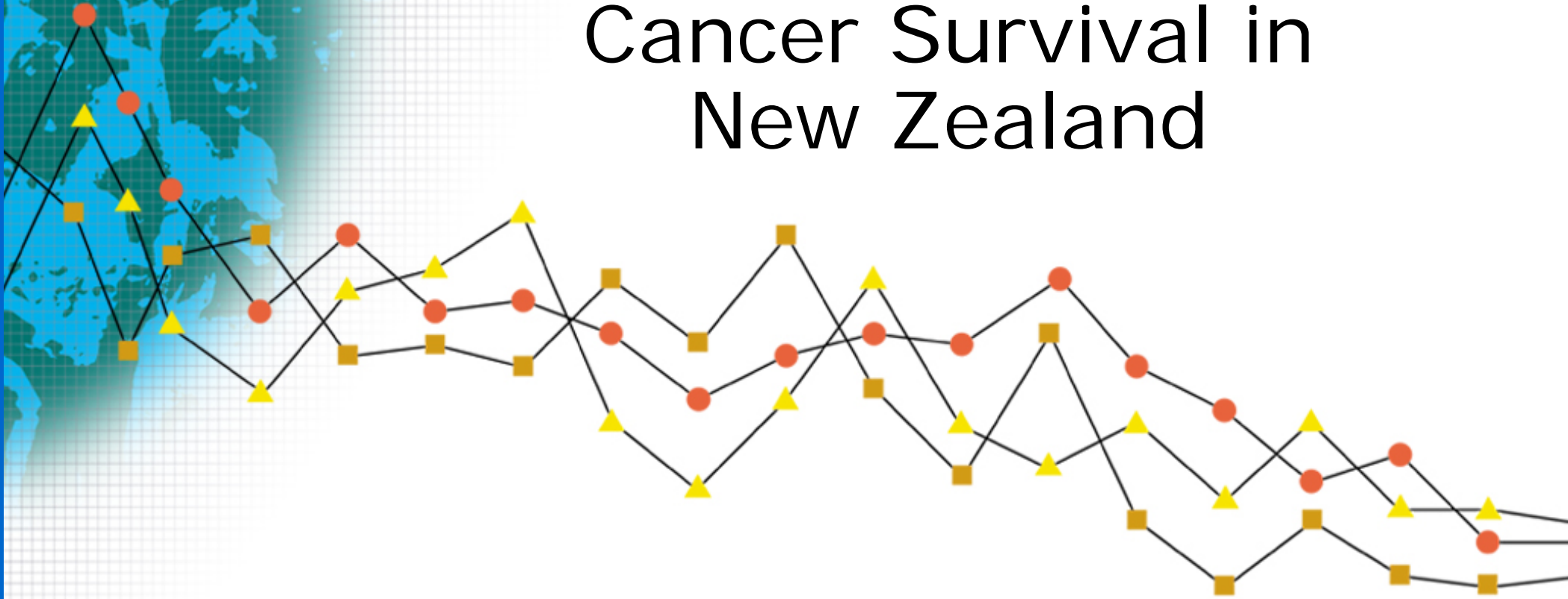


Ethnic Differences in Cancer Survival in New Zealand



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- Staff at New Zealand Cancer Registry



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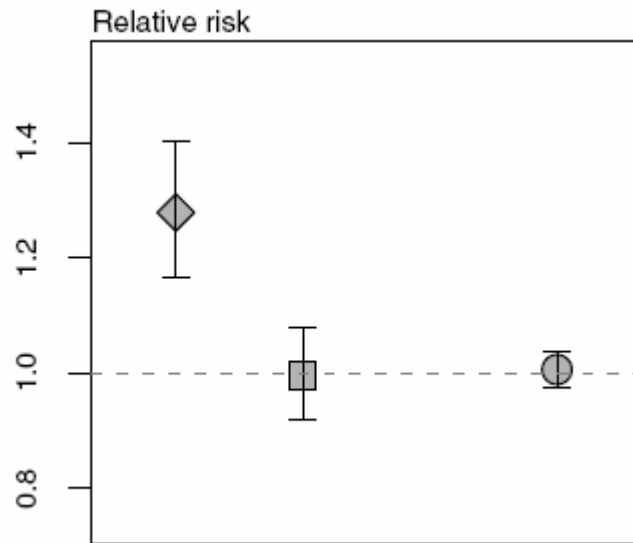
Background

- Ethnic differences in cancer incidence and mortality
- Mortality differences not accounted for by differences in incidence

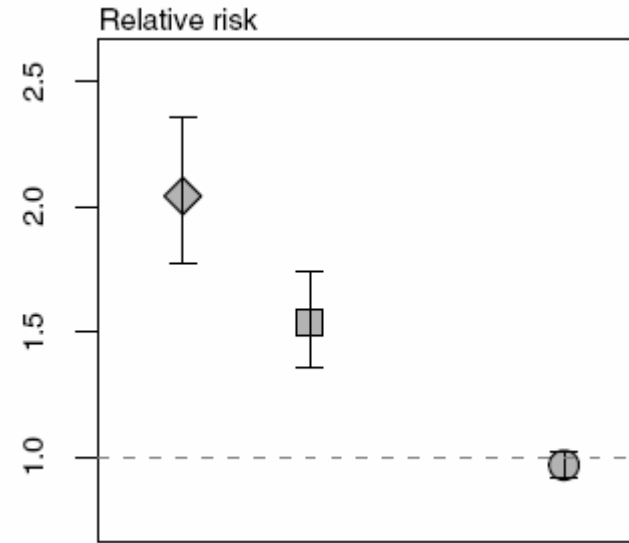


Breast Cancer

Incidence



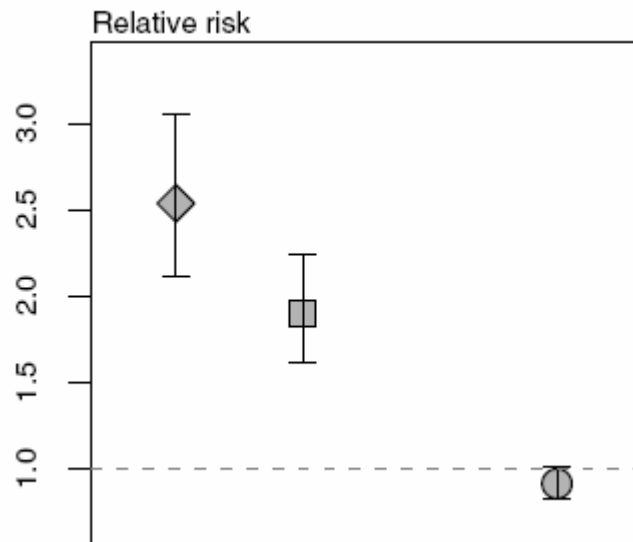
Mortality



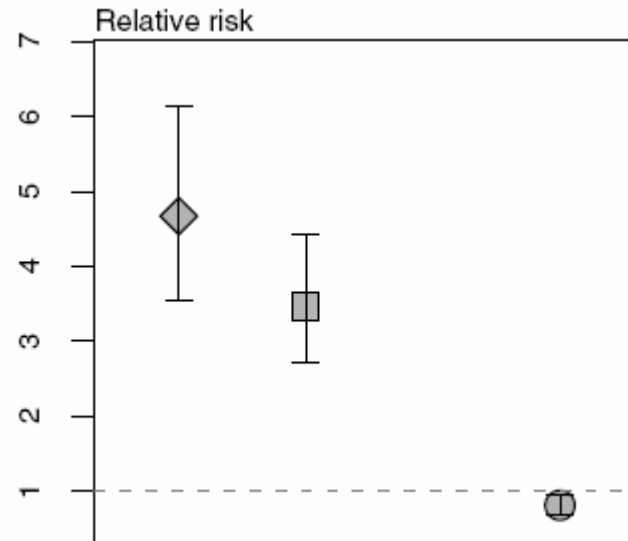
Ethnic group key: ◆ sole Māori ■ total Māori ● non-Māori

Cervical Cancer

Incidence



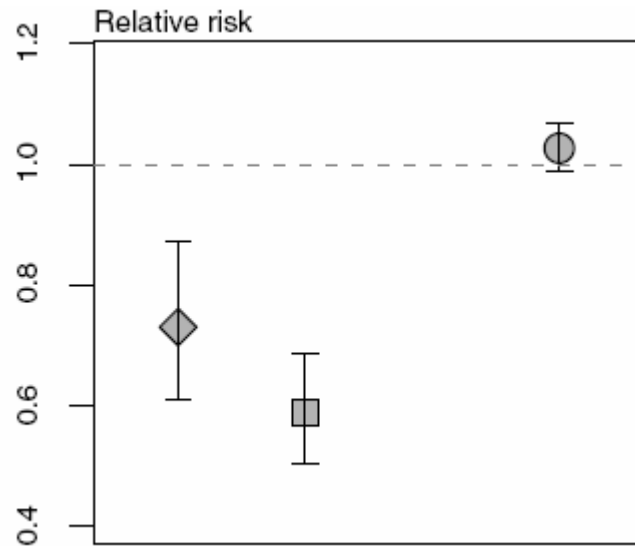
Mortality



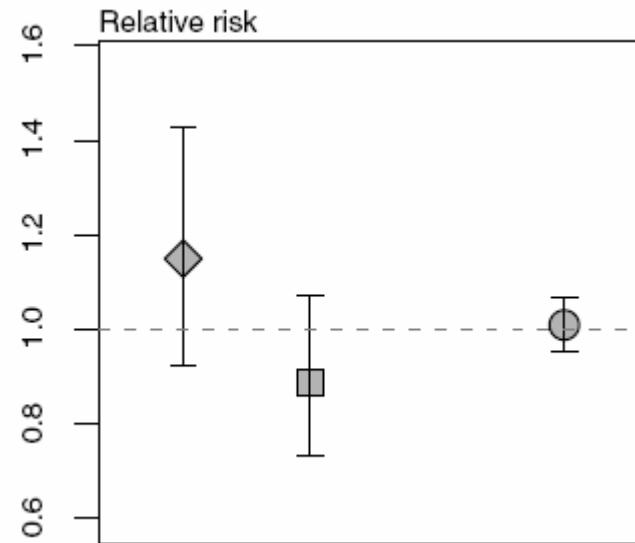
Ethnic group key: ◆ sole Māori ■ total Māori ● non-Māori

Colo-rectal Cancer (men)

Incidence



Mortality

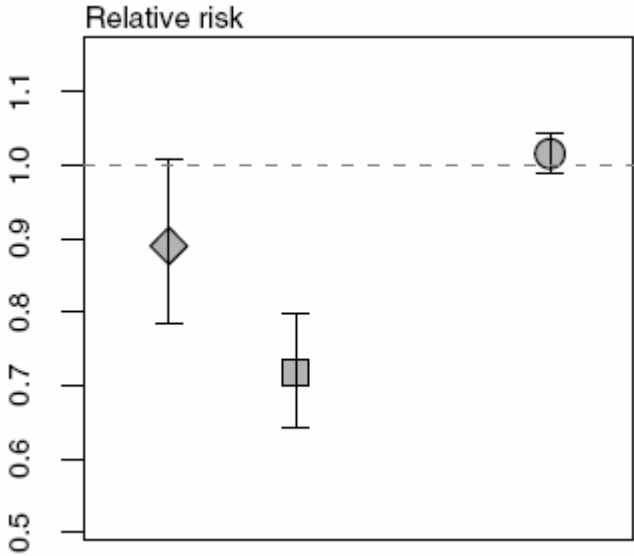


Ethnic group key: ◆ sole Māori ■ total Māori ● non-Māori

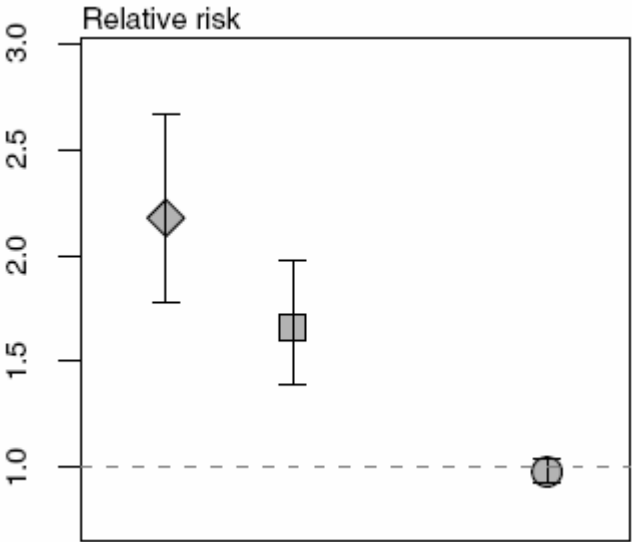


Prostate Cancer

Incidence

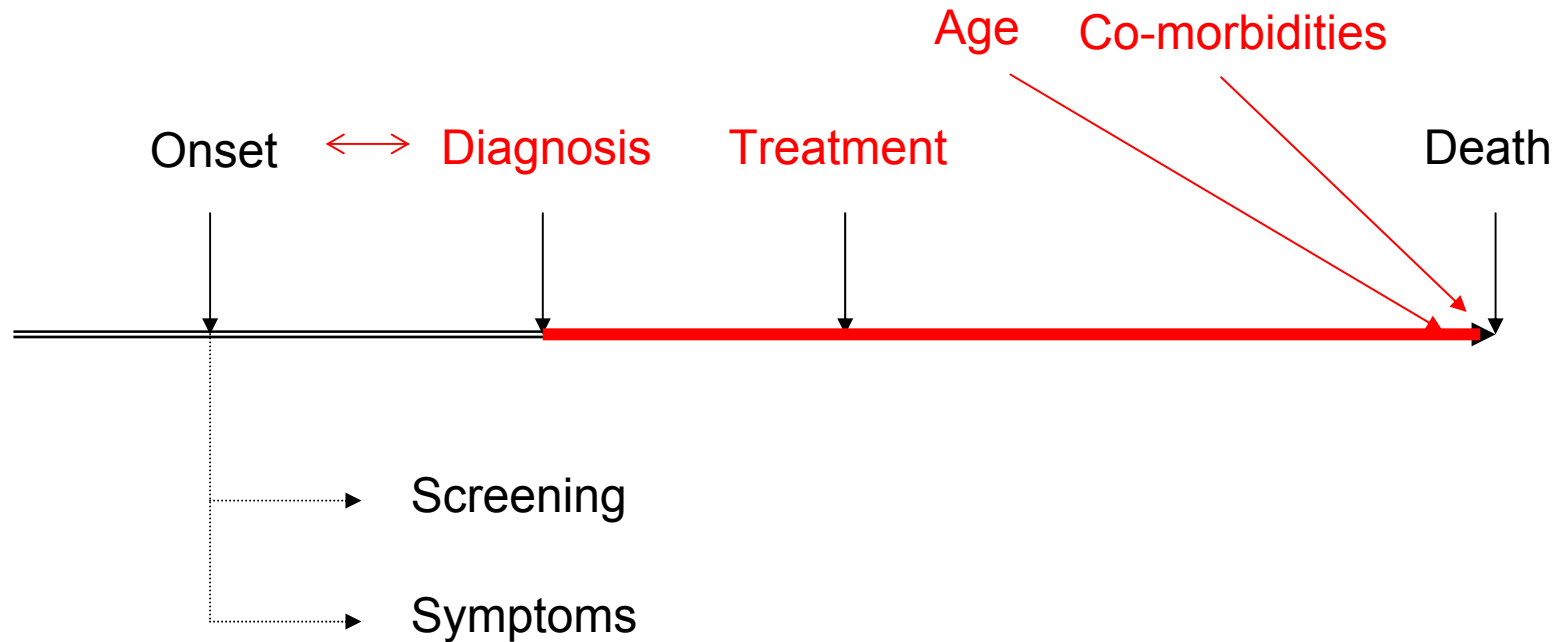


Mortality



Ethnic group key: ◆ sole Māori ■ total Māori ● non-Māori

Influences on survival

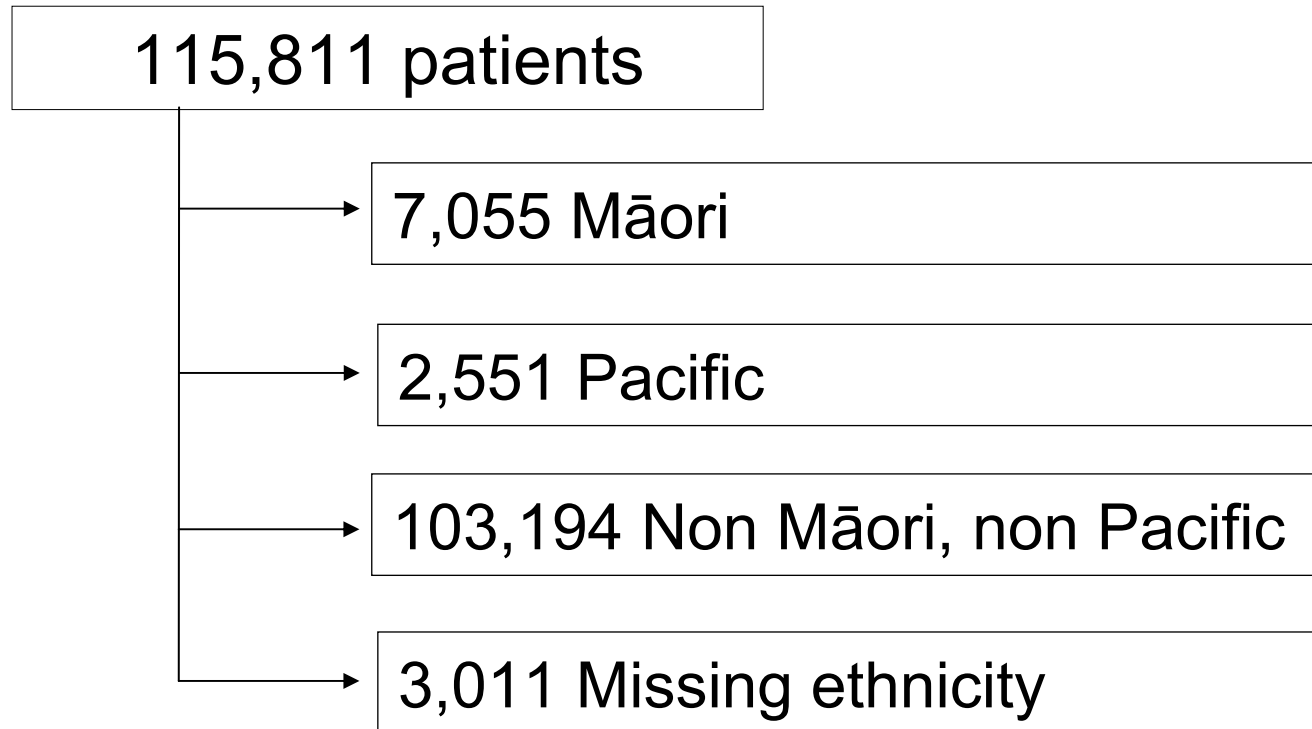


Methods

- Adult patients (aged 15 to 99)
- Cancer registered between July 1994 and June 2002
- Linked to Mortality Collection using NHI
- Followed to June 2003
- Prioritised system of ethnicity classification
 - Hospitalisation or health administration databases
 - Māori, Pacific, non- Māori / non-Pacific
 - 2.6% missing ethnicity data



Participants



Relative survival

- Observed : expected survival ratio
- Estimate excess mortality “due” to cancer
or
- Survival adjusted for background mortality
- Life-table methods (1996 Census)

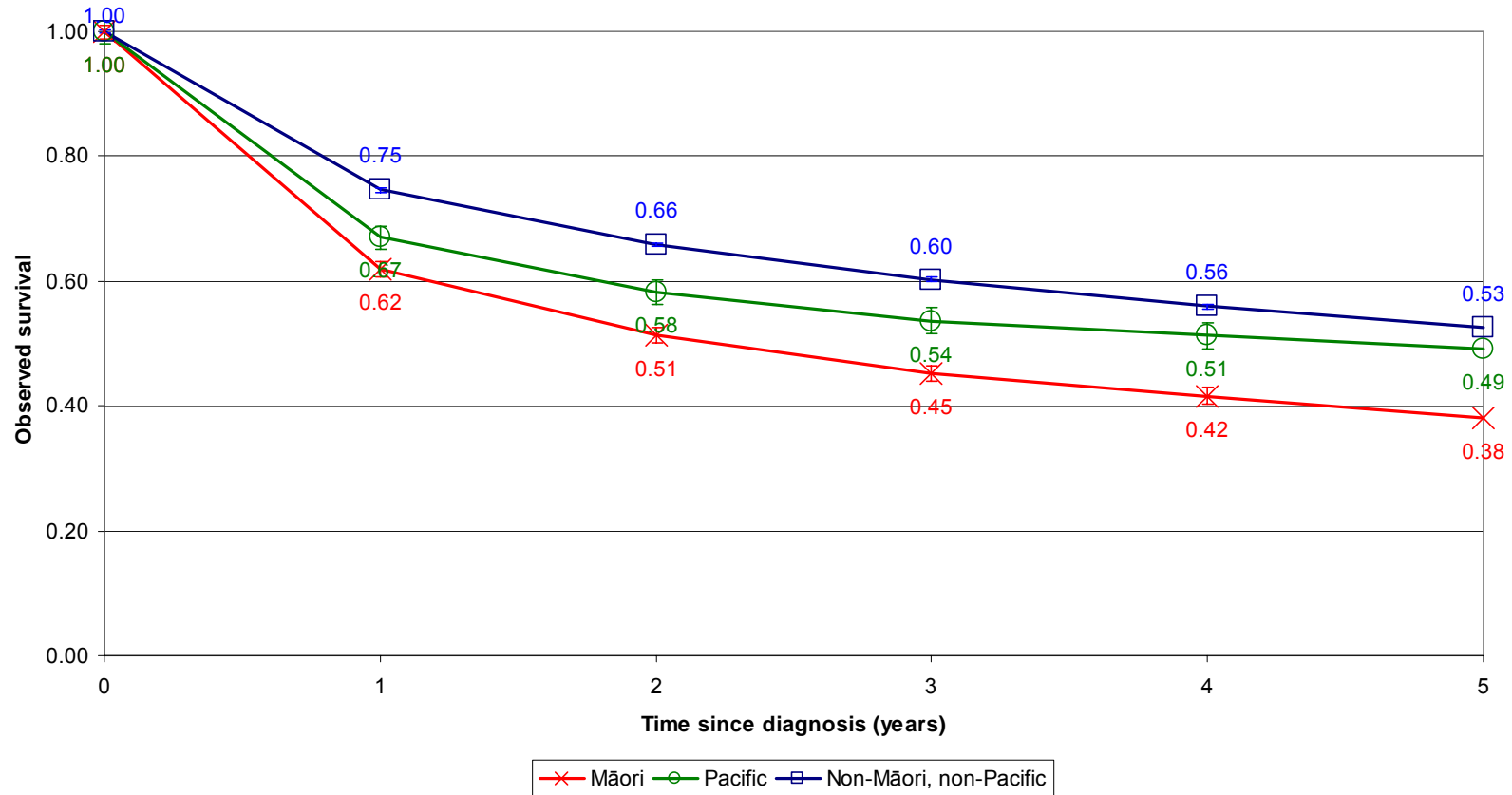


What population?

- Total New Zealand
 - Estimate total disparities in mortality between ethnic groups
 - Does not account for differing levels of background mortality
- Ethnic-specific
 - Estimates the cancer-specific mortality differences

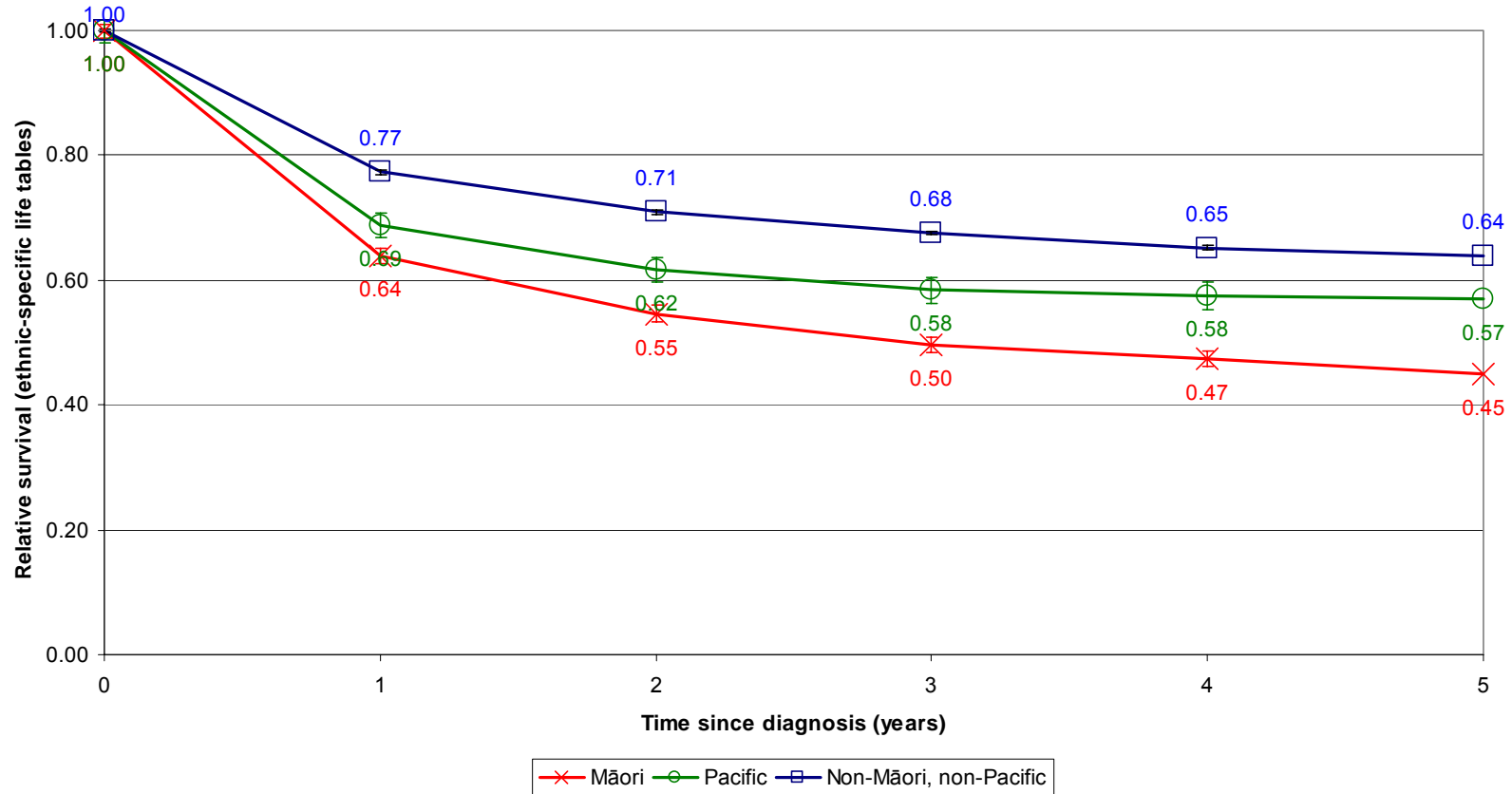


Crude survival (20 main cancers)



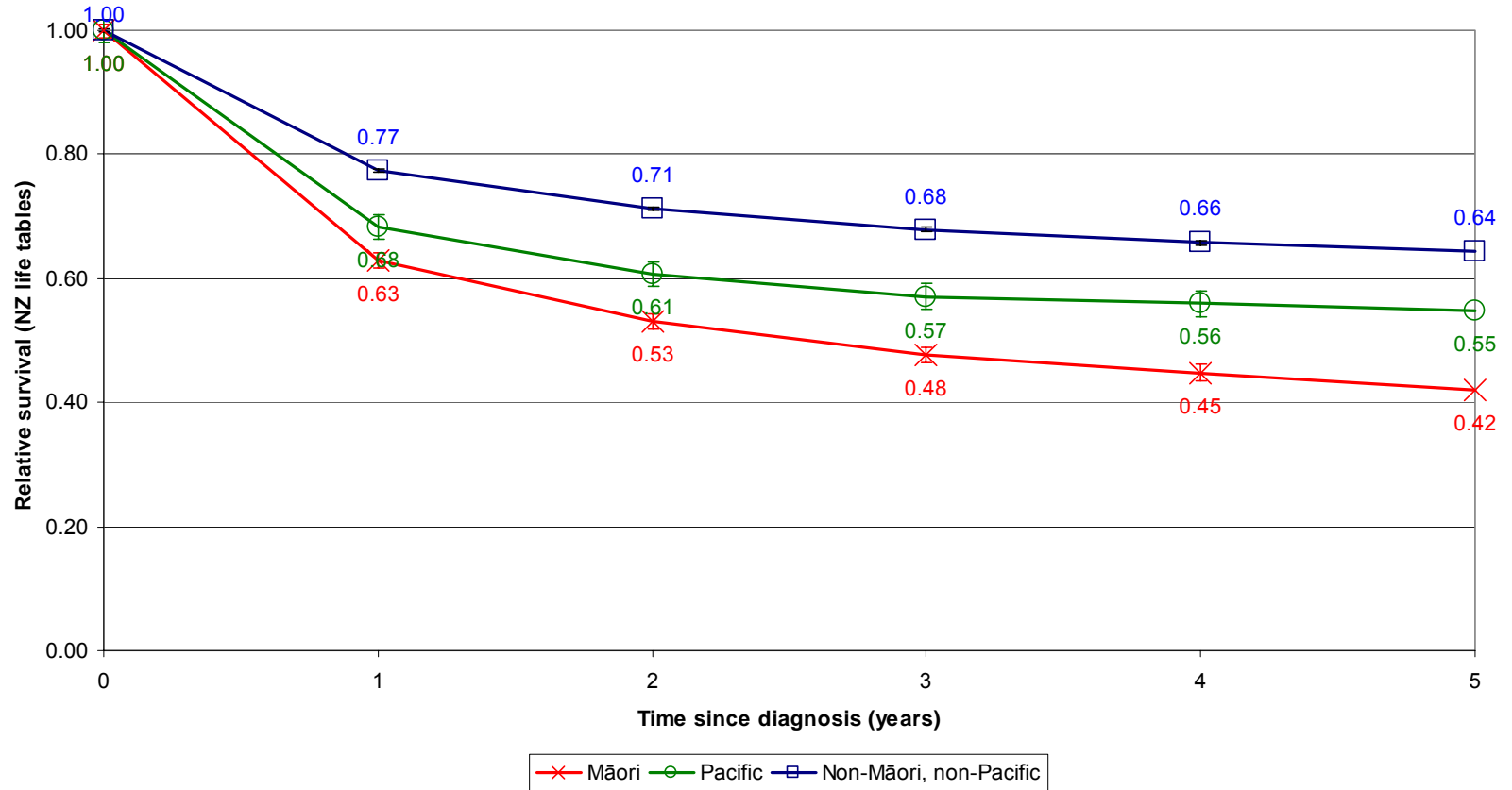
Relative survival

Ethnic specific life tables

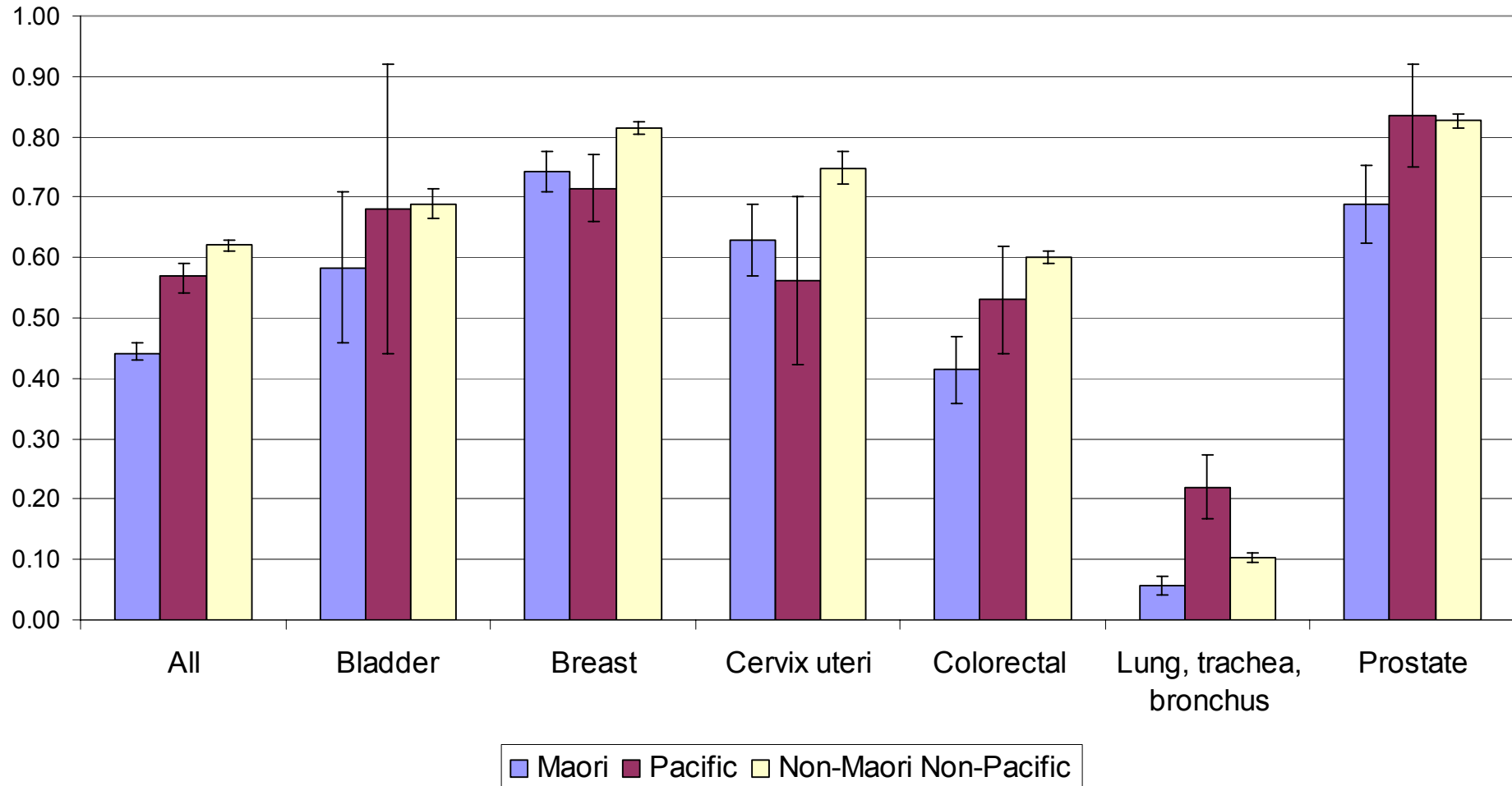


Relative survival

New Zealand life tables



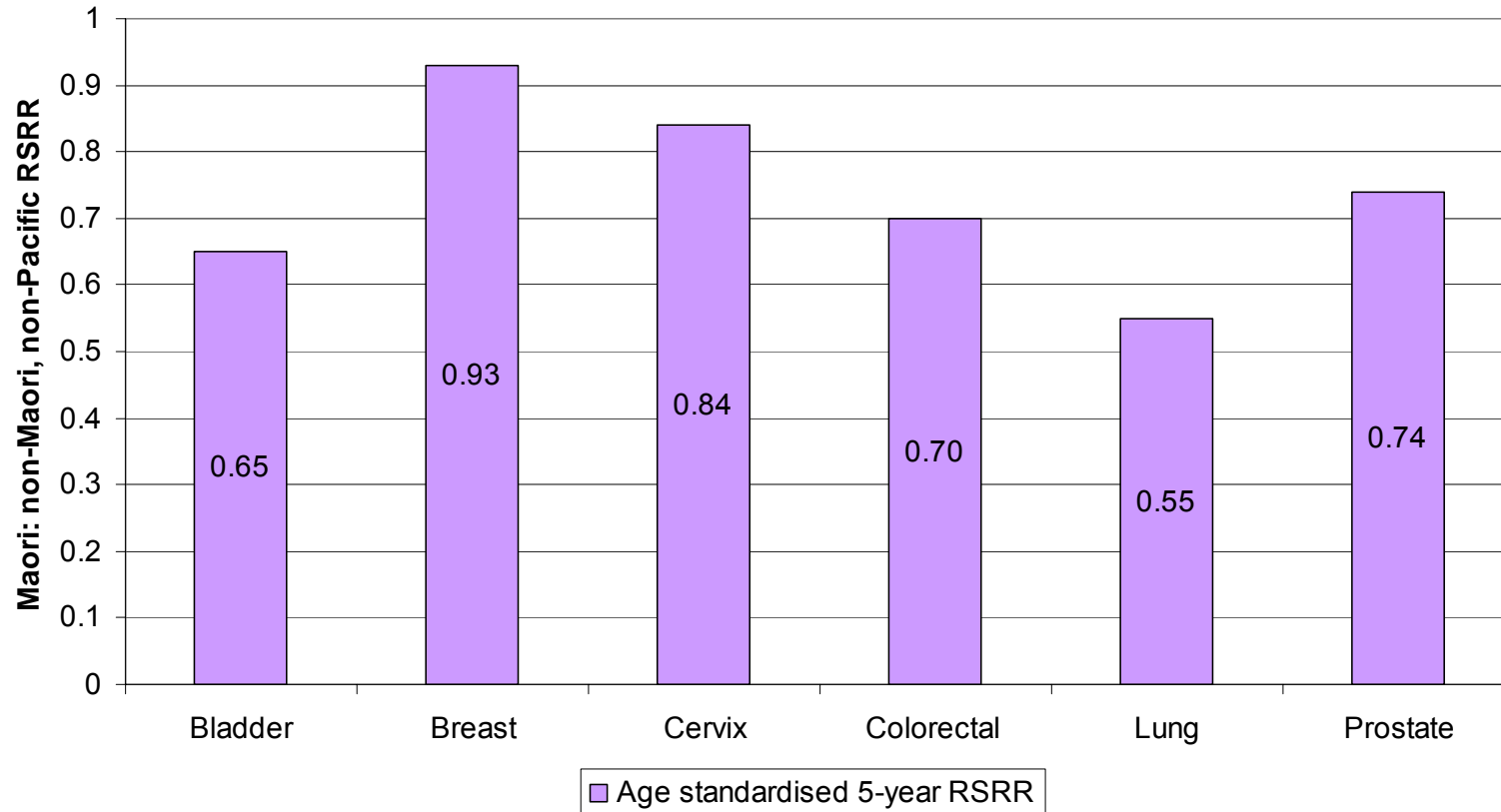
Age-adjusted 5-year RSRs



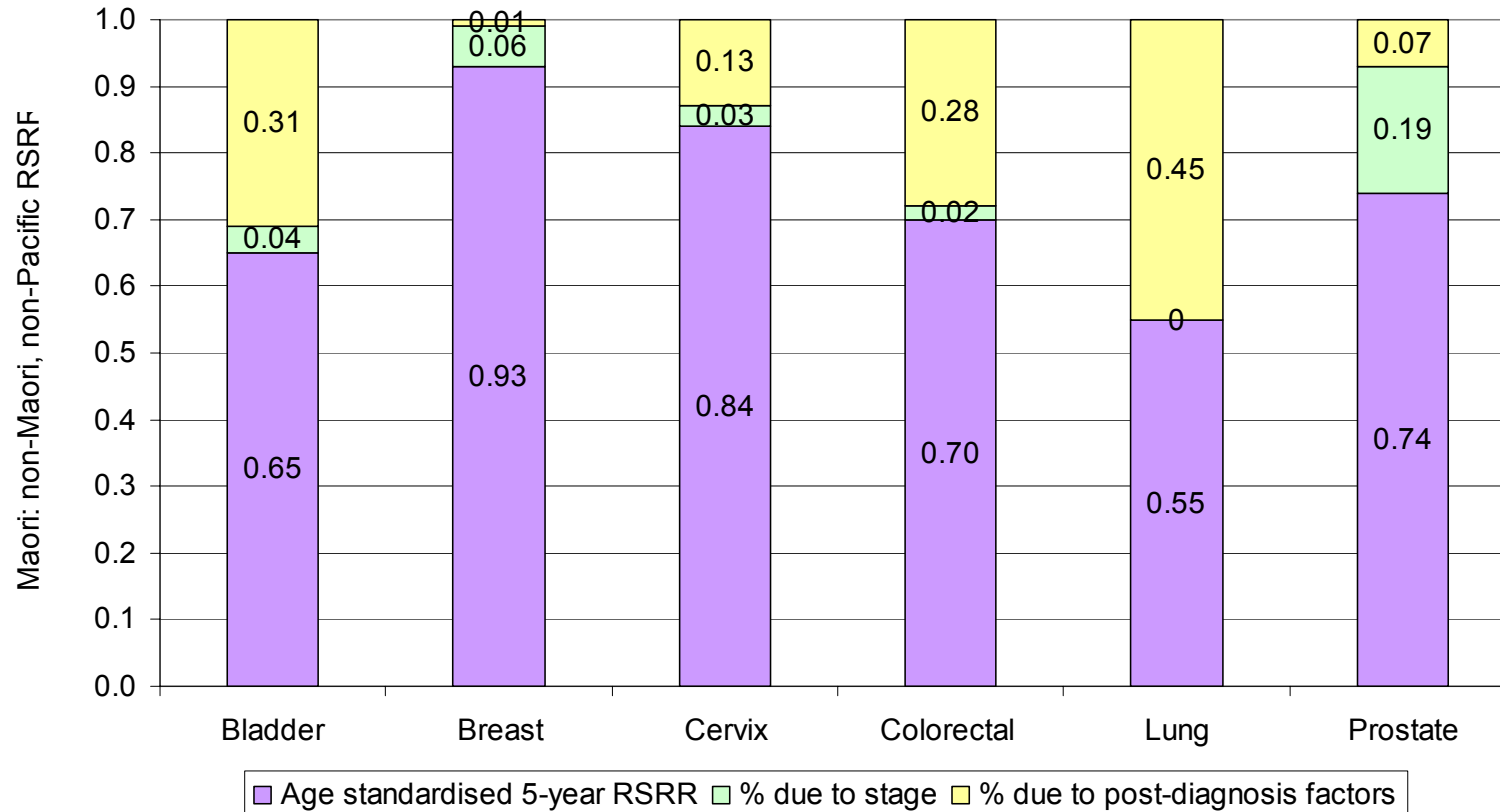
Contribution of Stage

- Excluded 35% with no stage / extent data
- Solid tumours
- Too few Pacific patients for meaningful analysis
- Calculated Māori : non-Māori/ non-Pacific RSR ratio
- Proportion of the cancer inequalities attributable to stage

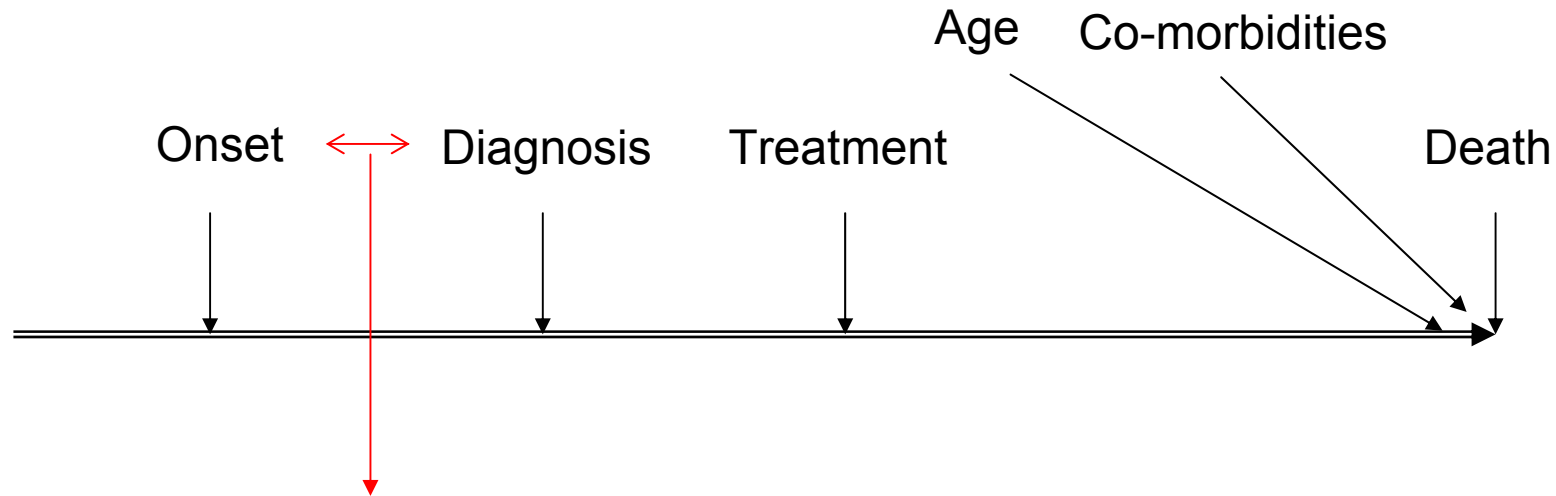
Māori : non-Māori/ non-Pacific RSRR



Proportion attributable to stage



Possible explanations (I)



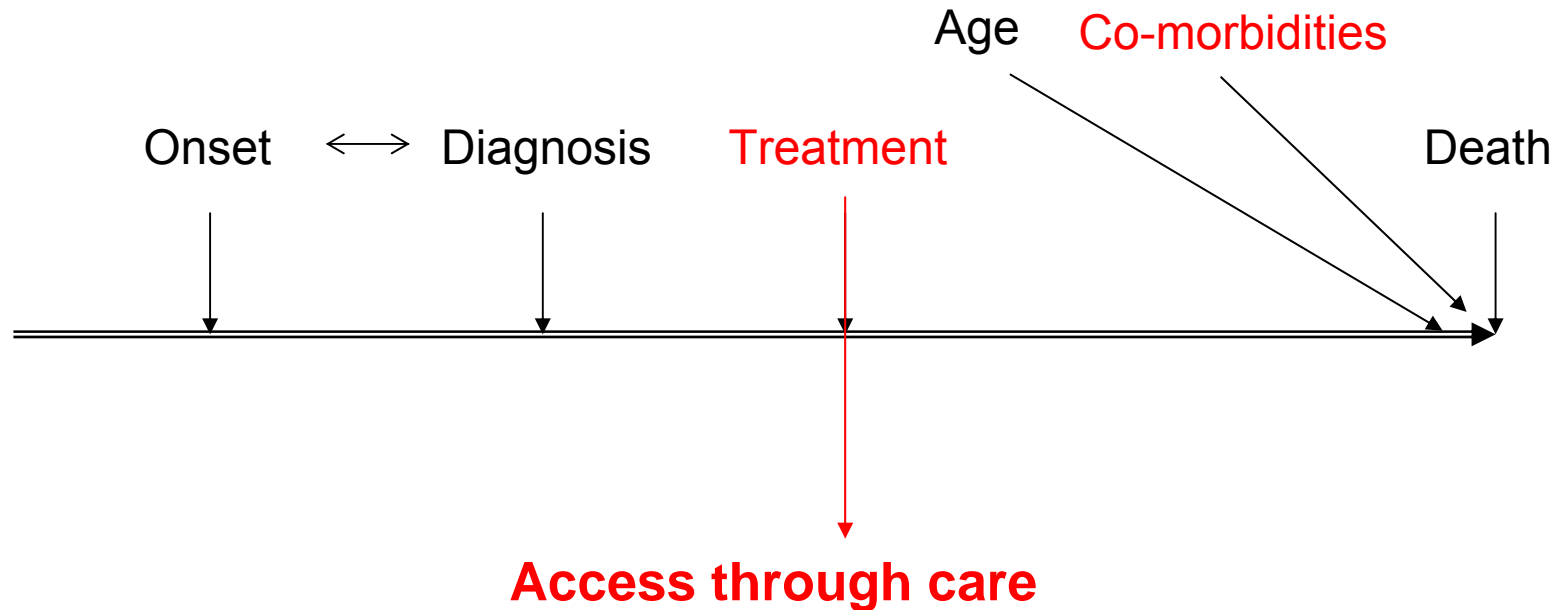
Access to primary care

effect of screening – breast, cervical



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Possible explanations (II)



Co-morbidities may limit treatment choices



Future directions

- Review services
 - Stock-take of cancer services for Māori
- Data
 - Improve ethnicity and extent of disease data on Cancer Registry
- Analysis
 - Joint contributions of socio-economic position and ethnicity
- Research
 - Identify where on continuum inequalities arise
 - Strategies for intervention



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