

 $\label{eq:def:David BANHAM} \text{ with grateful acknowledgement of the CanDAD Aboriginal Reference Group}$ 

Realising Indigenous Australians capacity to benefit from cancer care: Developing person-centred performance measures in cancer control

adelaide.edu.au seek LIGHT

# **Acknowledgement of Country**

We acknowledge the Turrbal and Yuggera peoples as the traditional custodians of the Brisbane region.

We also pay respect to their Elders past and present.

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## Acknowledgement

#### SAHMRI:

**Aboriginal Community Reference Group** (CanDAD) Wardliparingga colleagues Prof Alex Brown Prof David Roder

#### Supervision by:

Prof John Lynch Prof Jon Karnon

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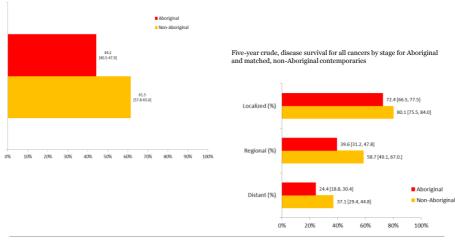
"Who are we being compared to?"

-Aunty Roslyn Weetra

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# Background

 $\label{thm:continuous} Five-year crude, disease survival for all cancers\ Aboriginal\ and\ matched, non-Aboriginal\ contemporaries$ 



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# Background

Monitor & evaluate system performance

Mortality: Incidence Ratio (MIR)

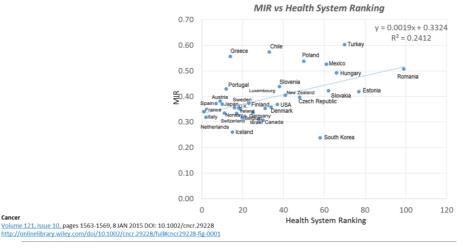
Mortality Rate (cancer)

**Incidence Rate** 

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# Background

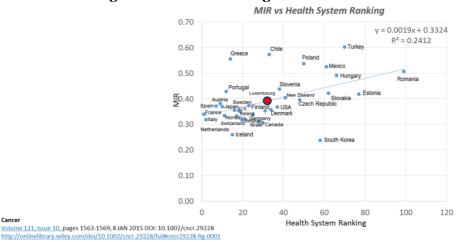
The colorectal cancer mortality-to-incidence ratio as an indicator of global cancer screening and care



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# Background

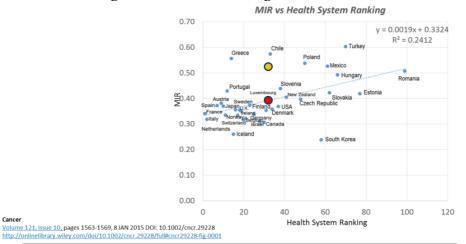
The colorectal cancer mortality-to-incidence ratio as an indicator of global cancer screening and care



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# Background

# The colorectal cancer mortality-to-incidence ratio as an indicator of global cancer screening and care



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# Background

#### MIR

- Age as....
  - · Statistical adjuster?
  - · Weighting factor?
  - · Both?

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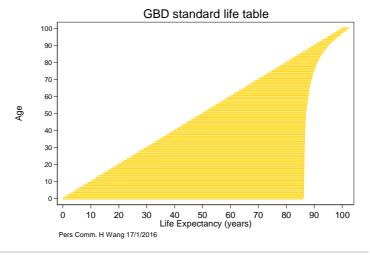
### Aim

- Expand MIR into PMIR, a premature mortality to incidence ratio;
- Illustrate PMIR's use in cancer care reporting at person, service and population levels.
  - PREmature Mortality IncidencE Ratio (PREMIER)

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### Method

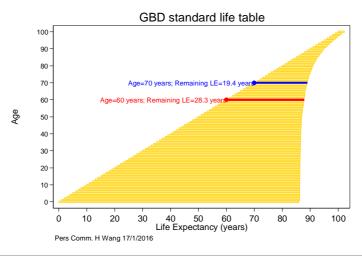
A global life expectancy standard



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# Method

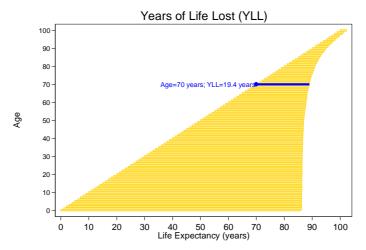
#### A global life expectancy standard



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## Method

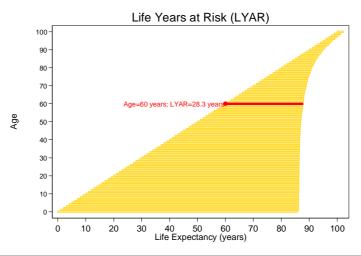
#### Premature mortality = life expectancy lost =



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# Method

Life expectancy at risk =



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## Method

Premature Mortality: Incident Risk (PMIR)

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## Method

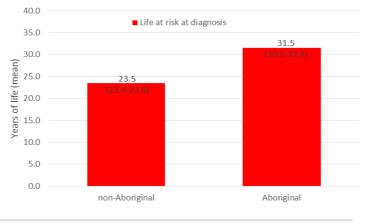
Premature Mortality: Incident Risk (PMIR)

$$\frac{\text{YLL}_{\text{(cancer)}}}{\text{LYAR}} = \frac{19.4 \text{ YLL}_{\text{(cancer)}}}{28.3 \text{ LYAR}} = 0.68$$

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# Example 1

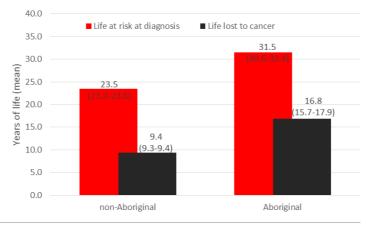
Mean amount of life at risk (LYAR) and life lost (YLL) per person diagnosed with cancer, South Australia 1990-2010



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## Example 1

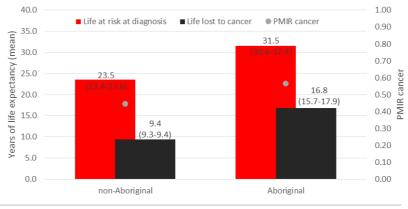
Mean amount of life at risk and life lost per person diagnosed with cancer, South Australia 1990-2010



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# Example 1

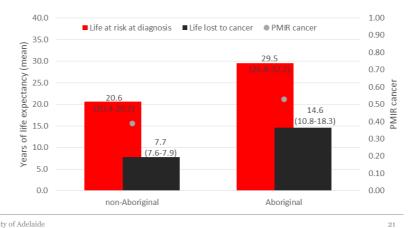
Mean amount of life at risk and life lost per person diagnosed with cancer, South Australia 1990-2010



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# Example 2

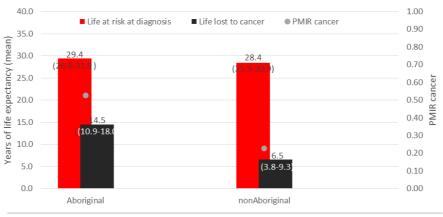
Mean population colorectal PMIR, South Australia 1990-2010



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# Example 2

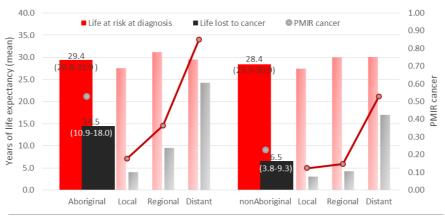
Mean cohort colorectal PMIR, South Australia 1990-2010



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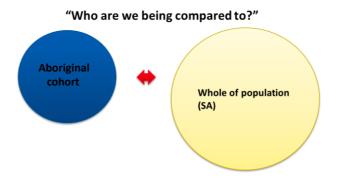
# Example 2

Mean cohort colorectal PMIR, South Australia 1990-2010



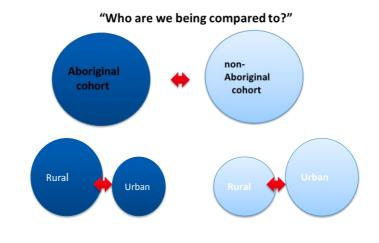
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### Discussion



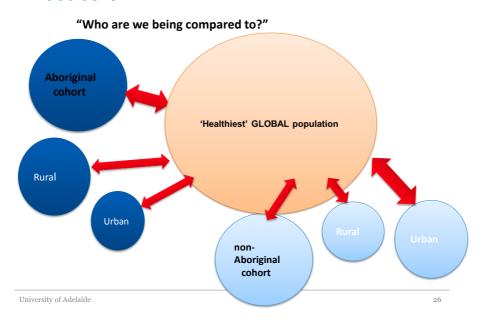
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# Discussion



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### Discussion



# Discussion

- PMIR
  - − Expandable morbidity
  - − Comparison across conditions

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# Conclusion

- Large life expectancy gains are on offer....
  - Wide-ranging comparisons are possible now
  - Person centred health care needs person centred performance assessment

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