

# A novel hospital pharmacist role working with Aboriginal & Torres Strait Islander cardiac patients

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## Background



Aboriginal and Torres Strait Islander (A&TSI) people continue to have a lower life expectancy than non-Indigenous Australians. As of 2012, the gap in life expectancy was 9.5 years for women and 10.6 years for men.<sup>1</sup> Cardiovascular disease is the largest contributor to this life expectancy gap and a major contributor to morbidity in this patient group.<sup>2</sup>

A multidisciplinary team project commenced at the Princess Alexandra Hospital in April 2015. The aim is to allow A&TSI cardiac patients to have better access, support, education, advocacy and cultural sensitivity for the entire patient journey from hospital to home. The Better Cardiac Care (BCC) team includes clinical nurse consultants, an A&TSI hospital liaison officer, an administration officer, a cardiologist and a pharmacist. The team identified that discharge medication supply was problematic for Closing The Gap (CTG) registered patients. A&TSI CTG patients were unable to receive subsidised medicines at the point of discharge under the current hospital system.

The team proposed a model whereby a seven day fully subsidised medication supply could be offered to A&TSI cardiac patients who were registered with the CTG program in the community. Hospital executive was consulted and provided with information regarding projected costs. The proposed model of medication supply was approved by the Executive Director of the Hospital and Health Service initially on a trial basis and has since been renewed.

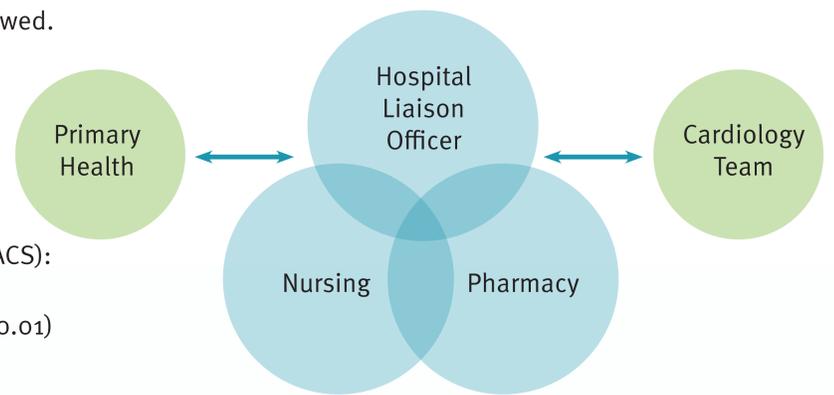
Since commencement of the project a pharmacist has been an integral part of the BCC team. Funding for a part time BCC pharmacist was provided by the QLD A&TSI health branch.

## Results



The BCC team achieved clinical successes in treating A&TSI patients with acute coronary syndrome (ACS):

- 1) Acute myocardial infarction: reduced from 6% to 2% (Hazard Ratio=0.33, p=0.04)
- 2) 90 Day unplanned cardiac readmission: reduced from 31% to 17% (Hazard Ratio=0.55, p<0.01)
- 3) 90 Day event free survival: reduced from 33% to 21% (Hazard Ratio=0.64, p=0.02)



Over the course of three years pharmacist involvement has led to four distinct phases:

### Phase 1

CTG medication Trial: 7 day medication supply program Commenced April 2015

#### Identification Process:

<b>Identification</b>	<b>Documentation</b>	<b>Dispensing</b>	<b>Reporting</b>
Patient list generated daily by Hospital Liaison Officer and distributed to project staff. Project staff notify pharmacist of eligible patients	Patient eligibility and summary of discharge process documented in patient chart and dispensing program	Pharmacist offers patient option of seven day supply. Prescription dispensed	Invoice is provided to pharmacist. Database is updated & maintained. Line of reporting to Executive regarding expenditure

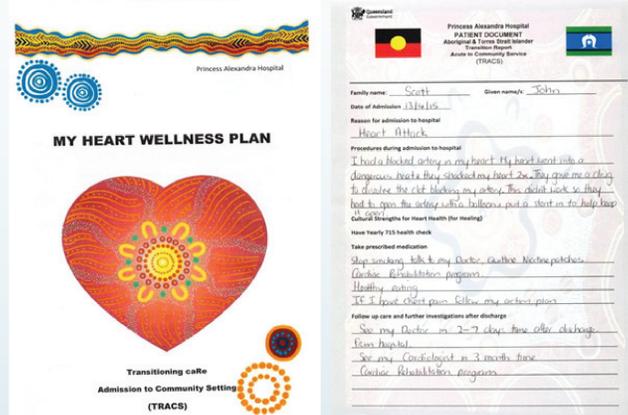
In the period from May 2015 to June 2018, 316 out of 599 (53%) patients have received a 7-day supply under the trial.

Received CTG Supply	316	53%	Full CTG Supply of All Medications	120	20%
			Partial CTG Supply on Medications Not Available at Residence	196	33%
Not Receiving Supply	283	47%	Preferred Full PBS Safety Net Supply	7	1%
			Preferred Full PBS Supply	36	6%
			Not CTG Registered	31	5%
			DAMA	15	3%
			Nil Required	85	14%
			Script Taken Outside	10	2%
			Interhospital Transfer	16	3%
			Webster Pack	54	9%
			Deceased	5	1%
			Prisoner	17	3%
			Reason Unclear	7	1%

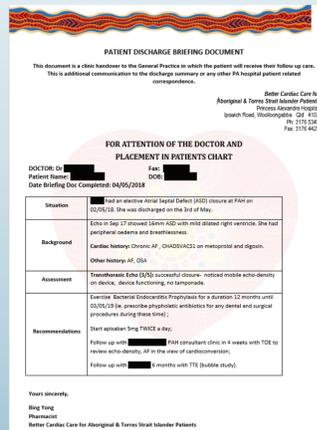
### Phase 2

TRACS booklet + Briefing document Commenced April 2016

The booklet is completed by the project clinical nurse consultant or pharmacist in consultation with the patient, enabling the content to be in the persons own words and reflective of their experience.

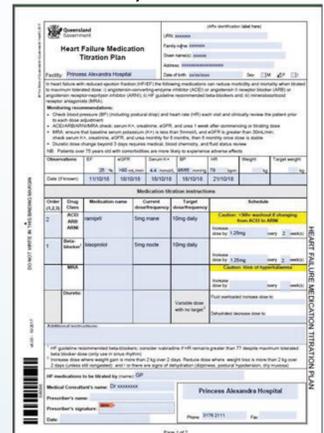


To enhance communication with GP, a clinical handover tool (briefing document) is utilised to transition patients into the community from the acute health care setting.



### Phase 3

Heart failure medication titration plans Commenced March 2017



From March 2017 to June 2018, heart failure medication titration plans have been done for 27 patients.

The plan guides GP to up-titrate patient ACEI/ARB or beta-blocker to the maximum tolerated dose in the community.

### Phase 4

Smoking cessation support + Diabetes optimisation Commenced June 18

In June & July 2018, 15 smokers received smoking cessation support from pharmacist. The pharmacist encourages Nicotine Replacement Therapy use, make referral to Quitline, tobacco treatment specialist and Aboriginal community quit smoking program. Nine patients had diabetes recommendations who are likely pre-diabetes or with suboptimal HbA1c within the same period.

## Conclusion



A dedicated pharmacist can make important contributions to a multidisciplinary team working with A&TSI cardiac patients.

## References

1. Australian Bureau of Statistics. Life Tables for Aboriginal and Torres Strait Islander Australians 2010-2012. Canberra: ABS; 15/11/2013. Cat no. 3302.0.55.003
2. Australian Institute of Health and Welfare. Australian Burden of Disease Study: Impact and causes of illness and death in Aboriginal and Torres Strait Islander people 2011. Canberra: AIHW; 2011. Australian Burden of Disease Study series no. 6. Cat. No. BOD 7.

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