Pharmacy Department Research Report 2017

Overview

Despite having limited dedicated research human resource, we have had a highly successful year, publishing 26 publications in a broad range of topic areas, building upon areas of established track record. Our collaborations have included many departments throughout our organisation as well as several universities and external organisations. We congratulate all of our interns for completing a high quality range of projects and presenting these at the Monash University Intern Foundation Program presentation night in November 2017. Special congratulations must go to Jennie Nguyen for being awarded the Best Intern Foundation Program Presentation award for her work developing and evaluating an electronic patient education module for our liver and renal transplant patients.

This past year saw the development of a Pharmacy Department Research Special Interest Group/Committee. This step was taken in-part to facilitate sharing of expertise and collaboration across the department, particularly with the increasing interest and need for many staff to undertake research projects of varying complexity as part of post-graduate study and to facilitate career advancement.

In this coming year we look forward to seeing the continued progress of our Master of Clinical Pharmacy and Master of Pharmaceutical Science research projects, as well as our Doctor of Philosophy candidates. We also plan to develop strategies to better promote the research output of the department, both to those within the department and more broadly.

Simone Taylor

Senior Pharmacist – Emergency Medicine and Research

March 2018
Publications

1. Quality Use of Medicines

i. **Aged Care**


ii. **Emergency Medicine**


iii. **Infectious Diseases**


iv. Oncology


2. Medication Safety and Pharmacovigilance

Keith C. Gene testing for drug metabolizer status as an azathioprine safety tool. Uppsala Reports, WHO Newsletter (Issue 75, 2017):
https://www.whoumc.org/media/3108/uppsalareports75web_new.pdf#page=10


3. Pharmacy Service Design and Delivery (Health Services Research)


Tran T, Taylor SE, Hardidge A, Findakly D, Aminian P, Elliott RA. Impact of pharmacists assisting with prescribing and undertaking medication review on oxycodone prescribing and supply for patients discharged from surgical wards Journal of Clinical Pharmacy & Therapeutics 2017; 42: 567-72
**Conference/Seminar Oral Presentations**

**Aged Care**


**Emergency Medicine**


**Infectious Diseases**


Urbancic K. CRE-REDUCE and NCAS. Invited speaker (AMS in Specialist Settings – Antifungal Stewardship Workshop) Australian Antimicrobial Resistance Forum, November 2017

**Oncology**


**Pharmacovigilance**

Poster presentations

Infectious Diseases

Urbancic K, Grigg AP, Stewardson AJ, Garrett K, Grayson ML. Utility of diarrhoea as a predictor of low posaconazole exposure with the oral tablet formulation. ECCMID, Vienna 2017. #P1695


Emergency Medicine


- 34th ASM of the ACEM, Sydney, NSW. November 2017
- University of Melbourne Medical Student Convention. June 2017
- The Northern Hospital Research Week, October 2017
- Austin Health Research Fest, October 2017


Taylor SE, Anderson B, Harding A, Meaklim A, O’Keefe C. Thunderstorm Asthma management during a Code Brown in a hospital with broad implementation of electronic prescribing and clinical documentation. Austin Health Research Fest, October 2017


Pharmacovigilance


- APA-ASCEPT Joint Scientific Meeting Dec 2017
- Austin Health Research Week 2017


Grants and awards

Aged Care
Elliot R, George J, Woodward M, Cross A. Deprescribing potentially inappropriate medicines in patient attending memory clinics (DePIMM). VicTAG 2017 ($10,000)

Infectious Diseases
Urbancic K. Defining targets for antifungal stewardship in immunocompromised patients: optimising care and safety. NHMRC post-graduate scholarship 2017-2019. ($AUD 110,426.78)

Oncology
Siderov J. Efficient utilisation of cytotoxic chemotherapy and monoclonal antibody vials using a closed system drug transfer device. Becton Dickinson 2017 ($20,000 unrestricted education grant)

Pharmacovigilance

Intern Foundation Program
Current and recently completed projects

**Aged care**


Elliott R, Taylor S, Fodera M. Validation of the accuracy of medication regimen information available in MedView and its potential to reduce the time to document a best possible medication history.


Lee CY, Elliott R. A comparison of medicines use in centenarians, near centenarians and young elderly in a community nursing clientele.


Tan Y, Elliott R, Dorevitch M (with RMIT students). An evaluation of the impact of pharmacists contributing to subacute inpatients' medical discharge summaries on the accuracy of medication information sent to GPs.

Kalogianis M, Elliott R. Development of patient information leaflets for medications used in the management of behavioural and psychological symptoms of dementia and delirium.


**Emergency Medicine**

Chen H, Taylor SE, Harding A, Taylor DMcD. Accuracy of medication information sources compared to the best possible medication history for patients presenting to the emergency department.

Joules E, Verde A, Taylor SE. Management of Patient’s Own Medications brought in to the Emergency Department and Short Stay Unit.

Verde A, Joules E, Harding A. Emergency Department warfarin discharge plan audit.


Schwartz G, Donaldson S, Harding A, Greene S. What happens to the medications we prescribe? A survey of patients' behaviour when discharged from an emergency department with an opioid prescription.

Richardson B, Taylor S, Harding A, Kirkpatrick C, Tran T. Prevalence and nature of medication errors in surgical and medical patients admitted through the emergency department.

Hodgson S, Harding A, Taylor DM, Greene S. A prospective, randomised, double-blind trial of intravenous chlorpromazine versus intravenous prochlorperazine for the treatment of acute migraine in adults

**Pharmacy Service Design and Delivery (Health Services Research)**


Tran T, Johnson D, Balassone J, Tanner F, Garrett K, Chan V. The impact of an integrated clinical pharmacy service with the general medical units on patient flow and medical staff satisfaction: a pre- and post-intervention study.
Research degree involvement

PhD candidates

Phung To. Medication management during periods of restricted oral intake, University of Melbourne, NHMRC Scholarship (part-time) (2015 - )

Karen Urbancic. Antifungal stewardship in immunocompromised patients including solid organ transplant and haematology patients, University of Melbourne, National Centre for Antimicrobial Stewardship, NHMRC Scholarship (part-time, 2016 - )


Tim Tran. Expanding pharmacists’ roles in medication management for surgical inpatients. PhD (part-time, 2014 - )

Master of Pharmacy candidates

Sharmila Melvani. Enhancing pharmacists’ roles in antimicrobial stewardship. Monash University. MPharm (part-time, 2016 - )

Master of Clinical Pharmacy candidates


Belinda Richardson. Prevalence and nature of medication errors in surgical and medical patients admitted through the emergency department, Monash University (part-time, 2017-2018)

Misha Devchand. Evaluation of a pharmacist led antimicrobial allergy de-labeling service, Monash University (part-time, 2017-2018)

Supervision

Rohan Elliott
Sharmila Melvani. Enhancing pharmacists’ roles in antimicrobial stewardship. MPharm (part-time) (2016 - )

Tim Tran. Expanding pharmacists’ roles in medication management for surgical inpatients. PhD (part-time, 2014 - )

Amanda Cross. Optimising medication use and medication management in older people with cognitive impairment, PhD (full-time, 2015 - )

Samanta Lalic. Harms associated with prescription opioid analgesics: prevalence and factors. (PhD panel member 2016 - )

Natalie Jokanovic. Polypharmacy in residential aged care facilities. (PhD panel member)
Simone Taylor

Belinda Richardson. Prevalence and nature of medication errors in surgical and medical patients admitted through the emergency department, M Clin Pharm, Monash University (part-time, 2017-2018)

Stephen Louey (Monash Health). Impact of ED pharmacists assisting general practitioners to maintain updated medication regimen records for their patients. M Clin Pharm research project panel member, 2017-2018.

Major Research Collaboration Partners

Austin Health departments
- Aged Care
- Clinical Pharmacology
- Emergency
- General Medicine
- Infectious Diseases
- Liver Transplant Unit
- Oncology
- Orthopaedics
- Victorian Poisons Information Centre

Universities
- Deakin University
- La Trobe University
- Monash University
- RMIT University
- University of Melbourne

Australian Hospitals
- Barwon Health
- Western Health
- The Northern Hospital
- Monash Medical Centre - Clayton
- Dandenong Hospital
- Casey Hospital
- Prince of Wales Hospital (NSW)
- Manly/Mona Vale hospital (NSW)
- The Townsville Hospital (QLD)
- Princess Alexandra Hospital (QLD)
- Prince Charles Hospital (QLD)

Other Organisations
- Bolton Clarke (formerly Royal District Nursing Service)
- Eastern Melbourne Primary Health Network