

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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V4 E1

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



@SalfordRD



News

TV showcase for Cloudy with a Chance of Pain

For hundreds of years, people have wondered if the weather affects their symptoms of pain. Cloudy with a Chance of Pain is the world's first smartphone-based study to investigate this – and you can find out more about it during BBC 2's [Trust Me, I'm A Doctor](#) show tonight (8pm).

This innovative project – which aims to collect data from thousands of people - will be conducted by The University of Manchester using the uMotif health management platform and supported by Arthritis Research UK and other key partners. The Principal Investigator is Dr Will Dixon, who is Honorary Consultant Rheumatologist at Salford Royal as well as Director of the Arthritis UK Centre for Epidemiology at The University of Manchester.

The project is due to launch today, 20 January, and you can find out more on its [website](#) as well as following Will and the team on Twitter [@CloudyPain](#).

Greater Manchester Research Hub launched

The Manchester Academic Health Science Centre (MAHSC) partners – which include Salford Royal and NHS Salford CCG - have agreed a proposal to create a Greater Manchester Research Hub. MAHSC is leading the establishment of this Hub on behalf of Health Innovation Manchester. Health Innovation Manchester was launched in September, as one of the early Devo Manc priorities.

The Greater Manchester Research Hub will create a single entry portal into Greater Manchester to enable an integrated approach for delivering research. Through this it will be able to:

- Provide better and more innovative care for our patients
- Practise world leading innovation
- Accelerate the overall development pathways for medicines and other health interventions

There is more information on the [MAHSC website](#) and you can find out more in the Research Hub's monthly [newsletter](#).

Getting muddy for a good cause

Salford R+D will have a team in this July's Manchester [Pretty Muddy 5k](#), a muddy obstacle course through Heaton Park raising money for Cancer Research UK.

Oncology Research Nurse Kathryn Fry and Senior Clinical Trials Administrator Kay Goulden have organised a group entry for the event at 10.30am on Saturday 16 July. If you'd like to join the fun, you can enter [here](#) - when completing the form, please click that you would like to join an existing group. The group ID is **TW5322** and group name **Salford R and D**. Please note this is a women-only event.

If getting muddy isn't for you, you can get involved by supporting our team's fundraising efforts through their [JustGiving page](#).

Warm glow from festive fundraising

Many thanks to everyone who wore a Christmas jumper to work on 18 December and made a donation to the [Text Santa](#) campaign. Our collection raised £72.80, which with Gift Aid added gave us a grand total of £91. The three charities the campaign supports are Macmillan Cancer Support, Make-A-Wish UK and Save the Children and nationally it raised £8.5M.

Leadership diploma for Rachel

Congratulations to Rachel Georgiou, Associate Director of R+D, for successfully completing the [Elizabeth Garrett Anderson Programme](#) with the NHS Leadership Course. Rachel has been awarded a Post Graduate Diploma in Clinical Leadership from the University of Birmingham and will graduate (again!) later this year.

She said: “The course has been challenging and I have learnt a great deal about leadership in the NHS which has had a direct impact on my role. I would encourage others to seek out opportunities with the Academy as the resources they offer are relevant to everyone working in the NHS.”

Plan ahead for 2016

Please put these dates in your new 2016 diary:

- 27 April, noon-1pm Research Seminar – Dr Caroline Sanders on the DEPEND project, looking at how to collect patient feedback and use it to improve services for people with long-term conditions
- 12 May International Nurses Day – this year’s theme is ‘A force for change: Improving health systems’ resilience’
- 20 May International Clinical Trials Day
- 20 June, 5.30-7pm [Professorial Lecture](#) – Professor Neil Pendleton on current topics in human ageing
- 23-27 July [Euroscience Open Forum](#) and [Festival](#) 2016 (part of European City of Science Manchester 2016)
- 6 October Salford Research Day

NIHR puts focus on obesity

The National Institute for Health Research (NIHR) Clinical Research Network (CRN) has launched ‘The BIG Challenge’ - a spotlight on obesity campaign.

Latest figures show that obesity levels in the UK have tripled in the last 30 years. The BIG Challenge will raise awareness among patients, NHS staff and the public of the potential benefits of clinical research in relation to obesity and showcase some of the 43 obesity studies being supported by the NIHR.

[The BIG Challenge](#) site highlights progress in tackling obesity as a result of NIHR studies, and includes patient and researcher case studies, stories and videos about experience in obesity research.

The NIHR has also put out a national themed research call for new obesity-related clinical research studies - there are more details in the funding section of this Bulletin.

Dr Jonathan Sheffield, Chief Executive of the NIHR Clinical Research Network, believes clinical research can help to reframe the debate: “Clinical research will play a vital role in developing better and more cost effective treatments for people who are obese. Crucially, it also looks at the reasons for weight gain, which can help us address long-term solutions for the causes and development of the condition.”

Chance to join improvement science programme

[Haelo’s](#) Improvement Science for Academics (IS4Ac) programme seeks to close the gap between research and clinical practice by skilling and supporting teams in Improvement Science, with their work focused around a locally determined improvement project (which aligns to the MAHSC domains strategies).

Participants and their team of up to five people get together on three occasions over a year to learn from experts in improvement science. Each project is expected to result in publication in a peer reviewed journal and, wherever possible, a proposal for grant income. There is no cost for the programme but agreement from the host Trust is needed for staff to be released for the workshops and for time to work on the project.

The deadline for applications is Friday 29 January, with the first workshop in May.

For further information, see the IS4Ac news [article](#) on the Haelo website and the IS4Ac [application page](#).

Urology group hopes for more recruits onto 'benign' research trials

Specialists have established a Greater Manchester Local Clinical Research Benign Urology sub group within the renal disorders specialty of the National Institute for Health Research Clinical Research Network: Greater Manchester - the first of its kind in the country.

High numbers of patients with urological cancer are recruited into important national uro-oncology trials, but this is not the case for urology patients with non-malignant urological conditions. The group aims to change this by raising awareness of urology research and improving the availability of accessible information. Members also hope to speed up the process of translation into diagnosis, therapy and prognosis.

NIHR CRN: GM Urology Lead Mr Christopher Betts, who is also a Consultant Urological Surgeon at Salford Royal, said: "We want to encourage urology departments in the region to offer relevant national trials to their patients with non-malignant urological conditions. We hope to improve the uptake and delivery of 'benign' urology trials."

Let's make it a winning year

Here are some of the award schemes that could recognise and reward your and your colleagues' hard work and dedication:

- [RCNi Nurse Awards](#) (closing date 22 January)
- [The BMJ Awards](#) (closing date 22 January)
- [Advancing Healthcare Awards](#) (closing date 25 January)
- [Student Nursing Times Awards](#) (closing date extended to 29 January)
- [HSJ Value in Healthcare Awards](#) (closing date 19 February)
- [Patient Safety Awards](#) (closing date 18 March)

Greater Manchester PSTRC – Newsletter

The latest edition of the NIHR Greater Manchester PSTRC (Primary Care Patient Safety Translational Research Centre) newsletter is [now available online](#) with key updates from its world leading research along with information on current opportunities for patients and professionals to get involved in its work.

Health Innovation Manchester

Clinical research is one of the priorities identified for [Health Innovation Manchester](#) (HInM), which was launched at NHS Expo in September to speed up the discovery, development and delivery of innovative solutions to help improve the health of the almost three million people in Greater Manchester, and beyond. The latest newsletter is [here](#).



Governance

UK Policy Framework for Health and Social Care Research

At present, England, Wales, Scotland and Northern Ireland each have their own Research Governance Framework that set out principles, requirements and standards for research in health and social care. All four UK countries intend to withdraw these separate policies and replace them with a single new policy framework to support good practice across the UK in the conduct and management of health and social care research.

The policy framework will apply to all health and social care research involving patients, service users or their relatives or carers. This includes research involving them indirectly, for example using information that the NHS or social care services have collected about them.

The Health Research Authority has launched a [consultation on the framework](#) which runs until 24 March and researchers can also find out more and have their say at a consultation event in Manchester on 1 March, 1.30-4.30pm. Email [Hilary Tulloch](#) to register for this.



Engagement

Expert help with recruitment

Recruiting patients and healthy volunteers to trials can be a problem, with researchers often finding it hard to recruit enough people as quickly as they're needed.

But specialist help is available here in Salford through the [Citizen Scientist](#) project, which was launched in 2012 to give researchers a different approach to finding participants and to offer the community more accessible information about the research happening within their area.

It now has more than 3,000 people signed up to receive regular updates about research. Project Manager Francine Jury will also promote recruitment into individual studies through the Citizen Scientist website and social media.

If you have a research study that needs more participants, contact [Francine](#) for advice on 0161 206 1828.



Funding

Fellowship and research secondments for nurses and AHPs

The NIHR CLAHRC Greater Manchester, based at Salford Royal, has six secondment places and one nurse academic fellowship place for registered nurses and AHPs. The CLAHRC aims to carry out high-quality research and put it into practice. Successful applicants will have the opportunity to be a part of projects that make a real difference to the health of people in Greater Manchester, as well as developing their own research skills. The closing date for applications is 31 January. [More here.](#)

Preventing and treating obesity

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

The NIHR welcomes applications for new primary research studies and research that synthesises evidence 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.](#)

Previous NIHR Themed Calls covered a range of topics, such as antimicrobial resistance and dementia. Even though the specific themed calls have closed, the NIHR has said it continues to be interested in receiving applications in any of these areas. Applications can be made to any of the [NIHR's funding programmes](#) as part of usual researcher-led workstreams.

Developing proposals for the NIHR Research for Patient Benefit programme

An NIHR Research Design Service North West seminar will highlight national funding opportunities for applied health and social care research. The aim is to give researchers a better understanding of funding priorities, application processes and future plans and an opportunity for dialogue with panel members and successful grant holders. Professor David Armstrong, RfPB Programme Director, will be presenting an overview of the programme.

It takes place on 11 February, 9.30am-12.30pm, at the Liner Hotel, Liverpool. Find out more [about the seminar here](#) and to book a place contact [Vanessa Adams](#), RDS NW Mersey and Cheshire team administrator on 0151 794 8043.



Training

Salford Research Training Academy

January

- [A guide to research study types and methods](#) Thursday 21 January, 3-4pm, Seminar Room 12, Mayo Building, Salford Royal. This session will look at research study types, and the differences between research, audit and evaluation.
- [Study documents and site files](#) Monday 25 January, 3-4pm, Seminar Room B, Hope Building, Salford Royal. This session will discuss the essential documents relevant to research and the importance of maintaining site files.
- [Informed consent and research](#) Thursday 28 January, 3-4pm, Seminar Room 3, Mayo Building, Salford Royal. This session will cover the process for obtaining informed consent from patients to participate in research and how this should be documented.

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](#).

Infoshots 1: Introduction to Athens

Salford Royal's library is running a training session providing an introduction to the Athens authentication system and a selection of its electronic resources. Your Athens username and password gives you access to all the library's electronic resources, including e-books, e-journals, UptoDate, Anatomy TV and all major healthcare databases including Medline and CINAHL.

The session is open at all Trust staff and students. Sessions last 30 minutes and run from noon-12.30pm and 12.30-1pm on Tuesday 16 February in the Library. To book your place, visit www.salfordlearning.nhs.uk and select 'Library Services' in the 'Personal and Professional Development' area. If you would like to arrange an alternative time or location for the training, contact Outreach Librarian [Jane Roberts](#) on 0161 206 8411.



Events

[The Future of Diabetes](#). This conference will look at how the National Diabetes Prevention Programme is progressing and how different stakeholders in the public and private sector can work together to tackle the problem of diabetes. It's on 26 January at the University of Salford.

[End of life priority setting](#). In January 2015, the Palliative and end of life Priority Setting Partnership produced a report outlining 10 key priorities for end-of-life research nationally. The NIHR CLAHRC Greater Manchester has refined these to produce six key themes for discussion at this event, which aims to arrive at two to three key research areas that are important to address across Greater Manchester. It's on 4 February, 9am-1.30pm, at The University of Manchester.

[Service development to improve health outcomes for adolescents and young adults in Greater Manchester](#). Following MAHSC's two events looking at improving health outcomes for adolescents and young adults, 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.

[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](#).

[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 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...

- James Palmer, Consultant Anaesthetist at Salford Royal, who is one of four Editorial Board members advising on the content of [General and Advanced Duties in Anaesthesia – Prepare for the FRCS](#) (Elsevier). He contributed a chapter on premedication and co-authored chapters on electrical hazards – causes and prevention, effects of smoking on health and anaesthesia, and surgical diathermy. Abdul Lalkhen, also a Consultant in Anaesthesia at Salford Royal, co-wrote a chapter on

anaphylaxis in the same book, while former colleague Roop Kishen co-wrote a chapter on crystalloids, colloids, blood, blood products and blood substitutes.

- Richard Warren, Honorary Consultant Dermatologist at Salford Royal, who is co-editor with Alan Menter of [Handbook of Psoriasis and Psoriatic Arthritis](#) (Springer), which will be published in February. His colleague in dermatology Zenas Yiu has co-written the introduction to this concise pocket book designed to support physicians, rheumatologists, and dermatologists in their day-to-day practice.

Vacancies

- [Research Nurse/Senior Research Nurse \(Vascular research\)](#) – Band 5/6 (Closing date 24 January).
- [Research Assistant \(Vascular research\)](#) – Band 4 (Closing date 21 January).
- [Skull Base Cochlear Implant and Complex Otology Fellowship](#) – SpR equivalent (Closing date 8 February)

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



Publications

Journals, articles, newsletters and blogs

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

- Ashley Woodcock, Nawar Bakerly, John New, Martin Gibson, Wei Wu, Jorgen Vestbo, David Leather: [The Salford Lung Study: A pragmatic, randomised phase III real world effectiveness trial in asthma](#) (Biomed Central).
- J Brent, David Guzman, Catherine Bangs, Bodo Grimbacher, Hana Alachkar, Matthew Helbert, Peter Arkwright, et al: [Clinical and laboratory correlates of lung disease and cancer in adults with idiopathic hypogammaglobulinemia](#) (Clinical and Experimental Immunology).
- Rachel Black, Rebecca Joseph, Benjamin Brown, Mohammad Movahedi, Mark Lunt, William Dixon: [Half of UK patients with rheumatoid arthritis are prescribed oral glucocorticoid therapy in primary care: A retrospective drug utilisation study](#) (Arthritis Research and Therapy).
- 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).
- Sally Gee, Rob Oliver, Julie Corfield, Luke Georghiou, Martin Yuille: [Biobank finances: A socio-economic analysis and review](#) (Biopreservation and Biobanking).
- Claire Vale, Sarah Burdett, Noel Clarke, Jayne Tierney, et al and for the STOpCaP steering group: [Addition of docetaxel or bisphosphonates to standard of care in men with localised or metastatic, hormone-sensitive prostate cancer: A systematic review and meta-analyses of aggregate data](#) (The Lancet Oncology).
- Pietro Randelli, Davide Cucchi, Usman Butt: [History of shoulder instability surgery](#) (Shoulder).
- David Van Dellen, Muneer Junejo, Hussein Khambalia, Babatunde Campbell: [Transposition of brachio basilic arteriovenous fistulae: Improving the cosmetic effect without compromising patency](#) (RCS Annals).
- Theresa Lawrie, Brett Winter-Roach, Pauline Heus, Henry Kitchener: [Adjuvant \(post-surgery\) chemotherapy for early stage epithelial ovarian cancer](#) (Cochrane Collaboration).
- Matthew Harries, Antonella Tosti, Wilma Bergfeld, Ralf Paus, et al: [Towards a consensus on how to diagnose and quantify female pattern hair loss – The Female Hair Pattern Loss Severity Index \(FPHL-SI\)](#) (Journal of the European Academy of Dermatology and Venereology).
- Muhammad Ahsan, Muhammad Saad, Sohail Akhtar, Abdul Haseeb, Afia Ahmed: [Impact of tobacco health warnings on smokers in Pakistan](#) (Journal of Pakistan Medical Association).
- James Ritchie, Darren Green, Helen Alderson, Constantina Chrysochou, Diana Vassallo, Smeeta Sinha, Philip Kalra: [Associations of anti-platelet therapy and beta-blockade with patient outcomes in atherosclerotic renovascular disease](#) (Journal of the American Society of Hypertension).
- Nessa Thomas, Sarah Plant, Kate Woodward-Nutt, Yeliz Prior, Sarah Tyson: [Health care](#)

[professionals' views of the factors influencing the decision to refer patients to a stroke rehabilitation trial \(Trials\).](#)

- Julie Snowden, Jennifer Adams, Jennifer Harris, Jennifer Thompson, Sara Rollinson, Anna Richardson, Matthew Jones, David Neary, David Mann, Stuart Pickering-Brown: [Distinct clinical and pathological phenotypes in frontotemporal dementia associated with MAPT, PGRN and C9orf72 mutations](#) (Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration).
- Sidra Khan, Joanna Moore, John Ealing, Christopher Kobylecki: [Psychosis in a patient with probable multiple system atrophy of cerebellar type](#) (Journal of the Neurological Sciences).
- James Palmer: [Premedication](#) (Anaesthesia and Intensive Care Medicine).
- Mei-Mei Westwood, William Rieley: [Medical gases, their storage and delivery](#) (Anaesthesia and Intensive Care Medicine).
- Andrew Sutton, Katie Breheny, Jon Deeks, Kamlesh Khunti, Claire Sharpe, Ryan Ottridge, Paul Stevens, Paul Cockwell, Philip Kalra, Edmund Lamb: [Methods used in economic evaluations of chronic kidney disease testing - a systematic review](#) (PLOS One).
- Imelda Barber, Jennyfer Garcia-Cardenas, David Mann, Nigel Hooper, Stuart Pickering-Brown, Julie Snowden, Anna Richardson, Matt Jones, David Neary, Jenny Harris, Clive Holmes, et al: [Screening Exon 16 and 17 of the amyloid precursor protein gene in sporadic early-onset Alzheimer's disease \(sEOAD\)](#) (Neurobiology of Aging).
- Matthew Parkes, Michael Callaghan, Terence O'Neill, Laura Forsythe, Mark Lunt, David Nelson: [Sensitivity to change of patient-preference measures for pain in trials of patients with knee osteoarthritis: A secondary analysis from the BRACE and TASK trials](#) (Arthritis Care and Research).
- Emma Patchick, Andy Vail, Alison Wood, Audrey Bowen: [PRECiS \(Patient Reported Evaluation of Cognitive State\): Psychometric evaluation of a new patient reported outcome measure of the impact of stroke](#) (Clinical Rehabilitation).
- Adrian Parry-Jones, Lizz Paley, Benjamin Bray, Alex Hoffman, Martin James, Geoffrey Cloud, Pippa Tyrrell, Anthony Rudd, on behalf of the SSNAP Collaborative Group: [Care-limiting decisions in acute stroke and association with survival: Analyses of UK national quality register data](#) (International Journal of Stroke).
- Ceri Battle, Fiona Lecky, Tom Stacey, Antoinette Edwards, Phillip Evans: [Management of the anticoagulated trauma patient in the emergency department: A survey of current practice in England and Wales](#) (Emergency Medicine Journal).
- Zenas Yiu, Christopher Griffiths: [Interleukin 17-1 inhibition in the treatment of psoriasis](#) (Expert Review of Clinical Immunology).
- Mark Livingston, Patrick Twomey, Ansu Basu, Stuart Smellie, John Kane, Adrian Heald: [Should free thyroxine go back into the routine thyroid profile?](#) (Experimental and Clinical Endocrinology and Diabetes).
- Mark Livingston, K Birch, Mark Guy, John Kane, Adrian Heald: [No role for tri-iodothyronine \(T3\) testing in the assessment of levothyroxine \(T4\) over-replacement in hypothyroid patients](#) (British Journal of Biomedical Science).

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.