

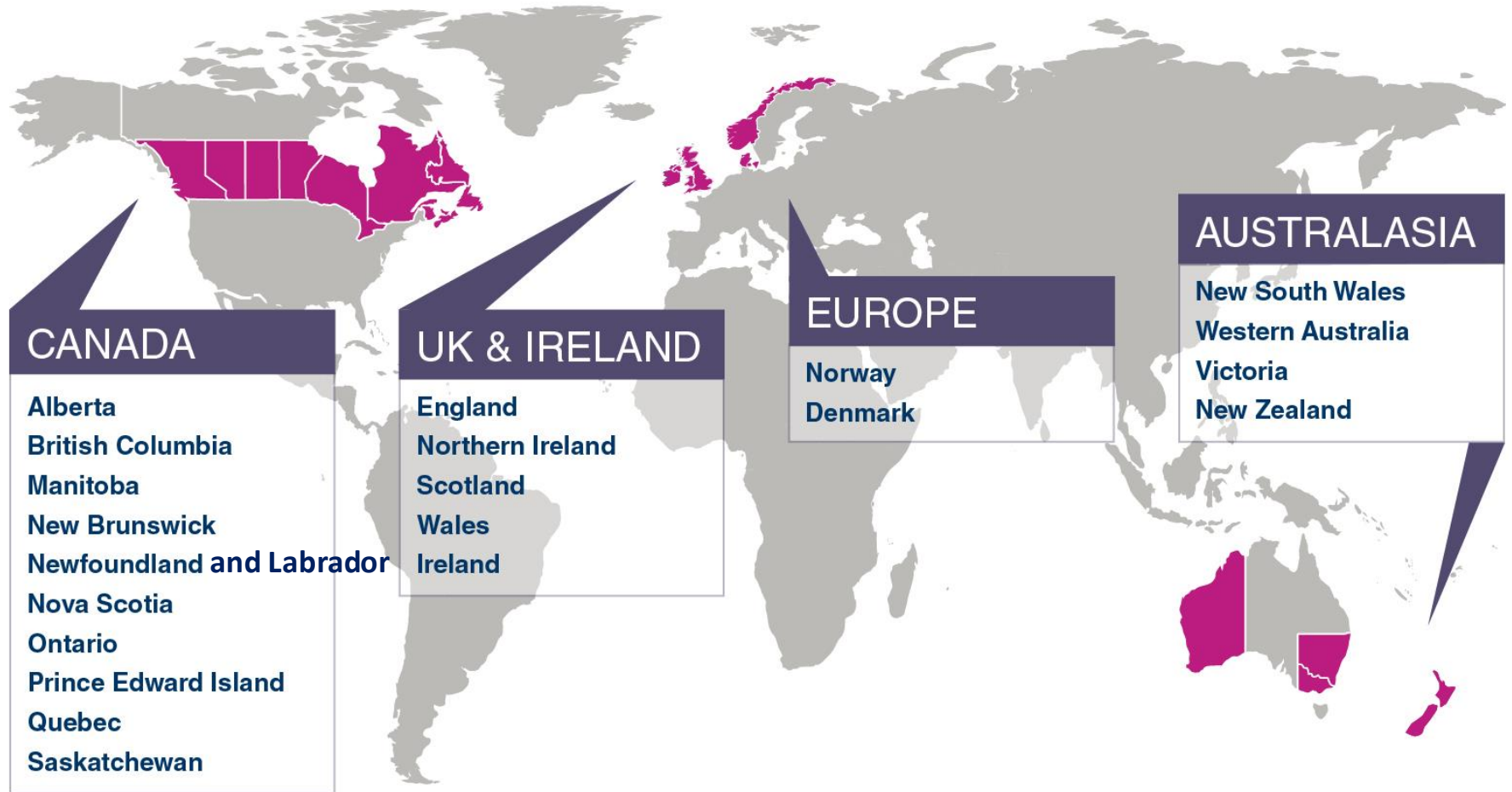


Progress in cancer survival across Canada, 1995-2014: The **ICBP SURVMARK2** project

International Agency for Research on Cancer
Lyon, France

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Benchmarking 8 cancer types in 21 jurisdictions in 7 countries



survival.iarc.fr/Survmark/en/

Data

- Data from population-based cancer registries in **8 provinces** (Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island, Saskatchewan)
 - Quebec and Newfoundland & Labrador submitted partial data; not included in these analyses
 - Prince Edward Island data not shown due to low case counts
- **Seven cancer sites discussed here** (oesophagus, stomach, colon, rectum, pancreas, lung & ovary)
- Cases diagnosed **1995-2014**; follow-up until 31 Dec 2015
- Stringent **quality control** and **harmonization** processes
- Total cases: **~1 million** Range: **5,500 (PEI) – 400,000 (ON)**

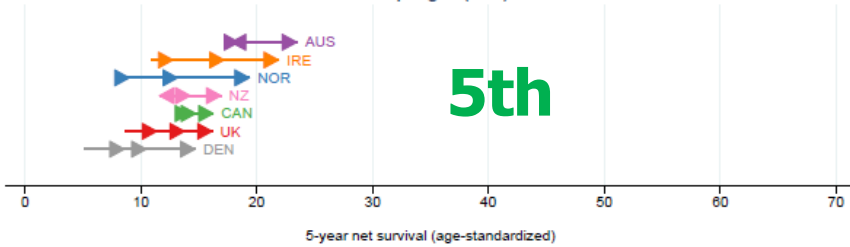


Methods

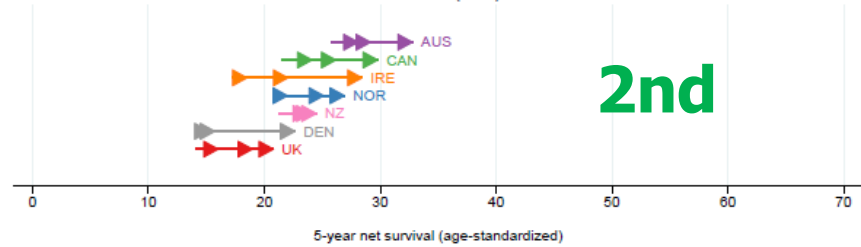
- Exclusions:
 - Patients <15 and >99 years at diagnosis
 - Multiple cancers at the same site
 - DCO/Autopsy cases, cases with inconsistencies
 - Borderline ovarian cancers
- 1-year and 5-year age-standardized net survival estimates were calculated by sex, calendar period, cancer type and country
- Age-standardization with ICSS weights for survival; incidence and mortality rates used World standard

Trends in 5-yr net survival by country 1995-1999 vs 2010-2014

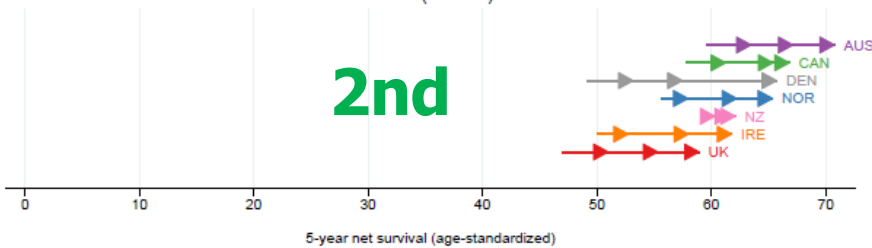
Oesophagus (C15)



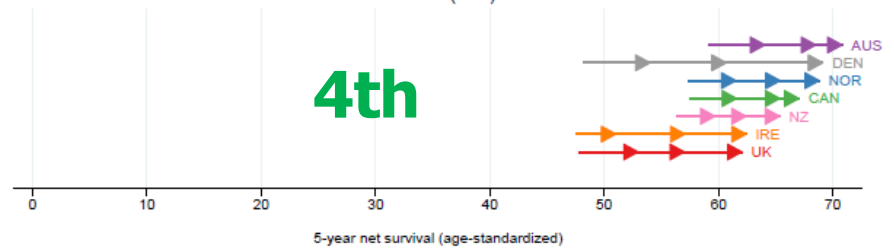
Stomach (C16)



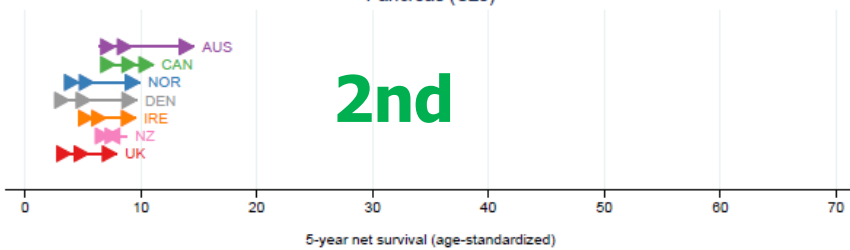
Colon (C18-19)



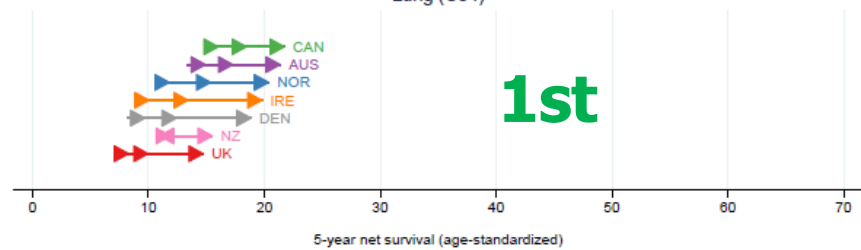
Rectum (C20)



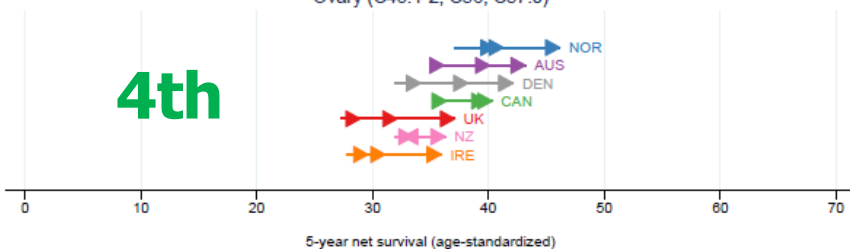
Pancreas (C25)



Lung (C34)

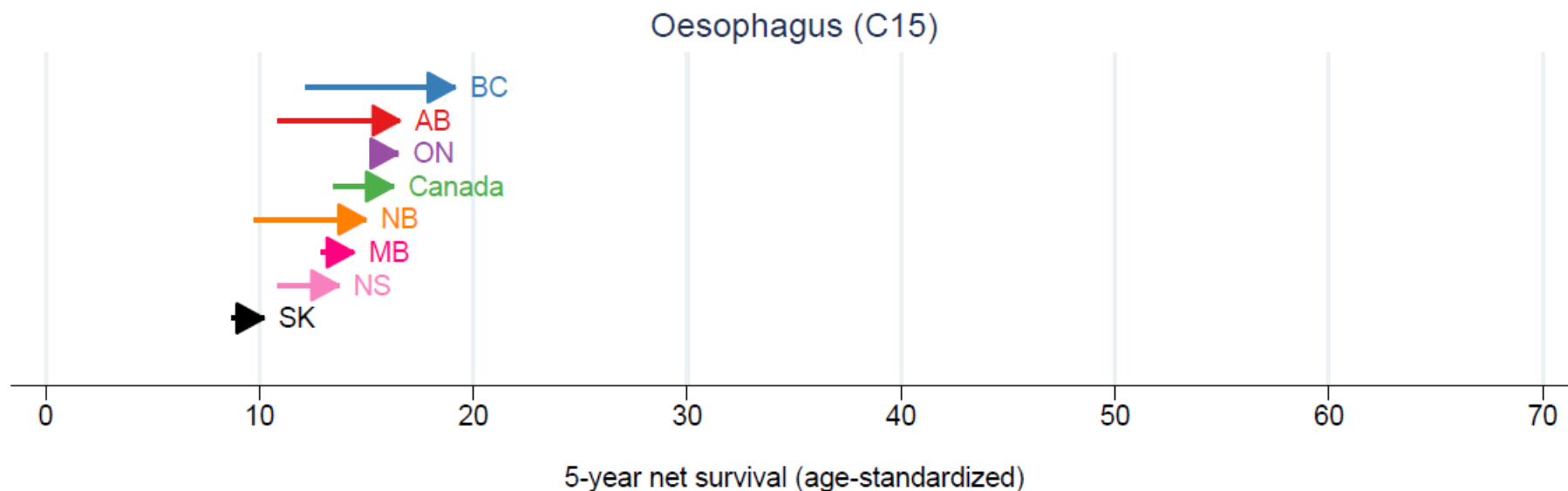


Ovary (C48.1-2, C56, C57.0)



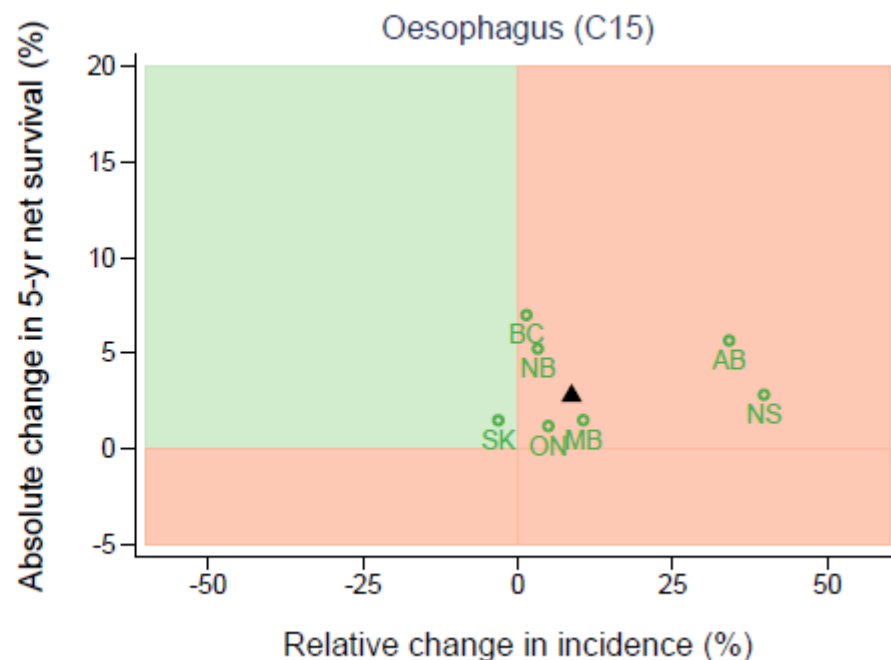
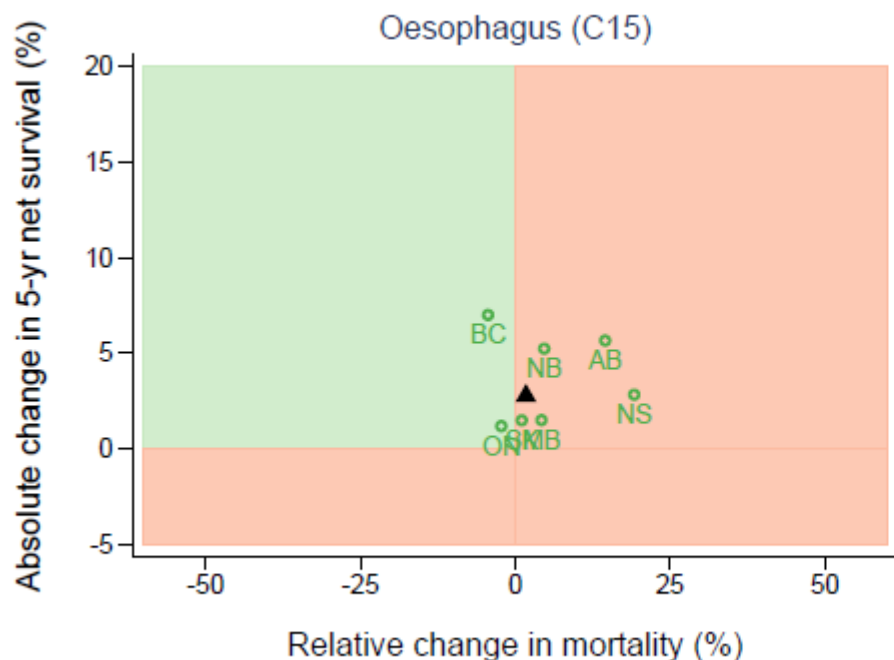
***Canada:** all provinces except Quebec and Newfoundland & Labrador
 ***Australia:** NSW, Victoria, Western Australia
 ***UK:** Wales, Scotland, England, Northern Ireland

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Oesophagus (C15)



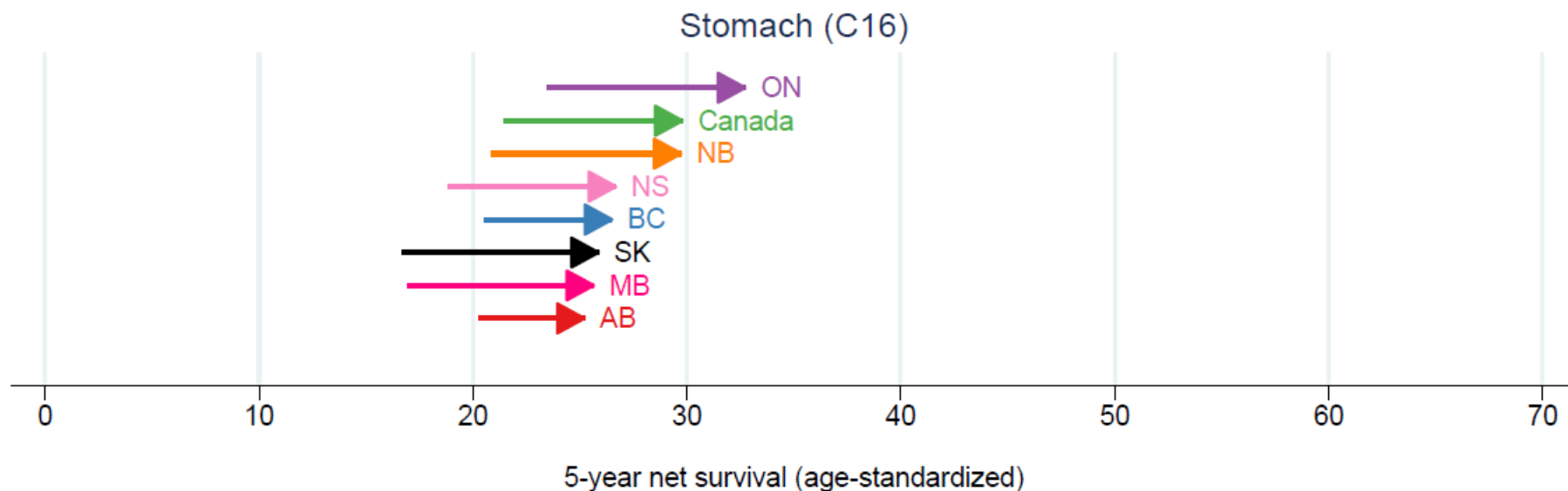
- 5-year survival ranging from 10% in Saskatchewan to 19% in BC in the most recent period (2010-2014)
- Highest absolute increase in survival in BC between 1995-1999 and 2010-2014 (7 percentage points)

Trends in incidence, mortality and survival 1995-1999 vs 2010-2014: Oesophagus (C15)



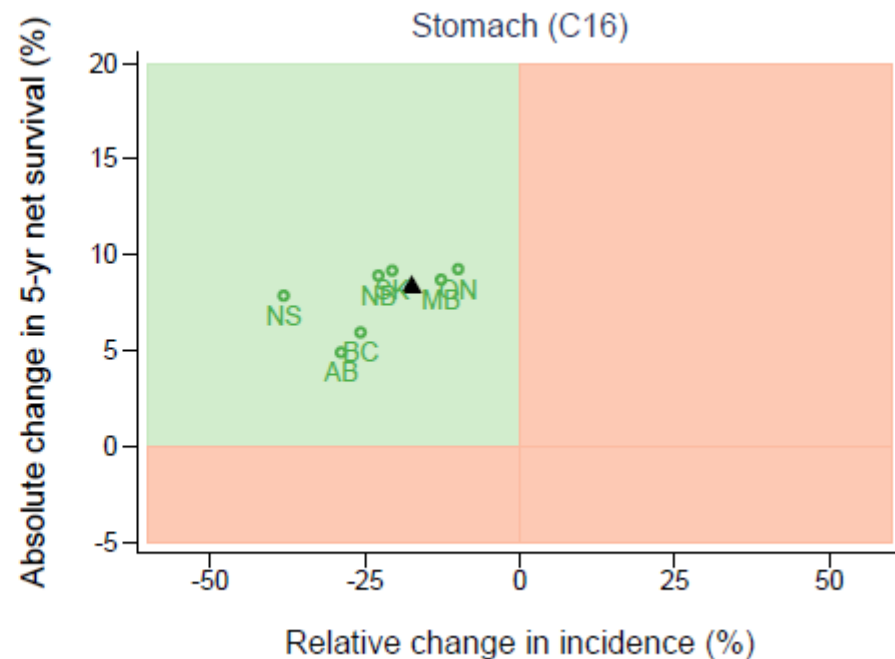
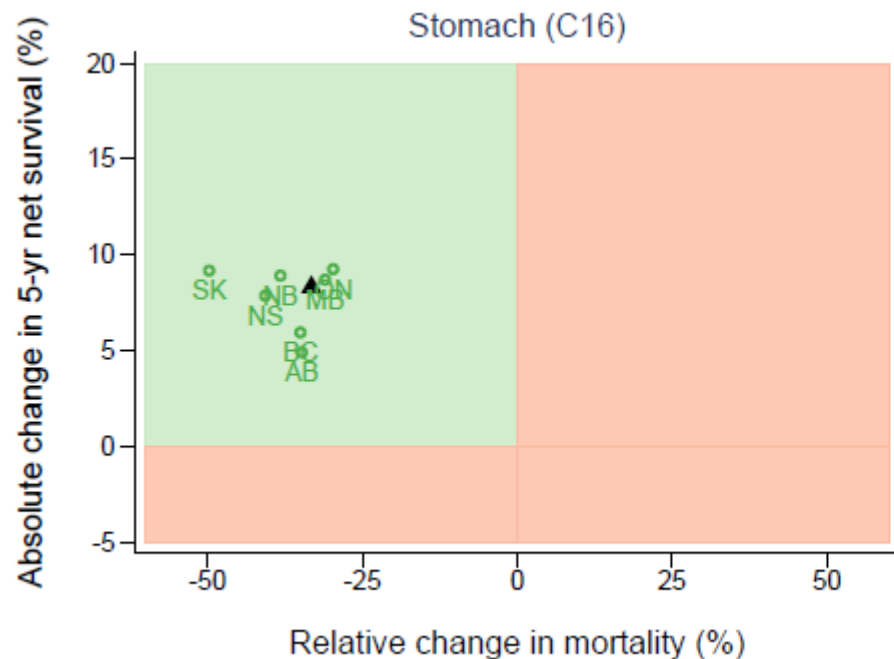
- Little evidence of progress; incidence going up in some regions

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Stomach (C16)



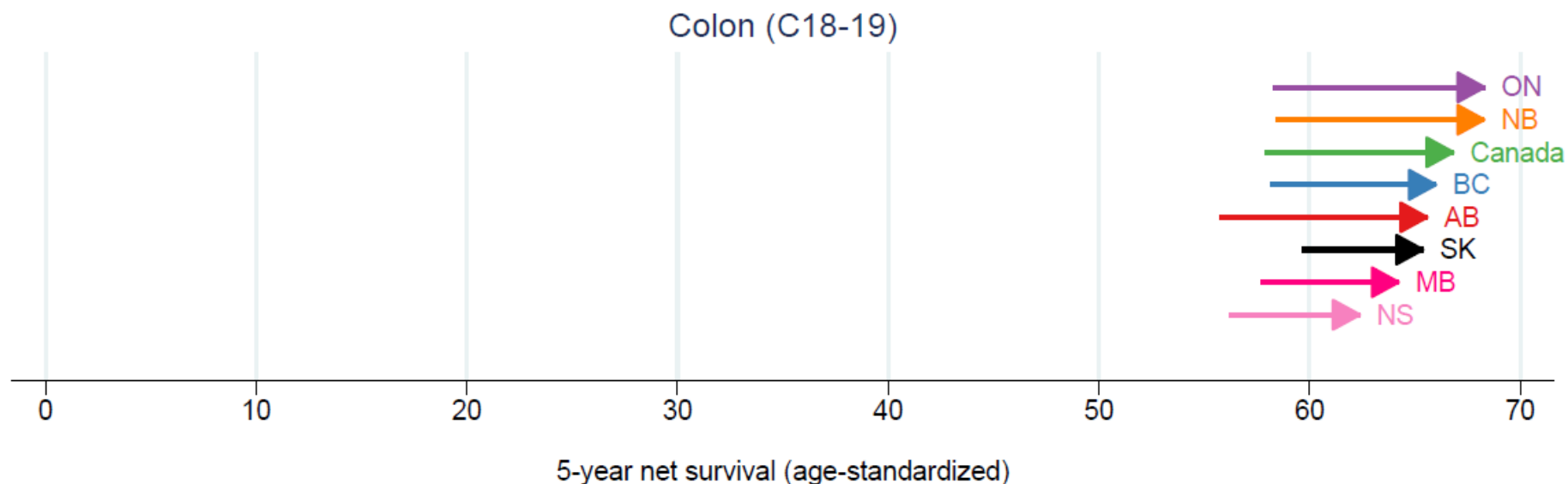
- 5-year survival ranging from 25% in Alberta to 33% in Ontario in the most recent period (2010-2014)
- Highest absolute increase in survival in NB, SK and ON between 1995-1999 and 2010-2014 (9 percentage points)

Trends in incidence, mortality and survival 1995-1999 vs 2010-2014: Stomach (C16)



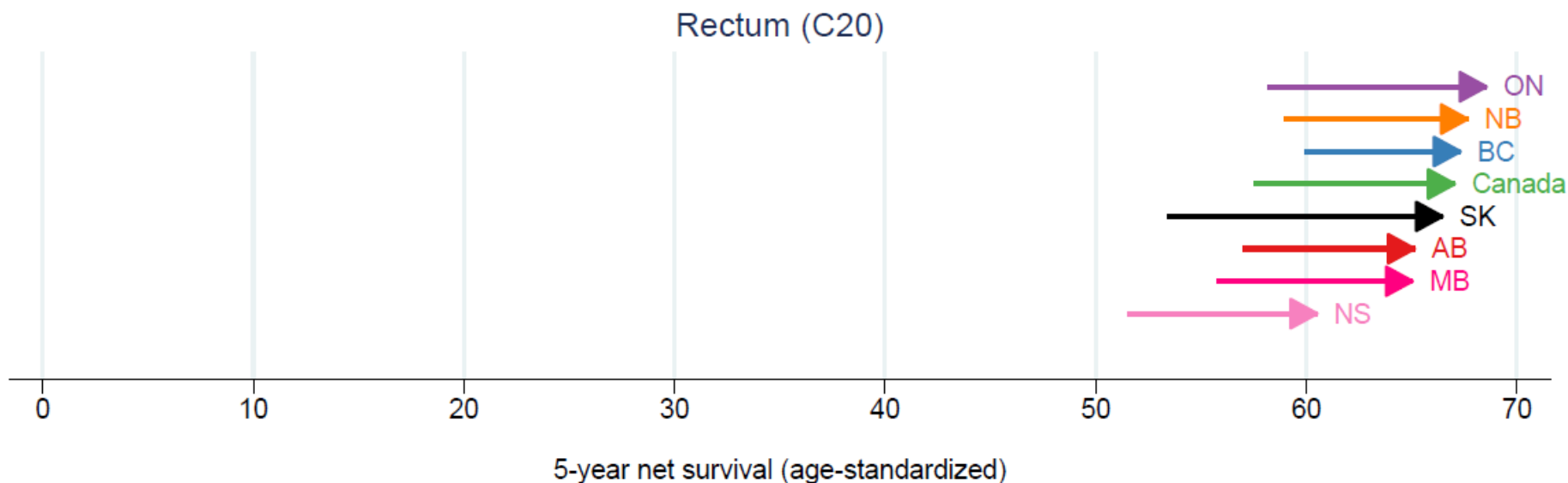
- Clear progress in all provinces

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Colon (C18-19)



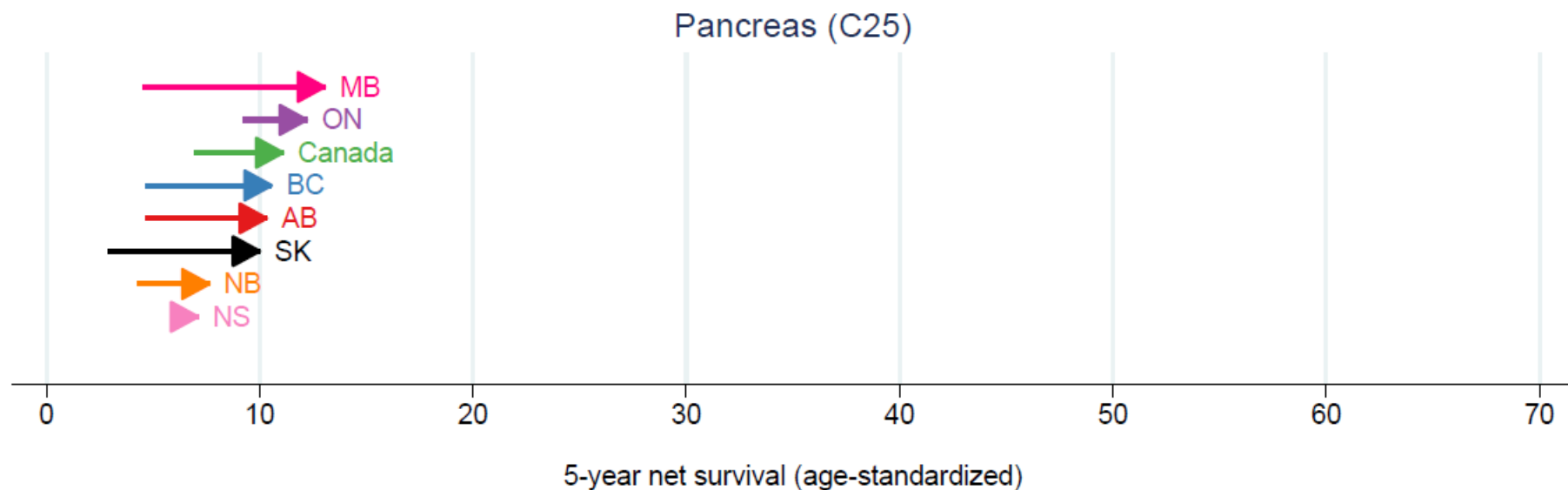
- 5-year survival ranging from 62% in Nova Scotia to 68% in Ontario in the most recent period (2010-2014)
- Highest absolute increase in survival in AB, NB and ON between 1995-1999 and 2010-2014 (10 percentage points)

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Rectum (C20)



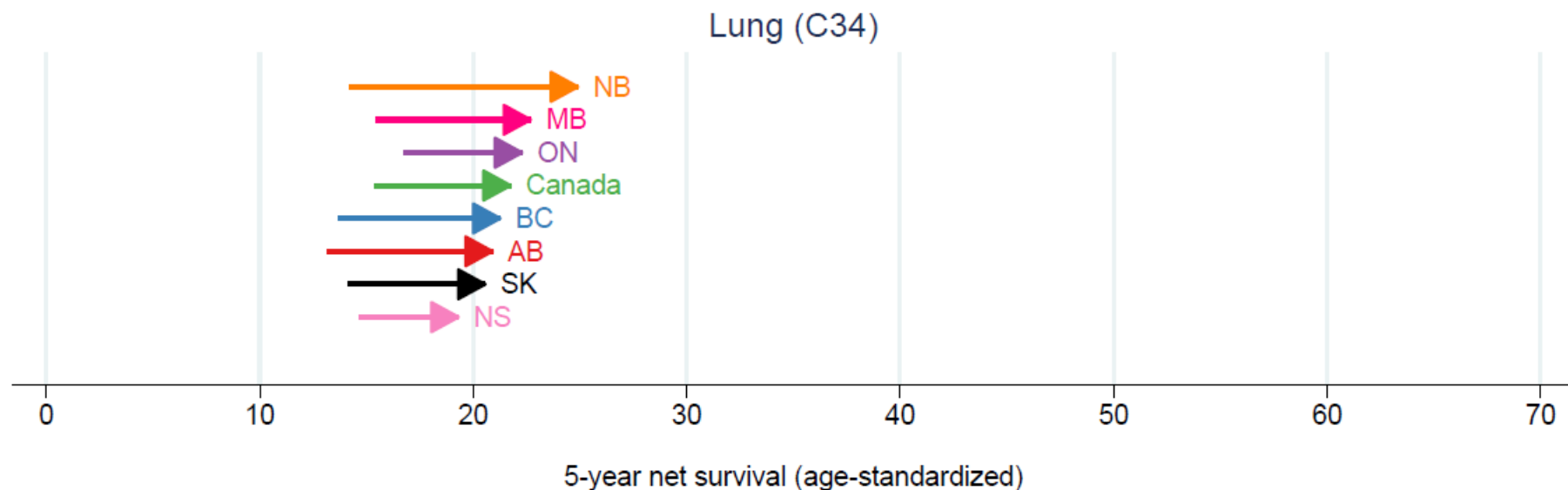
- 5-year survival ranging from 60% in Nova Scotia to 69% in Ontario in the most recent period (2010-2014)
- Highest absolute increase in survival in Saskatchewan between 1995-1999 and 2010-2014 (13 percentage points)

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Pancreas (C25)



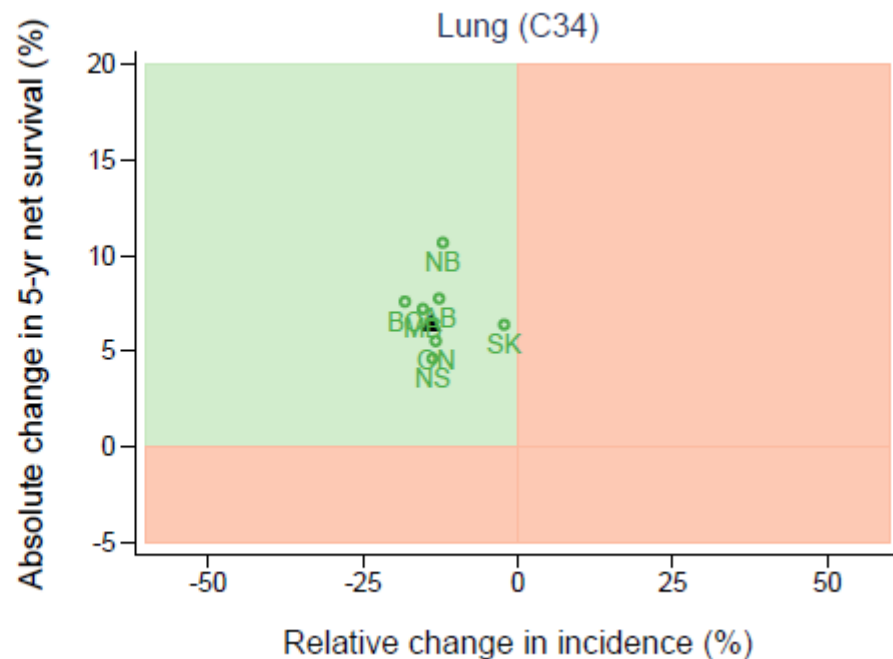
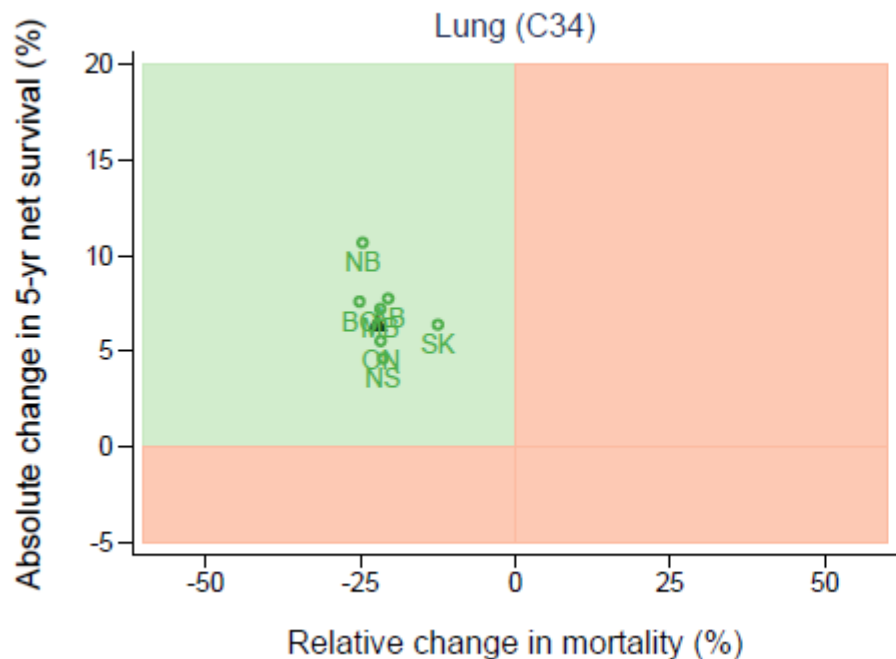
- 5-year survival ranging from 7% in Nova Scotia to 13% in Manitoba in the most recent period (2010-2014)
- Highest absolute increase in survival in Manitoba between 1995-1999 and 2010-2014 (8 percentage points)

Trends in 5-yr net survival by province 1995-1999 vs 2010-2014: Lung (C34)



- 5-year survival ranging from 19% in Nova Scotia to 25% in New Brunswick in the most recent period (2010-2014)
- Highest absolute increase in survival in New Brunswick between 1995-1999 and 2010-2014 (11 percentage points)

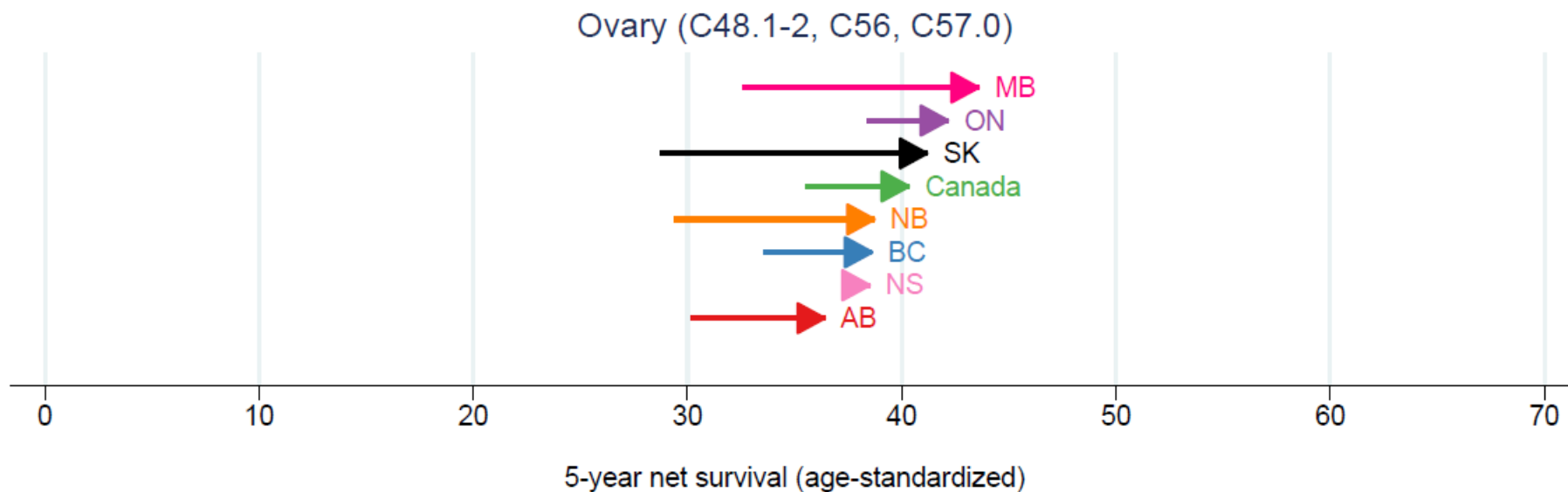
Trends in incidence, mortality and survival 1995-1999 vs 2010-2014: Lung (C34)



- Clear progress; driven by males

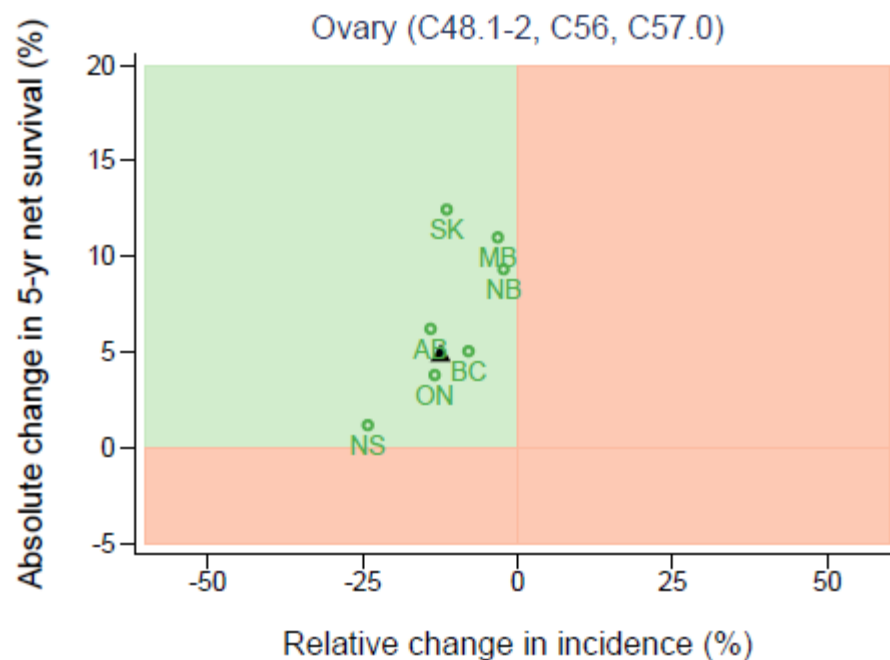
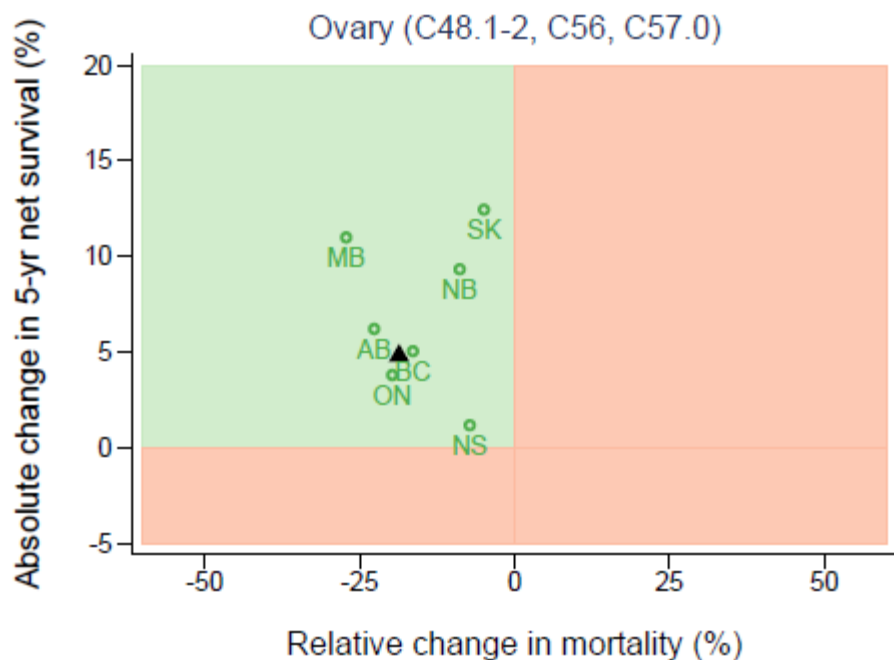
Trends in 5-yr net survival by province

1995-1999 vs 2010-2014: Ovary (C48.1-2, C56, C57.0)



- 5-year survival ranging from 36% in Alberta to 44% in Manitoba in the most recent period (2010-2014)
- Highest absolute increase in survival in Saskatchewan between 1995-1999 and 2010-2014 (12 percentage points)

Trends in incidence, mortality and survival 1995-1999 vs 2010-2014: Ovary (C48.1-2, C56, C57.0)



- Clear progress in all provinces

Results: Summary

- **Improvements** in cancer survival have occurred across all provinces and for all cancers examined within the study
- **Disparities** in survival estimates across provinces continue to be seen in the most recent period (e.g. for oesophagus, colorectal, ovarian cancers)
 - Some provinces are consistently lower than others across sites
- Several cancers show **significant progress** with decreases in cancer incidence and mortality as well as a corresponding increase in survival (e.g. ovary, lung, stomach);
- Others, however, despite improvements in survival continue to have rising mortality rates due largely to increases in cancer incidence (e.g. rectum, oesophagus, pancreas)
- Further work will explore individual cancer sites in greater detailed analyses (by age, sex and stage at diagnosis)

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