Rogessiepot MAHP Researchat Imperial College Halthraie N+5 Fust (2022)

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Foreword

We are delighted to share the 2022 Imperial College Healthcare N-15 Tirust (ICHI) report of the research activities of cur Nuses, Midvives, Allied Health Rofessionals, Healthcare Scientists³, Hearmacy staff and Psychologists (NMAHPR). This report captures cur diverse research activities and brings together a range of achievements that have contributed to our NMAHPP research strategic plan's Research is everyone's business' and the Tirust's overall strategy.

Orachievenertshave been supported through collaborations with many funders and partners. We particularly advantage and thank the following for their contribution and support

NHRImperial Biomedical Research Gentre (BRC)
Imperial College Academic Health Science Gentre Girical Academic Training Office (CARC)
Imperial Health Charity (HL)
ICHT Divisional Research Management Teams, lead by Scott Mullaney (MIC), Durna Gepeland (SCC) and Hall binson (WCSS)
Imperial College Academic Health Science Gentre (AHSC)
Imperial College Academic Health Science (HRCC)
Imperial College London (The College)
National Institute of Health Research (NHR)
Reyal Massden Patriers (RMP)

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

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²There are 14 registered Allied Health Professions, Art Therapists, Damatherapists, Music therapists, Chiropodists/podiatists, Detitions, Coupational therapists, Operating Department Practitioners, Othoptists, Osteopaths, Paramedics, Physiotherapists, Prosthetists and Othotists, Radiographers and Speech and language therapists

³There are over 50 health carescience specialisms that fall under four broad areas, laboratory sciences, physiological sciences, medical physics and clinical engineering bioinformatics

Helicits 2022

AnNI-RAdvancedFellowship was awarded to Dr.Margaret Coffey (SU)

AnNI-RDevelopment, Skills and Erlancement fellowship was awarded to Dr. Germa Curie (SU)

AnNI-Robotoral fellowship was awarded to Layla Bolton Saghrhoui (Nuse)

AnNI-Rpedotoal fellowhipwasawardedtoKellyWadeMtBare(Dictitian)

HCardCATOfurdingwassecured to enable 9 post-docstaff to have an entotwo day's protected research time within their dirical role.

Jerny Grow (OI), Jenes Gose (PI) and Liliet Albert (midwife) started their PhDs

D'Varia Cliveira (Nuse), D'Germa Curie (SD) and D'HavWoodnidge (PI) were awarded their HDs by Imperial Gallege London

For further predotoral fellowships furthed by Imperial ERC and Imperial Halthcare Charity were awarded. The research fellows are conducting a range of work involving treatment of people within fectious diseases, dementia and spiral conditions.

lisaNewington, apost-doctoral physiotherapist furnholby NHR Imperial BRC and Imperial Healthcare Charity, developed and piloted an NMHP academic activity impact capture tool Two michwises were complicants on an awarded NHR Health Services & Delivery (HS&DF) grant related to continuity of care (Tima Prembaille and Susan Barry)

Or lead Nuse for Plactice Development and Importion was a coapplicant on an awarded NHR HSSDR grant on staffing models in ICU (Clare Leon Villagelos)

Or Lead Nusse for the Cirical Research Delivery Workforce (Dr Hen. Irres) was awarded (with Dr Chris Mullington – an aesthetist) a BMA Wesley angrant to study the impact of airborne HE on physical and mental well being

Dr.Magnet Coffey vas avaded an Hunary MEE for services to Speech and Language Therapy Professor Mary Wells became at hence of lead for the 'Influencing patient and health care worker behaviours to optimise safety and minimise risk' them evit hin the NHR Imperial Patient Safety Research Centre

We amour 3 day Starting Out in Research course for the fourth time, imperson at Imperial College, London This was attended by 36 NMAH Physicom across the AHBC and was extremely well evaluated.

The Researcher Development Couse was run or line over four days, enabling internal and external candidates to attend Evaluations were also very positive.

Orpost-doctoral michaife (Lucia Raniez Montesinos) started a Maternity Research Group which meets monthly.

Westated(inMach2022) anorthon

Introduction

DrHen.bresisthe Tiust's Leadnuse for the Grical Research Delivery Workforce She is supported by the Imperial HC

Cinert doctoral and post-doctoral NMAHPs

Orrunbers of dottoal students and post-dottoal NMAL PStaff access the Tiust fluctuate from year to year. Quently we have 9NMAL PS undertaking PLDs, two nuses undertaking Professional Dottoates and 13 Halthrare Scientists undertaking the Higher Specialist Scientific Training Programme (HSSI), which includes completion of a professional dottoate. Access curvoid force, we have 6 nuses, 1 Midwife, 9 Allied Halth Professionals, 4 Pharmacists and 23 Halthrare Scientists with healthrare related dottoates. This year Prof Alexander and Wellshare continued to

of the 40AH Continued and Cont

We collaborate dosely with the Imperial College Library, who run regular 'bite size' training workshops and I: I sessions on topics such as 'How to read a paper;' 'Literature searching, 'Writing for publication. Our monthly Frust-wide Research Skills Walshops (ackertised on IEARN) were again fully attended gaining excellent feedback—these provide a wide variety of skills training delivered by our AI-P post-doctoral staff, embling the mote ach and share their skills to build research capability among tour dirical workforce while progressing their own training skills.

Every September we hold the North West Landon Research Symposium, attended by approximately 100 delegates, with poster presentations, plenary and research journey talks, and a range of

stuckts ginthe ability tour destarches each gintans fenable skills ard nayre cog ise it as an accat beyond dile to pusue in the future."

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

HenDawon aspecialist 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 Report compiled by Cardine Alexander and Mary Wells with support from Hen. Dress, Bryony Dean Franklin and Franklin Wellscrip.

Appendx1

2022 Riblications by NMAHPP Research fellows, Consultant NMAHPS and Fharmacy

of exercise for people with symptomatic hypermobility? 2022 BMCM is culoskeletal Disorders 231 101186/s12891-022055401

ThirdAK, R.leA, <u>Goodall D</u>, LewS, BiceS, DorEJME, Evans N, Ospalla D, Thomas N, Wellsted D, <u>J. Hansson L.</u>, Willicon be M, Bown EA Revalence of finity and cognitive impairment in older transplant candidates - a preview to the Kidney Transplant attion in Older Requie (KICP): impact of finity on outcomes study 2022 BMC Nephrology 231 101186/s12882022 02900w

Batireli I., <u>Theks E., leister N., McGutt C., Boniani M., Rocalhendro I. What are the strategies for implementing primary care models immaterrity? Asystematic review on midwifery units 2022 BMC Pregnany and Childright 221 101186/s1288402204410x</u>

<u>SaguRK</u>, BallowP, Butler J, GræmMaghami S, <u>Highes C</u>, Lagargen P, MiGregor AH, Shaw C, <u>Wells M</u> Gonsiderations formultimodal prehabilitation in women with gymecological carcers a soquing review using realist principles 2022 BMC Women's Health 22 1 10 1186/s1290502201882 z

GuA, KınırA, DeposterG, <u>FizrklinBD</u>, <u>MdeodM</u> Learingfromelectroric pescribingenos: Anixed methods study of jurior dottors' perceptions of training and individualised feedback data 2022 BMI Open 12 12 10 1136 brijopen 2021-05821

Hill H, Druga Y, Yan Zheng C, <u>Qurie G</u>, Jayoe E, McNair H, McGegra AH Patient and practitioner perspectives on the design of a simulated affective touch device to reduce procedural anxiety associated with radiotherapy. Aqualitative study 2022 BMJ Open 123 10 1136 lunjopen 2021-050288

Marag Van De Meen P.J., Browne J.P., Thomas E.J., <u>Franklin B.D.</u> Grand Rounds in Methodology. A

RothieS, BizgualdE, BadyGC, <u>ReeJWG</u> Therefee of the speech and larguage therapist in the rehabilitation of speech, swallowing voice and trismus impeople diagnosed with head and reck career 2022 Bitish Dental Journal 2339 801-805 10 1088/s41415 092-5145.2

MiE, Muricaite R, <u>Palzad Stababi</u> L., Chen J, HbA, Williams M Deeplearning based quartification of temporalisms de las prognostic value impatients with glid laston a 2022 Bitish Jurnal of Carcer 1262 196 208 10 1088/s41416 021-015909

SimpsonM, MilerickY, Girder HealdL, HggirbothamK, WrittinghamK, Masters J, <u>Barton C</u>
Developing the Heart Failure Specialist Nusse Competency Framework 2022 British Journal of Nussing 31 14 732 737 10 12968 hjon 2022 31.14732

CardsoF, CellaD, VelikovaG, <u>Himer V.</u>, Schmader Wilf E, Rhari J, Casa A, Habedd Quality of life methodology inhomore receptor-positive advanced breast care: Guiert tools and pespectives for the fiture 2022 Carer Tieatment Raievs 102 10 1016 (j.ctrv. 2021. 10232)

RmirezCAM, StringfellowH, NaikR, Goshie E.J, <u>Prastevaidi M</u>, Rehman I.U., Martin Hisch P. Infrared Spectroscopy of University Non Invasive Detection of Endonetrial Carrer 2022 Carrers 1420103390 (carrers 14201015)

Savic L., Ardem Jues M., Avery A., Cock T., Dennan S., Farcoque S., Garcez T., Gold R., Jay N., Kishna M.T., Leech S., <u>McKiben S.</u>, Nasser S., Remdand N., Sambe J., Sneddon J., Warner A. BEAGguideline for the set-up of periodical angle gy de labelling services by non allergists working in a hospital setting 2022. Clinical and Experimental Allergy 52:10. 1135:1141:101111/cea 14217

<u>Willes EH</u> A Practical Guide to Bayesian Statistics in Laboratory Medicine 2022 Clinical Chemistry 68789895101098/clindem/bax049

RutnyS, KudakG, Foxall A, <u>HulstonR</u> Arenindführessgrupsmurenindführerofacer orline? Accupation of delivering antindführessbased well-beinggrup für parents of dilden with advorübe althouristion 2022 Chrical Child Psychology and Psychiatry 10.1177/13591045221125617

<u>Kompareki</u>E, TharapiromK, PapatheodoirdiM, ParikhP, Chotai de Lima Y, Tsochatzis EA Systematic Reviewand Meta analysis: The Role of Dict in the Development of Norakoholic Eatty Liver Disease 2022 Clinical Castroenterology and Hepatology 10 1016 j. cgh 2021.11.036

ZhuNJ, RavsonTM, ModerjeeS, PriceJR, DaviesE, OtterJ, AylinP, HpeR, <u>CilchristM</u>, ShesingY, HthresA ChargingPatterns of BloodstreamInfections in the Community and Acute Care Across 2 Chromaticus Disease 2019 Epidemic Waxes A Retrospective Analysis Using Data Linkage 2022 Clinical Infectious Diseases 751 E1082 E1091 10 1098 'cid' ciab 1939

IciercA, <u>WelsM</u>, Fulton LieuwT, Narlivell P., Meharma H., Jepson M., Karwath A., Main B., Firth C., Geurt C., Greaves C., Morie D., Watson E., Gloutos G., Oralinci G., Welsterholme J., Detale J., Bett J., Darla J., Matheson L., Chemill L. R., Calvert M., Kiely P., Gaunt P., Chemburnoong S., Mittal S., Thomas S., Winter S., Wang W., FEIN CK Research Team Clinicians' Views of Patient initiated Followup in Head and Neck Carrier: a Qualitative Study to Informathe FEIN CK 2 Trial 2022 Clinical Oncology 314 230 240 10 1016 j.don 2021. 11.010

Ruhari M.J., Modey I., <u>Iovell I.</u>, <u>Roe. J.</u>, Devabakan Y., Bidaye R., Sardhu G., Al Yaghdi C. Assessment of swallow function pre-and post-embsorpic CO2 laser medial arytemide to my acase series 2022 Clinical Ctolaryngology 472347 350 101111/coa 13896 CelikA, FordeR, <u>RacaruS</u>, ForbesA, SturtJ The Impact of Type 2Diabetes on Women is Health and Well being During Their Reproductive Years A Mixed methods Systematic Review 2022 Gunert Diabetes Reviews 182 102174/15735981766210118141743

<u>Recards, Bolton Sagleboui I.</u>, Ray Crouchury J, <u>Wells M</u>, Davies AH Officading treatment in people with diabetic foot disease. Asystematic scoping review on adherence to foot officading 2022. Diabetes and Metabolic Syndrome. Clinical Research and Reviews 165 10 1016 j. dsx 2022 102498.

DistasoW, MalikiMMAH, SenereS, All-HamiA, AlexanderEC, HirariD, ShahRJ, SubaK, MMedrieV., Nik evi A, CliverN, SpadaM, SalemV. Diabetes self management during the COVID 19 partienic and its associations with COVID 19 arriety syndrome, depression and health arriety 2022 Diabetic Medicine 39 10 10 11 11 / dne 149 11

Sutherland A., Janes M.D., Howlett M., Arenas Lopez S., Patel A., <u>Franklin B.D.</u> Developing Strategic Recommendations for Implementing Smart Rumps in Advanced Haliltrane Systems to Improve Intravenous Medication Safety 2022 Drug Safety 458881-889 10 1007/s40264022 012081

Allen JE, <u>Gurie G</u>, Ma JK-Y, <u>Coffey M</u>, Wiriker K, Ridmond S, Lovell SY, Volkner A
Translating Utrascundinto Girical Practice for the Assessment of Swallowing and Laryngeal
Function A Speech and Larguage Pathology Led Gorsensus Study 2022 Dysphagia 3761586 1598
10 1007/s00455022 104139

Miles A, Mirae J, <u>Curie G</u>, Gilivan Muphy P, Iranuto Y, Kalf H, Pilay M, Rovrell S, Ratdiffe P, Richard T, Rhinson U, Wallace S, Brobby MB Anthrenational Commentary on D. Sphagia and D. Sphania D. D. Sphania D. D. Sphania D. Sphan

BadyG, Leigh Doyle L., Riva EMG, Kerawala C., <u>Roe.</u> J. Speech and Swallowing Outcomes
Following Surgical Resection with Immediate Fice Tissue Tiansfer Reconstruction for Advanced
Outcoaction ecosis of the Marrible Following Radiation Ticatment for Head and Neck Camer 2022
Dysphagia 375 1137 1141 10 1007/s00455021-108754

BadyG, Leigh Doyle L., Riva E., Kerawala C., <u>Roe J.</u> Early Post-operative Feeding An Investigation of Early Functional Outcomes for Oal Carner Patients Tieated with Surgical Resection and Free Hap Reconstruction 2022 Dysphagia 374 1008 1013 10 1007/s00455 021-10838

<u>Lovell L., Curie G.M., Al-Yaghdi C., Roe J., Sandru G.</u> Layrgeal Saccidosis and Swallowing Wint Do Welfrow About Dysplagia Assessment and Management in this Ropulation? 2022 Dysplagia 37 3548 557 10 1007/s0455021-108054

<u>Qurie GM</u>, Belsi A, <u>Ree JWG</u>, <u>Alexander CM</u>, Sandru G, McGregor A Not Jist Dysproea Swallowing as a Concern for Adults with Laryngotracheal Stems is Underguing Airway Reconstruction 2022 Dysphagia 372 365 374 10 1007/s00455021-102873

<u>DavoodM</u>, MiNamara R Donoham 2022 Finegeny Medicine Junel 39 10724-725 101135/enemed 2022 212647

<u>DwoodM</u> Hgligtsfiontlisisue 2022 Finegeny Medicire Jurid 3953/3 101136/enemed 2022 212484

Hmbert M, Koras G, Heper MM..... <u>Gn Sing W</u>... <u>Stylen mank, ESC HS Scientific</u>
Document Group <u>2022 HSC HS Guidelines for the diagnosis and treatment of pulmonary hypertension</u> <u>2022</u> <u>European Heart, Journal <u>4338</u> <u>3318</u> <u>3331</u> 101098/eurheartj/ehr237</u>

Strachan H, Hoshins G, <u>Wells M.</u> Maswell M. Arealist evaluation case study of the implementation of advanced ruse practition erroles in primary care in Scotland 2022 Journal of Advanced Nusing 78 92916 2982 101111/jan 15252

Ond IK, Onlines S, Huall K, Myse K, <u>Ourie G</u> An evaluation of speech and larguage therapy

Aquartitative secondary analysis of healthcare comerns relating to adults with complex needs 2022. Patient Education and Gunseling 1052/447/451 101016/j.pec 2021.05030

<u>CarfieldS</u>, Beg.mR, Wreeler C, <u>Fiarl FinBD</u> Pharmacyservices for shielding patients should at a subhapirt for those who are housebound 2022 Pharmacutical Journal 3087962 101211/RJ2022.1.142379

Newington L., Alexander C.M., Kirby P., Saggu R.K., Wells M. Reflections an contributing to health

Appendix2 Fellowhipsawadedin2022
The experiences of people with HVI wirg with multimobidity and other complexities of aging A quilitative study Ms Claire Reterson, Lead Research Nuse and Cirical Trials Centre Manager (HV/CL)
NeuroMap-Evaluation of cortical mapping for people with incomplete spinal cordinjury Rowan Boyles, Senior Physiotherapist
Qurtifying functional mobility using dirically relevant digital behavioural biomarkers from body tracking data in older adults Mr. Liian, Eyasingh, Exch, Clinical service lead for OT & Physio Cancer; Surgery & Private Patients
Howseful are commercially available Streptococcus pyogenes (Spyogenes) rapid artigen detection tests (RADIs) in outbreaksituations? Ms Evurabera Mills, Bionedical Scientist
Resortised pelalitation for patients with large an environment legalization for patients with large and environment legalization for patients with
treatment Mis Kelly Wade McBare, Chrical Service Lead Dictition
Animestigation of the feasibility of exercises for the treatment of dysphagia after larynge dony Dr.Margaet Coffey, Speech and Language Therapist

D'GermaCurie, SpeechardLargrage Therapist