Welcome to the HEHTA Newsletter

A very warm welcome to HEHTA’s summer 2016 newsletter. In this edition we showcase a number of exciting events and developments in HEHTA. Amongst these include attendance at a Horizon 2020 research meeting in Brussels, HEHTA presentations at the HESG Summer 2016 Conference, hosted by UCL and held at the Lopesan Costa Meloneras resort in Gran Canaria, Spain, presentations at SMDM’s 16th Biennial European Conference in London in June 2016 and at the EuHEA conference in Hamburg in July.

HEHTA are delighted to launch the first of our new online CPD training courses ‘Health Economics for HTA’, the first of a number of forthcoming courses. We welcome 4 new team members, Dr Neil Hawkins has joined us from the London School of Hygiene and Tropical Medicine as our new Professor of HTA, Dr Caoimhe Ryan, Dr Jose Antonio Robles-Zurita and Dr Houra Haghpanahan also join the team. This edition highlights ongoing research in device evaluation in chemotherapy (CAVA), HEHTA’s recent agreement to provide statistics support to NHS Scotland, celebrate the successful first year of HEHTA’s NIHR Complex Reviews Support Unit and report the latest GhESS seminar series speaker. HEHTA are delighted to see the pitter patter of another baby with the safe arrival of Dr Hannah Hesselgreaves baby boy, Noah. HEHTA team members also showcase personal success at the Isle of Skye and Edinburgh marathons.

We hope you enjoy reading this newsletter. For further details about HEHTA’s work or to contact us for more information please visit:
http://www.gla.ac.uk/researchinstitutes/healthwellbeing/research/hehta/
twitter.com/HEHTAGlasgow

Horizon 2020 PATHway: Technology enabled behavioural change as a pathway towards better self-management of Cardiovascular Disease. European Commission first review meeting, Brussels

Moirà Aitken, Research Coordinator, HEHTA, attended the European Commission first review meeting of the Horizon 2020 PATHway project in Brussels on 16th March 2016. The PATHway Consortium, coordinated by Dublin City University, comprises 8 partners from across Europe. The University of Glasgow Principal Investigator and lead for the Health Economics work package is Professor Andrew Briggs.

PATHway proposes a novel approach to Cardiac Rehabilitation (CR) aimed at empowering patients to more effectively self-manage their Cardiovascular Disease (CVD). CVD is the leading cause of premature death and disability in Europe and worldwide, costing the EU economy almost EUR 196 billion a year. While effective CR improves mortality and morbidity rates, uptake of community-based CR is very low across member states. PATHway will provide individualized rehabilitation programs, made possible by the provision of an internet-enabled, sensor-based home exercise platform that allows remote participation in CR exercise programs. The health economic evaluation will evaluate the health outcome and resource use consequences of the Pathway intervention.

The European Commission review reported very favourable progress in year 1. The project has fully achieved the objectives and milestones laid out in the grant agreement and in, terms of scientific and technological achievements has, in some cases, exceeded what was planned. The Commission reported that the consortium is clearly advancing state-of-the-art and providing an example for user-centred design that can be a model for other EU-funded projects.
New online course –
Health Economics for HTA

The first run of our online Health Economics for Health Technology Assessment short course finished on 24th June. This course is the first of the constituent courses of our MSc in HTA to be offered as online CPD, and it is planned to run further courses in 2016-17 – more details in our September newsletter.

Decision Analytic Modelling Methods course – 26-30 September 2016
“Places still available on both Foundations and Advanced courses”

We have been running this course in Glasgow for ten years now, and it continues to run at full capacity – early booking is advised if you wish to secure a place.

The Foundations course runs from 26-27 September, and is designed for participants who are familiar with the basic principles of economic evaluation who wish to build, interpret and appraise decision models.

The Advanced course runs from 28-30 September and is designed for participants who are familiar with basic decision modelling who wish to learn how to use more advanced modelling methods.

Full details of all our CPD courses can be found at www.gla.ac.uk/hehta under Continuing Professional Development.

BMJ Awards 2016

Congratulations to Emma McIntosh and Kathleen Boyd, co-authors on the UK Clinical Research Paper of The Year at the BMJ Awards 2016. The award for their paper on ‘Bronchiolitis of Infancy Discharge Study (BIDS): a multicentre, parallel-group, double-blind, randomised controlled, equivalence trial with economic evaluation’ was collected by Dr Steve Cunningham.

Glasgow Health Economics Seminar Series (GhESS)

Jemimah Ride, from the Centre for Health Economics at the University of Monash, is the most recent speaker in the Glasgow Health Economics Seminar Series (GhESS). She presented on ‘Inequality and Postnatal Mental Health’ at Glasgow Caledonian University on 29th June.

GhESS, which is run in partnership with Glasgow Caledonian University, aims to encourage engagement and collaboration amongst the health economists in Scotland and to promote and develop Health Economics research. We have two more seminars coming up in September – on Tuesday 20th John Cairns from LSHTM will be with us, followed by Philip Clark from the University of Melbourne on Friday 23 September. HEHTA are hosting both of these seminars at 1 Lilybank Gardens.

Stats Support NHS Scotland

Service level agreement with NHS Health Scotland

Since 2012, HEHTA has provided NHS Health Scotland with statistical support for their programmes of work, which has included the evaluation of Keep Well and the Alcohol Act in Scotland. Through this agreement, HEHTA has developed excellent working relationships with senior staff at NHS Health Scotland (such as Clare Beeston, Gerry McCartney, Mark Robinson) which has led to numerous academic publications (e.g. http://tinyurl.com/hflj46h, http://tinyurl.com/pksy7ds) and letters of support for grant applications (such as the successful NIHR PHR change in drink-drive legislation led by Jim Lewsey). Furthermore, HEHTA has provided knowledge exchange activities such as capacity building sessions for NHS Health Scotland staff on topics such as time series, survival analysis, and general guidance on the key steps of a quantitative research project.

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Spotlight on CAVA

The Cancer and Venous Access project (CAVA) is a randomised controlled trial incorporating pre- and post-trial qualitative research, aimed at comparing three types of central venous access device used in chemotherapy. The three devices – (i) Hickman type devices, (ii) peripherally inserted central catheters (PICCs), and (iii) implantable chest wall ports – will be compared on dimensions of safety, clinical effectiveness, cost effectiveness, and patient experience.

Participant recruitment is ongoing at fourteen sites across the UK. Meanwhile, CAVA is currently preparing to commence the post-trial qualitative component of the project. Caoimhe Ryan, who joined HEHTA in April, will take the lead on this study which will include focus groups with patients who have completed the trial, and interviews with clinical staff involved in its running. The goal of the patient focus groups will be to ensure that understandings of patients’ perspectives and lived experiences are incorporated into the outputs and recommendations of the CAVA project. The main aim of the staff interviews will be to identify perspectives on device acceptability and factors likely to limit or facilitate future changes in clinical practice.

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We’re delighted to welcome Dr Neil Hawkins as our new Professor of Health Technology Assessment (HTA) at HEHTA. Neil has extensive expertise in health technology assessment, with particular focus on evaluation of early stage technologies, precision medicine, evidence synthesis and decision analytical modelling. He is a regular advisor to pharmaceutical and biotech industries and has acted as an external consultant to the National Institute of Health and Care Excellence (NICE) Scientific Advice Programme.

Neil joins us from the London School of Hygiene and Tropical Medicine (LSHTM), where he has been Reader in HTA. “I am delighted to be joining the HEHTA team and am excited about the potential to use Scottish health-related data to improve the use of healthcare technologies and contributing to the development of precision medicines at the Stratified Medicines Scotland Innovation Centre.”

Caoimhe joined HEHTA in April 2016 as a qualitative research associate, working primarily on the qualitative post-trial component of the Cancer and Venous Access (CAVA) trial.

Before coming to HEHTA, she completed a PhD in Social Psychology at the University of St Andrews, and also has an MSc in Social and Cultural Psychology from the London School of Economics.

Caoimhe’s interests lie in questions of self, identity, and wellbeing. Her doctoral thesis investigated the role identity and representation in grassroots anti-deportation campaigns. Prior to her doctoral training, she worked on two consecutive CSO projects at the University of Stirling and the University of Strathclyde investigating psychological factors associated with suicidal behaviour and repeated self-harm.

As well as her work at HEHTA she is also currently involved in a project with Dr Ken Mavor at the University of St Andrews entitled: ‘Prevalence to Process: Self, Identity and Wellbeing in Medical Training and Practice’.

Houra joined HEHTA in May 2016 as a part time researcher. She will be starting her work on meta-analysis full-time in January 2017. As well as part-time work in HEHTA, Houra currently holds the post of Research Fellow in the Faculty of Health Science and Sport at University of Stirling.

The current Chief Scientist Office (CSO) funded study, she works as an econometrician to investigate the impact of tobacco control Mass Media Campaigns on quitting behaviour, smoking prevalence and smoking-related health outcomes applying time series analysis.

Before joining HEHTA, Houra completed her PhD in Economics at the University of Leicester in July 2015. This followed on from her Master in Economics in the same department in 2010. She received a BSc degree and an MCs degree in Economics from Shahid Beheshti University, Tehran, Iran.

Houra’s main research interest lies in the area of Health Economics and Applied Econometrics.

We also welcome back... Kathleen Boyd who has been on maternity leave.
As the NIHR CRSU, lead by HEHTA Director Professor Olivia Wu, moves into its second year, the following is a summary of work to date and work in progress.

The Unit is working with several Cochrane Review Groups to provide expertise and support in the delivery of complex reviews of importance to the UK NHS.

Two oversubscribed and very successful workshops were held at The UK and Ireland’s Cochrane Symposium 2016 in Birmingham in March; ‘Methodological Challenges in Complex Reviews’ and ‘The NIHR Systematic Reviews Programme: Opportunities for Greater Impact’

The Unit’s website, hosted on the University of Glasgow server, has now been developed and a Twitter account has a growing Twitter audience; www.nihrcrsu.org @nihrcrsu

The introduction of ‘Seminars with Cutting Edge Methods’ will launch on 12th May 2016 at the University of Leicester; http://nihrcrsu.org/researchinstitutes/healthwellbeing/crsu/courses%20and%20conferences/

In year two, CRSU plans to continue its outreach to the research community to provide novel and sophisticated methodological approaches in synthesising different types of data.

Value of Information Analysis of Precision Medicine

Glasgow University is at the heart of an exciting new development in medicine known as stratified, or precision, medicine. This work is currently focused on using genomics to help identify groups of patients who may benefit best from certain treatments but may eventually lead to the personalization of medicine.

HEHTA’s Andy Briggs won funding to use Value of Information analysis to help prioritise the projects comparing a ‘Fast and Frugal’ minimal modelling approach to a full modelling approach. This three year project will look at one exemplar project from each of the disease area groups, cancer, cardiovascular disease and inflammatory diseases, of the Glasgow Molecular Pathology node.

HEHTA’s Janet Bouttell is also working on her PhD in this area including evaluating a project on inflammatory arthritis which seeks to identify markers to indicate whether a patient will respond to first-line treatment, methotrexate. Currently 60% of patients do not respond to this treatment and continue to deteriorate for a six-month period before they can be prescribed an alternative. In the US and Europe the annual incidence of inflammatory arthritis is 400,000 and costs more than $11.6 billion. The potential impact of targeted prescribing could have substantial impacts on both cost and quality of life.

More details on precision medicine can be found at http://www.stratmed.co.uk/aboutus

Congratulations to the team from HEHTA who completed the Edinburgh Marathon by relay on Sunday 29th May! Looking remarkably fresh are Alieda McKinney, Mohsen Rezaeihemami, Janet Bouttell and Nicki Boyer. Word is they have all been inspired to run it individually next year………………

Emma McIntosh successfully completed the Isle of Skye half marathon on 11th June and is pictured here with her fellow runners.

The HEHTA baby count has risen by one with the birth of Noah, the new son of Hannah Hesselgreaves.
Two papers by HEHTA members were presented at HESG 2016 which took place between 21 and 23 June in Gran Canaria.

Population health economic evaluation of the school-based Roots of Empathy programme in Northern Ireland – Nicole Boyer, Emma McIntosh, Sarah Miller (Queen’s University Belfast), Paul Connolly (Queen’s University Belfast)

This paper presents one of the first ever economic evaluations of a school-based, cluster randomised, controlled trial of Roots of Empathy, an intervention that aims to promote prosocial behaviour and decrease aggressive behaviour, for pupils in Northern Ireland.

Testing the construct validity of the ICECAP-O instrument in Parkinson’s and exploring its relationship with the EQ-5D-3L and the Parkinson’s specific quality of life (QoL) questionnaire the PDQ-39 - Yiqiao Xin, Jim Lewsey, Emma McIntosh, Richard Gray (University of Oxford), Carl E Clarke (University of Birmingham), Joanna Coast (University of Bristol)

Parkinson’s is a chronic neurodegenerative condition which can have a broad spectrum of impact on people’s health and wellbeing in relation to motor and non-motor symptoms. To capture those impact, there are a number of condition specific measures routinely used in Parkinson’s such as the clinical measure, the Hoehn and Yahr scale, and the QoL measure, the Parkinson’s disease questionnaire PDQ-39. Besides, preference-based generic measures are also commonly used to enable economic evaluations typical cost utility analysis, such as the Euroqol EQ-5D health-related QoL measure. Despite the popularity, concerns are raised that some impacts of Parkinson’s, especially with regards to mental health and wellbeing, may not be sufficiently valued by available generic preference-based health-related QoL measures. To date however there is no available preference-based outcome measure which has valued the broad spectrum of attributes of Parkinson’s wellbeing states. To broaden the evaluative space, the ICECAP-O capability instrument was developed with a focus on wellbeing rather than health alone for use in economic evaluations.

The objective of this study is to empirically test the construct validity of ICECAP-O in Parkinson’s and explore its relationship with EQ-5D-3L and the PDQ-39. The data for this study were collected from 1010 participants with early Parkinson’s and 227 with later Parkinson’s in the PD MED trial. Expected mean differences and odds ratio between early and later groups and the expected correlations between the three measures were tested using linear and proportional odds regression models and Pearson correlation coefficients respectively. Important differences were found between the two severity groups in terms of total capability score and responses for all ICECAP-O attributes. The results showed that ICECAP-O is able to discriminate between early and later stages of Parkinson’s and is highly correlated with validated QoL measures. It is indicated that there are valued capability wellbeing attributes in Parkinson’s beyond those reflected by the EQ-5D instrument. Such evidence highlights the need for decision makers to include values of such attributes within decisions related to the provision of interventions and services in Parkinson’s and other diseases requiring a broader evaluative space.

www.gla.ac.uk/media/media_475669_en.pdf

SMDM – 16th Biennial European Conference, London (12-14th June 2016)

Jim Lewsey and Jennie Clark attended this conference to present work on a natural experiment evaluating the Alcohol Act and to promote HEHTA teaching activities. There was a stimulating scientific programme including topics such as risk perception, outcome measurement, cost-effectiveness and shared decision making. In the first keynote presentation, Ralph Hertwig gave an introduction to the concept of “boosting”, an alternative to “nudging”, where the aim is to improve people’s decision making competence by improving knowledge, perhaps by collective intelligence. He argued such an approach can lead to generalisable and lasting behaviour. In the second keynote, Mark Graber gave a stimulating talk on diagnosis, in particular the dangers of diagnostic error and exploring what factors influence it. He introduced concepts such as “normalisation of deviance”, how breakdowns can occur in the intuitive pathway, and laid out what he felt are the key areas for future research.

HEHTA’s Qualitative Methods Theme

As part of HEHTA’s continued drive to conduct and inform future mixed-methods and qualitative research within Health Economics, Dr Hannah Hesselgreaves has helped establish a Qualitative Research Methods Group.

On June 6th Dr Hesselgreaves along with colleagues, Dr Young and Dr Maycock from the MRC Social and Public Health Sciences Unit, hosted the inaugural meeting of the IHF Qualitative Research Methods Group. The group comprises researchers either currently conducting qualitative work or interested in learning more about qualitative methods to inform their work. It is an opportunity for researchers to network with others and to foster future collaboration across the institute.

In this meeting, attendees discussed their expectations and primary motivations for taking part and the following aims for the group were agreed:

- A programme of events/activities to start in the Autumn, which will include seminars in collaboration with MRC/CSO Research Skills Seminars (http://www.sphsu.mrc.ac.uk/events/seminars/);
- A discussion and networking forum, which will be peer led and also potentially to include external speakers;
- Establish a mailing list and web presence.

This group is open to all IHF researchers and welcomes suggestions for future activities, opportunities and involvement from across the institute. Further information will be circulated and available over the summer. Please contact ihwadmin@glasgow.ac.uk for further information.

There will be a HEHTA presence at EuHEA Conference 2016 which takes place in Hamburg 13-16 July. Nicola McMeekin will present a poster titled ‘Conceptual modelling for economic evaluation – can frameworks from other disciplines inform an economic evaluation framework?’ Nicole Boyer will present on ‘Population health economic evaluation of the school-based Roots of Empathy programme in Northern Ireland’.
Publications


Presentations

'Valuing Community Empowerment in an Urban Regeneration Context as an alternative pathway to health gains: a Discrete Choice Experiment' Camilla Baba, Emma McIntosh, Carol Tannahl (Public Health, University of Glasgow) 13th International Conference on Urban Health, San Francisco, USA, 1-4.4.16

'Valuing Community Empowerment in an Urban Regeneration Context as an alternative pathway to health gains: a Discrete Choice Experiment' Camilla Baba, Emma McIntosh, Carol Tannahl (Public Health, University of Glasgow) Centre for Health Economics, University of York, England, 12.5.16

'The Economics of Prevention', Emma McIntosh, plenary presentation, Public Health Annual Research and Practice Conference 2016, Riddell Hall, Belfast, 8.6.16

'Cost Effectiveness Of Different Cervical Screening Strategies In I. R. Iran: A Middle-Income Country With A Low Incidence Rate Of Cervical Cancer', poster presentation, Monsher Rezaei, IARC Conference - Global Cancer Occurrence, Causes, and Avenues to Prevention, Lyon, France, 8-10.6.16

'Broadening the evaluative scope of quality of life in Parkinsonʹs: testing the construct validity of the ICECAP-O instrument', poster presentation, Yiqiao Xin, Jim Lewsey, Emma McIntosh, 20th International congress of Parkinson’s diseases and movement disorders, Berlin, Germany, 20.6.16

'Valuing Community Empowerment in an Urban Regeneration Context as an alternative pathway to health gains: a Discrete Choice Experiment' Camilla Baba, Emma McIntosh, Carol Tannahl (Public Health, University of Glasgow) Public Health PhD symposium, John Moore University, Liverpool, 7.7.16

'Randomness beliefs and decisions on risky medical treatments', Jose Robles-Zurita, Jose Luis Porte-Prados (University of Navarra and Glasgow Caledonian University) IAREP/SABE 2016 Conference 'Behavioural Insights in Research and Policy Making', Wagening, Netherlands, 7-10.7.16

'Determinants of healthcare expenditure at the end of life for cancer patients in Scotland’, Claudia Geue, Olivia Wu, Jim Lewsey, EuHEA, Hamburg, Germany, 14.7.16

'The Scottish Keep Well Health Check: programme: an interrupted time series analysis', Jose Robles-Zurita, Jose Luis Porte-Prados (University of Navarra and Glasgow Caledonian University) IAREP/SABE 2016 Conference 'Behavioural Insights in Research and Policy Making', Wagening, Netherlands, 7-10.7.16

'Population health economic evaluation of the school-based Roots of Empathy programme in Northern Ireland’, Nicki Boyer, EuHEA, Hamburg, Germany, 15.7.16

'The inpatient and social care cost of atrial fibrillation in Scotland’, Claudia Geue, Olivia Wu, Jim Lewsey, EuHEA, Hamburg, Germany, 15.7.16

'Cost of interventions related to laughter and happiness', Jose Robles-Zurita, Jose Luis Porte-Prados (University of Navarra and Glasgow Caledonian University) IAREP/SABE 2016 Conference 'Behavioural Insights in Research and Policy Making', Wagening, Netherlands, 7-10.7.16

'Innovations in Public Policy Making”, Wagening, Netherlands, 7-10.7.16

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'Can conceptual modelling methodology from other disciplines inform conceptual modelling methodology in economic evaluations of healthcare?', poster presentation, Nicola McMeekin, EuHEA, Hamburg, Germany, 15.7.16

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