Advanced Practice Summary Report

Project title	Advanced Practice in Pharmacy - improving timely medication assessment and charting accuracy on admission.
Health service	Peninsula Health (PH).
Project aims	To improve the accuracy, safety, and efficiency of medication history and reconciliation and to facilitate patient flow for admitted patients To develop a production process and establish the role of a phormacist as a
	 To develop a credentialing process and establish the role of a pharmacist as a collaborative prescriber in the admission process.
	To release medical staff time for other clinical duties
Key outcomes	Credentialing model for a collaborative prescribing role developed and implemented
	Project pharmacist successfully completed credentialing for the Advanced Practice Pharmacist (APP) role
	Successful completion of a prospective parallel study (N=110 patients)
	Significant reduction in medication errors
	The study demonstrated that the role of the APP achieved ≥80% statistically significant reduction in medication errors and a reduction of high or extreme risk errors.
	 Average error reduction (per patient): 0.52 vs 4.41 (p<0.0001)
	 Average error reduction (per medication order): 0.05 vs 0.43 (p<0.005)
	 The severities of medication errors were also decreased. Errors independently rated extreme and high were eliminated. Errors rated moderate were reduced by 91% and minor errors were also reduced by 71%.
	Implementation of medication safety strategies that include minimising risk to patients due to preventable sources of harm
	 33% increase in documented Venous Thromboembolism (VTE) risk assessment and prescribing of appropriate VTE prophylaxis.
	56% increase in correctly documented allergy/ADR history.
	A positive impact of APP on efficiency was demonstrated by:
	 80-100% of day time admissions to the AAA Unit reviewed by the APP,
	 Reducing the average medical staff time spent on medication history reconciliation per admitted patient by 36 minutes, enabling them to be freed up for other clinical duties.
	A staff satisfaction survey was conducted with positive outcomes demonstrated by:
	 A high level of satisfaction (≥80 per cent) achieved from participating medical officers; 87% had no reservations about the concept of the APP project, 91% were supportive of a Pharmacist running the service, 100% agreed that the service lived up to expectations, 96% were very satisfied with service, 100% agreed that the service permitted faster and more accurate charting of admission medications, 100% would recommend the service to a colleague.
	Disseminated concept and outcomes to stakeholders
	 Presentations at a local level and the Annual National Society of Hospital Pharmacist of Australia (SHPA) Medication Management Conference¹ 2015

and SHPA symposium in General Medicine, Melbourne, September, 2016. Publication of the project in the Journal of Clinical Pharmacy and Therapeutics³. Issued expression of interest to participate in Workforce Innovation Grants Program (WIGP) replication phase 2. The partnered Pharmacist Medication Charting Expansion Project to expand the concept further. • Expansion and Development of the project • Permanent appointment of a pharmacist to the collaborative prescribing role of an admission pharmacist, funded in the PH operational budget. • In-house credentialing of a further 6 pharmacists enabling expansion of the roles as collaborative prescribers in General Medicine Units, together with a clinical pharmacy restructure involved unit based clinical pharmacy service. **Total** Funding provided plus in-kind support: \$107, 339 investment Funding costs included: Staffing costs In-kind support costs included: salary adjustment for Grade 3 Yr 1 • Senior Pharmacist: report preparation x 24hrs, general project supervision x 12 hours • Consultant Medical Officer: Direct supervision of project x 15 hours, general project supervision x 12 hours • Project steering group; consultant medical officer, Director of Pharmacy, nurse unit manager, senior pharmacist, Executive Director of Medical Services (4 x 1hr meetings) Total FTE to provide service: 1 x 1 FTE Grade 3 Year 1 Senior Pharmacist 1 x 0.01 FTE Senior Pharmacist: 36 hours total 1 x 0.01 FTE Consultant medical Officer: 27 hours total Resources Study Protocol – Pharmacist undertook best possible medication history taking, medication regimen evaluation and electronic prescribing of medications on available admission in collaboration with senior medical staff to improve patient safety References of Publication and Presentation of this Project. deClifford, J, Lam S, Khalil V. AAA Rating for Our AAA Advanced Practice Pharmacist Role. Presented at Medicines Management 2015. The 41st SHPA National Conference. 2015 Dec 3-6; Melbourne, Australia 2. Khalil V. Pharmacist Partnered Charting. Presentation to the Society of Hospital Pharmacists of Australia (SHPA) symposium General Medicine, Melbourne, September, 2016. 3. Khalil V Khalil V, deClifford J-M, Lam SH, Subramanian A. Implementation and evaluation of a collaborative clinical pharmacist's medication reconciliation and charting service for admitted medical inpatients in a metropolitan hospital. J Clin Pharmacy and Therapeutics. 2017, doi:101111/jctp.12442