

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.

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Salford R+D is an integrated service overseeing research and development on behalf of [Salford Royal NHS Foundation Trust](#) and [Salford Clinical Commissioning Group](#).



@SalfordRD



News

Discover the DEPEND project into patient feedback

Dr Caroline Sanders will give an overview of her new research looking at how patient feedback can be collected, analysed and used to help improve NHS services when she gives Salford R+D's latest seminar on 27 April.

Patients have helped to plan DEPEND (Developing and Enhancing the Usefulness of Patient Experience and Narrative Data), which aims to build on the way the health service already uses surveys and other feedback, such as the Friends and Family Test. The two-year project will focus on two patient groups and their carers – people with serious mental illness, such as schizophrenia, and people with musculoskeletal conditions, such as arthritis.

The work is a joint project between The University of Manchester, Salford Royal and Manchester Mental Health and Social Care Trust and is funded by the National Institute for Health Research's Health Service and Delivery Research programme.

Dr Sanders' seminar is on 27 April, noon-1pm, in Seminar Rooms 1 and 2, Mayo Building, Salford Royal. Register [here](#).

Researchers flying the flag for city

Two of Salford's leading researchers have been named as Mbassadors - Global Ambassadors for Manchester.

Professors Martin Gibson and Iain Buchan are among 14 business leaders and academics who will use their strong global networks to advance Manchester's international profile. They will highlight the city and the opportunities it offers through the media, meetings and conferences.

Read the full story on www.salfordresearch.org.uk and see more about the Mbassadors programme [here](#).

Associate Director of R and D returns to her research roots

After 16 years of working within research management at Salford Royal, our Associate Director of Research and Development is moving back to a hands-on research role. Rachel Georgiou will be taking up a post as Senior Research Fellow at the University of Central Lancashire in May. She said: "My new role will be a new challenge for me. I'm looking forward to returning to work on stroke care, which is where my passion for research arose."

Rachel joined the Salford R+D team in November 2007 and has contributed to the expansion of research activity within Salford Royal and the supporting team. Plans are in place to appoint to the role and ensure an effective transition.

Trust Executive Medical Director Dr Chris Brookes said: "Rachel has made a major contribution to the

development of research in Salford Royal during her time at the Trust and she has helped many people establish their research. I am sure there will be many who will want to personally thank Rachel for all the support she has provided over the years. Although Rachel will be sadly missed, we will ensure that research across Salford continues to form a critical component of Trust activity and we will look for new ways to work more closely with our colleagues across the Greater Manchester health landscape.”

7,000+ sign up for pain research

More than 7,000 people signed up to take part in Cloudy with a Chance of Pain, the world's first smartphone-based study to investigate the association between pain and the weather, in just over a week.

The study is led by Dr Will Dixon, Honorary Consultant Rheumatologist at Salford Royal and Director of The University of Manchester's Arthritis Research UK Centre for Epidemiology. He's been much in demand for TV and media appearances, with coverage including BBC Breakfast, [ITV News](#), [The Independent](#), [Daily Mail](#) and [Daily Express](#), among others.

The research is supported by Arthritis Research UK, uMotif in London, and the Office for Creative Research in New York. It is being carried out in association with The University of Manchester's Health e-Research Centre. The app and further information are available [here](#).

Network gives support to programme managers

Do you manage a health or social care research project or programme grant? Are you based in the North-West? Do you want to be part of a supportive network?

The Research Programme Managers' Network (RPMN) has been developed to support effective research management for project and programme managers working within health and social care research.

Aims and objectives of the RPMN include:

- Providing a network of support for Programme Managers across North West England
- Sharing good practice
- Discussing and evaluating new working procedures
- Constructively discussing challenges within grant management
- Establishing a shared competency framework to measure professional development

It meets bi-annually with guest speakers and training courses arranged throughout the year. If you are interested in joining this network please contact [Alison Littlewood](#) or [Charlie Stockton-Powdrell](#).

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:

- [HSJ Value in Healthcare Awards](#) (deadline 19 February)
- [NICE Shared Learning Awards](#) (deadline 26 February)
- [Patient Safety Awards](#) (deadline 18 March)
- [European Society of Intensive Care Medicine Awards](#) (deadline 2 May)

Digital magazine focuses on careers

A new national NHS project aims to develop a digital online publication designed especially for healthcare professionals starting out on their research journey.

[Health Education England](#) (HEE) is funding [NHS R&D North West](#) to work with early career researchers and playwright Rob Young to develop three editions of 'The Researcher' over the coming year. Drawing from a bank of stories, news and content, The Researcher will focus on communicating, in an engaging, energising and innovative way, the backstories from research and researchers.



Governance

HRA Approval update

Implementation of HRA Approval continues, with clinical trials and clinical investigations taking place in secondary care in the NHS being added to the process by the end of March. This means HRA Approval will

be the route for submission and approval for all new studies in England, and the NIHR Coordinated System for gaining NHS Permission (CSP) will be closed for all new applications. Also from the end of March, the combined HRA form on IRAS will be adopted UK wide and a new format for site information will be provided for the UK. There will be no requirement to submit Site Specific Information (SSI) forms.

Non-commercial single site studies taking place in the NHS in England where that organisation is also the study sponsor will come under HRA Approval by the end of March too. For these, a reduced site information set will be used as the NHS organisation will address its own requirements as a site while setting up the study.

[Guidance for applicants](#) has been updated, and researchers should read through this carefully before making any applications. Any questions regarding HRA Approval at Salford Royal should be directed to [Natalie Garratt](#), R+D Lead.

It is essential that researchers do not start their research at Salford Royal until they have received confirmation from Salford R+D that they can do so.



Engagement

Wellcome Trust funding for the Engagement Team

Congratulations to Jess Zadik, our Engagement in Research Manager, who in partnership with Fiona Foster, the Centre Support Manager at the Manchester Collaborative Centre for Inflammation Research, has secured funding from the Wellcome Trust for an innovative project working with young people.

The aim of the project is to increase awareness and understanding of health-based research by using visual art to explore the science behind the research and provide patients with a voice to explain the impact of research on their lives. Over a five-month period, and in partnership with researchers, visual artists and patients, students from St Ambrose Barlow RC High School in Swinton will be developing a range of visual images which will be used to engage members of the public in research.

You can follow their progress on our [website](#) and through Twitter, where we are using the hashtag #Artinresearch

Help with patient involvement

Need advice with patient and public involvement in your research? Ready to recruit into your study but worried about getting enough participants? Did you know Salford R+D has its own Engagement team which can offer practical help and advice?

As well as that, the [Citizen Scientist](#) project has signed up more than 3,000 people who have asked to be kept informed about opportunities to take part in research – as patients or healthy volunteers.

For advice on PPI, contact [Engagement in Research Manager Jess Zadik](#) or to get your research opportunity promoted, contact [Citizen Scientist Project Manager Francine Jury](#).



Funding

Policy Research Programme calls

The Department of Health Policy Research Programme is inviting applications in these areas:

- Supporting a culture of openness in the NHS – a policy evaluation
- Creating dementia friendly communities – a policy evaluation

There's more information [here](#) and the closing date is 1 March.

NIHR puts emphasis on obesity

The National Institute for Health Research has issued a call for research into interventions or services for the prevention and treatment of obesity in adults and children, including the prevention of type 2 diabetes and increasing levels of physical activity.

The NIHR welcomes applications for new research to:

- Evaluate the effectiveness of new, promising or existing interventions
- Support the translation of effective interventions into practice
- Improve adherence to individual, family or group health behaviour interventions or treatments
- Investigate the durability of effect, or undertake longer term follow up of pre-existing research for existing interventions

For more information and to apply, visit the [NIHR Themed Calls website](#).



Training

Human Tissue Act and research

EPR Programme and Development Manager Rob Oliver will be hosting a session on the Human Tissue Act, covering the requirements of the Human Tissue Act and how these apply to conducting research with human tissue. It takes place on Wednesday 24 February, 10-11am, in Catherine Chisholm Meeting Room, Summerfield House, Salford Royal. Book [here](#).

Involving patients and the public in your research

Researchers with little or no experience of patient and public involvement (PPI) are invited to a one-hour webinar aimed at aspiring NIHR trainees and early career researchers. The session at 11am on Tuesday 23 February will cover:

- An overview of what PPI is and why it is important in research (Philippa Yeeles, Director of Involvement and Engagement at NIHR Central Commissioning Facility)
- Why PPI is important to the NIHR and how best to demonstrate PPI in an application - including signposts to NIHR resources around PPI (Anne-Laure Donsky, NIHR Panel Member and Independent Researcher)

There will also be a question and answer session. Sign up [here](#).

Innovation Leadership Development Programme

NHS R&D NW and Health Education North West have developed an [innovative leadership development programme](#) to equip leaders and managers to lead and develop cultures of research and innovation in their services. The programme of four linked one-day workshops will run in Preston from March to June. It is aimed at service managers working at band 8a and above (band 7 if you have a team of more than 10 people) and is funded by Health Education North West. For more information, contact [Leanne Gregory](#).

NHS R&D NW also has a [masterclass](#) (free for NHS staff in the North West) looking at resilience and self-leadership in research on 21 March at The Place Hotel, Manchester.

Infoshots at Salford Royal Library

Librarians at Salford Royal run regular short sessions offering a snapshot of the services provided. Infoshot sessions run from noon-12.30pm and 12.30-1pm in the IT Training Rooms at the Library in Mayo Building.

- Discovery Tool: Discover the evidence – 17 March
- Searching for full text journal articles – 19 April
- Developing a search strategy – 20 May
- Introduction to NICE Evidence Search – 30 June
- Going beyond Google – 27 July
- Keeping up-to-date – 26 August
- How to reference – 21 September

To book a place, visit www.salfordlearning.nhs.uk or to arrange an alternative time contact Outreach Librarian [Jane Roberts](#) on 0161 206 8411.



Events

[Service development to improve health outcomes for adolescents and young adults in Greater Manchester.](#)

This workshop will identify common themes in order to create a 'blueprint' for what constitutes an

adolescent and young adult-friendly service and how this could be evaluated. It's on 24 February, 12.30-4.30pm, at Manchester Conference Centre, Sackville Street.

[Digital Healthcare Revolution: Harnessing NHS Technology](#). Technology will have a major role in new ways of delivering care according to NHS England's Five Year Forward View. This conference will showcase a number of initiatives and examples of best practice from the health and social care system. It's on 25 February at Royal National Hotel, London.

[Cambridge Trauma Conference](#). Profs Tim Coats and Chris Moran are the keynote speakers at this conference from 2-4 March at the Moller Centre, Cambridge.

[Advances Against Aspergillosis](#). This international conference is a forum for discussion of all aspects of aspergillus infection and research. It runs from 3-5 March at Manchester Central.

[Alzheimer's Research UK Conference](#). This event will deliver the latest findings from across the breadth of biomedical dementia research, and forge collaborations with UK and international researchers. It takes place on 8 and 9 March at Manchester Town Hall.

[The Changing Prospects for Cancer – A Good Survival](#). Topics to be discussed at this conference include translating projects into mainstream practice and emerging issues and developments. It takes place on 11 March at Emirates Old Trafford.

[NHS Five Year Plan: Responding to the Prevention Challenge](#). This conference will explore how to make the NHS sustainable by incentivising and supporting healthier lifestyles. It's on 22 March at Royal National Hotel, London.

[Dementia 2020](#). Prof Alistair Burns, Gillian Leng from NICE and Martin Rossor, the National Director for Dementia Research at the NIHR, are among the speakers at this conference at Church House, London, on 12 April.

[Trauma Care Conference: From Roadside to Rehab](#). This 17th international Trauma Care conference runs from 17-21 April at Yarnfield Park Conference Centre, Stone.

[R+D Forum Conference](#). This year's annual forum held in association with the Health Research Authority takes place on 23 and 24 May in Stratford-on-Avon. Salford R+D's PPI Coordinator Philip Hammond and Communications Officer Claire Mooney will be there to lead a training session on using social media to promote research.

[World Research Congress of the European Association for Palliative Care](#). This conference will include sessions on optimum methodology in cancer pain studies and mortality followback surveys in end of life care research, among others. It's from 9-11 June in Dublin.

[Patient Safety Congress and Awards](#). The ninth Patient Safety Congress is at Manchester Central on 5 and 6 July.

[24th Biennial European Association for Cancer Research Congress](#). Europe's largest dedicated conference on basic and translational research runs from 9-12 July at Manchester Central.

[UK Clinical Research Facilities Network Conference](#). This event will support the CRF community to innovate and maximise the impact and contribution made by them to experimental medicine in all disease areas. It will focus on precision medicine and how research facilities and their infrastructure support this. It's on 11 and 12 July at the Royal Northern College of Music, Manchester. It's using the Twitter hashtag [#crfconf16.#](#)

[Health Services Research UK Symposium](#). HSRUK is the collective voice for health services research in policy and practice. Its ninth annual event takes place on 13 and 14 July at Nottingham Conference Centre.

[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 Convention Complex.

[Health and Care Innovation Expo 2016](#). Save the date for this NHS England event at Manchester Central on 7 and 8 September.

[Congress of the European Society of Contact Dermatitis](#). This will start with a presymposium 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 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.

[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.



Staff Updates

Congratulations to...

- Kevin Johnson and Debra Morris, Senior Clinical Pharmacists at Salford Royal, who contributed to the second edition of [Clinical Pharmacy Pocket Companion](#), published by Pharmaceutical Press.
- Christopher Griffiths, Honorary Consultant Dermatologist at Salford Royal, who has updated and expanded the International League of Dermatological Societies' [glossary for the description of cutaneous lesions](#) as one of a five-strong international committee working with nearly 50 worldwide member societies.

Vacancies

- [CLAHRC Project Manager](#) - Band 7 (Closing date 24 February).
- [CLAHRC Nurse Facilitator](#) – Band 6 (Closing date 28 February).

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



Publications

Journals, articles, newsletters and blogs

- Audrey Low, Mark Lunt, Louise Mercer, Kath Watson, William Dixon, Deborah Symmons, Kimme Hyrich: [Association between ischaemic stroke and tumour necrosis factor inhibitor therapy in patients with rheumatoid arthritis](#) (Arthritis and Rheumatology).
- Jamie Willson, Seb Thomas, Strachan Mackenzie, Alice Armitage, Soumen Sen, William Ratliff, Arti Patel, Sarasvati Chauhan, Gregory Tarr, et al: [Recording inpatient weight: Implications for medicines administration](#) (British Journal of Nursing).
- Paul McCabe, Stephen Pye, John McBeth, David Lee, Abdelouahid Tajar, Gyorgy Bartfai, Steven Boonen, Roger Bouillon, Felipe Casanueva, Joseph Finn, Gianni Forti, Aleksander Giwercman, Ilpo Huhtaniemi, Krzysztof Kula, Neil Pendleton, Margus Punab, Dirk Vanderschueren, Frederick Wu, Terence O'Neill, for the EMAS Study Group: [Low vitamin D and the risk of developing chronic widespread pain: Results from the European male ageing study](#) (BMC Musculoskeletal Disorders).
- Grant Mair, Rudiger von Kummer, Zoe Morris, Gillian Potter, Joanna Wardlaw, et al and for the IST-3 Collaborative Group: [Effect of alteplase on the CT hyperdense artery sign and outcome after ischemic stroke](#) (Neurology).
- Shazia Hafiz, Nicholas Lees: [Coordinating perioperative care for the 'high risk' general surgical patient using risk prediction scoring](#) (Journal of Perioperative Practice).
- Richard Needham, David Waring, Ovais Malik: [Invisalign treatment of Class III malocclusion with lower-incisor extraction](#) (Journal of Clinical Orthodontics).
- Sarah Brook: [Oral nutritional supplements: an integral part of malnutrition treatment](#) (British Journal of Community Nursing).
- Lorcan McGarvey, Amanda Lee, June Roberts, Kevin Gruffydd-Jones, Eddie McKnight, John Haughney: [Characterisation of the frequent exacerbator phenotype in COPD patients in a large UK primary care population](#) (Respiratory Medicine).

- Nathalie Rommel, Shaheen Hamdy: [Oropharyngeal dysphagia: Manifestations and diagnosis](#) (Nature Reviews Gastroenterology and Hepatology).
- Alexis Kyriacou, Josie Evans, Nicholas Economides, Angelos Kyriacou: [Adherence to the Mediterranean diet by the Greek and Cypriot population: A systematic review](#) (European Journal of Public Health).
- Barbara Burton, Patrick Deegan, Gregory Enns, Reena Sharma, Vassili Valayannopoulos, Anthony Quinn, et al: [Clinical features of lysosomal acid lipase deficiency](#) (Journal of Pediatric Gastroenterology and Nutrition).
- Adrian Heald, Kyaw Sein, Simon Anderson, John Pendlebury, Mark Guy, Narayan Vinesh, Martin Gibson, Peter Haddad, Mark Livingston: [Diet, exercise and the metabolic syndrome in schizophrenia: A cross-sectional study](#) (Schizophrenia Research).
- Paul Chadwick, Andrew Findlow: [Understanding the role of a monofilament fibre debridement pad in the management of diabetic foot ulcers](#) (Diabetic Foot Journal).
- Ross Atkinson, Lubna Fikrey, Anna Jones, Catherine Pringle, Hiren Patel: [CSF infection associated with silver impregnated EVD catheters](#) (World Neurosurgery).
- Richard Robinson, Campbell Tait, Pavlo Somov, Maurice Lau, Vijay Sangar, Vijay Ramani, Noel Clarke: [Estimated glomerular filtration rate is unreliable in detecting renal function loss during follow-up after cystectomy and urinary diversion](#) (International Urology and Nephrology).
- Matthew Sperrin, Helen Rushton, William Dixon, Alexis Normand, Joffrey Villard, Angela Chieh, Iain Buchan: [Who self-weighs and what do they gain from it? A retrospective comparison between smart scale users and the general population in England](#) (Journal of Medical Internet Research).
- Helen Ray-Jones, Stephen Eyre, Anne Barton, Richard Warren: [One SNP at a time: Moving beyond GWAS in psoriasis](#) (Journal of Investigative Dermatology).
- Valerie Ludbrook, Michael Binks, Paul Wilson, Kristian Reich, Christopher Griffiths, et al: [Investigation of a selective JAK1 inhibitor GSK2586184 for the treatment of psoriasis in a randomised placebo-controlled Phase 2a study](#) (British Journal of Dermatology).
- Mohammed Elmajee, Anand Pillai: [Review article of corticosteroid injections use in acute and chronic lateral epicondylgia – an update of the currently available literature](#) (Orthopedic and Muscular System).
- Basma Issa, Laura Ormesher, Peter Whorwell, Mrinal Shah, Shaheen Hamdy: [Endometriosis and irritable bowel syndrome: A dilemma for the gynaecologist and gastroenterologist](#) (The Obstetrician and Gynaecologist).
- Simon Turner, Angus Ramsay, Catherine Perry, Ruth Boaden, Christopher McKeivitt, Stephen Morris, Nanik Pursani, Anthony Rudd, Pippa Tyrrell, Charles Wolfe, Naomi Fulop: [Lessons for major system change: Centralization of stroke services in two metropolitan areas of England](#) (Journal of Health Services Research and Policy).
- Anthony Kehoe, Jason Smith, Omar Bouamra, Antoinette Edwards, David Yates, Fiona Lecky: [Older patients with traumatic brain injury present with a higher GCS score than younger patients for a given severity of injury](#) (Emergency Medicine Journal).
- Benjamin Davies, Elizabeth Carr, Calvin Soh, Kanna Gnanalingham: [Assessing size of pituitary adenomas: A comparison of qualitative and quantitative methods on MR](#) (Acta Neurochirurgica).
- Joanne Taylor, Oliver Gaillemine, Amy Pearl, Sean Murphy, Jennifer Fox: [Embedding comprehensive geriatric assessment in the emergency assessment unit: The impact of the COPE zone](#) (Clinical Medicine).
- Liezel Griffin, Faisal Ali, John Lear: [Non-melanoma skin cancer](#) (Clinical Medicine).
- Christopher Kobylecki, Monty Silverdale, Jeremy Dick, Mark Kellett, Andrew Marshall: [Dystonia associated with idiopathic slow orthostatic tremor](#) (Tremor and Other Hyperkinetic Movements).
- Rajani Nalluri, Matthew Harries: [Alopecia in general medicine](#) (Clinical Medicine).
- Christopher Hamilton, Craig Carroll: [Strategies to avoid intraoperative blood transfusion](#) (Anaesthesia and Intensive Care Medicine).
- Isabel Lavers: [Management of post-acne scarring in the medical aesthetic clinic](#) (Journal of Aesthetic Nursing).
- R Smith, Harry Hebert, Jonathan Massey, John Bowes, Helena Marzo-Ortega, Pauline Ho, Neil

McHugh, Jane Worthington, Anne Barton, Christopher Griffiths, Richard Barton: [Association of Toll-like receptor 4 \(TLR4\) with chronic plaque type psoriasis and psoriatic arthritis](#) (Archives of Dermatological Research).

- Fiona McGill, Ray Borrow, Oliver Gaillemain, Tom Solomon, et al: [The UK joint specialist societies guideline on the diagnosis and management of acute meningitis and meningococcal sepsis in immunocompetent adults](#) (Journal of Infection).
- Tsui Ling, Timothy Clayton, Jennifer Crawley, Luke Exton, Victoria Goulden, Sally Ibbotson, Kevin McKenna, Firouz Mohd Mustapa, Lesley Rhodes, Robert Sarkany, Robert Dawe: [British Association of Dermatologists and British Photodermatology Group guidelines for the safe and effective use of psoralen-ultraviolet A therapy 2015](#) (British Journal of Dermatology).
- Bruce Strober, Christopher Griffiths, Steve O'Dell, Paul Tebbey, Jonathan Barker: [Prioritizing the global research agenda in psoriasis: An International Psoriasis Council Delphi consensus exercise](#) (British Journal of Dermatology).
- Jack Mann, Firas Al-Niimi, Amanda Cooper, Vindy Ghura: [A national survey of Mohs micrographic surgery in the UK](#) (British Journal of Dermatology).
- David van Dellen, Muneer Junejo, Hussein Khambalia, Babatunde Campbell: [Transposition of brachiobasilic arteriovenous fistulae: Improving the cosmetic effect without compromising patency](#) (Annals of the Royal College of Surgeons of England).
- Levente Bodoki, Melinda Nagy-Vincze, Zoltan Griger, Zoe Betteridge, Laszlone Szollosi, Ravi Jobanputra, Katalin Danko: [Rare myositis-specific autoantibody associations among Hungarian patients with idiopathic inflammatory myopathy](#) (Acta Reumatologica Portuguesa).
- Mark Kraus, Philip Kalra, John Hunter, Jose Menoyo, Nicole Stankus: [The prevalence of vascular calcification in patients with end-stage renal disease on hemodialysis: a cross-sectional observational study](#) (Therapeutic Advances in Chronic Disease).
- Muhammad Almamun, Appu Suman, Syed Arshad, Sonni Kumar: [A case of midbrain and thalamic infarction involving artery of Percheron](#) (Journal of Clinical Medicine).
- Theresa Lawrie, Brett Winter-Roach, Pauline Heus, Henry Kitchener: [Adjuvant \(post-surgery\) chemotherapy for early stage epithelial ovarian cancer](#) (Cochrane Database of Systematic Reviews).
- Matthew Harwood, Brahim Achour, Sibylle Neuhoff, Matthew Russell, Gordon Carlson, Geoffrey Warhurst, Amin Rostami-Hodjegan: [In vitro-in vivo extrapolation scaling factors for intestinal P-glycoprotein and breast cancer resistance protein: Part II. The impact of cross-laboratory variations of intestinal transporter relative expression factors on predicted drug disposition](#) (Drug Metabolism and Disposition).
- Karolina Stepien, Christian Hendriksz, Mark Roberts, Reena Sharma: [Observational clinical study of 22 adult-onset Pompe disease patients undergoing enzyme replacement therapy over five years](#) (Molecular Genetics and Metabolism).
- Simon Stanworth, Ross Davenport, Nicola Curry, Frances Seeney, Simon Eaglestone, Antoinette Edwards, Kate Martin, Shubha Allard, Maralyn Woodford, Fiona Lecky, Karim Brohi: [Mortality from trauma haemorrhage and opportunities for improvement in transfusion practice](#) (British Journal of Surgery).
- Homer Black, Lesley Rhodes: [Potential benefits of omega-3 fatty acids in non-melanoma skin cancer](#) (Journal of Clinical 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.

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