

NETPHARM collaboration

Professor Lisa Pont

University of Technology Sydney, Australia Deputy head of School, Graduate School of Health Professor of Pharmacy

International Society of Pharmacoepidemiology
President



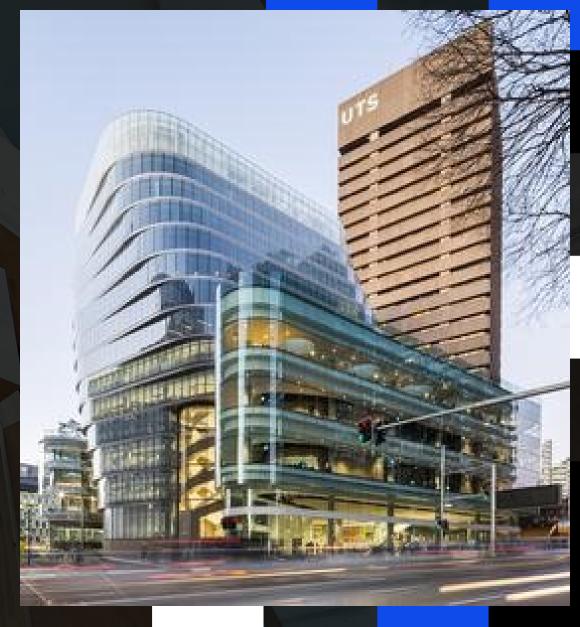






University of Technology Sydney (UTS)

Australia



UTS at a glance



More than **45,000** students in 2021, including

12,000

international students



3,789Full-time equivalent staff



Established in 1988



#1 young university in Australia.

2021 QS

Top 50 Under 50

Ranking and 2022 Times Higher Education Young University Rankings



150+
undergraduate
and 240+
postgraduate
courses across
traditional and
emerging
disciplines



260,000+
alumni living in
140+
countries



Graduate School of Health

Pharmacy
Physiotherapy
Psychology
Orthoptics
Speech pathology
Genetic
Counselling





International Society of Pharmacoepidemiology (ISPE)

An international association dedicated to advancing the health of the public by:

- 1. Providing a global forum for the open exchange of scientific information on drugs, biologics, and devices; delivery, use, costs and value; adverse and beneficial effects; and therapeutic risk management
- 2. Sponsoring educational opportunities
- Advocating for pharmacoepidemiology, including research pharmacovigilance, drug utilization, comparative effectiveness, 1506 3. Advocating for pharmacoepidemiology, including research in







International Society of Pharmacoepidemiology (ISPE)

- 2,261 members from 58 countries
- We work in regulatory affairs, drug research and development, medicine, public health, drug safety, risk management, epidemiology and related fields
- Members come from:
 - > Academia
 - > Industry
 - > Government, regulatory science
 - > Consulting firms, CROs, public health







International Society of Pharmacoepidemiology (ISPE)

- 4 Regional Interest Groups
- 21 Special Interest Groups

Geriatric pharmacoepidemiology

Drug Utilization/Health Services Research









Professor Lisa Pont

Measuring the quality and safety of medicine use in older populations



Medicines Use Research in Aged Care (MURAC)



Professor Lisa Pont Research Team Lead



Ms Chloe Smit PhD Candidate



Mr Brett Anderson
PhD Candidate



Dr Ramesh Sharma Poudel PhD



Mr Yohanna AvongPhD Candidate



Mr Kimble Webb
Data analytics



Ms Jessica Chen Visiting Researcher (Utrecht University)



Mr Maarten Lambert Visiting Researcher (Groningen University)





Medicines Use Research-UTS Research themes



Measuring the quality of medicines use



Understanding the safety of medicines use



Improving quality and safety of medicines use in health systems







BUILDING A HEALTHY AUSTRALIA



IMPROVING QUALITY
USE OF MEDICINES
IN RESIDENTIAL
AGED CARE

◆PHOTO: Dr Lisa Pont from Macquarie University.





MACQUARIE

Translating Research into Practice (TRIP) Fellowship



PROGRAM GRANT

\$178,158 2016-2018



Next steps

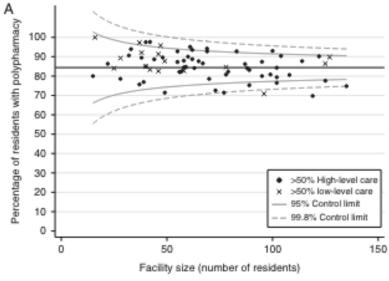


The research identified significant variations between facilities in the frequency of usage for certain types of medicine. Dr Pont is now investigating the variation to better understand its drivers.

As the incoming President of the International Society of Pharmacoepidemiology*, Dr Pont is collaborating with colleagues around the globe on the use of real world data in pharmacy research.







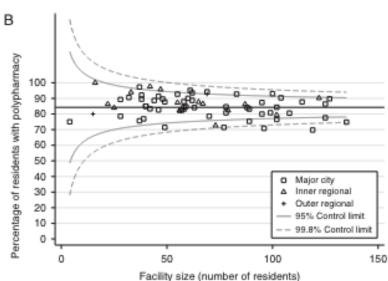
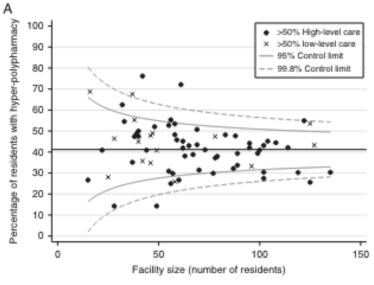


Figure 1 Variation in polypharmacy between facilities by level of care (A) and geographical remoteness (B).



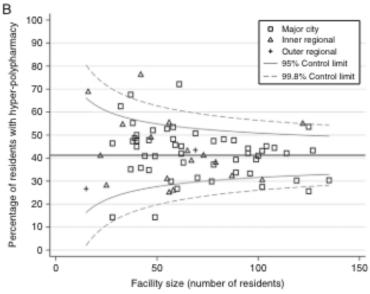


Figure 2 Variation in hyper-polypharmacy between facilities by level of care (A) and geographical remoteness (B).







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Here's how we're tackling one of the biggest threats to global health today

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Tackling antimicrobial resistance with OUTBREAK

OUTBREAK (One Health Understanding Through Bacterial Resistance to Antibiotics Knowledge) is a research-based network taking a One
Health approach – integrating data from humans, animals, plants and the environment – to address the location- and person-specific
threat of an antibiotic resistant infection now and for generations to come.

OUTBREAK network members use a multi-disciplinary approach and connect experts from a range of organisations who together are uniquely skilled to generate, collate and deliver trusted and scientifically defensible insights on drug resistance.





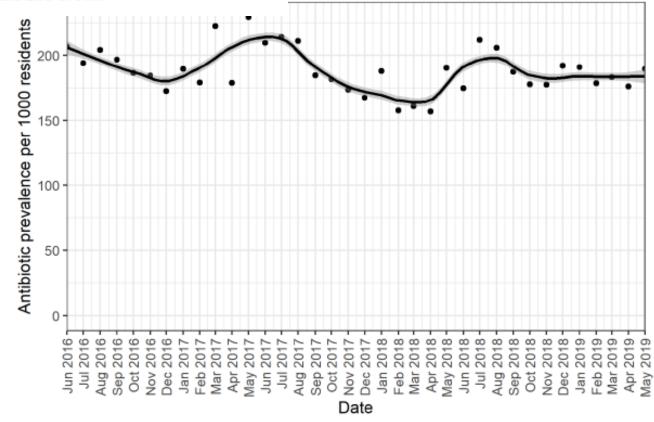




Article

Real-World Data about Commonly Used Antibiotics in Long-Term Care Homes in Australia from 2016 to 2019

Chloé C. H. Smit 1,* D, Kris Rogers 1, Hamish Robertson 2D, Katja Taxis 3D and Lisa G. Pont 1





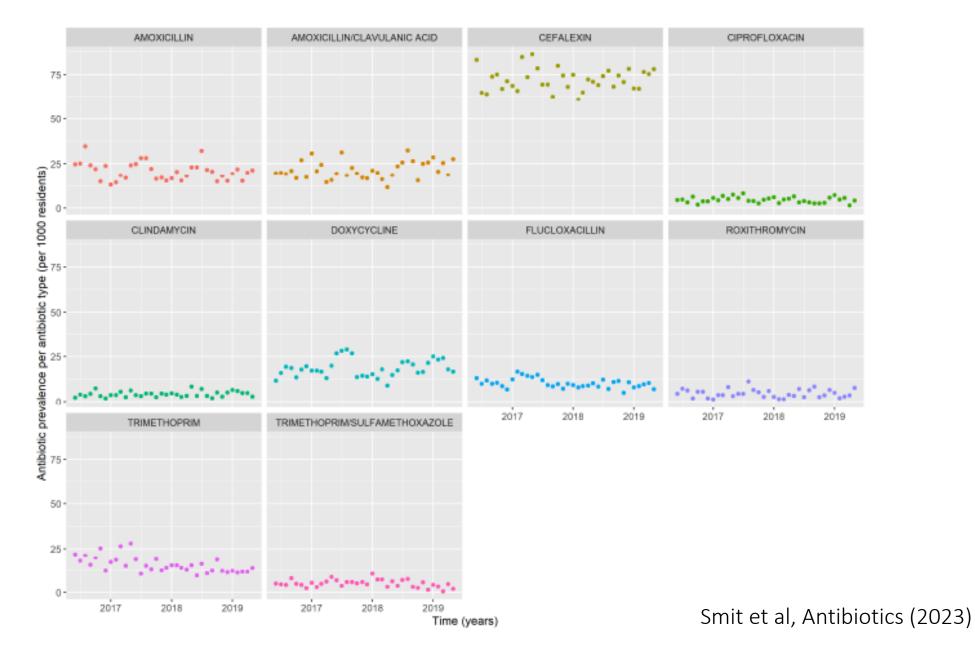


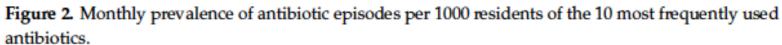


Article

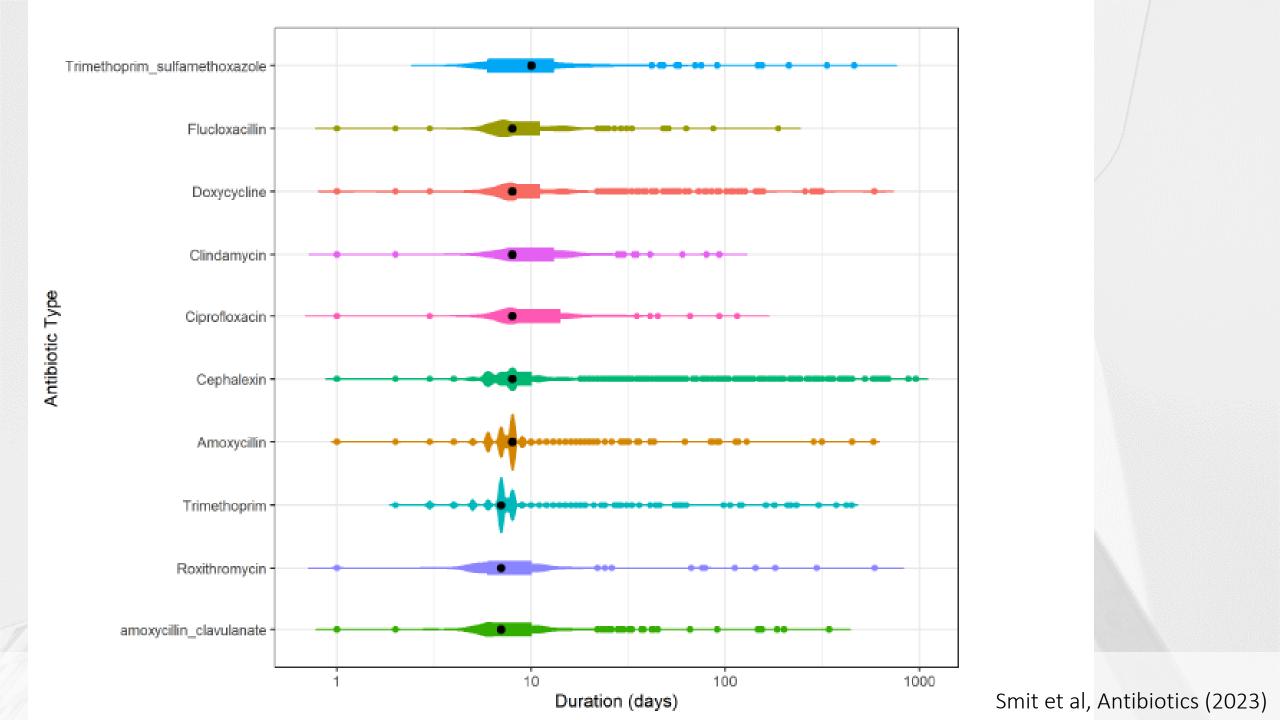
Real-Long

Chloé C. 1











Challenges in measuring quality and safety in older populations

- Accessing real world data for older populations
- Development of robust definitions of quality and safety for medicine use
- System level solutions to improve quality and safety of medicines use

Thank you for your attention

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