

Caveats



 "Indigenous Australians" refers to Aboriginal and Torres Strait Islanders. It is acknowledged that these are two culturally different groups – the broader term is used throughout this presentation for brevity.

Indigenous Australians & Palliative Care Caperal



- Indigenous Australians are known to experience worse end of life health outcomes 1,2
- Palliative Care is associated with better patient quality of life, reduced caregiver strain, and improved efficiency for health services 3-7
- Two primary settings for palliative care in Australia
 - · Community based palliative care
 - · Inpatient palliative care

Indigenous Australians & Palliative Care CAPCREU



There is limited data available on Indigenous Australians' use of Palliative Care Services (PCSs) in Australia.

- From National reports, Indigenous Australians comprise:
 - 1.7% of patients accessing hospitals¹
 - 1.1% of PCOC cohort²
- Indigenous population accessing PCSs described in one study Performed in NT³:
 - Found Indigenous patients were more likely to be:
 - Younger, female, living rurally, and to die at home

Research Aims

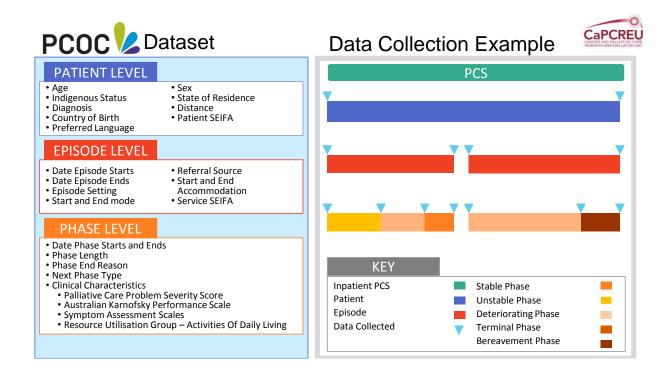


- 1. Describe and compare the demographic characteristics of Indigenous and non-Indigenous patients.
- 2. Describe and compare, by setting, the characteristics of the episodes of care received by Indigenous and non-Indigenous patients.
- Determine whether clinical outcomes differ between Indigenous and non-Indigenous patients.

Methods: Data Source

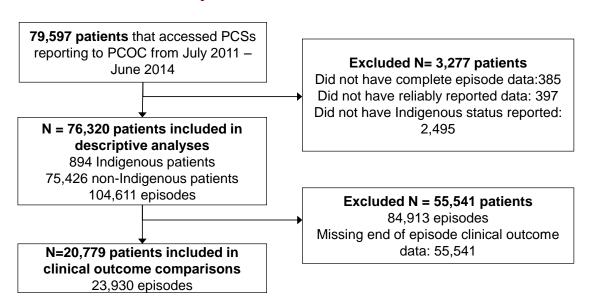


- All information provided by PCOC palliative care outcomes collaboration
- PCOC data collection is part of routine service provision for participating PCSs
- Three levels: patient, episode and phase.



Methods: Study cohort





Results: Patient Demographics



		Indigenous (N=894)	Non-Indigenous (N=75,426)
Age at episode start*		• 63.6±15.4	• 73±14.0
Gender*		• 47.9% Male	• 53.7% Male
Diagnosis		78.9% Cancer diagnosis21.1% Non-cancer diagnosis	79.6% Cancer diagnosis20.4% Non-cancer diagnosis
Distance between accommodation and PCS**		• 120.1±506.0 kms	• 29.0±237.4 kms
Patient socioeconomic status**		Low 34.7%Medium 42.6%High 22.7%	Low 21.6%Medium 36.8%High 41.6%
State of residence*	NSW VIC QLD SA WA TAS	 21.0% 15.7% 25.6% 6.0% 23.6% 7.8% 	 22.8% 28.8% 20.9% 7.7% 15.0% 4.8%
Setting of care**		64.3% Inpatient setting33.9% Community Setting	58.5% Inpatient setting37.2% Community Setting

All categorical variables compared using chi square tests. All continuous variables compared using t-tests. *p<0.05. **p<0.001. N=patients

Results: The Average Inpatient Episode



N=842 Indigenous and N=60,253 non-Indigenous inpatient episodes Lasted a median of 5(2-12) and 6(3-14) days

At the start of the average inpatient episode:

- · Most frequently referred by a public hospital
 - 61.4% vs 51.3%
- · or by themself / family / carer
 - 20.7% vs 21.3%
- · And entered the service coming from accommodation,
 - 61.6% vs 62.8%
- · or transferred from another hospital/ward.
 - 31.6% vs 33.8%
- First phase was most commonly unstable (deteriorating condition, no care plan in place)
 - 46.4% vs 45.3%
- or deteriorating (deteriorating condition, care plan in place)
 - 28.3% vs 28.6%

Results: The Average Inpatient Episode



N=842 Indigenous and N=60,253 non-Indigenous inpatient episodes

At the end of the average inpatient episode:

- Most commonly ended the episode in a stable phase (stable condition, care plan in place)
 - 36.6% vs 30.7%
- or terminal phase (death likely within days)
 - 34.7% vs 40.3%
- Indigenous patients admitted from accommodation most commonly returned to accommodation
 - 54.4% vs 44.2%

Results: The Average Community Episode CAPCREU



N=414 Indigenous and N=41,208 non-Indigenous inpatient episodes Lasted a median of 28(8-70) and 26(8-70) days

At the start of the average community episode:

- Most frequently referred by a public hospital
 - 61.0% vs 51.7%
- or by a GP / Specialist
 - 19.6% vs 19.8%
- And entered the service coming from accommodation,
 - 65.9% vs 65.4%
- · First phase was most commonly Stable (unchanging condition, care plan in place)
 - 42.8% vs 44.9%
- or deteriorating (deteriorating condition, care plan in place)
 - 42.5% vs 43.8%

Results: The Average Community Episode CAPCREU



N=414 Indigenous and N=41,208 non-Indigenous inpatient episodes

At the end of the average community episode:

- Most commonly ended the episode in a deteriorating phase (deteriorating condition, care plan in place)
 - 38.2% vs 41.5%
- or a stable phase (stable condition, care plan in place)
 - 35.0% vs 33.0%
- Both patient populations were most commonly discharged to continued care with a different service provider or palliative care service.
 - 50.8% vs 52.5%
- Or passed away
 - 30.5% vs 33.1%

Results: Clinical Outcomes



- Very few differences in initial and final Symptom Assessment Scores between Indigenous and non-Indigenous patients
 - Measured for symptom burden problems associated with Appetite, Bowels, Breathing, Fatigue, Insomnia, Nausea, and Pain.
 - If present, rated by patient on a scale of 1 10 for symptom distress.
- Average change in score was negative or zero across scales

Main Findings: Patient Demographics



- Similar demographics to those seen in To & Boughey's (2009) paper,¹ despite no coverage of NT in PCOC dataset
 - · High proportion of males and cancer diagnoses
- High proportion of cancer diagnoses in Indigenous patients despite high non-cancer chronic disease²
- Residing further from PCSs in lower SES areas: out-of-pocket costs?

1. 10. To, T. and M. Boughey, Referral patterns to a palliative care service in rural Australia servicing indigenous Australians. International Medical Journal, 2010. 40(11): p. 7724.
2. Australian Institute of Health and Welfare, Australia's Health 2014. Australia's health series no. 14. Cat. no. AUS 178., AllHW, 2014: Canberra.

Main Findings: Characteristics of Care



- In the inpatient setting, Indigenous patients had better outcomes if admitted from home
 - Despite worse patient outcomes compared to non-Indigenous Australians¹⁻⁴

Main Findings: Clinical Outcomes

- Findings limited to patients with end of episode clinical information
 - · Healthier patients/ lower needs
- Indicate these patients have similar outcomes

^{1.} Australian Institute of Health and Welfare. Australia's Health 2014. Australia's health series no. 14. Cat. no. AUS 178. AIHW 2014: Canberra

Shahid, S., et al., Identifying barries and improving communication between cancer service providers and Aboriginal patients and their families: the perspective of service providers. BMC Health

Cunningham, J., et al., Incidence, actiology, and outcomes of cancer in Indigenous peoples in Australia. The Lancet Oncology, 2008. 9(6): p. 585-595.
 Conden LB, et al., Space of dispersion and connect control of cancer in Indigenous peoples in Australia. The Lancet Oncology, 2008. 9(6): p. 585-595.

Limitations



- Representativeness of PCOC cohort for Indigenous and non-Indigenous Australians
 - Generalizability of findings
- Reliability of Indigenous status
- Use of clinical scores limited by available data





- Explore end-of-life care needed and received by patients with non-cancer diagnoses
- Investigate issues of equitable access regarding Indigenous patients' out-of-pocket costs when accessing PCSs
- Continue to nurture relationships with Indigenous Australian communities, to develop palliative evidence base to improve Indigenous Australians' end-of-life care

