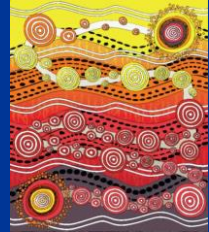
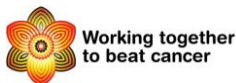
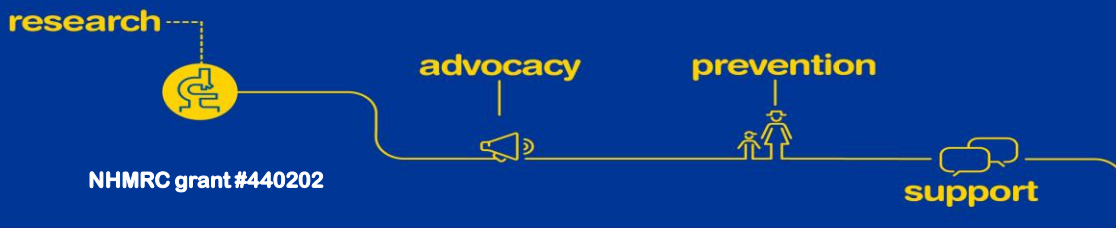


# Gaps in cancer treatment and outcomes for Aboriginal people in NSW, Australia

Rajah Supramaniam, Dianne O'Connell  
Cancer Council NSW



Artwork by Carissa Pagliano

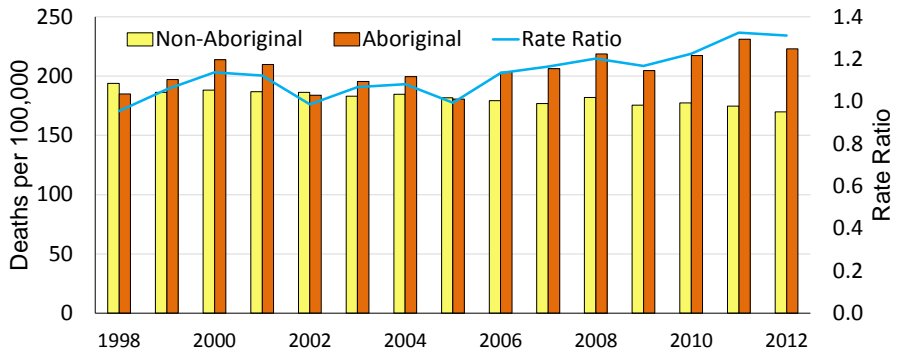


## Outline

- Where are the gaps in cancer outcomes?
- What do we know about the causes of these gaps?
- How might we address these gaps?



# Gaps in cancer mortality rates in Australia

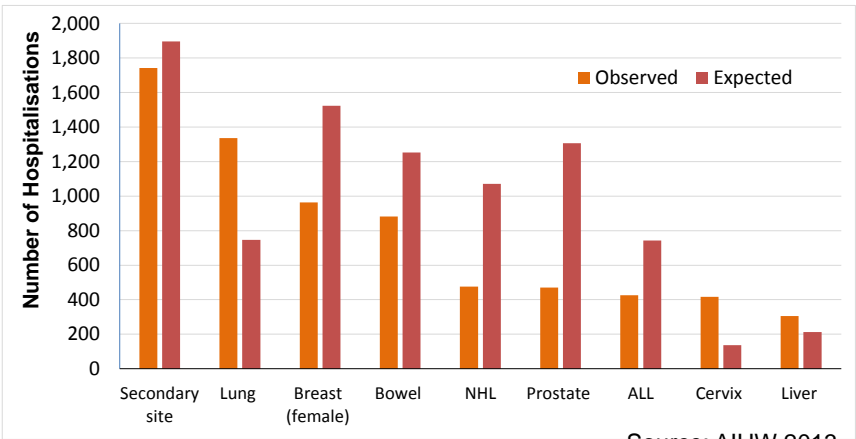


Mortality from all cancers for NSW, Qld, WA, SA, NT (AIHW 2014)

Age-standardised to Australian population in 2001



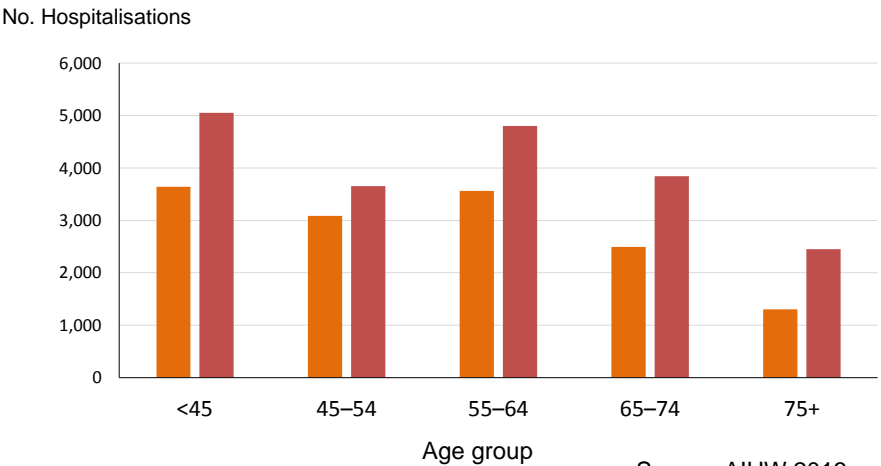
# Gaps in hospitalisations for Aboriginal people with cancer



Source: AIHW 2013

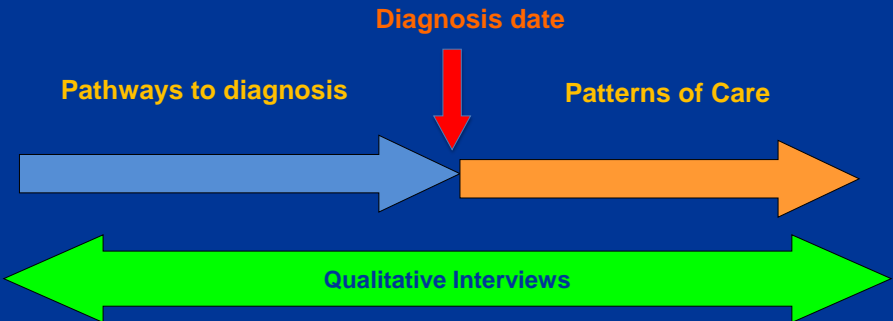


# Gaps in hospitalisations for Aboriginal people with cancer by age



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to help beat cancer

## Aboriginal Patterns of Cancer Care Project (APOCC)



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## Variations in cancer-specific mortality

| Cancer Site | Adjusted Hazard Ratio<br>Aboriginal vs non-Aboriginal people | 95% Confidence<br>interval |
|-------------|--|----------------------------|
| Breast      | 1.30   | 0.94 – 1.75                |
|             |  |                            |
|             |  |                            |
|             |  |                            |

Adjusted for age, sex (where appropriate), year of diagnosis, spread of disease, comorbidities, place of residence, surgical treatment, area-level socioeconomic status, [site of cancer for bowel]

\*Sub-distribution hazard ratio from competing risks regression



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NSW

## Survival gaps are not entirely due to ...

Variations in cancer survival were not entirely explained by differences in:

- Age
- Sex
- Spread of disease
- Comorbidities (except breast cancer)
- Surgical treatment received
- Socioeconomic disadvantage
- Place of residence

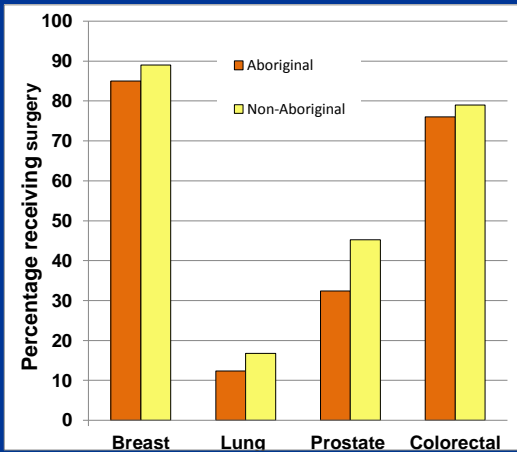


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## Variations in surgical treatment



These variations were not explained by differences in:

- Age
- Sex
- Spread of disease
- Comorbidities
- Socioeconomic disadvantage
- Place of residence



## Differences in treatment may be due to ...

- **Practical barriers** such as a lack of transport, accommodation and childcare
- **Cultural and psychological barriers** – support, information and education. Need for more:
  - Aboriginal faces in cancer care
  - Training in cultural respect
  - Identification of individuals' needs based on level of Aboriginal Community Engagement (ACE scale)



## Aboriginal Community Engagement (ACE)

**Three item scale. How much do you:**

- Feel you belong to an Aboriginal community? (affect item)
- Feel you have in common with an Aboriginal community? (cognition item)
- Interact with an Aboriginal community? (behavioural item)

Likert scale: Not Much (0), Somewhat (1), Quite a bit (2), A lot (3)

**Score is the average of the three responses**

- Higher score indicates stronger community engagement



## Results

**People with higher ACE scores were more likely to have:**

- Lower awareness of cancer symptoms
- Mistrust of non-Aboriginal organisations
- Seen GP in Aboriginal Community Controlled Health Service

**ACE score was not associated with:**

- Most socio-demographic characteristics
- Attending screening or hospitals prior to diagnosis
- Trusting non-Aboriginal people



## Summary

**Do NSW Aboriginal people with cancer have higher mortality, compared with non-Aboriginal people and, if so, why?**

- 1. Yes they do and lower treatment rates may contribute - addressed by reducing practical, psychological and cultural barriers.**
- 2. Tailoring information and support services based on an individual's ACE score may improve their acceptance of treatment.**



## Thank you



[www.cancercouncil.com.au/aboriginalcancer](http://www.cancercouncil.com.au/aboriginalcancer)

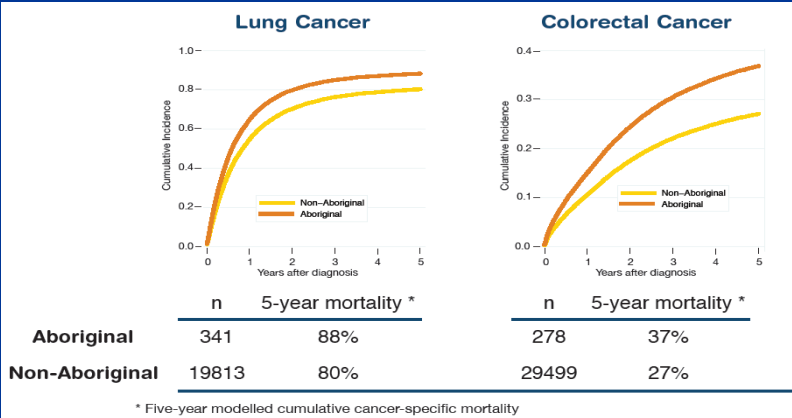


# ACE Scale

- ACE is the average of the three responses
- Tested on 102 Aboriginal cancer survivors
  - Mean score was 1.72 (SD 1.03)
  - Not associated with most socio-demographic variables
  - Was internally consistent (Cronbach's Alpha 0.82)



## Cancer mortality up to 5 years after diagnosis



Source:  
APOCC





# Cancer mortality up to 5 years after diagnosis

