



MCHE

MANCHESTER CENTRE
FOR HEALTH ECONOMICS

NEWSLETTER

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WELCOME! FROM THE CENTRE LEAD

Welcome to the Spring edition of our Newsletter!

We are living in unprecedented times and everyone is facing their own challenges in light of the global pandemic. The University of Manchester is involved with a number of studies developing new vaccines and evaluating potential treatments for COVID-19. The focus of most research effort across the Faculty of Biology, Medicine and Health is on how best to tackle COVID-19 and its effects. This has also involved staff being involved in re-purposing existing laboratories to be able to run diagnostic testing facilities for COVID-19. Staff based in MCHE are involved in COVID-19 work. However, in this newsletter, we have chosen to highlight existing projects that are still moving forward even within this difficult context thanks to the efforts of all the staff and students based in MCHE.

In this edition, we have our regular student spotlight section and have chosen a selection of current projects to highlight how we are working with our colleagues within Manchester, across the UK and globally. We congratulate Stuart Wright and Dr Martin Eden and welcome a new member of staff. As some 'light relief' we also highlight Hannah Hussain's experience on Ready, Steady, Cook! We have had to postpone our regular external seminar series but we continue to meet as a group using the magic of Zoom every Monday.

Very best wishes from all of us in MCHE and we all hope that you stay safe and well.

Katherine



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MASTERPLANS: USING ECONOMIC EVIDENCE FOR STRATIFIED TREATMENT OF LUPUS

MASTERPLANS (Maximising SLE Therapeutic Potential by Application of Novel and Stratified Approaches) is a research consortium, funded by the Medical Research Council's Stratified Medicine Programme, which aims to identify novel biomarkers that can be used to improve treatment prescribing decisions for systemic lupus erythematosus (SLE).

SLE is a complex and heterogeneous autoimmune disease that can affect a number of different organ systems within the body. The MASTERPLANS consortium comprises an exciting grouping of patient, industry, and academic partners. Dr. Sean Gavan and Professor Katherine Payne of MCHE are responsible for delivering the health economics research within the project. In summer 2019, the team was joined by Robert Hainsworth – a NIHR Research Methods Fellow – who designed a discrete event simulation to identify the incremental costs and QALYs of biologic treatment in current practice for SLE.

The health economics work package for MASTERPLANS used existing RCT and longitudinal cohort data available to the

consortium to understand the impact of SLE on health-related quality of life, direct health care resource use, and pathways of care. A prescribing algorithm using clinical and biomarker data is currently being developed by the consortium to predict the likelihood of response to biologic agents. The health economics team undertook early model-based cost-effectiveness analyses to understand the value of treatment stratification for SLE and the parameters of the prescribing algorithm that drive estimates of cost-effectiveness (CE).

Following MASTERPLANS, MCHE is involved in a study to collect further patient-level data in order to validate the stratification algorithms. The MASTERPLANS Showcase took place on 5 March 2020; Dr. Sean Gavan presented findings from an early CE analysis of treatment stratification in SLE and Professor Katherine Payne contributed to a panel discussion on how patient and public involvement in MASTERPLANS has been essential to the success of the project.

For more info, please visit:
<http://www.lupusmasterplans.org/home.html>



“A prescribing algorithm using clinical and biomarker data is currently being developed by the consortium to predict the likelihood of response to biologic agents.”



THE USE OF LOCUM DOCTORS IN THE NHS: UNDERSTANDING AND IMPROVING THE SAFETY AND QUALITY OF CARE

The NIHR Health Service and Deliver Research programme has funded a two year project to help further our understanding on the use of locum doctors in the NHS and the impact this may have on safety and quality of care. The dual-methods study combines the use of a national survey of NHS organisations, in-depth qualitative research in some case study organisations/sites, and quantitative analysis of

existing routine data sets. The interdisciplinary team comprises researchers from the Division of Population Health, Health Services Research and Primary Care, the Division of Pharmacy and Optometry and the Alliance Manchester Business School. Two quantitative work packages, focusing on locum use and the safety and quality of care in primary and secondary care, are led by Dr Thomas Allen from MCHE.

For more info, please visit:
<https://www.ihpo.manchester.ac.uk/research/projects/the-use-of-locum-doctors-in-the-nhs/>



IDVA: INDEPENDENT DOMESTIC VIOLENCE ADVISOR SERVICE

Dr Will Whittaker is leading an evaluation of a hospital-based Independent Domestic Violence Advisor (IDVA) which is a new service which has been implemented in hospital settings in a local authority area of England. The evaluation aims to better understand this service both in terms of its economic impact and the process of implementation by conducting a dual-methods evaluation comprising both qualitative and quantitative research streams. The evaluation is being conducted in the Organising Care theme of the NIHR ARC-GM, for which Dr Whittaker is deputy theme lead.

UPCOMING MCHE SEMINARS

Professor Philip Clarke
Director of HERC
University of Oxford

Dr. James Love-Koh
Research Fellow
University of York

ARC-GM: APPLIED RESEARCH COLLABORATION - GREATER MANCHESTER

The National Institute for Health Research (NIHR) Applied Research Collaboration (ARC) - Greater Manchester is one of 15 ARCs across England, part of a £135 million investment by the NIHR to improve the health and care of patients and the public. ARC-GM is part of Health Innovation Manchester, and our research activity will be pivotal in finding new and better ways of preventing illness and delivering care, ensuring that Greater Manchester (GM) continues to be at the leading edge of health innovation, care and treatment.

There are seven research themes in the GM ARC, and Manchester Centre for Health Economics (MCHE) staff are contributing to research in a number of themes. Dr Will Whittaker is Deputy

Lead for the Organising Care theme, which is initially exploring: access to care in GM; workforce, roles and skill mix in GM; and the integration of health and social care in GM. Dr Tom Mason is the quantitative research lead on the Evaluation Theme, which is initially focused on: delivery of rapid evaluation to support evidence-based innovation in health and care settings; and enhancing relevance by ensuring that research includes patient populations with the greatest need.

For more info, please visit:
<https://www.arc-gm.nihr.ac.uk/>

PREFCORE: QUANTIFYING AND IMPLEMENTING PATIENT PREFERENCES FOR THE TREATMENT OF HIGH-RISK RECTAL CANCER

PrefCoRe (quantifying and implementing patient preferences for the treatment of high-risk rectal cancer patients) is a joint collaboration between MCHE (Professor Katherine Payne and Garima Dalal) and rectal cancer clinical team at Manchester Cancer Research Centre (MCRC). The project is funded by the NIHR Research for Patient Benefit (RfPB) programme.

There are over 16,000 new cases of rectal cancer per year in the UK. Treatment for high-risk patients includes chemo-radiotherapy (CRT) followed by resection surgery. However, surgery carries major risks such as peri-operative mortality, permanent colostomy, bladder and sexual dysfunction and therefore reduced quality of life.

There is evidence that up to a quarter of patients may experience a total regression of the tumour following CRT, known as clinical complete response (cCR) and therefore potentially avoid surgery. In these patients, watch-and-wait (W&W) is a novel management

strategy that involves monitoring them to ensure tumour has not returned with the long-term aim of avoiding surgery.

Despite W&W often being the preferred treatment option among oncologists, little research has been carried out on patient preferences to understand how patients balance these management options.

PrefCoRe aims to do the following: conduct a discrete choice experiment (DCE) to understand preferences for (i) CRT followed by surgery, (ii) CRT followed by W&W and (iii) surgery alone; develop a user-friendly patient decision aid (PtDA) informed by the DCE; and finally test the usability of this PtDA with the aim of identifying its position in the treatment pathway.

For more info, please visit:
<https://complete-response.com/prefcore/>

RECENT MCHE PRESENTATIONS

Rachel Elliott. Using health economics to optimise medicines-taking in people with chronic illness. RCSI, University College Dublin, Ireland, September 2019.

Rachel Elliott. The role of health economics in the development, evaluation and commissioning of new technologies. Association of Pharmaceutical Scientists Conference (keynote), Greenwich, London, September 2019.

Katherine Payne. Being an academic health economist: who, where, what, how? Webinar presentation to graduate students at the Kennedy Pharmacy Innovation Center and South Carolina College of Pharmacy, University of South Carolina Campus, February 2020.

Stephen Birch. Needs-based planning for the oral health workforce. International Association for Dental Research Scientific Meeting, Vancouver, Canada, June 2019.

Stephen Birch. International Association for Dental Research Scientific Meeting, Vancouver, Canada. Economic evaluation models and their appropriateness for dentistry.

Stephen Birch. Development and application of a needs-based workforce planning model for the oral health workforce in Ireland. International Association for Dental Research Asia-Pacific Scientific Meeting, Brisbane, November 2019.

Stephen Birch. Where have all the old folks gone? Children's Health Queensland Health Services Research Conference, Brisbane, November 2019.

IN OTHER NEWS...

Congratulations to Stuart Wright for being promoted to Research Fellow • Congratulations to Dr Martin Eden who successfully defended his PhD thesis • Welcome to Dr. James Higgerson who has joined MCHE as Research Fellow

COOK-OFF IN READY STEADY COOK

Hannah Hussain from MCHE recently took part in BBC One show Ready Steady Cook. Hannah describes the experience:

"Having grown up watching Ready Steady Cook when I heard it was making a come back I knew I just had to apply. I love cooking and baking for my family and friends, and I am always keen to try new recipes and experiment with flavours, so for me the Ready Steady Cook experience was a lot of fun. I went up to Glasgow in January for the filming. I was asked beforehand which ingredients I would want to bring as part of my basket, I wanted to challenge the chef by bringing items that wouldn't easily fit a particular dish,

buy my chef did well and managed to make some amazing dishes using all of my chosen ingredients in such a limited time. It was interesting to see what goes on behind the scenes and just how many people are involved in the running of a TV show. It was a fantastic experience and has encouraged me to cook even more at home."

For the recipe, please visit:
https://www.bbc.co.uk/food/recipes/lamb_souvlaki_96675



RECENT MCHE PUBLICATIONS

Jones C, Payne K, Verstappen S. Towards a mapping study predicting presenteeism using health status: a qualitative conceptual analysis. Quality of Life Research 2020 (in press)

Faulkner E, Holtorf A-P, Qalton S, Liu CY, Lin H, Biltaj E, Brixner D, Barr C, Oberg J, Shandhu G, Siebert U, Snyder SR, Tiwana S, Watkins J, Payne K. Being precise about precision medicine: What should value frameworks incorporate to address precision medicine? A report of the Personalized Precision Medicine Special Interest Group. Value in Health 2020 (in press)

Trenaman L, Stacey D, Bryan S, Payne K, Hawker G, Bansback N. Long-term effect of patient decision aids on use of joint replacement and health care costs. Osteoarthritis and Cartilage 2020 (in press)

Gavan SP, Payne K, Bruce I. Generating evidence to inform Health Technology Assessment of treatments for Systemic Lupus Erythematosus: a systematic review of decision-analytic model-based economic evaluations. Lupus Science & Medicine 2019 (in press)

Robles LA, Wright SJ, Hackshaw-McGeagh L, Shingler E, Shiridzinomwa C, Lane JA, Martin RM, Burden S. Prostate cancer survivors' preferences on the delivery of diet and lifestyle advice: a pilot best-worst discrete choice experiment. Pilot and Feasibility Studies 2020; 6(2)

Allen T, Walshe K, Proudlove N, Sutton M. Using quality indicators to predict inspection ratings: cross-sectional study of general practices in England. British Journal of General Practice 2020; 70(690): e55-e63

Jones C, Verstappen SMM, Payne K. A systematic review of productivity in economic evaluations of workplace interventions: a need for reporting criteria? Applied Health Economics and Health Policy 2019; 17(5):591-613

Shields GE, Rogers KD, Young A, Detosi S, Davies L. Health State Values of Deaf British Sign Language (BSL) Users in the UK: An Application of the BSL Version of the EQ-5D-5L. Applied Health Economics and Health Policy (2020)