



MODELLING HEALTH DISABILITY AND AGEING

The National Centre for Social and Economic Modelling (NATSEM) is based at the Institute for Governance and Policy Analysis (IGPA) at the University of Canberra. Since its establishment in 1993, NATSEM has conducted many research projects in the areas of health, disability and ageing. We support our activities through research grants, commissioned research and longer term contracts for policy analysis and model development and maintenance.

WHAT WE OFFER

The value we offer relates to the proven strengths we have in policy and program analysis and evaluation of proposed or existing interventions and initiatives, as well as in complex microdata and evidence-based analysis and interpretation.

NATSEM uses an array of demographic, spatial, econometric and microsimulation modelling techniques and microdata analysis to evaluate health, disability and aged care policy issues and assess future impacts of population ageing and changing health and disability status. We are able to simulate and analyse individual and household behaviours as well as conducting complex spatial analysis of Australian communities at the small area level.

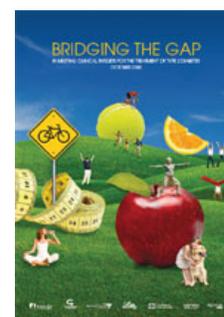
Our research is located within the social determinants of health framework and whole of Government approaches to policy-making and implementation. We work in close consultation with Australian and State and Territory Government departments and agencies and with a wide range of stakeholders including consumers, advocacy groups, health professionals, other researchers as well as the not-for-profit and private sectors. A key strength of NATSEM is our proven ability to analyse and interpret complex data from a range of sources in the context of existing and possible future policy settings.

Using both static and dynamic modelling methods allows us to

evaluate the distributional and economic impacts of policy and program changes both cross-sectionally and longitudinally, and importantly examine outcomes for individuals and population groups over their life courses.

OUR WORK includes

- Modelling future rates of self-assessed health status, lifestyle risk factors, and disability and chronic disease including caregiver burden and a focus on dementia and Type 2 diabetes;
- Cost of illness studies;
- Economic evaluation and modelling of proposed or existing health, disability and aged care services, programs and policies;
- Understanding current and future need for and provision of disability, aged care and health services at the national, regional and small area levels;
- Prevention of ill-health and promotion of social and economic inclusion and wellbeing of people with disability and older Australians;
- Investigation of health and socio-economic disadvantage of Indigenous Australians;
- Analysis and advice on funding options and payment mechanisms - including having an excellent understanding of Australia's tax and transfer system, the adequacy of the income support system for people with chronic illness or disability and for older Australians;
- Input into health, disability and aged care system priority setting.



Publications

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- Lay-Yee R, Pearson J, Davis P, von Randow M, Kerse N, Brown L. (2017). 'Changing the balance of social care for older people: Simulating scenarios under demographic ageing in New Zealand'. *Health & Social Care in the Community*, 25 (3), 962-974.
- Li, J. and Kinfu, Y. (2016). 'Impact of socioeconomic and risk factors on cardiovascular disease and type II diabetes in Australia: comparison of results from longitudinal and cross-sectional designs'. *BMJ Open*, 6(4), 1-11.
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- Li, J., Brown, L., La, H.N., Miranti, R., and Vidyattama, Y. (2019). 'Inequalities In Standards of Living: Evidence for Improved Income Support for People with Disability'. Report commissioned by the Australia Federation of Disability Organisations. NATSEM, Institute for Governance and Policy Analysis, University of Canberra. September 2019.
- Brown, L.J., La, H.A. and Li, J. (2019). 'Societal Costs of Haemophilia A (HMA) in Australia'. Report commissioned by Roche Products Pty Australia. NATSEM, Institute for Governance and Policy Analysis, University of Canberra. July 2019.
- Tanton, R., Miranti, R., Vidyattama, Y., and Tuli, S. (2019), 'Index of Wellbeing of Older Australians (IWOA)'. Report commissioned by the Benevolent Society. NATSEM, Institute for Governance and Policy Analysis, University of Canberra. January 2019.
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- Brown, L., Miranti, R and Li, J. (2015). 'Going the Distance – Working longer, living healthier'. AMP.NATSEM Income and Wealth Report Issue 37, June 2015.



MORE INFORMATION

Professor Laurie Brown

Building 24, University of Canberra

+61 6201 2770 | laurie.brown@canberra.edu.au