



Progress report: NMAHPP¹ Research at Imperial College Healthcare NHS Trust (2022)

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¹ Nurses, Midwives, Allied Health Professions, Healthcare Scientists, Pharmacy Staff and Psychologists

Foreword

We are delighted to share the 2022 Imperial College Healthcare NHS Trust (ICHT) report of the research activities of our Nurses, Midwives, Allied Health Professionals², Healthcare Scientists³, Pharmacy staff and Psychologists (NMAHPPs). This report captures our diverse research activities and brings together a range of achievements that have contributed to our NMAHPP research strategic plan 'Research is everyone's business' and the Trust's overall strategy.

Our achievements have been supported through collaborations with many funders and partners. We particularly acknowledge and thank the following for their contribution and support:

- NIHR Imperial Biomedical Research Centre (BRC)
- Imperial College Academic Health Science Centre Clinical Academic Training Office (CATO)
- Imperial Health Charity (IHC)
- ICHT Divisional Research Management Teams, led by Scott Mullaney (MIC), Donna Copeland (SCC) and Ella Johnson (WCSS)
- Imperial College Academic Health Science Centre (AHSC)
- Imperial Patient Experience Research Centre (PERC)
- Imperial College London (The College)
- National Institute of Health Research (NIHR)
- Royal Marsden Partners (RMP)

This year we particularly focus on the impact of NMAHPP research activity.

² There are 14 registered Allied Health Professions; Art Therapists, Drama therapists, Music therapists, Chiropodists/podiatrists, Dietitians, Occupational therapists, Operating Department Practitioners, Orthoptists, Osteopaths, Paramedics, Physiotherapists, Prosthetists and Orthotists, Radiographers and Speech and language therapists

³ There are over 50 healthcare science specialisms that fall under four broad areas; laboratory sciences, physiological sciences, medical physics and clinical engineering, bioinformatics.

Highlights 2022

- An NIHR Advanced Fellowship was awarded to Dr Margaret Coffey (SLT)
- An NIHR Development, Skills and Enhancement fellowship was awarded to Dr Gemma Clunie (SLT)
- An NIHR doctoral fellowship was awarded to Layla Bolton-Saghdaoui (Nurse)
- An NIHR pre doctoral fellowship was awarded to Kelly Wade-McBane (Dietitian)
- BRC and CATO funding was secured to enable 9 post-doc staff to have one to two day's protected research time within their clinical role.
- Jenny Crow (OT), James Close (PT) and Juliet Albert (midwife) started their PhDs.
- Dr Vania Oliveira (Nurse), Dr Gemma Clunie (SLT) and Dr Huw Woodbridge (PT) were awarded their PhDs by Imperial College London.
- Four further pre-doctoral fellowships funded by Imperial BRC and Imperial Healthcare Charity were awarded. The research fellows are conducting a range of work involving treatment of people with infectious diseases, dementia and spinal cord injury
- Lisa Newington, a post-doctoral physiotherapist funded by NIHR Imperial BRC and Imperial Healthcare Charity, developed and piloted an NMAHPP academic activity impact capture tool
- Two midwives were co-applicants on an awarded NIHR Health Services & Delivery (HS&DR) grant related to continuity of care (Tina Prendeville and Susan Barry)
- Our Lead Nurse for Practice Development and Innovation was a co-applicant on an awarded NIHR HS&DR grant on staffing models in ICU (Clare Leon-Villapalos)
- Our Lead Nurse for the Clinical Research Delivery Workforce (Dr Helen Jones) was awarded (with Dr Chris Mullington – anaesthetist) a BMA Wesleyan grant to study the impact of airborne PPE on physical and mental wellbeing
- Dr Margaret Coffey was awarded an Honorary MBE for services to Speech and Language Therapy
- Professor Mary Wells became a theme co-lead for the 'Influencing patient and healthcare worker behaviours to optimise safety and minimise risk' theme within the NIHR Imperial Patient Safety Research Centre
- We ran our 3-day Starting Out in Research course for the fourth time, in person at Imperial College, London. This was attended by 36 NMAHPPs from across the AHSC and was extremely well evaluated.
- The Researcher Development Course was run online over four days, enabling internal and external candidates to attend. Evaluations were also very positive.
- Our post-doctoral midwife (Lucia Ramirez-Montesinos) started a Maternity Research Group which meets monthly.
- We started (in March 2022) a monthly seminar for nursing and midwifery called "Bringing Research Back to the Floor" which has been consistently well attended.
- In July 2022 we commenced a programme of student nurse clinical placements in research delivery teams, which receive very positive feedback. Students in other professional groups also have the opportunity to undertake research during a clinical placement.
- More than 125 journal and book chapters were published by our research active NMAHPP staff
- Numerous conference presentations, symposia, involvement in guideline development, editor of journals and books by our NMAHPP clinicians
- Research metrics have been evaluated in the revised Ward Accreditation Programme (WAP+).
- Our multi-professional postgraduate research forum continues to grow and support NMAHPPs with fellowships at all levels chaired and managed by the group.

Introduction

Our five year Research Strategic Plan that we published in 2018, 'Research is everyone's business' set out our ambition to become a UK leader for research quality, capability and capacity across our NMAHPP professions, through:

- Developing Research Awareness
- Leadership and Career Structures
- Enabling and facilitating research networks and collaborations
- Identifying, developing and supporting healthcare professional staff to be research active

This report shares our progress through evidence of the impacts created, research activity, training, publications and research income. We plan to build on this progress by aligning our priorities with the [Chief Nursing Officer for England's Strategic Plan for Research](#) and the [HEE Allied Health Profession's Research and Innovation Strategy](#) to develop our new strategic plan during 2023.

Research leads

Prof Wells and Prof Alexander lead the building of research capability and capacity at ICHT. They authored our strategic plan and lead its implementation.



Professor Mary Wells is the Deputy Director of Nursing for Research and a Professor of Practice (Cancer Nursing) at Imperial College London. She is supported by the Imperial BRC.



Professor Caroline Alexander is the Lead Clinical Academic for AHPs and Professor of Practice (Musculoskeletal Physiotherapy) at Imperial College London. She is supported by the Department of Therapies and the Division of Medicine and Integrated Care.



Professor Bryony Dean Franklin is a hospital pharmacist, Director of the NIHR North West London Patient Safety Research Collaboration, and Director of the Centre for Medication Safety and Service Quality (CMSSQ), a joint research unit between Imperial College Healthcare NHS Trust and UCL School of Pharmacy, where Bryony is Professor of Medication Safety.



Dr Emma Walker is the Trust's Lead Healthcare Scientist and a Consultant Clinical Scientist.



Dr Helen Jones is the Trust's Lead nurse for the Clinical Research Delivery Workforce. She is supported by the Imperial BRC.

Current doctoral and post-doctoral NMAHPPs

Our numbers of doctoral students and post-doctoral NMAHPP staff across the Trust fluctuate from year to year. Currently we have 9 NMAHPPs undertaking PhDs, two nurses undertaking Professional Doctorates and 13 Healthcare Scientists undertaking the Higher Specialist Scientific Training Programme (HSST), which includes completion of a professional doctorate. Across our workforce, we have 6 nurses, 1 Midwife, 9 Allied Health Professionals, 4 Pharmacists and 23 Healthcare Scientists with healthcare related doctorates. This year Prof Alexander and Wells have continued to focus on a national priority and a key part of our strategic plan, to build a career structure with particular attention upon our post-doctoral NMAHPP staff.

To this end, the Trust Executive Management Board approved our papers, presented by Prof Sigsworth and supported by Prof Klaber, which asked for implementation of a clinical academic career structure, including protected research time and clinical academic leadership posts. The board supported the implementation. The NIHR Imperial BRC provided fixed term funding until April 2023, which allowed us to fund 9 post-doc NMAHPP researchers for between 0.2-0.4 WTE protected research time.

All AHPs were able to utilise their funding, but we were unable to fill three leadership roles and there were several nurses who were unable to take up the offer of academic time. Barriers to implementation included difficulty in releasing staff from clinical and managerial duties, some members of staff having PhDs but not on a clinical academic trajectory, short-term and uncertain nature of funding, ability to get backfill (particularly like for like).

Building a stable and sustainable clinical academic career structure continues to be a challenge. Without funding for academic pathways within the NHS nationally for NMAHPPs this challenge will persist. We will continue to seek ways to develop a stronger structure at Imperial, and will continue to engage with national bodies such as the NIHR, the Clinical Academic Roles and Career Pathways Implementation Network, Chief Nursing Office and Chief AHP to push for implementation of our national NMAHPP strategic plans to develop such a structure.

Research impact

We have further developed the NIHR Imperial BRC funded work that explores the impact of NMAHPP research activity. This was conducted by Dr Lisa Newington with Profs Caroline Alexander and Mary Wells. In 2022, we published the [fourth](#) paper from this project, and constructed and piloted the impact capture tool with our research active NMAHPP staff. Thirty research active NMAHPPs reported their impacts and a further paper describing the tool and reporting our results is in submission.

Recruitment and Retention

A key impact of NMAHPP research activity is on recruitment and retention. Our impact capture tool survey results and a staff survey within the Therapies department have indicated that our research culture is important to both recruitment and retention.

1. Access to research opportunities, including research funding, was reported as a key factor in both recruitment and retention across our sample of research active NMAHPPs. This was cited as the most important factor for retention by our AHPs.
2. Having supportive organisational leadership and support to carry out research alongside clinical practice were far more commonly cited as reasons to join the Trust and stay with us by our research active AHPs compared to research active nurses and midwives.
3. New starters to our Therapy department are surveyed about reasons they applied for a Therapy position; across all bands, 70% of respondents cited clinical opportunities, and 55% cited research reputation and research opportunities.

At a time of significant staffing challenges, access to clinical academic career and research opportunities enhances retention of experienced staff. They, in turn, have a positive impact on patient care and attract others to apply for positions within the Trust.

Research and service improvement activity

Our impact capture tool revealed significant involvement in service evaluations, audit and quality improvement (QI) projects. Research active staff are leading this work and are on governance committees, as well as supporting others undertaking improvement projects.

Research active NMAHPPs lead research and collaborate with multidisciplinary researchers and clinicians across the AHSC. Our more senior staff provide both formal and informal research supervision and mentorship. Several are journal editors, peer reviewers and panel members for grants and fellowships. Importantly, our research active staff have put research into practice. When we asked them about changes to practice through research, they cited increased confidence in discussing treatment ambiguities and supporting their clinical service to change practice based on both their own research and also broader evidence. Specific practice changes included: the use of new or existing guidelines; developing new pathways of care; changing, stopping or implementing new assessments and treatments and introduction or changes in use of shared decision making.

Research income

During 2022, our NMAHP research active clinicians reported submitting 31 applications for funding during the previous 12 months. These included National fellowships (n=7), National grants as lead applicant (n=5), International grants/fellowships (n=3) as well as a range of other grants (see Table 1). Of the 31 applications, 15 (48%) were successful, and the outcome was as yet unknown for 11.

Table 1: Research grant/fellowship applications in 2022

Type of funding	Applied (n=12 applicants)	Awarded	Outcome unknown	Not awarded
Local fellowship	2	1	0	1
National fellowship	7	5	2	1
Local research grant	1	0	1	0
National research grant, co-applicant	5	3	1	2
National research grant, lead applicant	5	2	2	2
International grant or fellowship	3	0	1	2
Commercial or industrial funding	1	0	1	0
External funding for research training	1	0	1	0
External funding for research dissemination	3	2	1	0
Other funding source	3	2	1	0
Total	31	15	11	8

NB Responses not mutually exclusive; the same individual may have applied for more than one funding type within each category.

We have been awarded £1,171,239.41 in fellowships, plus grant income through lead or co-applicants on collaborative grants (at least £80K) as well as approximately £5000 per year earned from education activity such as external examining, external mentoring and running research training.

Table 2: Research fellowship income 2022

		Level	Profession*
2022	£1, 171,239.41	Pre-doctoral 5 Doctoral 1 Post-doctoral 2	Nurse ¹ AHP ³ HCS ¹ Nurse ¹ AHP ²
2021	£1,477,112.48	Pre-doctoral 10 Doctoral 4 Post-doctoral 3	Nurse 7 Midwife 2 AHP 6 HCS 1
2020	£566,710	Pre-doctoral 8 Post-doctoral 1 Grant 5	Nurse 3 AHP ¹ 4 HCS ² 2 Psychologist 1 Pharmacists 2

¹AHP – Allied Health Professional

²HCS – Healthcare Scientist

*NB numbers do not correspond with number of fellowships/grants because some individuals have more than one fellowship or grant

Research capacity and capability building

Our Post Graduate Research Forum (PGRF) for NMAHPP clinical research fellows has been running for nearly 4 years. During 2022 this was facilitated by our BRC/IHC funded post-doctoral fellow, Dr Newington. When her fellowship comes to an end, the PGRF will be led by Grainne Brady (SLT at the Royal Marsden and PhD student at Imperial College) and Magda Lampridou (ICHT nurse and pre-doctoral fellow) in 2023. The forum provides space for shared learning and discussions on preliminary research findings and planned research ideas, presentations and a supportive space for rehearsal of national presentations, as well as providing an opportunity for research fellows to discuss challenges and debate methodological approaches.

Regular seminars have been held by the Healthcare Professionals' Academic Group (HPAG) within Imperial College, with presentations by our senior NMAHPP researchers as well as our more junior research fellows.

Our research active clinicians have been involved in teaching clinical and research skills at undergraduate and post graduate levels nationally and internationally. They also supervise the research of undergraduate, Masters and PhD students. Some have been examiners at all these levels as well as leading in-service training and journal clubs locally. They have continued to run monthly research skills workshops, which are well evaluated, on topics ranging from writing abstracts and poster design to co-design methods and qualitative skills training.

More of our training events and courses were held in person during 2022. The AHSC "Starting out in Research course" ran in March-May 2022 with the support of CATO, with approximately half (n=20)

of the 40 AHSC participants from ICHT. The “Researcher Development Course”, facilitated through the Continuous Professional Development Team at Imperial College London, ran successfully in Oct and Nov 2022. Eleven internal participants were awarded an Imperial BRC bursary to pay for this 4 day course. Other CATO events delivered by Profs Alexander and Wells included ‘Starting and growing your research career’, ‘Preparing a pre-doctoral fellowship’, ‘Preparing a PhD application’. Our post doctoral senior clinical academics for occupational therapy (Dr Kennedy) and dietetics (Dr Johansson) led ‘Maximising the impact of your masters’ and a new event called ‘Expand your potential: Networking, resilience and critical thinking’ respectively. Our events were fully attended and continue to receive exceptional feedback, with some of the participants going on to apply for fellowships in the 2022 rounds.

We collaborate closely with the Imperial College Library, who run regular ‘bite-size’ training workshops and 1:1 sessions on topics such as ‘How to read a paper’, ‘Literature searching’, ‘Writing for publication’. Our monthly Trust-wide Research Skills Workshops (advertised on LEARN) were again fully attended gaining excellent feedback – these provide a wide variety of skills training delivered by our AHP post-doctoral staff, enabling them to teach and share their skills to build research capability amongst our clinical workforce while progressing their own training skills.

Every September we hold the North West London Research Symposium, attended by approximately 100 delegates, with poster presentations, plenary and research journey talks, and a range of workshops on relevant topics. In 2022 we ran an in person event for the first time since 2019; our keynote speaker was Professor Jane Coad, Chair of the Clinical Academic Roles Implementation Network and Professor in Children and Family Nursing and Director for Clinical Academic Researchers at Nottingham University. Some of our senior post-doctoral clinicians also presented their research and research journeys. In addition, many of our research active clinicians presented posters. We ran 4 concurrent workshops on Interview skills, Improvement methodologies, Outcome measures/ PROMS and PREMS and Innovative trial design.

In March 2022, we launched a new initiative called ‘Bringing Research Back to the Floor’. This was designed to attract nurses and midwives who attend our weekly operational ‘Back to the Floor’ meeting, and to spread awareness about the research being conducted by nurses and midwives across the Trust, with the aim of reaching a large number of staff. Sessions are recorded and posted onto the Research intranet pages so that staff can access them after the event. Topics and speakers have included “It’s not a sin. Condoms, Choice and the Sexual Revolution”; speaker - Professor Matthew Grundy-Bowers, Consultant Nurse HIV and Sexual Health; "Do staffing shortages cost lives? Lessons from Imperial data"; speakers - Ben Zaranko (Economist) and Anne-Marie Rafferty (Professor of Nursing Policy, Kings College London) and "Getting your work published"; speaker - Mary Dawood, Consultant Nurse: Emergency Care.

A Maternity research group has also been initiated, which meets monthly.

This year we also introduced a series of self-assessment questions for Ward managers to complete as part of the annual Ward Accreditation Programme. These fall under the ‘Leadership’ category for the WAP+. The Ward manager is required to provide information about the research culture on their ward, by rating their ward from 1 to 10 in relation to eleven questions, ranging from ‘support for research training’, ‘staff involvement and knowledge of research studies in the clinical area’, ‘dissemination of research and audit findings’ and by providing evidence to support these ratings.

A research champion network is already in place across Therapies and this year we started recruiting for research ambassadors in nursing and midwifery, with the first network meeting planned for the new year (2023).

Research Delivery

Imperial has a large clinical research delivery workforce which is spread across both Imperial Healthcare NHS Trust and Imperial College. Over the last 12 months initiatives have been developed in line with national strategies. This includes the following:

- To support embedding research, a programme of research placements for undergraduate nursing students from partner HEI's has been developed. Students are able to join one of 8 speciality research placements for a 6-week period. The programme starts with a day of face-to-face teaching delivered by research delivery staff from across the workforce. This aims to provide a general overview of clinical research and what they will encounter over their placement. To date the programme has been really well evaluated by both the research teams and the students they support.
- To support the current NIHR strategy to develop the professional status of the Clinical Research Practitioner (CRP) workforce, a CRP Support programme was launched in June 2022. This aims to develop the CRP community across Imperial and support post holders to achieve accreditation with the Academy of Healthcare Sciences. The overall aim is that by summer 2023, at least 50% of the workforce will have achieved accreditation. In addition to this the Clinical Academic Training Office held their first dedicated research event for CRPs. This was attended by approximately 50 CRPs. Speakers included representatives from the NIHR who are leading the national CRP programme.

In addition to the above there is now a regular programme of workforce meetings bringing together specific groups of staff for networking and collaboration as well as a regular 2 monthly workforce meeting.

Equality Diversity and Inclusivity

During 2022, research opportunities, events and bursaries are specifically advertised through the Race Equality network as well as through professional group channels. Twenty percent of the BRC funded awards to attend the Researcher Development Course were open to people from the BAME community alone, before opening up the other awards to all applicants.

Our Research delivery teams, under the leadership of Helen Jones, have supported national initiatives in Equality, Diversity and Inclusion (EDI) including the NIHR EDI Strategy (2022 – 2027) and the Imperial BRC EDI Framework; an EDI Research Champions network across our research delivery teams was established in 2022. Membership of the group currently stands at 30 research staff. The group meets alternate months and is focused on 3 current EDI work streams of Raising Awareness, Research participation and the Research delivery workforce.

Research stories from front line staff

We are working hard to identify and recognise research active staff across the Trust and would love to hear from anyone who has a research idea, is carrying out a project or has published their work.

Our appendix of publications only includes the outputs of existing research fellows, consultant practitioners and individual staff members who we know have published this year. However, some of our staff from all our professional groups are publishing and presenting excellent work, from audit and service evaluation to systematic reviews, guidelines, commentaries and original research. A

number of other clinical staff have also undertaken novel and important research within their clinical roles.

The following stories illustrate the impact that being involved in research has had on staff and students:

- Laura Boyle, a band 5 physiotherapist undertook our Therapies mixed clinical research rotation which has one day to support our clinical academic fellows' projects. After the rotation she reflected and reported: "I feel more confident in my research skills: searching literature – why we use interventions, what is the evidence, if a patient was to ask me a question about an intervention or treatment, I feel I could look this up and find the evidence or be able to translate it into real life terms for them. I feel confident to question why – and not feel like I am being silly or perhaps difficult; to question is to be inquisitive. I feel like I would be able to support others in areas of research: support others conducting reviews, question things with others, work through problems together. Overall, I feel really proud for putting myself forwards for the rotation, and as an added bonus, that my work may end up in potentially two research papers – this is something I hadn't considered to be possible at my stage of career.....one thing is for certain, the idea of research isn't so scary anymore. I feel the research world is my oyster."
- Madeline Fox, a second year Adult Nursing BSc student nurse was allocated to a six week research placement in infectious diseases and HIV. After the placement she wrote a three-page reflection of her experience, saying "Having an undergraduate research placement turned out to be one of the most important and valuable experiences within my nursing journey so far. Research is at the heart of everything that we do, and in turn shapes the future of healthcare and practices within nursing..... My experiences reinforced the importance of advocating for patients and communicating with them to allow them to make an informed choices about participation in research..... During my time with the HIV research team, I had the opportunity to have open, candid, 2-way conversations with patients about their care, this greatly improved my ability to communicate effectively. I acquired techniques to ensure I am having honest and frank conversations with patients about subjects that are perhaps seen as taboo..... Having first-hand experience with COVID, I was intrigued by the chance to join the infectious disease research team.....Thanks to research, dexamethasone is now a standard of care within the treatment of patients with Covid. The opportunity to join this team and broaden my knowledge and understanding of COVID-19 related trials, gave me an in-depth understanding of treatment of this ongoing disease and subsequently a broad understanding of proposed treatments..... Within these specialties, I gained an in-depth understanding of anatomy and physiology, immunology, pathophysiology, and pharmacology. Additionally, it was a valuable experience for me to gain a solid understanding of the role of the research nurse, as well as the importance of patient advocacy, ethics, communication, and education with trial participants during my placement. I gained an understanding of Good Clinical Practice (Imperial College London, 2022), and as a result had ability to deliver a teaching session on this subject. I was able to work on my ability of having a 2-way conversation with patients and felt confident in discussing the risk vs benefits. Since joining the research teams, I have gained a great deal of knowledge and gained skills that I never imagined I would have. I believe it has influenced my development as a nurse. The fact that I attended this placement despite my apprehensions and lack of knowledge about it was a good decision for me. This is a new and perhaps unknown placement area for students to be invited to, I encourage all student nurses to attend it if they have the opportunity. By learning the fundamentals of research,

students gain the ability to understand research, gain transferrable skills and may recognise it as an area they would like to pursue in the future.”

The publications listed in Appendix 2 are from staff we know publish regularly (mainly research fellows and consultant NMAHPP staff). Other staff have also published papers this year but we do not have a mechanism for collecting these systematically. Examples of these include:

- Helen Dawson, a specialist physiotherapist treating people in pain was not only awarded Apprentice of the Year but is an author within a multi-professional group of a paper entitled “Piloting a new model of personalised care for people with fibromyalgia in primary care with secondary care multi-disciplinary support” in Musculoskeletal Care
- Emma Jones, our Diabetes Specialist Educator and Dietitian was an author of “The impact of socio-economic deprivation on access to diabetes technology in adults with type 1 diabetes” published in Diabetic Medicine.
- Two heart failure nurse specialists (Urmila Phuyal and Barbara Byrne) published a paper in the British Journal of Cardiac Nursing entitled ‘Use of metolazone in the community setting for heart failure decompensation: is it worthwhile?’ They also presented this at Bringing Research Back to the Floor.

Conclusions and next steps

During 2022 we have made further progress in the development of our research culture, capability and capacity. Through mentorship and support, another 17 NMAHPPs have achieved research internships and fellowships this year, enabling them to progress their clinical academic ambitions and enhance patient care through research. Hundreds of other staff have attended research training workshops and courses, taking back their learning to influence clinical practice. Research is increasingly part of the conversation at every level and throughout the organisation. Our research strategy has provided a sound basis on which to build. We have achieved many of the targets set and now plan to focus attention on developing a clinical academic career structure, which will enable us to become a leading Trust for research quality, capability and capacity in the healthcare professions.

Report compiled by Caroline Alexander and Mary Wells with support from Helen Jones, Bryony Dean Franklin and Emma Walker.

Appendix 1

2022 Publications by NMAHPP Research fellows, Consultant NMAHPPs and Pharmacy staff. Please note: *many more staff may have presented and published during 2022 but we are unaware of their work. This list includes publications from the staff we know are publishing regularly – current or previous research fellows, post-doctoral and consultant NMAHPPs, pharmacy staff and selected clinical staff who have submitted publications. The ICHT/ICL NMAHPP authors are underlined.*

2022

Bednarczyk E., Cook S., Brauer R., Garfield S. Stakeholders' views on the use of psychotropic medication in older people: a systematic review 2022 Age and Ageing 51, 3
10.1093/ageing/afac060

Turner P.J., Gretzinger M., Patel N., Brough H.A., Chinthrajah R.S., Ebisawa M., Elizur A., Koplin J.J., Peters R.L., Purington N., Nowak-Wegrzyn A., Saf S., Sampson H.A., Westerhout J., Blom W.M., Baumert J.L., Houben G.F., Remington B.C. Updated threshold dose-distribution data for sesame 2022 Allergy: European Journal of Allergy and Clinical Immunology 7710 3124-3162
10.1111/all.15364

Clunie G.M., Anderson C., Savage M., Hughes C., Roe J.W.G., Sandhu G., McGregor A., Alexander C.M. “A Major Quality of Life Issue”: A Survey-Based Analysis of the Experiences of Adults With Laryngotracheal Stenosis with Mucus and Cough 2022 Annals of Otology, Rhinology and Laryngology 131, 9, 962- 970 10.1177/00034894211050627

Jones M.D., Franklin B.D., Raynor D.K., Thom H., Watson M.C., Kandiyali R. Costs and Cost-Effectiveness of User-Testing of Health Professionals’ Guidelines to Reduce the Frequency of Intravenous Medicines Administration Errors by Nurses in the United Kingdom: A Probabilistic Model Based on Voriconazole Administration 2022 Applied Health Economics and Health Policy 20, 1, 91-104 10.1007/s40258-021-00675-z

Bauer-Negrini G., Deckmann I., Schwingel G.B., Hirsch M.M., Fontes-Dutra M., Carello-Collar G., Halliwell D.E., Paraskevaidi M., Morais C.L.M., Martin F.L., Riesgo R., Gottfried C., Bambini-Junior V. The role of T-cells in neurobehavioural development: Insights from the immunodeficient nude mice 2022 Behavioural Brain Research 418 10.1016/j.bbr.2021.113629

Grailey K., Leon-Villapalos C., Murray E., Brett S.J. Exploring the working environment of Hospital Managers: a mixed methods study investigating stress, stereotypes, psychological safety and individual resilience 2022 BMC Health Services Research 22,1 10.1186/s12913-022-08812-7

Alsaidan J.A., Portlock J., Ata S.I., Aljadhey H.S., Franklin B.D. Retrospective descriptive assessment of clinical decision support medication-related alerts in two Saudi Arabian hospitals 2022 BMC Medical Informatics and Decision Making 22 1 10.1186/s12911-022-01838-1

Grindlay D.J.C., Davis T.R.C., Kennedy D., Larson D., Furniss D., Cowan K., Giddins G., Jain A., Trickett R.W., Karantana A. A proposed methodology for uncertainty extraction and verification in priority setting partnerships with the James Lind Alliance: an example from the Common Conditions Affecting the Hand and Wrist Priority Setting Partnership 2022 BMC Medical Research Methodology 22 1 10.1186/s12874-022-01777-5

Long M., Kiru L., Kassam J., Strutton P.H., Alexander C.M. An investigation of the control of quadriceps in people who are hypermobile; a case control design. Do the results impact our choice

of exercise for people with symptomatic hypermobility? 2022 BMC Musculoskeletal Disorders 23 1 10.1186/s12891-022-05540-1

Thind A.K., Rule A., Goodall D., Levy S., Brice S., Dor F.J.M.F., Evans N., Ospalla D., Thomas N., Wellsted D., Johansson L., Willicombe M., Brown E.A. Prevalence of frailty and cognitive impairment in older transplant candidates - a preview to the Kidney Transplantation in Older People (KTOP): impact of frailty on outcomes study 2022 BMC Nephrology 23 1 10.1186/s12882-022-02900-w

Batinelli L., Thaels E., Leister N., McCourt C., Bonciani M., Rocca-Ihenacho L. What are the strategies for implementing primary care models in maternity? A systematic review on midwifery units 2022 BMC Pregnancy and Childbirth 22 1 10.1186/s12884-022-04410-x

Saggu R.K., Barlow P., Butler J., Ghaem-Maghani S., Hughes C., Lagergren P., McGregor A.H., Shaw C., Wells M. Considerations for multimodal prehabilitation in women with gynaecological cancers: a scoping review using realist principles 2022 BMC Women's Health 22 1 10.1186/s12905-022-01882-z

Chu A., Kumar A., Depoorter G., Franklin B.D., Mcleod M. Learning from electronic prescribing errors: A mixed methods study of junior doctors' perceptions of training and individualised feedback data 2022 BMJ Open 12 12 10.1136/bmjopen-2021-056221

Hall H., Dhuga Y., Yan Zheng C., Clunie G., Joyce E., McNair H., McGregor A.H. Patient and practitioner perspectives on the design of a simulated affective touch device to reduce procedural anxiety associated with radiotherapy: A qualitative study 2022 BMJ Open 12 3 10.1136/bmjopen-2021-050288

Marang-Van De Mheen P.J., Browne J.P., Thomas E.J., Franklin B.D. Grand Rounds in Methodology: A new series to contribute to continuous improvement of methodology and scientific rigour in quality and safety 2022 BMJ Quality and Safety 32 1 13- 16 10.1136/bmjqs-2022-015225

Franklin B.D., Thomas E.J. Replicating and publishing research in different countries and different settings: advice for authors 2022 BMJ Quality and Safety 31 9 627-630 10.1136/bmjqs-2021-014431

Garfield S., Judah G. Learning from successes: Designing medication adherence intervention research so that we can learn what works and why 2022 BMJ Quality and Safety 31 2 83-85 10.1136/bmjqs-2021-013381

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Appendix 2

Fellowships awarded in 2022

Pre-doctoral awards

Imperial Health Charity Pre-doctoral Fellowship

The experiences of people with HIV living with multimorbidity and other complexities of aging: A qualitative study

Ms Claire Petersen, Lead Research Nurse and Clinical Trials Centre Manager (HIV / GU)

NeuroMap - Evaluation of cortical mapping for people with incomplete spinal cord injury

Rowan Boyles, Senior Physiotherapist

Quantifying functional mobility using clinically relevant digital behavioural biomarkers from body tracking data in older adults.

Mr Julian Jeyasingh Jacob, Clinical service lead for OT & Physio- Cancer, Surgery & Private Patients

How useful are commercially available *Streptococcus pyogenes* (S.pyogenes) rapid antigen detection tests (RADTs) in outbreak situations?

Ms Ewurabena Mills, Biomedical Scientist

NIHR Pre-doctoral Clinical Practitioner Academic Fellowship (PCAF)

Personalised prehabilitation for patients with lung cancer who are undergoing non-surgical treatment

Mrs Kelly Wade-McBane, Clinical Service Lead Dietitian

Post-doctoral awards

NIHR Advanced Fellowship

An investigation of the feasibility of exercises for the treatment of dysphagia after laryngectomy

Dr Margaret Coffey, Speech and Language Therapist

NIHR Development and Skills Enhancement Award and HEE post-doctoral Bridging Award

Dr Gemma Clunie, Speech and Language Therapist