
Foreword

Greetings from the Health Economics Unit. As we draw a close to 2020 I reflect back on a pretty remarkable year. There have been some major changes in the Health Economics Unit and great success to celebrate. Professor Nancy Devlin stepped down from her role as Head of the Health Economics Unit. We are delighted that Nancy will continue as a Professor with the unit and will be focusing on leading her research programmes. The Health Economics Unit is in exceptional shape thanks to both the leadership of Professor Nancy Devlin and her predecessor Professor Philip Clarke. It is now my pleasure to lead the group which is composed of over 20 health economics researchers. I've been reflecting on one of the important strengths of the unit which rests with our early career researchers and students. Thank you particularly for their grit this year. Nobel Prize winner (1906) Santiago Ramón y Cajal observed:

"All outstanding work, in art as well as in science, results from immense zeal applied to a great idea."

In 2020 we have seen many examples of great ideas and immense zeal. Some of the year's notable achievements include the commencement of the MRFF funded QUality Of Life in Kids: Key evidence to strengthen decisions in Australia (QUOKKA) project which is in full swing. Other achievements include Xinyang Hua being awarded the Victorian Premiers award in Health Science for her PhD research supervised by Professor Philip Clarke. We have welcomed new researchers Dr Cate Bailey, Dr Louise Freijser, Dr Xinyang Hua (returning), Dr Yan Meng, Emily Hulse, Lachlan Cameron, Daniel Sheen, Patrick Abraham and Dr Tessa Peasgood who bring considerable strength to the unit. PhD candidates Rachel O'Loughlin, Marie-Anne Boujaoude and Lachlan Cameron commenced with us during 2020 and Michelle Tew has submitted her thesis for examination. A special mention to our teaching team this year (Tessa Peasgood, Anthony Niu, Ilias Gorantis and Natalie Carvalho among others) who managed to get 4 Masters level teaching subjects and our short courses online and successfully taught on very short time frames- well done!

We have seen strong publications and research growth the areas of genomics, infection, paediatrics and chronic disease forging ahead. Thank you to all of our collaborators and colleagues and we wish you all a Merry festive season. Looking forward to more great ideas and immense zeal in 2021. Best wishes.

Associate Professor Kim Dalziel

Head of the Health Economics Unit



(Left: A/Prof Kim Dalziel, Right: Prof Nancy Devlin)

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Upcoming Health Economics Short Courses

In 2021, we are offering four short courses. For more course information, please click [here](#) or [contact us](#).

Introduction to Cost-Effectiveness Analysis in Health

A one-day short course providing participants with an understanding of how economic analysis can be used to evaluate health programs and aid decision making.

18-19th March 2021 | Online | 9am to 1:30

8th October 2021 | In-person | 9am to 5pm

Click [here](#) to register

Evaluating public health interventions using economic and epidemiologic methods

A one-day workshop focusing on the evaluation of public and population health programs with a focus on preventive interventions and an overview of how cost-effectiveness and cost-benefit analyses.

Date offered: 15th April 2021 | Online | 9am to 5pm

Click [here](#) to register

Practical Methods for Health Economic Evaluation

A three-day intensive computer-based course in methods for health economic evaluation, using STATA and TreeAge. The course covers study design principles, techniques for analysing costs and outcomes and an introduction to decision models.

Date offered: 21-23rd April 2021 | Online | 9am to 5pm

Date offered: 27-29th October 2021 | In-person | 9am to 5pm

Click [here](#) to register

Designing Economic Evaluation Alongside Clinical Studies

A one-day course providing an overview of economic evaluation alongside randomized controlled trials and other studies, with particular focus on the design and practical aspects.

Date offered: 12th May 2021 | Online | 9am to 5pm

Click [here](#) to register

Featured News

Health Economics Unit EuroQoL grant success: testing EQ-5D-Y for use in children aged 2-5 years

A/Prof [Kim Dalziel](#), together with HEU's [Prof Nancy Devlin](#) and [Dr Li Huang](#), in collaboration with Prof Mike Herdman (Office of Health Economics), A/Prof Oliver Rivero-Arias (Oxford University), and Prof Harriet Hiscock (The Royal Children's Hospital), have been awarded an EuroQoL grant to develop and test a version of EQ-5D-Y for use in children aged 2-5 years using a mixed methods approach.

Few health-related quality of life measures are available for estimation of child QALYs with a nearly clear absence of measures for children under 5 years, despite younger children being greater consumers of health care services than older children. The project, led by A/Prof Kim Dalziel, aims to establish if the EQ-5D-Y can be used for children 2-5 years and to co-design a suitable adaptation for testing with parents/carers. [Read More](#)



L to R - A/Prof Kim Dalziel, Prof Nancy Devlin & Dr Li Huang

COSMO-t1d: A new tool for communicating the benefits of improving risk factors in people with type 1 diabetes

COSMO-t1d - Comprehensive Outcomes Simulation Model for patients with type 1 diabetes



[Dr An Duy Tran](#) and his colleagues at the Universities of Melbourne, Oxford, Michigan and Gothenburg and other research institutes in Australia have recently published a [study in Diabetes Care](#), which involved the development of a simulation model for type 1 diabetes based on a nationwide population of nearly 28,000 people with type 1 diabetes in Sweden. Given the high complexity of the model, Dr An Duy Tran has developed an [interactive web application](#) to facilitate communication between researchers, healthcare professionals and people with type 1 diabetes on the benefits of improving risk factors.

An's work on this web application ([COSMO-t1d](#)) and on the development of an [iOS mobile app](#) and an [Android mobile app](#) for cardiovascular risk assessment in Indigenous Australians has been awarded by the Melbourne School of Population and Global Health with a 2020 Research Achievement Award for Technical Innovation. This award was presented to recognise of his innovative ideas of translating research findings into decision support tools. [Read More](#)

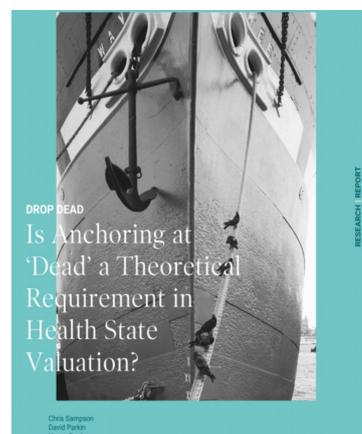
Cost-effectiveness of inhaled oxytocin for prevention of postpartum haemorrhage: a modelling study applied to two high burden settings

A recent [article](#) by [Dr Natalie Carvalho](#) from the Centre for Health Policy and colleagues at the Nossal Institute for Global Health, in collaboration with Monash Institute of Pharmaceutical Sciences, has been published in the [BMC Medicine](#). This article modelled the cost-effectiveness of a heat-stable, non-injectable inhaled oxytocin product, for the prevention of postpartum haemorrhage in two high burden settings, Bangladesh and Ethiopia.

The authors find that use of inhaled oxytocin would be cost-saving in Bangladesh, and could avert an estimated 18,644 cases of postpartum haemorrhage, or 76 maternal deaths, and 1954 life years lost. In Ethiopia, with high levels of institutional delivery and low rates of uterotonic coverage among home deliveries, the incremental cost-effectiveness ratio of a roll-out of inhaled oxytocin fell between 2 and 3 times per capita Gross Domestic Product. This study demonstrates the importance of a country's unique policy environment (resulting in distinctions in delivery location and uterotonic coverage), on the health gains and cost-effectiveness of implementation of inhaled oxytocin for prevention of postpartum haemorrhage. [Read More](#)

Drop Dead: Is anchoring at 'dead' a theoretical requirement in health state valuation?

Released this week is a new paper by [Professor Nancy Devlin](#) and colleagues at the Office of Health Economics in London. By convention, values for generic 'preference-based' measures, such as the EQ-5D, are anchored at 1 = full health and 0 = dead. This paper challenges the assumption that anchoring health state values at 'dead = 0' is a necessary condition for values to be used in quality-adjusted life year (QALY) estimation. The authors consider five propositions, using narrative review of the literature and conceptual explication of the problem: (1) anchoring at 'dead' is not required by theories of scale measurement and utility; (2) calculating QALY gains does not require a distinction between states better than and worse than dead; (3) cost-effectiveness analysis does not require that 'dead' has a value relative to health states; (4) using 'dead' as an anchor causes problems that make studies difficult to conduct and their results difficult to interpret; and (5) there are alternative states to 'dead' that exhibit favourable properties for anchoring. The authors conclude that, in valuing health states, researchers should 'drop dead'. [Read More](#)

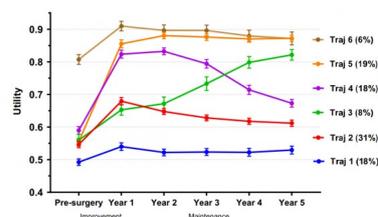


The value of genomic sequencing in complex pediatric neurological disorders: a discrete choice experiment

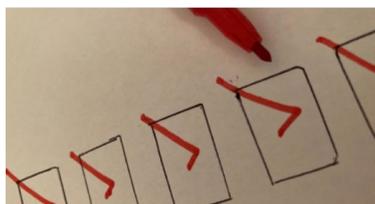
A new [study](#) led by [Dr Ilias Goranitis](#) and colleagues from [Australian Genomics](#) was recently published in *Genetics in Medicine*. The study elicited preferences from 820 members of the general public in Australia to understand the value of genomic sequencing in children with complex neurological disorders of suspected genetic origin. Preferences were elicited for the attributes: (1) number of children who receive a genetic diagnosis; (2) chance of improving the process of the child's medical care; (3) availability of treatments; (4) time until the child does the test; (5) time between test and results; (6) enabling access to other services and professional or peer support; (7) enabling access to clinical trials; and (8) cost of testing. The study concluded that society on average would be willing to pay AU\$5650 more for genomic sequencing relative to standard diagnostic care. [Read More](#)

Using PROMs to guide patient-centered care and optimise outcomes

A recent [study](#) exploring the use of patient-reported outcome measures (PROMs) by [Michelle Tew](#), [A/Prof Kim Dalziel](#) and [Prof Philip Clarke](#) at the Centre for Health Policy has been published in *Quality of Life Research*. The aim of the [study](#) was to investigate health-related quality-of-life (QoL) trajectories in the 5 years following total knee replacement (TKR) and the feasibility of translating QoL trajectories into valuable information for guiding patient-centered care and optimise outcomes. There is strong evidence indicating important heterogeneity in QoL trajectories in TKR patients indicating not all patients benefit from the surgical procedure in the same way. Knowledge of the combination of characteristics that predisposes patients to trajectories with poor health gains can be useful in anticipating possible outcomes and mitigating such risks. [Read More](#)



Criteria for item selection for a preference-based measure for use in economic evaluation



A recent [article](#) on item selection criteria for preference-based measures by [Dr Tessa Peasgood](#) from [Health Economics Unit](#), Centre for Health Policy and colleagues at Sheffield University in the UK has been published in *Quality of Life Research*. In this paper, existing criteria covering 22 different aspects related to item selection for preference-based measures are presented, including criteria related to how items are phrased to ensure accurate completion, the coverage of items in terms of range of domains as well as focus on current outcomes and whether items are suitable for

valuation. The criteria are aimed at supporting the development of new preference-based measures with discussion to ensure that even where there is conflict between criteria, issues have been considered at the item selection stage. [Read More](#)

Progress on QUOKKA (Quality of Life in Kids: Key evidence for decision makers in Australia)

[Awarded \\$2.3m from the MRFF in June 2020](#), this substantial programme of work aims to improve the measurement and valuation of children's health related quality of life. CI-A [Professor Devlin](#) comments, "despite the challenges of commencing this work during a pandemic and some delays to planning patient recruitment, the QUOKKA team has made excellent progress in its first six months". Papers are already being produced (in collaboration with an ANU-led team conducting related work) and planning for QUOKKA's key empirical projects is in place. This includes a large multi-instrument comparison study, studies to improve methods for self-reporting and proxy completion of HRQoL instruments; and research to determine whether child QALYs are considered to carry more weight than adult QALYs. The programme of work also covers method improvements for valuing children's HRQoL, and will yield a value set for use in decision making in Australia. QUOKKA is guided by engagement with a multi-stakeholder Decision Makers' Panel; the Commonwealth Department of Health, and a Consumer Advisory Group. This project runs from 2020-2023, and is a collaboration between the Health Economics Unit at UoM and UTS, Curtin, Flinders, Monash and the Murdoch Children's Research Institute.

More research news

Kids receiving ‘good enough’ mental health treatment do not improve

[Dr Jemimah Ride](#), [Dr Li Huang](#), and [A/Prof. Kim Dalziel](#), along with colleagues at the Murdoch Children’s Research Institute, Royal Children’s Hospital, University of Adelaide, and Deakin University, have recently published a [study](#) in the Journal of Affective Disorders, looking at mental health care in children and adolescents aged 8-15 years. They found that the majority of children and adolescents with mental health problems in Australia did not receive a minimum standard of treatment and even in those who did, outcomes were no better on average. [Read More](#)

A cost-effectiveness evaluation of cervical cancer prevention strategies in China

[Dr Jason Ong](#), honorary staff member at Health Economics Unit, and his colleagues at the Xi’an Jiaotong University Health Science Centre, China; Melbourne Sexual Health Centre; and The University of New South Wales recently published a study in [The Lancet Global Health](#) to evaluate the incremental cost-effectiveness ratios of 61 intervention strategies for cervical cancer screening, including a combination of various screening methods at different frequencies with and without vaccination, and also vaccination alone, from a health-care system perspective. [Read More](#)

Maximizing the probability that the 6-week lock-down in Victoria delivers a COVID-19 free Australia

Prof Tony Blakely, [Dr Natalie Carvalho](#), Laxman Bablani and Nick Wilson from Melbourne School of Population and Global Health, in collaboration with Jason Thompson and Mark Stevenson from Architecture, Building and Planning, has published a [study](#) about potential pathways to COVID elimination on the Medical Journal of Australia. [Read More](#)

New Funding and Awards

Dr Xinyang Hua is the winner of the 2020 Premier’s Award for Health and Medical Research in Health Service category

[Dr Xinyang Hua](#), HEU’s PhD graduate and current Research Fellow, is the winner of the [2020 Premier’s Award for Health and Medical Research](#) in Health Service category, in recognition of her exceptional contribution in her PhD research. Her PhD study under the primary supervision of [Prof Philip Clark](#), have filled important evidence based gaps in health economics and health service research and have had an international focus. The [study](#) on expenditure and prices of antihyperglycemic medications in the US was published in JAMA and received considerable [media attention](#). [Read More](#)

New MRFF funding for infant Tele-rehabilitation



HEU researchers [Dr Li Huang](#) and [A/Prof Kim Dalziel](#) are part of a team awarded MRFF grant to research tele-rehabilitation for infants. The project is led by Prof Alicia Spittle (Royal Women’s Hospital and University of Melbourne). The project will receive \$1.8M to research tele-rehabilitation for early intervention to improve neurodevelopmental outcomes of infants born preterm and their parents’ wellbeing using a randomised controlled trial. The project is part of the Government’s \$27M investment in research and public health, announced in MP Greg Hunt’s recent [media release](#). [Read More](#)

New funding for suicide prevention among new dads

HEU researchers [Dr Jemimah Ride](#) and [A/Prof Kim Dalziel](#) are part of team awarded funding under the Million Minds [Mental Health Research Mission](#) to research suicide prevention among new dads. [The project is led by A/Prof Rebecca Giallo at Murdoch Children’s Research Institute](#). The project will receive \$951,000 to research suicide prevention among men in early fatherhood. One of the highest rates of suicide among men coincides with becoming fathers and raising young children. This project will develop effective interventions to improve men’s mental health during early fatherhood, and our health economists will focus on analysing the cost effectiveness of the program to support future policy and practice. [Read More](#)



Professor Nancy Devlin EuroQol grant success for a new book - Value sets for EQ-5D-5L: A compendium, comparative review & user guide

[Professor Nancy Devlin](#), together with colleagues Dr Bram Roudijk (Netherlands) and Dr Kristina Ludwig (Germany), has been awarded funding by the EuroQol Group to produce a new book, "Value sets for EQ-5D-5L: A compendium, comparative review & user guide". This book will summarise the substantial programme of work internationally to produce value sets to accompany the EQ-5D-5L. [Read More](#)

Professor Nancy Devlin has been elected to the Board of the EuroQol Research Foundation

[Professor Nancy Devlin](#) has been elected to the Board of the EuroQol Research Foundation, the not-for-profit organisation which developed the EQ-5D family of questionnaires. Professor Devlin is also a member of the EuroQol Group's Working Group on use and valuation of EQ-5D questionnaires in younger populations.

Staff from the Health Economics Unit recognised at the 2020 MSPGH Annual Awards

The MSPGH Annual Awards Presentation Ceremony was held on Wednesday December 9 2020 and staff from the Health Economics Unit were recognised in a range of categories.

A/Prof [Kim Dalziel](#) - 2020 Mentor Achievement Award Mid-Career Academics

Dr [Xinyang Hua](#) - 2020 Research Achievement Award PhD Excellence

Dr [An Duy Tran](#) - 2020 Research Achievement Award Technical Innovation

[Read More](#)

More new funding

[Dr Natalie Carvalho](#) (HEU) was part of a newly awarded NHMRC Centre of Research Excellence (CRE) being led by Prof Fiona Russell (Murdoch Children's Research Institute). The CRE will focus on Pneumococcal Disease Control in the Asia-Pacific region in the pneumococcal conjugate vaccine (PCV) Era, including evaluating the potential health and economic outcomes associated with reduced dosing schedules.

Research Engagement

Health Economics Unit presence at the 37th EuroQol Plenary Meeting 2020

The Health Economics Unit (HEU) had a strong presence at the 37th EuroQol Plenary Meeting held virtually during 16-17 September, with three of the ten selected papers for presentation and in-depth discussion having HEU authors across a range of topics spanning valuation of EQ-5D-5L, large-scale collection of EQ-5D-5L and valuation of the new EQ-HWB.

Included in the programme was a paper by [Tianxin Pan](#) and [Prof Nancy Devlin](#) comparing the value sets of EQ-5D-5L and the PROMIS-Preference Score (PROPr). This work compared the characteristics of the two value sets and highlighted that they differ systematically, which has potential implications for their use in Health Technology Assessment process. Prof Nancy Devlin was also co-author of a longitudinal study of health-related quality of life among different patient groups in Swedish National Quality Registers.

[Dr Tessa Peasgood](#)'s work with colleagues from Sheffield University on a pilot qualitative study on valuing the EQ-HWB was presented. The EQ-HWB is a new classification system that covers nine aspects of health and wellbeing, taken from a larger 25 question instrument. This study is an important starting point to support the testing and modification of the EQ-VT valuation protocol for use in valuing the new EQ-HWB classifier. [Read More](#)

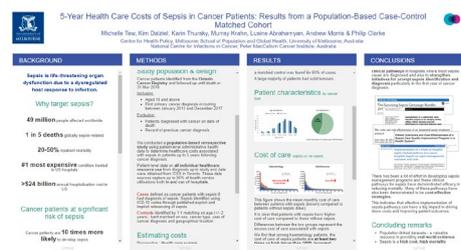
A/Prof Kim Dalziel and Dr Tessa Peasgood talk at ISPOR

[Dr Tessa Peasgood](#) was invited to share her view in the ISPOR Australian Chapter special webinar “How do we value a life in the age of COVID”, with two other speakers (David Grainger, and Dr Peter Abelson) this September. Working on wellbeing and quality of life research for over 15 years, Tessa commented on the necessity of considering both the value of lives lost and quality of life lost – particularly for those experiencing ‘long covid’.

[A/Prof Kim Dalziel](#) shared her experience in December at the end of year ISPOR Australian Chapter special webinar “Economic Evaluation in Clinical Trials”, with three other invited speakers (Prof Henry Glick, Prof Cathy Mihalopoulos, and Mr Greg O’Toole). Having worked alongside 28 clinical trials in Australia, Kim has commented on the pragmatic values of economic evaluation to clinical trials, known limitations and critical decisions in evaluation designs. [Read More](#)

PhD candidate Michelle Tew presentations at international conferences

Health Economics Unit’s PhD candidate, [Michelle Tew](#) recently presented her work on health care costs of sepsis in cancer patients at two (virtual) international conferences. Michelle contributed to an oral presentation session at the 42nd Society of Medical Decision Making Annual Meeting in October. Her abstract was selected as a finalist for the Lee B. Lusted student prize competition. Michelle also presented a virtual poster at ISPOR Europe in November. Her poster titled ‘[5-year Health Care Costs of Sepsis in Cancer Patients: Results from a Population-Based Case-Control Matched Cohort](#)’ can be viewed online. Her research showed that sepsis is a high cost, high mortality condition in cancer patients and can result in doubling of cancer care costs, particularly in the first 12 months of cancer diagnosis. This suggests the need for increased focus on the implementation of clinical pathways in hospitals where most sepsis cases are diagnosed and to strengthen initiatives for prompt sepsis identification and diagnosis particularly in the first year of cancer diagnosis. [Read More](#)



More research engagement

Prof Nancy Devlin at International HTA Roundtable

This international HTA Roundtable meeting took place online in October 2020. The Roundtable was jointly hosted by NICE International and ISPOR, and facilitated by Rosie Lovett (NICE), [Nancy Devlin](#) (University of Melbourne) and Donna Rowen (University of Sheffield). The meeting included participants from key HTA bodies internationally. A video summarising key issues was sent to participants in advance, and participants also took part in a survey to identify what methods guidance exists on this topic and what issues with evidence on children’s HRQoL have been encountered in the HTA agencies they represented. Findings from the survey, and key points arising from the Roundtable discussions, are currently being prepared for publication.

Dr Cate Bailey reported on the ISPOR Asia-Pacific conference 2020

[Dr Cate Bailey](#), reported on the ISPOR Asia-Pacific conference for the [Values & Outcomes Spotlight Magazine for Global HEOR Community](#), which was held online from the 14th to the 18th of September. Cate reported on a range of workshops and panel discussions featuring “[Understanding the Variation in EQ-5D-5L Values Across Asia](#)”, “[Health Technology Assessment: Challenges and Lessons Learned in Asia](#)” and “[Machine Learning: What’s on the Horizon for HEOR](#)”. [Read More](#)

Presentation at the 9th Australian Health Economics Doctoral Online Workshop

Xiuqin Xiong, HEU’s PhD candidate, presented at the 9th Australian Health Economics Doctoral (AHED) Online Workshop on 16th of September. The presentation was titled “Association between 24-hour movement behaviours and health-related quality of life in Australian children”. Using data from a nationally representative longitudinal survey (LSAC) with comprehensive time use diaries, this study explored the relationship between integrated 24-hour movement behaviors (physical activity, screen use and sleep) and quality of life among children. [Read More](#)

Dr Angela Devine presented at the American Society for Tropical Medicine & Hygiene Virtual Meeting

[Dr Angela Devine](#) was an invited speaker at the American Society for Tropical Medicine & Hygiene Virtual Meeting in November. Her presentation entitled ‘Cost-effectiveness analysis of sex-based treatment algorithms for Plasmodium vivax malaria using available diagnostics to accelerate access to radical cure’ was a part of the G6PD Deficiency: Advances in Point of Care Testing symposium.

Staff and Student News



Congratulations to Dr Li Huang

Dr Li Huang has been promoted to the position of Level C Senior Research Fellow, commencing 1 September 2020. Li's promotion recognizes her increasing research impact in the field of health economics and her contributions in knowledge translation from economics to health science. Li has broad interests in the economics of well-being, income-related inequalities and child health, and has worked extensively alongside community and clinical trials and clinical registries.



Welcome to Dr Yan Meng

We are delighted to have Dr Yan Meng join the Health Economics Unit at the Centre for Health Policy as a Research Fellow. Dr Yan Meng is currently working with Dr Ilias Goranitis on a variety of applied and methodological projects involving Australian Genomics. These include economic evaluations alongside clinical studies in areas such as mitochondrial disorders, developmental disabilities, lung diseases, neonatal intensive care and cancer, contingent valuation and discrete choice modelling methods. Yan holds a PhD degree in Econometrics and Business Statistics from Monash University.

[Read More](#)



Welcome to Dr Cate Bailey

Dr Cate Bailey is a Research Fellow recently joined the Health Economic Unit, working on an MRFF project QUOKKA to strengthen tools and evidence on health outcomes in paediatric populations for use in decision making. Cate is concurrently completing a second PhD in Health Economics on the topic of improving intergenerational outcomes through interventions in health and social care. Cate's current research focus is on health economics and children's outcomes, especially in the social care sector, and the economic implications of intervening to improve maternal and infant health. Cate has a background in statistics and holds a PhD in Forensic Psychology. [Read More](#)



Welcome to Dr Xinyang Hua

Dr Xinyang Hua has recently re-joined the Health Economics Unit as a Research Fellow. She is working with A/Prof Kim Dalziel on a project looking at the long-term cost of allergy among children. Xinyang completed her PhD at the Health Economics Unit in 2018, in which she examined a wide variety of research topics surrounding the theme of health economics and chronic disease. After that she went to the UK and worked as Researcher in Health Economics at the National Perinatal Epidemiology Unit, University of Oxford for two years, where she conducted studies looking at the health service utilization and economics burden of various maternal and child health conditions. [Read More](#)



Welcome to Rachel O' Loughlin

Rachel O'Loughlin has recently joined the Health Economics Unit as a PhD Candidate. Her PhD project is supervised by A/Prof Kim Dalziel, Prof Harriet Hiscock and Prof Nancy Devlin. The project will explore concepts of value in children's healthcare – specifically, examining the impacts of mental health and physical health comorbidity on children's quality of life; comparing the validity and reliability of various quality of life measures in children; and examining how the use of these measures can add value in a clinical setting. Rachel completed her undergraduate study in Economics and International Business at the University of Sydney, and later completed a Graduate Diploma (Advanced) in Psychology at the University of Melbourne. [Read More](#)



Congratulations to Tianxin Pan on her PhD completion

Tianxin Pan has recently completed her PhD at The University of Melbourne. Her PhD study, under the primary supervision of [Prof Peter Annear](#) from Nossal Institute for Global Health, focused on the economic impact of non-communicable diseases on household welfare in China. The [study](#) on the long-run effects of NCD shocks has been published in the *Health Economics*.

Personal story - HEU internship experience as a study abroad research student

The Health Economics Unit was delighted to welcome Nienke Neppelenbroek this year, who completed a six-month internship with the unit while completing her Master's in Epidemiology at Utrecht University (Netherlands). Nienke completed a systematic review of the use of utility weights and disability weights in cost-effectiveness analyses of childhood vaccines, supervised by [Dr Natalie Carvalho](#), [A/Prof Kim Dalziel](#), and [Prof Nancy Devlin](#). Read more about Nienke's internship experience with the Health Economics Unit [here](#). [Read More](#)

Selected Publications

Carvalho, N., Hoque, M. E., Oliver, V. L., Byrne, A., Kermode, M., Lambert, P., . . . Morgan, A. (2020). [Cost-effectiveness of inhaled oxytocin for prevention of postpartum haemorrhage: a modelling study applied to two high burden settings](#). *BMC medicine*, 18(1), 201.

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Pan, T., Palmer, M., Mahal, A., Annear, P., & McPake, B. (2020). [The long-run effects of noncommunicable disease shocks](#). *Health Economics*, 29(12), 1549-1565.

Peasgood, T., Mukuria, C., Carlton, J., Connell, J. & Brazier, J. (2020). [Criteria for item selection for a preference-based measure for use in economic evaluation](#). *Quality of Life Research*

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Tew, M., Dalziel, K., Clarke, P., Smith, A., Choong, P. F., & Dowsey, M. (2020). [Patient-reported outcome measures \(PROMs\): can they be used to guide patient-centered care and optimize outcomes in total knee replacement?](#) *Quality of Life Research*, 29(12), 3273-3283.

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Sampson C, Parkin D, **Devlin N** (2020). [Drop Dead: Is anchoring at 'dead' a theoretical requirement in health state valuation?](#) *OHE Research Paper*. London: Office of Health Economics.

Hout, B. v., Mulhern, B., Feng, Y., Shah, K. & **Devlin, N.** (2020). [The EQ-5D-5L Value Set for England: Response to the "Quality Assurance"](#). *VALUE IN HEALTH*, 23(5), pp. 649-655.

- Herdman, M., Kerr, C., Pavesi, M., Garside, J., Lloyd, A., Cubi-Molla, P. & **Devlin, N.** (2020). Testing the validity and responsiveness of a new cancer-specific health utility measure (FACT-8D) in relapsed/refractory mantle cell lymphoma, and comparison to EQ-5D-5L. *Journal of Patient-Reported Outcomes*, 4(1), 1-12.
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