza has been awarded a prestigious Kidney Research UK clinical training research fellowship to investigate kidney fibrosis.

Fibrosis – commonly known as scarring – features in most kidney diseases and can be caused by a variety of diseases, including diabetes, high blood pressure, obesity, infections, obstruction and various auto-immune conditions.

Dr Raza, who has been working in the Barnes Clinical Research Facility at Salford Royal, has now been awarded the fellowship to complete his PhD into the role of a molecule –SOX9 – in kidney fibrosis.

[Read more about his work on our website.](#)

Congratulations to new Professors

Congratulations to Craig Smith, who has been awarded an honorary chair by MAHSC and will become MAHSC Professor of Stroke Medicine from 1 August. Craig is currently a Consultant in Stroke Medicine at the Greater Manchester Neurosciences Centre, based at Salford Royal, and Honorary Senior Lecturer in the Centre for Stroke and Vascular Research at The University of Manchester. He is also Specialty Lead for stroke in Greater Manchester Clinical Research Network. Craig has contributed significantly to the implementation and delivery of hyperacute and acute stroke management, service development and clinical governance at Salford Royal and also nationally to the Intercollegiate Stroke Guidelines. Read more [here](#).

MAHSC has also awarded a chair to [Dr John New](#), Consultant Physician in Diabetes and Obesity at Salford Royal. He is the Chief Clinical Officer for NorthWest EHealth (NWEH), the NWEH Clinical Director of the Salford Lung Study (SLS) and an Honorary Lecturer at the University of Manchester.

Prof New is co-author on the Royal College of Physicians' guidance for the treatment of obesity and has presented at numerous national meetings about the effective treatments for weight loss in people with and without diabetes. Within Salford Royal he is involved in the insulin pump clinic and was appointed by the National Technology Appraisal Centre as one of two national specialists in insulin pump therapy. Later this year he will be speaking at the [World Congress on Clinical Trials in Diabetes](#) on reducing real time and costs in research.

Well done too to Dr Audrey Bowen, who will become Professor of Neuropsychological Rehabilitation at The University of Manchester from 1 August. She is currently the Stroke Association John Marshall Memorial Reader in Psychology at the University and Stroke Lead for the National Institute for Health Research CLAHRC Greater Manchester.

Her research focuses on stroke rehabilitation, specifically around improving services for people with neuropsychological impairments and communication difficulties. She conducts applied research projects aimed at improving the evidence base for providing care after stroke. She is currently co-editing the RCP Intercollegiate Stroke Working Party's National Clinical Guideline for Stroke (5th edition), due out this autumn.

Award for Kidney Information Network

Greater Manchester Kidney Information Network (GMKIN) was named Innovation Champion for Use of Social Media, sponsored by the Innovation Agency, at the North West Adult Learners in Health and Care Awards.

The joint venture between the Hope Patient Kidney Association and the University of Salford, GMKIN was set up in 2013 using social media as a strategy to engage patients to create and share information. There's more about the award [here](#).

Research in the news

Research into 'hidden' speech and language problems in children was covered by the [Manchester Evening News](#) on 1 July.

Children with social communication disorder (SCD) find it hard to understand and use language, especially in social situations. The Social Communication Intervention Programme (SCIP) has been developed by one of the UK's leading experts in the field, Dr Catherine Adams, and research speech and language therapist Jacqueline Gaile. The study will train NHS speech and language therapists in SCIP and test its effectiveness.

The research, funded by the National Institute for Health Research (NIHR) Research for Patient Benefit Programme, will also look at how many children in England are affected and what sort of help they are getting. The work is a collaboration between Salford Royal, the University of Central Lancashire, and The University of Manchester, where Dr Adams is clinical senior lecturer in speech and language therapy.

Latest from the Patient Safety Centre

The latest newsletter from the NIHR Greater Manchester Primary Care Patient Safety Translational Research Centre (PSTRC) includes an update on its partnership with the James Lind Alliance to identify the top 10 unanswered questions about primary care patient safety. You can read about this and other projects [here](#) or sign up [here](#) to receive future editions.

The PSTRC will also be repeating its award winning Wonderdrug Roadshow at Manchester Museum on 27 July from 6-9pm. Originally staged as part of the 2014 Manchester Science Festival, the roadshow showcases the work of the centre and promotes medication safety awareness alongside interactive activities.

Time to recognise our strengths and successes

These award schemes that could recognise and reward your and your colleagues' hard work and dedication are now open for entries:

- [QuDoS in MS Awards](#) (deadline 12 September)
- [Our Health Heroes Awards](#) (deadline 29 September)



Governance

Update on HRA Approval

During April and May the Health Research Authority (HRA) received high numbers of amendment submissions and requests for HRA Approval to be issued for pre-HRA Approval studies. This led to some delays. It is now dealing with the backlog and has issued an update about the actions it is taking. There is more about this on [our website](#) as well as on the [HRA website](#).



Engagement

Need help with recruitment?

Salford's pioneering Citizen Scientist project links local people with research that could be of interest to them.

It has a monthly emailed [Bulletin](#), [Facebook](#) page and [Twitter](#) account as well as a [website](#), all of which can be used to promote studies to potential participants, both patients and healthy volunteers. More than 3,000 people have registered with the project to say they are interested in taking part in research.

If you would like more information on recruiting through Citizen Scientist, please [email](#).

Involving Young People in Research: International Perspectives

This event at the Nowgen Centre, Manchester, on 26 July, 12-1.30pm, will offer a chance to hear about a range of approaches, including creative approaches, social media, and advisory groups. You can also have your say about how you would like to see young people more involved in research.

Speakers will include:

- Charlie Thompson - Global Lead, Paediatric Centre for Excellence, Pfizer
- Hadleigh Thompson - young person from the International Children's Advisory Network
- Bella Starling - Director of Public Programmes, Central Manchester NHS Trust and Wellcome Trust Engagement Fellow
- Nick Webb - Professor of Paediatric Nephrology and Director of the Manchester Children's Clinical Research Facility
- Jenny Preston – Generation R & Young People's Advisory Groups

The event is aimed at all those who are interested in health-related research with young people, including young people themselves. It's free to attend but you need to [register](#).

Exploring innovation

The NIHR Research Design Service North West (RDS NW) is holding a one day event to explore and share innovative and effective ways of involving members of the public in health and social care research.

The event, on 6 September, is for researchers and members of the public who are involved in health research in the North West. It runs from 9.30am-3.30pm in Manchester - to register and for more details [visit the event website](#).



Funding

Deadline for RfPB programme

The [NIHR Research for Patient Benefit \(RfPB\) programme](#) invites research proposals which are related to the day-to-day practice of health service staff and is concerned with having an impact on the health or well-being of patients and users of the NHS. RfPB welcomes applications on a wide range of issues and aims to fund high quality research that will be directed at achieving benefit for users of the NHS in England. The programme supports applications which have emerged from interaction with patients and the public, which relate to patient and service user experience, and which have been drawn up in association with a relevant group of service users. The closing date for the latest round is 3 August.



Training

Improving health by improving trials

This course aimed at health and research professionals, especially those aiming to become Chief Investigators, will be run by the North West Clinical Trials Collaborative at The University of Manchester. It will include trial design and conduct, recruitment of participants, patient and public involvement, analysis and reporting and health informatics and economics.

The Faculty includes Profs Peter Bower, Paula Williamson, Carrol Gamble, Bridget Young and Dyfrig Hughes. The course runs from 19-23 September and the course fee is £475. For more information or to apply for a place, email nwhtmr@liv.ac.uk

Infoshots 7: Keeping up to date

Salford Royal's library is running a training session on how to keep up to date with the latest research and developments in your area, from subscribing to journal table of contents bulletins to setting up search profiles using the databases.

The session, open to all Trust staff and students, is on Friday 26 August in the Trust Library. Sessions last 30 minutes and run from noon-12.30 and 12.30-1pm. To book your place visit www.salfordlearning.nhs.uk log on and click on 'SRFT Staff'-'Personal and Professional Development'-'Library Services'.

If you would like to arrange an alternative time or location for the training or need help booking onto a session contact [Outreach Librarian Jane Roberts](#) or call 0161 206 8411.



Events

[EFMC International Symposium on Medicinal Chemistry](#). This conference will cover drug discovery advances in major therapeutic areas, including the treatment of pain, central nervous system disorders, anti-infectives, ophthalmology, cardiovascular diseases and oncology. It runs from 28 August-1 September at Manchester Central.

[Health and Care Innovation Expo 2016](#). Speakers at this NHS England event at Manchester Central on 7 and 8 September include Simon Stevens, Prof Robert Wachter, Matthew Syed, Prof Sir Bruce Keogh, Jane

Cummings, Cally Palmer CBE and Dame Fiona Caldicott.

[Edinburgh International Conference of Medicine: Past, Present and Future](#). Salford Royal's Prof Simon Lal and Dr Tina Chryoschou will speak at this conference organised by the Royal College of Physicians of Edinburgh and the Society for Acute Medicine. It's on 12 and 13 September at Edinburgh International Conference Centre.

[Let's Talk Research](#). NHS R+D North West's annual conference is at the Royal Northern College of Music, Manchester, on 15 and 16 September. This year's theme is edge walking, exploring novel approaches to research, development and innovation. Speakers include Prof Caroline Watkins, Director of Research and Innovation at UCLan, Penny Clough MBE, Prof Ged Byrne, Director of Education and Quality at HEE North and Prof Sally Spencer from Edgehill University.

[Congress of the European Society of Contact Dermatitis](#). This will start with a pre-symposium on occupational skin disease organised with the Centre for Occupational and Environmental Health of The University of Manchester on 14 September. The meeting programme from 15-17 September will reflect areas of current scientific and clinical interest on all aspects of contact dermatitis and allergic skin disease. It takes place at Manchester Central.

[Diabetic Foot Integrated Care Conference](#). Diabetes UK is supporting this conference at Birchwood Park, Warrington on 15 and 16 September.

[Cancer Prevention and Early Detection Showcase](#). This MAHSC Cancer Domain event will emphasise the strategic importance of research into cancer prevention and early detection. It is open to all university and NHS researchers, including those not currently involved in cancer research. It runs from noon-7.30pm on 28 September at the Manchester Cancer Research Centre.

[Urgent and Emergency Care: Safer, Better, Faster](#). Speakers at this conference include Rick Stern from the Primary Care Foundation, Andrew Snell from Leeds Institute of Health Sciences and Prof Keith Willett, NHS England's Director for Acute Care. It's on 29 September at Manchester Conference Centre.

[International Technology Enabled Care Conference](#). The theme for this conference will be Connected Care, Connected Homes and Connected Communities. It's on 18 and 19 October at the International Convention Centre, Birmingham.

[DigiHealthUK: Transforming Healthcare Delivery](#). This conference will focus on how health services can bridge the gap between the current pressures on the system and the plans for the NHS to become a world leader in the development and use of technology in health and social care. It's on 20 October at Manchester Conference Centre.

[British Institute of Radiology Annual Congress](#). This conference will cover radiology, radiation oncology and the underlying sciences. It's on 3 and 4 November at Prospero House, London.

[International Severe Asthma Forum](#). The 3rd ISAF will bring together scientists and clinicians for a meeting dedicated to all aspects of severe asthma. It runs from 17-19 November at Hilton Manchester Deansgate.

[UK Stroke Forum 2016](#). Sir Bruce Keogh and Pam Enderby are among more than 90 expert speakers at this conference at ACC, Liverpool from 28-30 November.



Staff Updates

Congratulations to...

- Professor Gordon Carlson, Dr Mattias Soop, Dr Alison Pike and Dr Kalphesh Dixit, who have all contributed to the [Oxford Textbook of Fundamentals of Surgery](#), edited by William Thomas, Malcolm Reed and Michael Wyatt and published by Oxford University Press later this month. Prof Carlson and Dr Soop co-wrote the chapter on nutritional management of the surgical patient while

Dr Pike and Dr Dixit contributed to the chapter on principles of child protection and safeguarding, along with Hilary Smith.

- Professor Christian Hendriksz, who with Francois Karstens has contributed a chapter on mucopolysaccharidosis in adults to [Inherited Metabolic Disease in Adults, A Clinical Guide](#), edited by Carla Hollak and Robin Lachmann and published by Oxford University Press in September.

Vacancies

- [Senior Research Nurse, Core Clinical Research Team](#) – Band 6 (closing date 7 August)
- [R+D Finance Manager](#) – Band 6 (closing date 28 July)

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



Publications

Journals, articles, newsletters and blogs

- The latest MAHSC Bulletin, with updates on the recent delegation to the BIO International Convention and the 'One Manchester' bids for NIHR BRC and CRF funding, is available [here](#).
- Ann Webb, Saadia Aseem, Richard Kift, Lesley Rhodes, Mark Farrar: [Target the message: A qualitative study exploring knowledge and cultural attitudes to sunlight and vitamin D in Greater Manchester, UK](#) (British Journal of Dermatology).
- Margaret Cuffwright: [Asthma in the under-5s: A pragmatic approach to supporting families](#) (Journal of Health Visiting).
- Mumtaz Patel, Steven Agius, Jack Wilkinson, Leena Patel, Paul Baker: [Value of supervised learning events in predicting doctors in difficulty](#) (Medical Education).
- Christian Hendriksz, Rossella Parini, Moeenaldeen AlSayed, Julian Raiman, Paul Harmatz, et al: [Long-term endurance and safety of elosulfase alfa enzyme replacement therapy in patients with Morquio A syndrome](#) (Molecular Genetics and Metabolism).
- Danielle Nimmons, Emilia Michou, Maureen Jones, Neil Pendleton, Michael Horan, Shaheen Hamdy: [A longitudinal study of symptoms of oropharyngeal dysphagia in an elderly community-dwelling population](#) (Dysphagia).
- Michael Hughes, Jack Wilkinson, Tonia Moore, Joanne Manning, Paul New, Graham Dinsdale, Andrea Murray, Ariane Herrick: [Thermographic abnormalities are associated with future digital ulcers and death in patients with systemic sclerosis](#) (Rheumatology).
- Allard Hauer, Janneke van Beijnum, Peter Vandertop, Rene van den Berg, Patrick Brouwer, Jaap Kappelle, Ynte Ruigrok, Catharina Klijn: [Parental age and the occurrence of sporadic brain arteriovenous malformations](#) (International Journal of Stroke).
- Luca Masotti, Gianni Lorenzini, Paolo Pennati, Daniel Godoy, Aurel Popa-Wagner, Claude Hemphill, Adrian Parry-Jones, Reza Behrouz, Natalia Rost, Mario Di Napoli: [Clinical grading scales for predicting early neurological worsening in spontaneous intracerebral haemorrhage](#) (Stroke Research and Therapy).
- Jonathan Scargill, John Guy: [Validation of a locally derived serum calcium adjustment equation: Relationship with total 25\(OH\) vitamin D and PTH levels](#) (Journal of Clinical Pathology).
- Connie Wiskin, John Duffy, Katharine Weetman, John Skelton, Carole Swindells: [Mindset, confidence and skill: The impact of a development intervention](#) (British Journal of Healthcare Management).
- Alasdair Henry, Simon Kyle, Sahil Bhandari, Anna Chisholm, Christopher Griffiths, Christine Bundy: [Measurement, classification and evaluation of sleep disturbance in psoriasis: A systematic review](#) (PLOS One).
- Irene Rebollo-Mesa, Estefania Nova-Lamperti, Philip Kalra, Maria Hernandez-Fuentes, et al: [Biomarkers of tolerance in kidney transplantation – are we predicting tolerance or response to](#)

[immunosuppressive treatment?](#) (American Journal of Transplantation).

- Mutie Raslan, Sotonye Tolofari, Adam Bromby, Diogo Costa, Satish Maddineni, Alistair Cowie, Catherine O'Dwyer, Kieran O'Flynn: [Surveillance of Bosniak IIF renal cysts: Rationalising follow-up policy](#) (Journal of Clinical Urology).
- James Lilleker, Sean Murphy, Robert Cooper: [Selected aspects of the current management of myositis](#) (Therapeutic Advances in Musculoskeletal Disease).
- Sharon Hunt, Samantha Haycocks, Joanne McCardle, Karl Guttormsen: [Evaluating the effect of a haemoglobin spray on size reduction in chronic DFUs: Clinical outcomes at 12 weeks](#) (British Journal of Nursing).
- Selwa Elrouby, Mary Tully: [Using the Behaviour Change Wheel to identify interventions to facilitate the transfer of information on medication changes on electronic discharge summaries](#) (Research in Social and Administrative Pharmacy).
- Karina Lazarewicz, John Brockbank, Hector Chinoy: [Pheochromocytoma in association with focal dermatomyositis](#) (Rheumatology).
- Kayode Ogungbenro, Sharon Hulme, Nancy Rothwell, Stephen Hopkins, Pippa Tyrrell, James Galea: [Study design and population pharmacokinetic analysis of a phase II dose-ranging study of interleukin-1 receptor antagonist](#) (Journal of Pharmacokinetics and Pharmacodynamics).
- Raheela Gauhar, Jack Wilkinson, Jonathan Harris, Joanne Manning, Ariane Herrick: [Calcinosis preferentially affects the thumb compared to other fingers in patients with systemic sclerosis](#) (Scandinavian Journal of Rheumatology).
- Jonathan Ellenbogen, Mueez Waqar, Benedetta Pettorini: [Management of post-haemorrhagic hydrocephalus in premature infants](#) (Journal of Clinical Neuroscience).
- David Chambers, Allison Howells: [Neurological complications in obstetric regional anaesthesia](#) (Anaesthesia and Intensive Care Medicine).
- Christopher McDermott, Mike Bradburn, Chin Maguire, Cindy Cooper, Roger Ackroyd, Andrew Bentley, Stephen Bianchi, John Ealing, Hisham Hamdalla, Simon Galloway, Pamela Shaw et al: [DiPALS: Diaphragm Pacing in patients with Amyotrophic Lateral Sclerosis – a randomised controlled trial](#) (Health Technology Assessment).
- Matt Stevenson, Abdullah Pandor, Marrisona Martyn-St James, Rachid Rafia, Lesley Uttley, John Stevens, Jean Sanderson, Ruth Wong, Gavin Perkins, Ronan McMullan, Paul Dark: [Sepsis: The LightCycler SeptiFast Test MGRADE[®] Sepsitest[™] and IRIDICA BAC BSI assay for rapidly identifying bloodstream bacteria and fungi](#) (Health Technology Assessment).
- Ahmad Marzban, Ankur Saxena, Dev Bhattacharyya, Marcel Ivanov: [Hydrocephalus and papilledema in spinal cord tumors: A report of two cases](#) (The Surgery Journal).
- Maharajan Raman, Darren Green, Rachel Middleton, Philip Kalra: [Older people with chronic kidney disease: Definition and influence of biomarkers and medications upon cardiovascular and renal outcomes](#) (Journal of Renal Care).
- Qasim Akram, Michael Hughes, Lindsay Muir: [Coexistent digital gouty and infective flexor tenosynovitis](#) (BMJ Case Reports).
- Elhadi Aburawi, Murad Ghrew, Taufik Zoubeidi, Hani Benamer, Abdulbaset Elfituri, Hisham Ziglam, Ali Aboutwerat, Nabil Alagili, Samir Sagar, Hanan Aburawi, Reida El Oakley: [Applicability of the World Health Organization's Healthcare System Framework: A consensus development study in Libya](#) (Ibnosina Journal of Medicine and Biomedical Sciences).
- Sharfaraz Salam, Tatiana Mihalova, Andrew Ustianowski, David McKee, Rekha Siripurapu: [Relapsing CD8+ encephalitis – looking for a solution](#) (BMJ Case Reports).
- Angelos Kyriacou, Ermis Vogiazanos, Sunethra Ghattamaneni: [A critical reflection of British Thyroid Association \(BTA\) guidelines for the management of thyroid nodules and cancer](#) (Journal of Thyroid Disorders and Therapy).
- Teddy Wu, Oluwaseun Sobowale, Robert Hurford, Gagan Sharma, Soren Christensen, Nawaf Yassi,

Turgut Tatlisumak, Patricia Desmond, Bruce Campbell, Stephen Davis, Adrian Parry-Jones, Atte Meretoja: [Software output from semi-automated planimetry can underestimate intracerebral haemorrhage and peri-haematoma volumes by up to 41%](#) (Neuroradiology).

- Walayat Hussain, Andrew Affleck, Firas Ali-Niaimi, Raj Mallipeddi, et al: [Safety, complications and patients' acceptance of Mohs micrographic surgery \(MMS\) under local anaesthesia – results from the UK MAPS \(Mohs Acceptance and Patient Safety\) Collaboration Group](#) (British Journal of Dermatology).
- Anna Chisholm, Pauline Nelson, Christina Pearce, Alison Littlewood, Karen Kane, Alasdair Henry, Rachael Thorneloe, Matthew Hamilton, Jacqueline Lavalley, Mark Lunt, Christopher Griffiths, Lis Cordingley, Christine Bundy, on behalf of the Identification and Management of Psoriasis-Associated Comorbidity (IMPACT) Team: [Motivational interviewing-based training enhances clinicians' skills and knowledge in psoriasis: Findings from the Pso Well[®] study](#) (British Journal of Dermatology).
- Andrea Murray, Tonia Moore, Joanne Manning, Graham Dinsdale, Jack Wilkinson, Monica Bhushan, Christopher Griffiths, Ariane Herrick: [Non-invasive imaging of localised scleroderma for assessment of skin blood flow and structure](#) (Acta Dermato-Venereologica).
- Sharfaraz Salam, Tatiana Mihalova, Rekha Siripurapu: [Severe tumefactive rebound of multiple sclerosis following fingolimod cessation](#) (BMJ Case Reports).
- Sacha Gandhi, Helen Murphy, Mark Kellett, Rekha Siripurapu, Christopher Kobylecki: [Novel PTEN mutation with leukoencephalopathy, basal ganglia calcification and action tremor](#) (Parkinsonism and Related Disorders).
- Rajani Nalluri, Lesley Rhodes: [Photoaggravated pompholyx](#) (Photodermatology Photoimmunology and Photomedicine).
- Michael Fairclough, Christian Prenant, Beverley Ellis, Herve Boutin, Adam McMahon, Gavin Brown, Pietro Locatelli, Anthony Jones: [A new technique for the radiolabelling of mixed leukocytes with zirconium-89 for inflammation imaging with positron emission tomography](#) (Journal of Labelled Compounds and Radiopharmaceuticals).
- Qasim Akram, Michael Hughes, Subhasis Basu: [A case of severe knee enthesitis on MRI as an initial presentation of enteropathic arthritis](#) (Indian Journal of Rheumatology).
- Ana Gimenez-Arnau, Elias Toubi, Alexander Marsland, Marcus Maurer: [Clinical management of urticaria using omalizumab: The first licensed biological therapy available for chronic spontaneous urticaria](#) (Journal of the European Academy of Dermatology and Venereology).
- Anna Chisholm, Christina Pearce, Hector Chinoy, Richard Warren, Christine Bundy: [Distress, misperceptions, poor coping and suicidal ideation in psoriatic arthritis: A qualitative study](#) (Rheumatology).
- Martyn Dibb, Arun Abraham, Paul Chadwick, Jon Shaffer, Antje Teubner, Gordon Carlson, Simon Lal: [Central venous catheter salvage in home parenteral nutrition catheter-related bloodstream infections: Long-term safety and efficacy data](#) (Journal of Parenteral and Enteral Nutrition).
- Karl Guttormsen, Lisa Smith: [What is an ankle brachial pressure index?](#) (Wounds UK).
- Trisha Barker, Samantha Haycocks, Paul Chadwick, Jill Halstead-Rastrick: [The use of focus rigidity casts as pressure-relieving devices for foot wound healing](#) (Diabetic Foot Journal).
- Paul Chadwick, Samantha Haycocks: [Mepilex[®] Border Heel and the treatment of foot ulcers: a case series](#) (Diabetic Foot Journal).
- Zolt Zador, Matthew Sperrin, Andrew King: [Predictors of outcome in traumatic brain injury: New insight using receiver operating curve indices and Bayesian network analysis](#) (PLOS One).
- Benjamin Bray, Geoffrey Cloud, Martin James, Harry Hemingway, Lizz Paley, Kevin Stewart, Pippa Tyrrell, Charles Wolfe, Anthony Rudd: [Weekly variation in health-care quality by day and time of admission: A nationwide, registry-based, prospective cohort study of acute stroke care](#) (Lancet).
- Benjamin Bray, Craig Smith, Geoffrey Cloud, Pam Enderby, Martin James, Lizz Paley, Pippa Tyrrell, Charles Wolfe, Anthony Rudd: [The association between delays in screening for and assessing](#)

[dysphagia after acute stroke, and the risk of stroke-associated pneumonia](#) (Journal of Neurology, Neurosurgery and Psychiatry).

- Danny Meetoo, Louise Wong, Sabah Alsomali: [Pharmacological options for managing type 2 diabetes](#) (Nurse Prescribing).
- Paolo Fraccaro, Sabine van der Veer, Benjamin Brown, Mattia Prospero, Donal O'Donoghue, Gary Collins, Iain Buchan, Niels Peek: [An external validation of models to predict the onset of chronic kidney disease using population-based electronic health records from Salford, UK](#) (BMC Medicine).

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

How to submit articles

R+D Bulletin is published on the third Wednesday of each month. Please submit articles to claire.mooney@manchester.ac.uk by close of play on the preceding Monday.

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