

2020 Research Report

Pharmacy Department, Princess Alexandra Hospital

January 2021

Summary

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1. Research students

PhD and MPhil candidates

- **Judith Coombes:** 2012-2020, part-time PhD candidate, supervised by A/Prof Neil Cottrell, Prof Debra Rowett and Prof Jennifer Whitty; A conversation with patients about medications after a stroke
- **Nazanin Falconer:** 2016-2020, full-time PhD candidate, supervised by A/Prof Neil Cottrell, Michael Barras and Dr Ahmad Abdel-Hafiz; Prioritising patients at high-risk of medication-related harm: Development and validation of novel predictive risk scores
- **Natasha Taufatofua:** 2017-2021, full-time PhD candidate, supervised by Dr Adam La Caze, A/Prof Neil Cottrell and Dr Heena Akbar; Investigating the Cultural Context of Medication Adherence in a Maori and Pacific Islander population with Type 2 diabetes.
- **Timothy Tanzer:** 2020-2022, full-time PhD candidate, supervised by Associate Professor Dan Siskind, Professor Stev Kisely and Associate Professor Michael Barras; The Quality and Safe use of Clozapine
- **Vesa Cheng:** 2017-2021, full-time PhD candidate, supervised by Jason Roberts, Mohd Hafiz Abdul-Aziz and Kiran Shekar; Antimicrobial pharmacokinetics in critically ill patients on extracorporeal membrane oxygenation
- **Nameer Van Oosterom:** 2018-2021, full-time PhD, supervised by A/Prof Neil Cottrell and A/Prof Michael Barras; Aspirin for the prophylaxis of venous thromboembolic events
- **Keshia De Guzman:** 2020-2023, full-time PhD candidate, supervised by Dr Centaine Snoswell and Prof Anthony Smith; Economic and logistical factors influencing telehealth uptake and sustainability in primary care in Australia.
- **Ming Gene Chai:** 2020-2022, full-time PhD candidate, supervised by Prof Jason Roberts and Dr Menino Cotta; Personalising antimicrobial therapy to improve outcomes in patients with life-threatening infections.
- **Chariclia Paradissis:** 2019-2022, full-time PhD, supervised by A/Prof Michael Barras, Prof Ian Coombes and A/Prof Neil Cottrell; Medication harm in patients after Acute Myocardial Infarction

PhD and MPhil being supervised by department staff

- Prioritising patients at high-risk of medication-related harm: Development and validation of novel predictive risk scores; Nazanin Falconer: 2016-2020, full-time PhD candidate, supervised by A/Prof Neil Cottrell, **Michael Barras** and Dr Ahmad Abdel-Hafiz
- The Quality and Safe use of Clozapine; Timothy Tanzer: 2020-2022, full-time PhD candidate, supervised by Associate Professor Dan Siskind, Professor Stev Kisely and **A/Prof Michael Barras**
- Aspirin for the prophylaxis of venous thromboembolic events; Nameer Van Oosterom: 2018-2021, full-time PhD, supervised by A/Prof Neil Cottrell and **A/Prof Michael Barras**

- Economic and logistical factors influencing telehealth uptake and sustainability in primary care in Australia; Keshia De Guzman: 2020-2023, full-time PhD candidate, supervised by **Dr Centaine Snoswell** and Prof Anthony Smith
- Medication harm in patients after Acute Myocardial Infarction; Chariclia Paradissis: 2019-2022, full-time PhD, supervised by **A/Prof Michael Barras**, Prof Ian Coombes and A/Prof Neil Cottrell
- Impact of Medication Counselling by Pharmacists in Patients with Diabetes, Attending Rural and Urban Outpatient Clinics in Sri Lanka; Nilani Mamunuwa, MPhil candidate until 2020, University of Kelaniya Sri Lanka, supervised by **Dr Judith Coombes**, Dr Shaluka Jayamanne and Prof Asita DeSilva
- The Use of 3D Printing for Orbital Reconstruction; Alexander Murray-Douglas: 2019-2024, full-time PhD candidate, supervised by Dr Richard Harris, **Dr Centaine Snoswell**, Dr Geoffrey Findlay, and Dr Craig Winter
- Electronic medication management of anticoagulants and its impact on clinical outcomes; Jodie Austin: 2019-2024, full-time PhD candidate, supervised by **A/Prof Michael Barras**, **Dr Centaine Snoswell** and Dr Clare Sullivan
- Occupational violence risk factors in the emergency department: can they be detected in triage?: Cara-Joyce Cabilan, full-time PhD candidate, supervised by Dr Rob Eley, Dr Amy Johnston and **Dr Centaine Snoswell**
- Implementing a medication review pharmacy clinic and the potential impact on patient care; J Costello: PhD candidate, supervised by **A/Prof Michael Barras** and A/Prof Neil Cottrell
- Molecular and cellular studies on the role of matrix dependent mechanisms of atherosclerosis: role of transcription factor Smad and its phosphorylation; R Mohamed: PhD candidate, supervised by **A/Prof Michael Barras** and Dr Danielle Kamato
- Venous thromboembolism in orthopaedic patients; C.Rose: PhD candidate, supervised by **A/Prof Michael Barras** and Lisa Nissen and Esther Lau
- Pharmacist led post discharge medication review in patients at high-risk of medication related harm; A Kosteller: MPhil candidate, supervised by **A/Prof Michael Barras** and A/Prof Neil Cottrell
- Optimising Antibiotic Use in Australian Residential Aged Care Facilities; Dipti Khatri: PhD candidate, supervised by Prof Len Gray, Prof David Paterson, A/Prof Chris Freeman and **Dr Nazanin Falconer**

Masters / Post Graduate students

- **Lachlan Roth** – Grad Cert Clin Redesign
- **Betty Pham** – Grad Dip Clin Pharm
- **Nancy Wang** - Grad Dip Clin pharm
- **Courtney Hill** – Grad Cert Clin Redesign
- **Kate Ross** – Masters in Clin Pharm
- **Ljubica Bukorovic** - Grad Dip Clin Pharm
- **Nancy Pham** – Grad Dip Clin Pharm
- **Catherine Li** - Grad Cert Clin Pharm
- **Andreea Kelso** - Masters in Clin Pharm
- **Kunaal Maharaj** - Masters in Clin Pharm

Transformation & Innovation Collaborative

Helping innovation happen

- **Shannon Doyle** - Grad Cert Biostat
- **Anna Di Mauro** - Masters in Clin Pharm
- **Natasha Chye** - Masters in Clin Pharm

Master's student research projects

- **Clinical Redesign: Pharmacy Intervention Analysis and Reporting;** Courtney Hill PAH and UTAS. Project Supervisors: Michael Barras (Acting Director of Pharmacy) and Lauri O'Brien (UTAS)
- **Incidence, severity and preventability of inpatient medication harm using a bimodal targeted approach;** E. Aziz from UQ. Supervisors **Dr Nazanin Falconer, Dr Centaine Snoswell, A/Prof Michael Barras**
- **Clinical Redesign: Intrathecal methotrexate in DLBCL;** Lachlan Roth PAH and UTAS. Project Supervisors: **Dr Christine Carrington** (Deputy Director of Pharmacy) and Lauri O'Brien (UTAS)

Major students

- **Preferences for smoking cessation support among people released from smoke-free correctional facilities in Queensland, Australia;** Kate Moffitt from UQ. Supervisors: Dr Centaine Snoswell and Dr Cheneal Puljevic
- **What are the roles and responsibilities of an informatics pharmacist practicing in the 3 Australian healthcare setting?;** Nur Fazlini Ismail from UQ. Supervisors: Dr Centaine Snoswell and Dr Nazanin Falconer
- **Clozapine: Predictors and Moderators of Metabolic Syndrome with clozapine;** Jess Spokes UQ. Supervisors: Karl Winckel, Dr Sam Hollingworth and Professor Dan Siskind.

QUM Students & Projects

- **Medical Treatment of Patients > 65 Years with Acute Behaviour Disturbance on General Wards;** Andrew Geissmann from UQ (Feb – March). Supervisors: Duncan Long, Betty Pham, Catherine Li
- **Anticoagulation in Stroke Patients with AF;** Dahae Kim from UQ (Feb – March). Supervisors: Judith Coombes, Sally Horton, Courtney Hill, Dr Darshan Shah
- **Patient's own medications – Can their presence improve medication safety and timely administration from the outset?;** Ho Yan Lung from UQ (Feb – March). Supervisors: Krishnah Shah, Elizabeth Currey
- **Metabolic Monitoring in a Community Mental Health setting;** Carmen Yew from UQ (Feb – March). Supervisors: Kate Donaldson, Lesley Smith, Nancy Wang, Alex Karlovic
- **The Use of Ranitidine as Premedication for Hypersensitivity Reactions related to Paclitaxel;** Angela Chloe Redoblado from UQ (Feb – March). Supervisors: Marissa Ryan, Christine Carrington

- **Review of influenza in dialysis patients: does vaccination prevent influenza in this patient group?**; Hannah Parenti from UQ (Feb – March). Supervisors: Jess Rankine, Jess Lloyd
- **A retrospective, observational study of peri-operative Ryzodeg insulin dose adjustments in surgical patients at Princess Alexandra Hospital in 2019**; Stephanie Charge from UQ (Feb – March). Supervisors: Jessica Smith, Tori Forrester, Hua Bing Yong
- **A retrospective study to assess the cost savings and adherence to a position statement for implementation of biosimilars in PAH Cancer Services. What do the first 6 months tell us?**; Charlotte Howard from QUT (May-June). Supervisors: Christine Carrington, Marissa Ryan, Sarah Whatmough
- **A retrospective audit of cardiac surgery patients reviewed by a pharmacist compared to those not reviewed by a pharmacist pre-operatively**; Xiao En (Belinda) Hong from QUT (May-June). Supervisors: Natasha Taufatofua, Anna Di Mauro, Natasha Chye, Chelsea Williams
- **Ward Pharmacist KPIs**; Alison Ting from QUT (May-June). Supervisors: Karl Winckel, Michael Barras, Libby Currey, Tara Van Der Vliet
- **Management of Home Medications in the Vascular Surgical Patient Admitted to Princess Alexandra Hospital**; Quan Nguyen from QUT (May-June). Supervisors: Tori Forrester, Amanda Williams, Brett Coghill, Nisa Le, Dr Juanita Muller
- **Quality and safe monitoring of cardiotoxic adverse events in antipsychotic polypharmacy: QTc prolongation**; Olivier Tan from UQ (July-August). Supervisors: Tim Tanzer, Lesley Smith, Dr Katherine Isoardi, Dr Dan Siskind
- **Collaborative Ordering of Medications (COOM) – Retrospective evaluation of a pharmacist in the PAH Medical Service**; Leon Smareglia from UQ (July-August). Supervisors: Courtney Hill, Elizabeth Currey
- **IV pantoprazole on general medical and surgical wards at PAH**; Lauren Clayton from UQ (July-August). Supervisors: Sarah Whatmough, Gavin Callaghan, Eve Pinkerton
- **A retrospective audit of dosette box errors made in the early post kidney transplant period**; Wasim Khalpey UQ (July-August). Supervisors: Alexandra Bongaarts, Claudia Jaehnigen, Jess Lloyd
- **A Retrospective Audit of the Incidence of Hypoglycaemia in patients with renal insufficiency following IV insulin administration as part of the hyperkalaemia protocol**; Deronah Gounden QUT (Oct-Nov). Supervisors: Xanthe Cross, Jess Lloyd, Stephanie Highden-Smith
- **A Retrospective Audit of Discharge Pain Management Plans in the Acute Surgical Unit at the Princess Alexandra Hospital**; Deborah Chen from QUT (Oct-Nov). Supervisors: Brad Jeffery, Andy Lo, Kristin Tynan, Tori Forrester
- **Geriatric Emergency Department Intervention (GEDI) Pharmacist in the Emergency Department Short Stay Unit**; Angus Kalman from QUT (Oct-Nov). Supervisors: Sally Horton, Krishna Shah
- **Infliximab biosimilar changeover – cost savings and pharmacovigilance**; Andrew Cap from QUT (Oct-Nov). Supervisors: Sarah Whatmough, Gavin Callaghan, Grace Lucas

2 Funding and grants

- **Ming Gene Chair**, NHMRC postgraduate scholarship 2021-2024, \$77,000
- **Ms Courtney Hill, A/Prof Michael Barras**, Prof Ian Scott, **Dr Centaine Snoswell**, Mr Sven Marxen, Mr Jason Waddell, Dr Chris Morris, **Ms Elizabeth Currey**, Dr Amgad Said. “Collaborative Ordering of Medications (COOM): evaluation of a partnered prescribing model in internal medicine”. Metro South Project Grant \$100,000
- Prof H. Peter Soyer, Dr Aideen McInerney-Leo, Prof B. Mark Smithers, A/Prof Victoria Atkinson, **Dr Centaine Snoswell** and Dr Tatiane Yane (AI). “Establishing Australia's first Familial Melanoma Clinic”. Metro South Program Grant \$300,000
- Dr Amy Johnson, Prof Elizabeth Powell, **Dr Kelly Hayward**, Leigh Horsfall, Dr Preya Patel, Dr Suzanne Williams. “Non-alcoholic fatty liver disease in diabetes clinics and primary care: long-term clinical outcomes following a screening intervention for advanced fibrosis” PA Foundation Novice Researcher Grant \$25,000
- Prof Elizabeth Powell, Prof Anthony Russell, **Dr Kelly Hayward**, Prof Steve McPhail, Prof Patricia Valery. “Diabetes and non-alcoholic fatty liver disease: implementing the right care, in the right place, at the right time (NAFLD-RRR study)” Metro South Project Grant \$100,000
- **Dr Centaine Snoswell**. “The clinical effectiveness and cost-effectiveness of clinic pharmacists” University of Queensland Early Career Research Grant \$40,000

3 Publications and media

Book chapters

- **Cheng V**, Abdul-Aziz MH, Shekar K. Book Chapter: Challenges of antimicrobial therapy in ECMO patients. ECMO: An Interdisciplinary Problem-Based Learning Approach. Oxford University Press. [IN PRESS]
- Chew J, **Cheng V**, Shekar K. Book Chapter: Pharmacological considerations for analgesia and sedation of ECMO patients. ECMO: An Interdisciplinary Problem-Based Learning Approach. Oxford University Press. [IN PRESS]
- LaCaze, Adam and **Winckel, Karl** (2020). Assessing drug safety assessment: metformin associated lactic acidosis. Boston studies in the philosophy and history of science. Cham, Switzerland: Springer International Publishing.261-287. https://doi.org/10.1007/978-3-030-29179-2_12

Journal articles

- Austin, Jodie, **Barras, Michael** and Sullivan, Clair (2020). Interventions designed to improve the safety and quality of therapeutic anticoagulation in an inpatient electronic medical record. International Journal of Medical Informatics 135 104066 104066. <https://doi.org/10.1016/j.ijmedinf.2019.104066>

- **Bakhteyari, Fiona and Williams, Chelsea** (2020). Heart block in patient taking lithium and carbamazepine for bipolar affective disorder: A case study Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT). Spring 2020 edition.
- Banks, Vivien L., **Barras, Michael** and **Snowswell, Centaine L.** (2020). Economic benefits of pharmacy technicians practicing at advanced scope: a systematic review. *Research in Social and Administrative Pharmacy*, 16 (10), 1344-1353. doi: 10.1016/j.sapharm.2020.01.007
- **Chai, M. G.**, Cotta, M. O., Abdul-Aziz, M. H., & Roberts, J. A. (2020). What Are the Current Approaches to Optimising Antimicrobial Dosing in the Intensive Care Unit?. *Pharmaceutics*, 12(7), 638.
- Chan, R.J., Emery, J., Cuff, K., Teleni, L., Simonsen, C., Turner, J., Janda, M., Mckavanagh, D., Jones, L., McKinnell, E. and Gosper, M., Ryan, J., Joseph, R., Crowe, B., Harvey, J., **Ryan, M., Carrington, C.**, Nund, R., Crichton, M., McPhail, S. (2020). Implementing a nurse-enabled, integrated, shared-care model involving specialists and general practitioners in breast cancer post-treatment follow-up: a study protocol for a phase II randomised controlled trial (the EMINENT trial). *Trials*, 21(1), pp.1-12.
- Chang T, **Cheng V**, Rawlins M, Roberts JA, et al. Pharmacokinetics of ceftriaxone during prolonged intermittent renal replacement therapy in a patient with Child Pugh B cirrhosis and ascites. *EMJ Nephrol.* 2020;8[1]:54-58.
- Chevalier, Bernadette A. M., Watson, Bernadette M., **Barras, Michael A.** and Cottrell, William Neil (2020). Assessing communication behaviours of hospital pharmacists: how well do the perspectives of pharmacists, patients, and an independent observer align?. *Journal of Language and Social Psychology* 0261927X2090986. <https://doi.org/10.1177/0261927x20909867>
- **De Guzman, Keshia R.** and **Gahreman-Falconer, Nazanin.** (2020). Vitamin D and the link with Parkinson's disease: causal or correlational? Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT). (Accepted 7 January 2020)
- **De Guzman, Keshia R., Snowswell, Centaine L.**, Puljevic, Cheneal and Gupta, Deepali (2020). Evaluating the utility of a Smoking Cessation Clinical Pathway tool to promote nicotine prescribing and use among inpatients of a tertiary hospital in Brisbane, Australia. *Journal of Smoking Cessation*, 15 (4), 1-5. doi: 10.1017/jsc.2020.22
- **De Guzman, Keshia Rachel, Snowswell, Centaine L,** Taylor, Monica L., Senanayake, Buddhika, Haydon, Helen Moyra, Batch, Jennifer, Smith, Anthony and Caffery, Liam J. (2020). A systematic review of paediatric teliabetes service models. *Diabetes Technology & Therapeutics*, 22 (8) dia.2019.0489, 623-638. doi: 10.1089/dia.2019.0489
- **Edmonds, Michelle, Tynan, Kristin, See, Nicholas, Maunsell, Trudy and Snowswell, Centaine L.** (2020). An audit of the quantity of immediate release oxycodone 5 mg tablets prescribed for discharge: an area for improved opioid stewardship?. *Journal of Pharmacy Practice and Research*, 50 (5) jppr.1678, 413-417. doi: 10.1002/jppr.1678
- Erku, Daniel, Gartner, Coral E., Morphett, Kylie, **Snowswell, Centaine L.** and Steadman, Kathryn J. (2020). Nicotine vaping products as a harm reduction tool among smokers: review of evidence and implication for pharmacy practice. *Research in Social and Administrative Pharmacy*, 16 (9), 1272-1278. doi: 10.1016/j.sapharm.2020.02.002
- **Falconer, Nazanin, Barras, Michael,** Abdel-Hafez, Ahmad, Radburn, Sam and Cottrell, Neil (2020). Development and validation of the Adverse Inpatient Medication Event Model (AIME). *British Journal of Clinical Pharmacology* bcp.14560. doi: 10.1111/bcp.14560

- **Falconer, Nazanin**, Monaghan, Corey and **Snowell, Centaine L** (2020). The pharmacist informatician: providing an innovative model of care during the COVID-19 crisis. *International Journal of Pharmacy Practice*. doi: 10.1093/ijpp/riaa017
- **Falconer, Nazanin**, Spinewine, Anne, Doogue, Matthew P. and **Barras, Michael** (2020). Identifying medication harm in hospitalised patients: a bimodal, targeted approach. *Therapeutic Advances in Drug Safety*, 11, 2042098620975516. doi: 10.1177/2042098620975516
- Finn S, D'arcy E, Donovan P, Kanagarajah S, **Barras M**. A randomised trial of pharmacist-led discharge prescribing in an Australian geriatric evaluation and management service. In *J Clin Pharm* 2020: doi.org/10.1007/s11096-020-01184-0
- **Forrester, Tori G., Sullivan, Sara, Snowell, Centaine L., Pillans, Peter, Barras, Michael** and Sturgess, David (2020). Integrating a pharmacist into the perioperative setting. *Australian Health Review*, 44 (4), 563-568. doi: 10.1071/ah19126
- Frazer A, **Barras M**, Mudge A, Martin J, Donovan P. Interventions to improve the safety and quality of management of anticoagulants for the therapeutic indications in hospital inpatients. *Eur J Clin Pharmacol* 2019; 75 (12) 1645-1657. doi:10.1007/s00228-019-02752-8
- George, Christopher, **Barras, Michael**, Coombes, Judith and **Winckel, Karl** (2020). Unfractionated heparin dosing in obese patients. *International Journal of Clinical Pharmacy* 42 (2) 462-473. <https://doi.org/10.1007/s11096-020-01004-5>
- Gregory GP, **Carrington C**, Cheah CY, et al. A consensus statement on the use of biosimilar medicines in hematology in Australia . *Asia Pac J Clin Oncol*. 2020;10.1-11. doi:10.1111/ajco.13337
- Horsham, Caitlin, **Snowell, Centaine**, Vagenas, Dimitrios, Loescher, Lois J., Gillespie, Nicole, Soyer, H. Peter and Janda, Monika (2020). Is teledermoscopy ready to replace face-to-face examinations for the early detection of skin cancer? Consumer views, technology acceptance, and satisfaction with care. *Dermatology*, 236 (2), 170-176. doi: 10.1159/000506154
- Kho, Joanna, Gillespie, Nicole, Horsham, Caitlin, **Snowell, Centaine**, Vagenas, Dimitrios, Soyer, H. Peter and Janda, Monika (2020). Skin doctor consultations using mobile teledermoscopy: Exploring virtual care business models. *Telemedicine and e-Health*, 26 (11) tmj.2019.0228, 1406-1413. doi: 10.1089/tmj.2019.0228
- Langbecker, Danette, **Snowell, Centaine L.**, Smith, Anthony C., Verboom, Jedidja and Caffery, Liam J. (2020). Long-term effects of childhood speech and language disorders: a scoping review. *South African Journal of Childhood Education*, 10 (1) a801, 1-13. doi: 10.4102/sajce.v10i1.801
- Mitchell, Scott, Michael, Hayley, Highden-Smith, Stephanie, Bryce, Vivian, Grugan Sean, Yong, Hua Bing, Renouf, Sonia, Kitchener, Tanya, Wang, William (2020) Culturally Safe and sustainable solution for Closing the Gap-registered patients discharging from a tertiary public hospital. *Australian Health Review* <https://doi.org/10.1071/AH18160>
- Mohamed, Raafat, Cao, Yingnan, Afroz, Rizwana, Xu, Suowen, Ta, Hang T., Barras, Michael, Zheng, Wenhua, Little, Peter J. and Kamato, Danielle (2020). ROS directly activates transforming growth factor β type 1 receptor signalling in human vascular smooth muscle cells. *Biochimica et Biophysica Acta. General Subjects*, 1864 (1) 129463, 129463. doi: 10.1016/j.bbagen.2019.129463

- Northwood, K., Theodoros, T., Wang, N., & Siskind, D. (2020). High-dose antipsychotic therapy and reflective prescribing: development of an online tool for rapid, easy calculation of antipsychotic total daily dose. *Australasian Psychiatry*, 1039856220917080.
- Puljević, Cheneal, Haydon, Helen M and **Snoswell, Centaine L** (2020). Commentary on Conigrave et al. (2020): Meta-analysis of drinking patterns in Aboriginal and Torres Strait Islander populations highlights policy and research opportunities. *Addiction*, 115 (10) add.15066, 1831-1832. doi: 10.1111/add.15066
- **Ryan M.** Colorectal Cancer: the pharmacist's role. *Australian Journal of Pharmacy* 2020; May: 44-48.
- **Ryan M.** Melanoma Skin Cancer. *Australian Journal of Pharmacy* 2020. Oct: 90-95.
- **See, Nicholas** (2020). DrugScan: Routine high-dose vitamin D3 supplementation in vitamin D deficient ICU patients. *Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT)*. Winter 2020 edition.
- Scuderi, Carla, Michelle Nalder, Ronald Castelino, Matthew Cervelli, Danielle Ironside, Ceridwen Jones, **Jess Lloyd**, Sanja Mirkov, and Courtney Munro (2020). "Standard of practice in nephrology for pharmacy services." *Journal of Pharmacy Practice and Research*.
- Smith, Anthony C., Thomas, Emma, **Snoswell, Centaine L.**, Haydon, Helen, Mehrotra, Ateev, Clemensen, Jane and Caffery, Liam J. (2020). Telehealth for global emergencies: implications for coronavirus disease 2019 (COVID-19). *Journal of Telemedicine and Telecare*, 26 (5), 1357633X20916567-313. doi: 10.1177/1357633x20916567
- **Smith, L.**, & Siskind, D. (2020). Phenelzine discontinuation: A bitter pill to swallow. *The Australian and New Zealand Journal of Psychiatry*, 4867420965700-4867420965700.
- **Snoswell, Centaine L.** and Caffery, Liam J. (2020). Current economic evidence for teledermoscopy. *Current Dermatology Reports*, 9 (2), 131-135. doi: 10.1007/s13671-020-00305-2
- **Snoswell, Centaine L.** and Comans, Tracy A. (2020). Does the Choice Between a Telehealth and an In-Person Appointment Change Patient Attendance?. *Telemedicine and e-Health tmj*.2020.0176. doi: 10.1089/tmj.2020.0176
- **Snoswell, Centaine L.**, Caffery, Liam J., Haydon, Helen M., Thomas, Emma E. and Smith, Anthony C. (2020). Telehealth uptake in general practice as a result of the coronavirus (COVID-19) pandemic. *Australian Health Review*, 44 (5), 737-740. doi: 10.1071/ah20183
- **Snoswell, Centaine L.**, North, John B. and Caffery, Liam J. (2020). Economic advantages of telehealth and virtual health practitioners: return on investment analysis. *JMIR Perioperative Medicine*, 3 (1), e15688. doi: 10.2196/15688
- **Snoswell, Centaine L.**, Rahja, Miia and Llor, Aislinn F. (2020). A Systematic Review and Meta-Analysis of Change in Health-Related Quality of Life for Interactive Telehealth Interventions for Patients With Asthma. *Value in Health*. doi: 10.1016/j.jval.2020.09.006
- **Snoswell, Centaine L.**, Taylor, Monica L., Comans, Tracy A., Smith, Anthony C., Gray, Leonard C. and Caffery, Liam J. (2020). Determining if telehealth can reduce health system costs: scoping review. *Journal of Medical Internet Research*, 22 (10) e17298, 1-22. doi: 10.2196/17298
- **Snoswell, Centaine, Jensen, Estelle, Wang, Nancy, Shah, Krishna, Currey, Elizabeth and Barras, Michael** (2020). Transit Care Hub pharmacist: improving patient flow within the

- hospital. *International journal of clinical pharmacy*, 42 (5), 1319-1325. doi: 10.1007/s11096-020-01092-3
- Thomas, Emma E, Haydon, Helen M, Mehrotra, Ateev, Caffery, Liam J, **Snoswell, Centaine L**, Banbury, Annie and Smith, Anthony C (2020). Building on the momentum: sustaining telehealth beyond COVID-19. *Journal of Telemedicine and Telecare*, 1357633X20960638. doi: 10.1177/1357633x20960638
 - **Tisdall, Julia; Nayfeh, Abdel; Hattersley, Lisa; Farrell, Cindy; Marler, Nick; Allam, Lee** (2020) Expanding training horizons, expanding practice: An Australian completes a UK technician checking course online. *Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT)*, 4 2: 209-210.
 - **van Oosterom, N, Barras, M**, Bird, R, Nusem, I and Cottrell, N (2020). A narrative review of aspirin resistance in VTE prophylaxis for orthopaedic surgery. *Drugs*, 80 (18), 1889-1899. doi: 10.1007/s40265-020-01413-w
 - **van Oosterom, Nameer, Winckel, Karl and Barras, Michael** (2020). Comment on: "Stratifying therapeutic enoxaparin dose in morbidly obese patients by BMI class: a retrospective cohort study". *Clinical Drug Investigation* 40 (3) 287-288. <https://doi.org/10.1007/s40261-020-00889-4>
 - Wilson, Alexandra, Moretto, Nicole, Langbecker, Danette and **Snoswell, Centaine L.** (2020). Use of reimbursed psychology videoconference services in Australia after their introduction: an investigation using administrative data. *Value in Health Regional Issues*, 21, 69-73. doi: 10.1016/j.vhri.2019.07.007
 - **Winckel, Karl**, Daghli, Mark, Pache, David and Hollingworth, Samantha A. (2020). Time to rethink our approach to the Pharmaceutical Benefits Scheme (PBS) listing of medicines: the case of pregabalin. *Australian Health Review*. doi: 10.1071/ah20060
 - **Winckel, Karl, Sullivan, Sara**, Vongphakdi, Mitt and **Snoswell, Centaine L.** (2020). A retrospective review examining intravenous iron infusion dosing methods. *Journal of Pharmacy Practice and Research* jppr.1698. doi: 10.1002/jppr.1698
 - Xu J, **Cheng V**, Rawlins M, Lennon K, Morgan D, McWhinney B et al. Pharmacokinetics of amoxicillin and cefepime during prolonged intermittent renal replacement therapy: a case report. *EMJ Nephrol.* 2020;8[1]:78-83.
 - Zhou, Xiaoyun, **Snoswell, Centaine L.**, Harding, Louise E., Bambling, Matthew, Edirippulige, Sisira, Bai, Xuejun and Smith, Anthony C. (2020). The role of telehealth in reducing the mental health burden from COVID-19. *Telemedicine and e-Health*, 26 (4) tmj.2020.0068, 377-379. doi: 10.1089/tmj.2020.0068
 - **Ryan, Marissa.** Care of immunocompromised individuals during an infection pandemic. *Australian Journal of Pharmacy*. Dec 2020; p80-84.

4 Presentations and conference participation

Continuing professional development (CPD) presentations

- **Karl Winckel** and **Judith Coombes** (chairs). QLD Branch Residency Showcase event - lightening talks. Society of Hospital Pharmacists Australia (Queensland branch), 27 February 2020, Brisbane, Australia.
- **Karl Winckel** and **Sophie Alexander**. Building clinical foundations for early career pharmacists. Society of Hospital Pharmacists Australia - Queensland Branch Symposium, 13 June 2020, virtual event.
- **Karl Winckel**. Clinical education: evidence based practice. Society of Hospital Pharmacists Australia - Queensland Branch Clinical Education, 11 August 2020, virtual event.
- **Belinda Badman**. SHPA Webinar: Respiratory Failure in ICU (part of COVID training package). Society of Hospital Pharmacists Australia, 19 March 2020, virtual event.
- **Belinda Badman**. SHPA Introduction to Critical Care Virtual Seminar (coordinator and presenter). Society of Hospital Pharmacists Australia, 10 October 2020, virtual event.
- **Julia Tisdall**. Tech-tober: How to get pharmacy technicians involved in research. Society of Hospital Pharmacists Australia - Queensland Branch Clinical Education, 14 October 2020, virtual event.

Conference Abstracts (posters & presentations)

- **Judith Coombes**. Stroke survivors' medication beliefs and adherence to medications for secondary prevention of stroke (Oral Presentation). World Stroke Organisation and European Stroke Association, 7-9th November 2020, Virtual Conference (hosted from Vienna).
- **Cheng, Vesa, Abdul-Aziz, Mohd H., Roberts, Jason A., and Shekar, Kiran**. Dosing cefepime in critically ill patients on ECMO – a pharmacokinetics study (oral presentation). Antimicrobials 2020 conference, hosted by the Australian Society for Antimicrobials, 27-29 February 2020, Melbourne, Australia.
- **Dilmi Wickramasinghe, Shaluka Jayamanne, Shamila De Silva, Cathy Lynch and Judith Coombes**. Clinical pharmacists medication counselling can reduce CKDu disease progression and improve medication adherence in pre-dialysis CKDu patients (oral presentation). International society to improve the use of medicines (ISiUM) conference, 26-28th January 2020, Bangkok.
- **Taufatofua, Natasha, Akbar, Heena, Cottrell, Neil, La Caze, Adam**. Supporting medication adherence in the Maori and Pacific Islander community with type 2 diabetes: ASCEPT-APSA 2020 Joint Virtual Scientific Meeting, 24-26 November, 2020.
- **Taufatofua, Natasha, Akbar, Heena, Cottrell, Neil, La Caze, Adam**. Planning research for the Maori and Pacific Islander community with type 2 diabetes. Research Involving Consumers Showcase Metro South Allied Health, 31 August, 2020.
- **Marsh, BA., Lloyd, J., Rankine, J., Yee Aw, S., Cho, Y., Johnson, D., Hawley, C., Viecegli, AK., Francis, R., Isbel, N.** (2020). A retrospective case series of single, fixed low dose rituximab for

relapsing minimal change disease. Annual Scientific Meeting (ASM) of the Australian and New Zealand Society of Nephrology (ANZSN), 28-29 November 2020, Virtual Event, Australia.

- **Chai, G.** (2020). Technological advances to revolutionise TDM: Dosing software. Antimicrobial Therapeutic Drug Monitoring Workshop hosted by The University of Queensland NHMRC Centre of Research Excellence in Redefining Antimicrobial Use to Reduce Resistance, 11 November 2020, Virtual Event, Australia.
- Williams, P., **Chai, G.** (2020). IDS-ODS case studies: vancomycin and meropenem. Antimicrobial Therapeutic Drug Monitoring Workshop hosted by The University of Queensland NHMRC Centre of Research Excellence in Redefining Antimicrobial Use to Reduce Resistance, 11 November 2020, Virtual Event, Australia.
- **Paradissis, Chariclia**, Coombes, Ian, Cottrell, William N., Scott, Ian, Wang, William and **Barras, Michael**, Harm from cardiovascular medications: the omitted 'C': The Herston Health Precinct Symposium, Brisbane, 7-11th December, 2020.
- Thomas E, **Snowswell C**, Taylor M, Caffery L. Remote patient monitoring – when & for whom does it reduce acute care use? Variations in Healthcare Workshop. (Virtual). 19 October 2020.
- Caffery LJ, **Snowswell C**. Virtual Care. NHMRC Health System Sustainability Partnership Centre – Investigator meeting by Webinar. 21 July 2020 [Invited Speaker].
- **Lachlan Roth** (2020) Why do we use intrathecal methotrexate in DLBCL? Co-creation of an updated guideline for our health service (e-poster). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- **Andreea Kelso, Marissa Ryan, Christine Carrington, Michelle Edmonds** (2020). Patient concerns and Nocebo effect when pharmacy educated prior to switching from originator and biosimilar(e-poster). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- Jacqueline Leggett, **Marissa Ryan, Samantha Yim and Christine Carrington** (2020). Could your workflow be costing you reimbursement? A re-audit post-intervention of missed dispensing for ten high cost parenteral cancer medicines (e-poster). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- **Aimee Byrne, Anna Shi, Joan Semmler, Marissa Ryan, Christine Carrington** (2020). Clinical trial prescriptions: How long do they take to process: A time in motion study (e-poster). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- Eva Segelov, **Christine Carrington**, Sanchia Aranda , David Currow, John Zalcborg, Alexander Heriot, Linda Mileshekin, John Bashford, John Coutsouvelis, Carmel O’Kane, Anthony Sulkowski, Janney Wale, Stephen Hancock, Jen Bichel-Findlay, Jeremy Millar, Jon Emery, Phoebe Zhang, Brian Collopy, Simon Cooper (2020). Developing clinical indicators for oncology: the inaugural indicator set for The Australian Council on Healthcare Standards (oral presentation and winner of best oral presentation). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- **Christine Carrington** (presenter), **Marissa Ryan, Sarah Whatmough** (2020). Biosimilars-sustaining the cost of biologics. A snapshot at a metropolitan hospital (oral presentation).

Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.

- **Marissa Ryan** (presenter), **Christine Carrington** (2020). Sustaining paclitaxel administration in the era of ranitidine shortages (oral presentation). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- **Marissa Ryan** (presenter), **Christine Carrington** (2020) Cancer pharmacy and telehealth (oral presentation). Clinical Oncology Society of Australia (COSA) 2020 Annual Scientific Meeting (ASM), Brisbane, QLD Australia, 11-13 November 2020.
- Jacqueline Leggett, **Marissa Ryan, Samantha Yim and Christine Carrington** (2020). Could your workflow be costing you reimbursement? A re-audit post-intervention of missed dispensing for ten high cost parenteral cancer medicines (poster). 2020 SHPA Virtual Congress, Virtual, QLD Australia, 21st November 2020.
- **Andreea Kelso, Marissa Ryan, Christine Carrington, Michelle Edmonds** (2020). Patient concerns and Nocebo effect when pharmacy educated prior to switching from originator and biosimilar (poster). 2020 SHPA Virtual Congress, Virtual, QLD Australia, 21st November 2020.
- **Ryan M, Ho P, Semmler J, Frier S, Carrington C, Bates J.** (2020). An observational audit in an aseptic compounding facility: investigating latent errors in manufacturing cancer medicines (e-poster). National Medicines Symposium 2020, Virtual, Australia, 7th December 2020.
- **Pharm B, Van Oosterom, Nameer** (2020). High dose rivaroxaban for the treatment of venous thromboembolism in extreme obesity: A case report (presentation). 2020 SHPA Virtual Congress, Virtual, QLD Australia, 21st November 2020.
- **Andrea Kelso and Karl Winckel** (2020). Rivaroxaban for people with stage 4 kidney disease and atrial fibrillation. SCEPT-APSA Joint Virtual Scientific Meeting 2020, Online, 24-26th November, 2020.
- **van Oosterom N, Barras M, Cottrell N** (2020). VTE prophylaxis in orthopaedic surgery – Patient individualised or ‘one-dose-fits-all’? ASCEPT-APSA Joint Virtual Scientific Meeting 2020, Online, 24-26th November, 2020.
- Paradissis, Chariclia, Coombes, Ian, Cottrell, William N., Scott, Ian, Wang, William and **Barras, Michael**, Harm from cardiovascular medications: the omitted ‘C’: ASCEPT-APSA Joint Virtual Scientific Meeting 2020, Online, 24-26th November, 2020.
- Paradissis, Chariclia, Van Oosterom, Nameer, Austin, Jodie, Coombes, Ian, Cottrell, William N., Sullivan, Claire and **Barras, Michael**, Navigating ethics and governance approval for digital health research; a case series: 2020 SHPA Virtual Congress, Online, 21-22nd November, 2020.
- **Marissa Ryan** (2020). Leadership and Rapid Change Management. Clinical Oncology Society of Australia (COSA) Cancer Pharmacist Group (CPG) Clinical Professional Workshop (Virtual), Brisbane, QLD Australia, 14 November 2020.

5 Other

Staff regularly act as peer-reviewers for academic journals inside and outside of the pharmacy discipline.

At least six Pharmacy Department staff hold academic appointments: Dr Judith Coombes (UQ, School of Pharmacy), Dr Nazanin Falconer (UQ, School of Pharmacy), Dr Christine Carrington (UQ, School of Pharmacy), Mr Karl Winckel (UQ, School of Pharmacy), Dr Centaine Snoswell (UQ, School of Pharmacy and Faculty of Medicine), and A/Prof Michael Barras (UQ and QUT, School of Pharmacy and Sun-Yat Sen University).

The Pharmacy Research in Metro South (PRIMS) committee is chaired from the PAH Pharmacy Department.

A/Prof Michael Barras and Dr Centaine Snoswell are involved in grant-review panels for NHMRC (both) and Metro South (Barras).

Dr Christine Carrington was part of the Expert Reference Group for the consultation and development process of the McGrath Model of Care and associated guidelines. The model of care was implemented across Australia at the end of 2020.

Dr Judith Coombes is a member of the executive editorial committee for Australian Prescriber (2020).

Courtney Hill is a continuing education co-ordinators for the Queensland branch of the Society of Hospital Pharmacists Australia, and in this role she organises regular education sessions and events for hospital pharmacists throughout the state.

Marissa Ryan was a Co-Convenor (along with non-PAH staff Courtney Oar and Jenny Casanova) of the Clinical Oncology Society of Australia (COSA) Cancer Pharmacist Group (CPG) Clinical Professional Workshop (Virtual), Brisbane, QLD Australia, 14 November 2020.

Authors of this report: Dr Centaine Snoswell, Research Pharmacist and Dr Michael Barras, Deputy Director of Pharmacy, Princess Alexandra Hospital.

January 2021