



Stomach cancer in North America: geographic variation in net survival by age and sex (CONCORD-2)

Carreira H, Bannon F, Harewood R, Spika D, Bonaventure A, Coleman MP,
Allemani C *on behalf of the CONCORD Working Group*

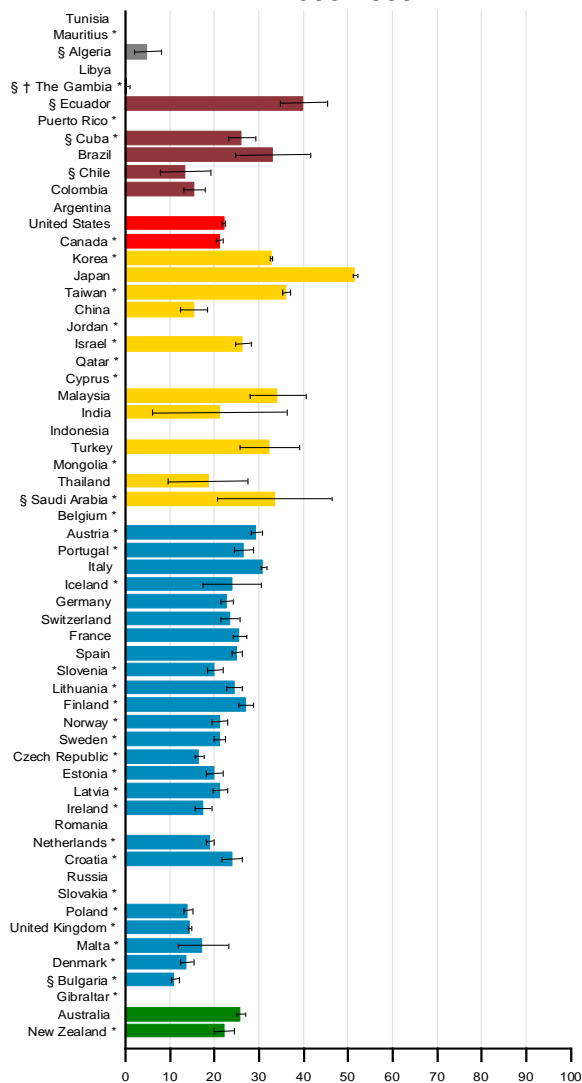


CONCORD
Global surveillance
of cancer survival

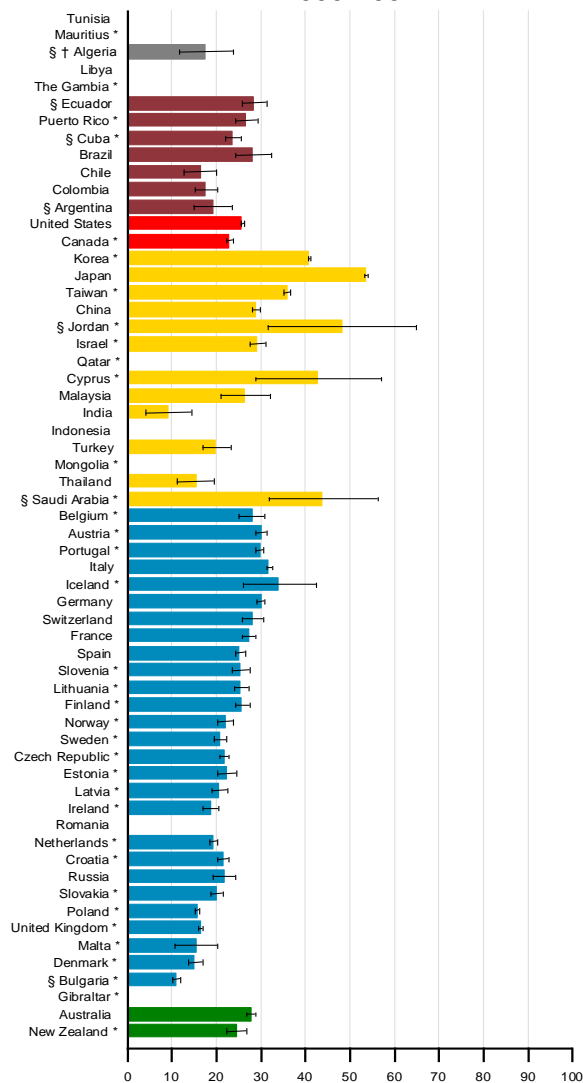
Survival trends in 56 countries 1995-2009



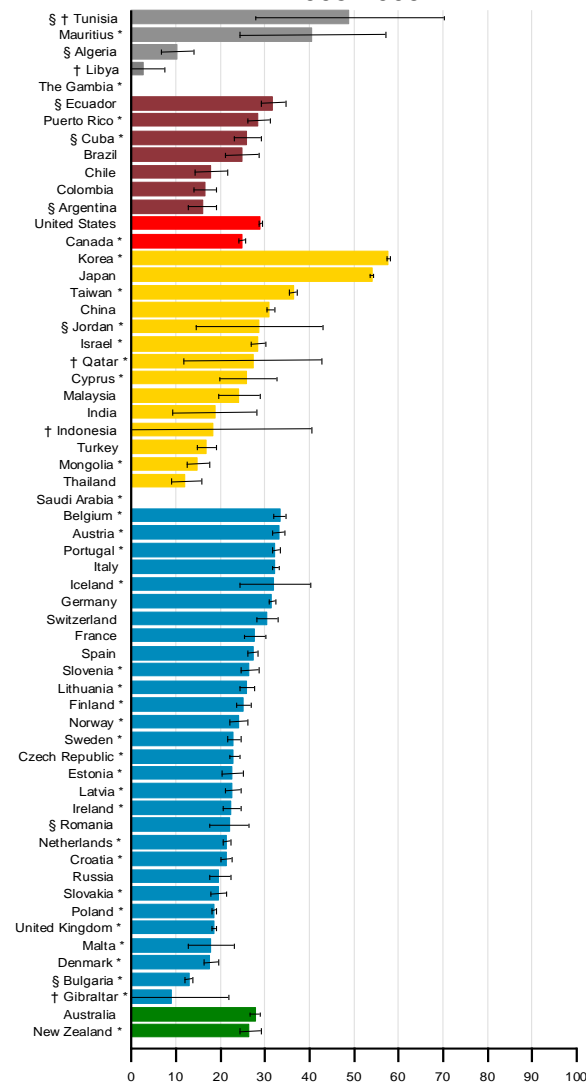
1995-1999



2000-2004



2005-2009



Objective

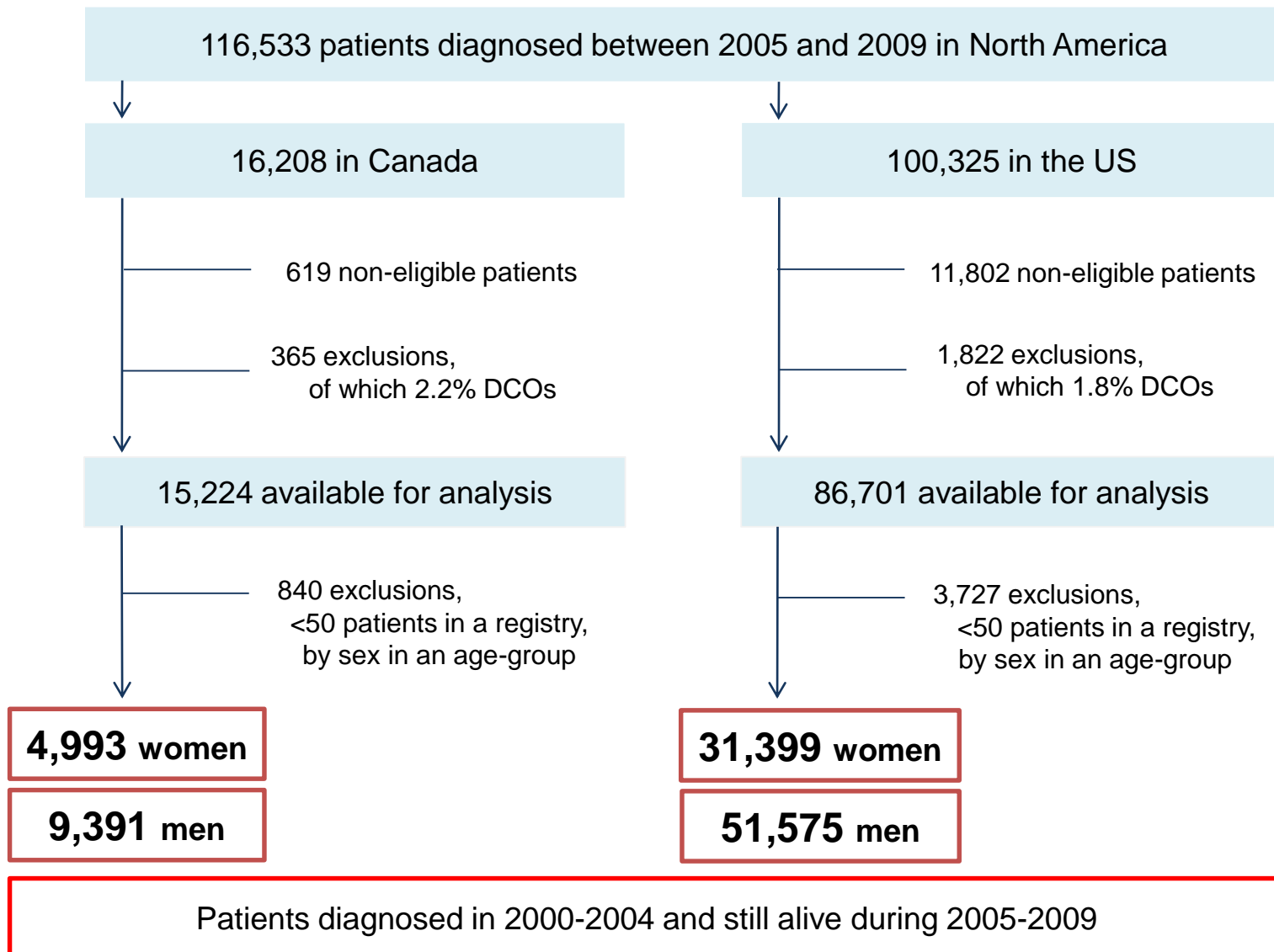
- To describe the geographic distribution of five-year net survival by age and sex
 - Canada and the US
 - Adults diagnosed with stomach cancer during 2005-09

- **Stomach cancer patients**
 - **43** population-based cancer registries
 - Canada: 9 of 13 provinces
 - USA: 34 of 51 states
 - ICD-O-3 topography codes: **C16.0–C16.9**
 - Follow up: vital status at **31 December 2009**

Survival analysis

- Period approach to estimate age- and sex-specific net survival at five years
 - *stns* (STATA v13.0)
- Background mortality
 - Canada: single-year-of-age life tables by sex, province, calendar year
 - US: single-year-of-age life tables by sex, state, calendar year and **race**
 - Exceptions: New Hampshire, Idaho, Rhode Island
- Sex differences in net survival
 - Z-test [$\alpha < 0.05$]

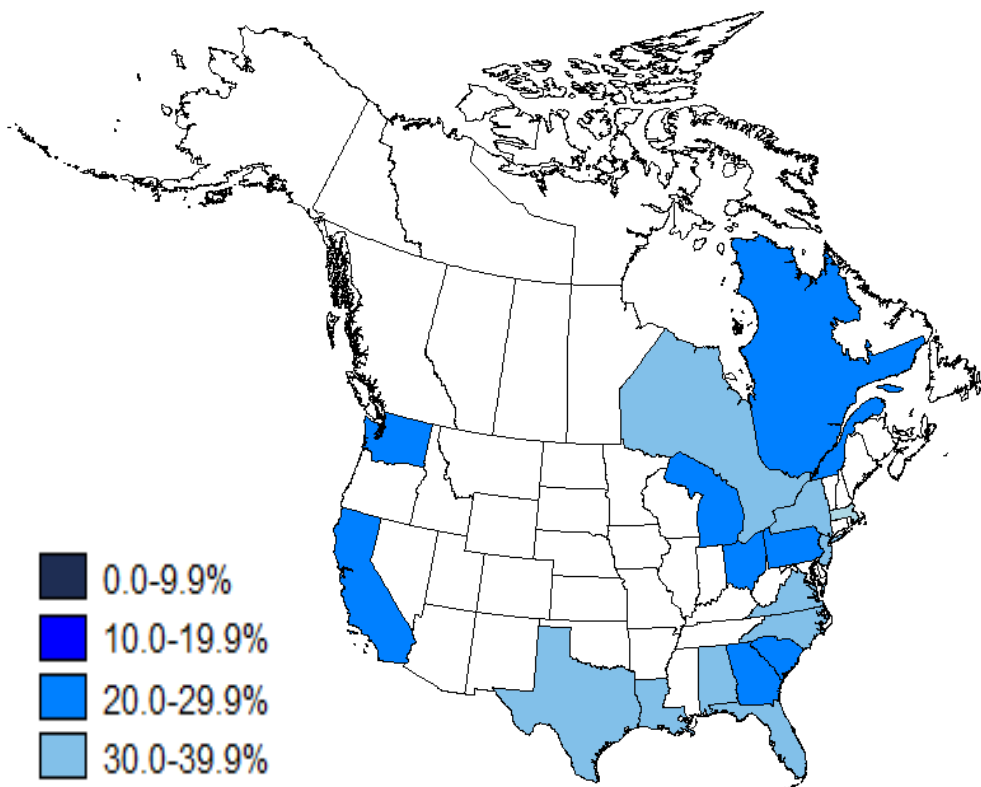
Results



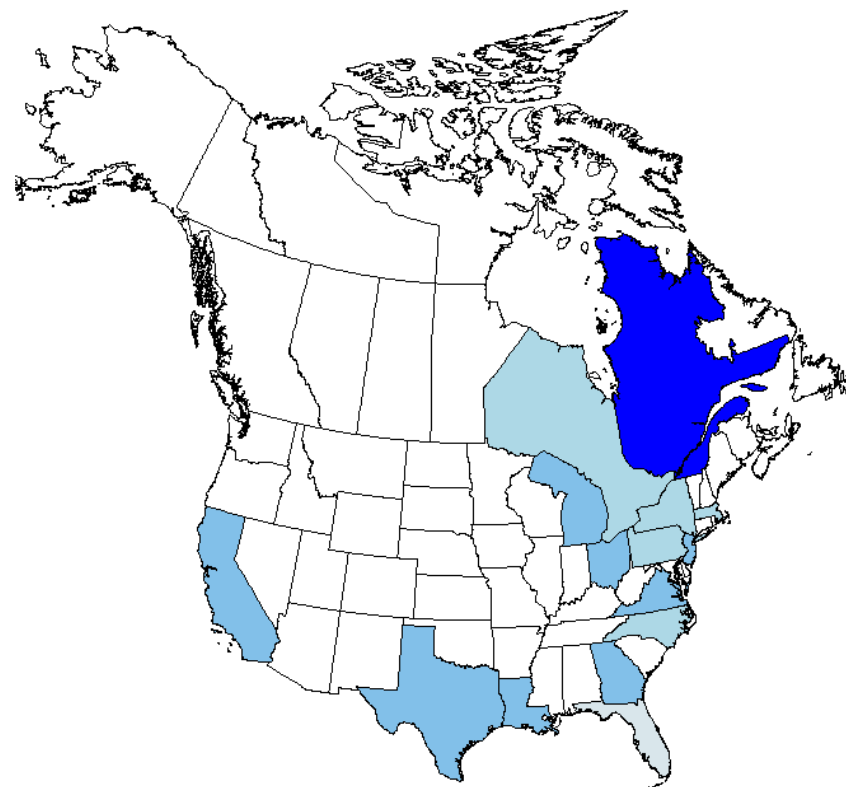
5-year net survival (%) by age and sex



Men: 15-44 years



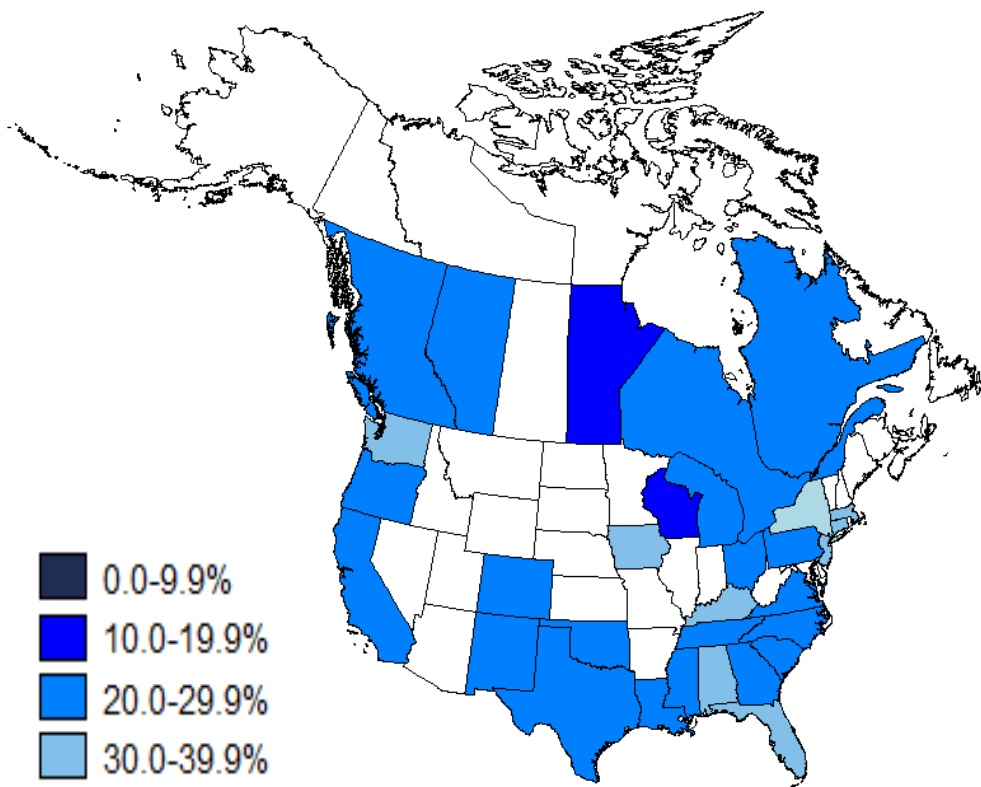
Women: 15-44 years



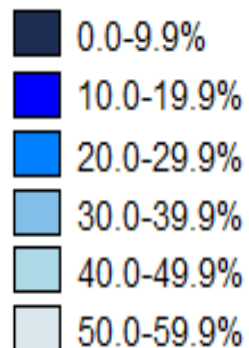
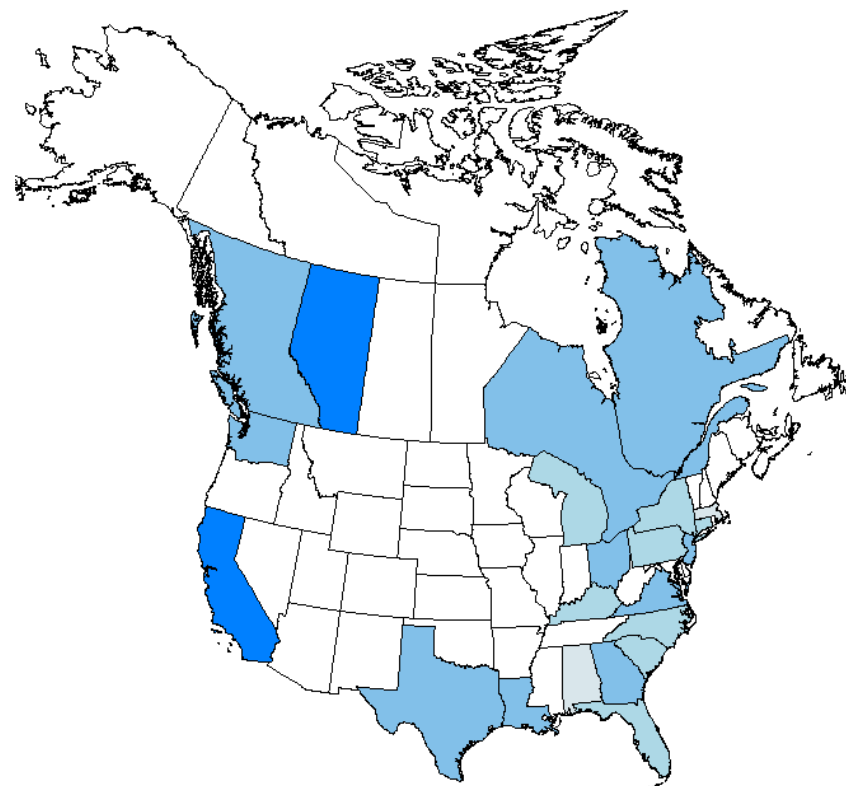
5-year net survival (%) by age and sex



Men: 45-54 years



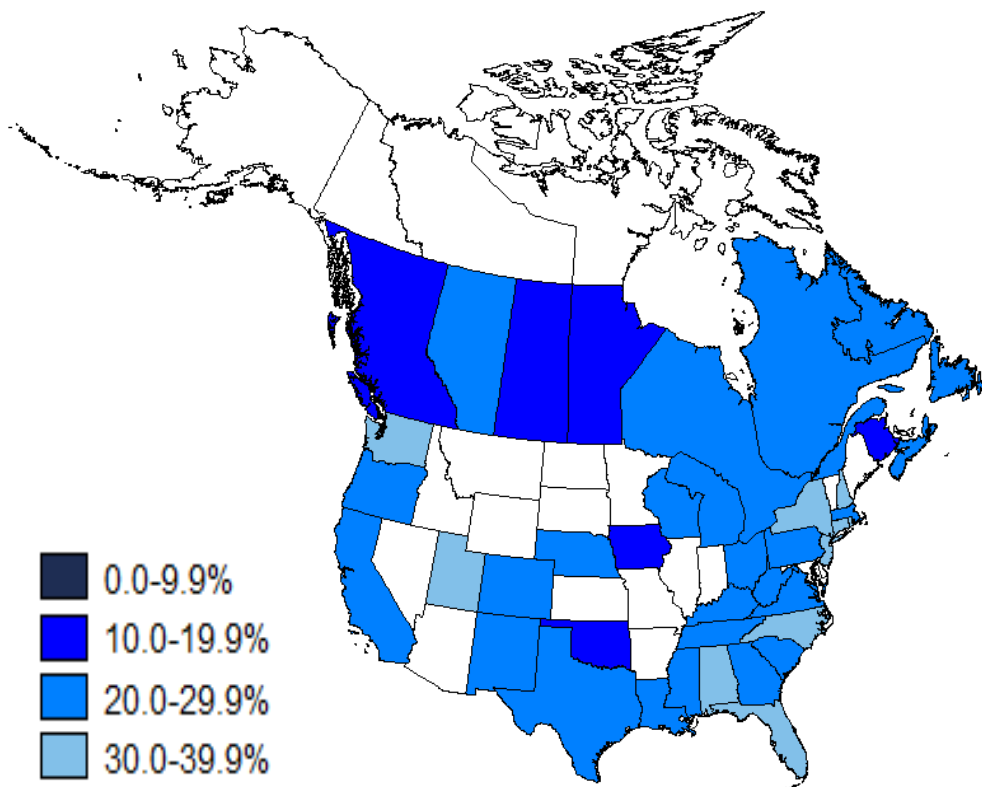
Women: 45-54 years



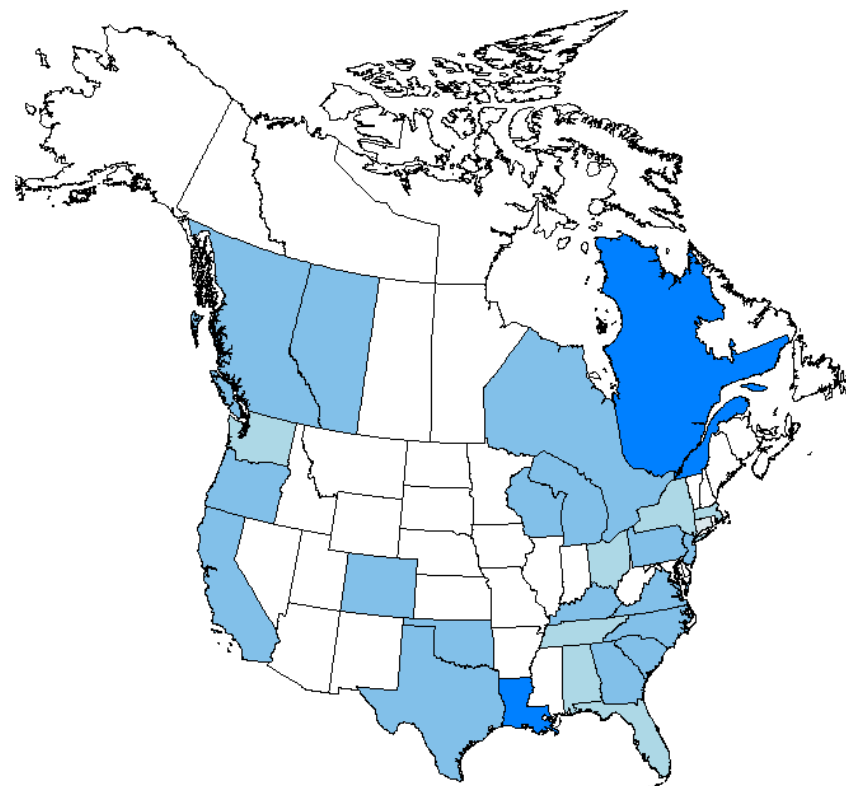
5-year net survival (%) by age and sex



Men: 55-64 years



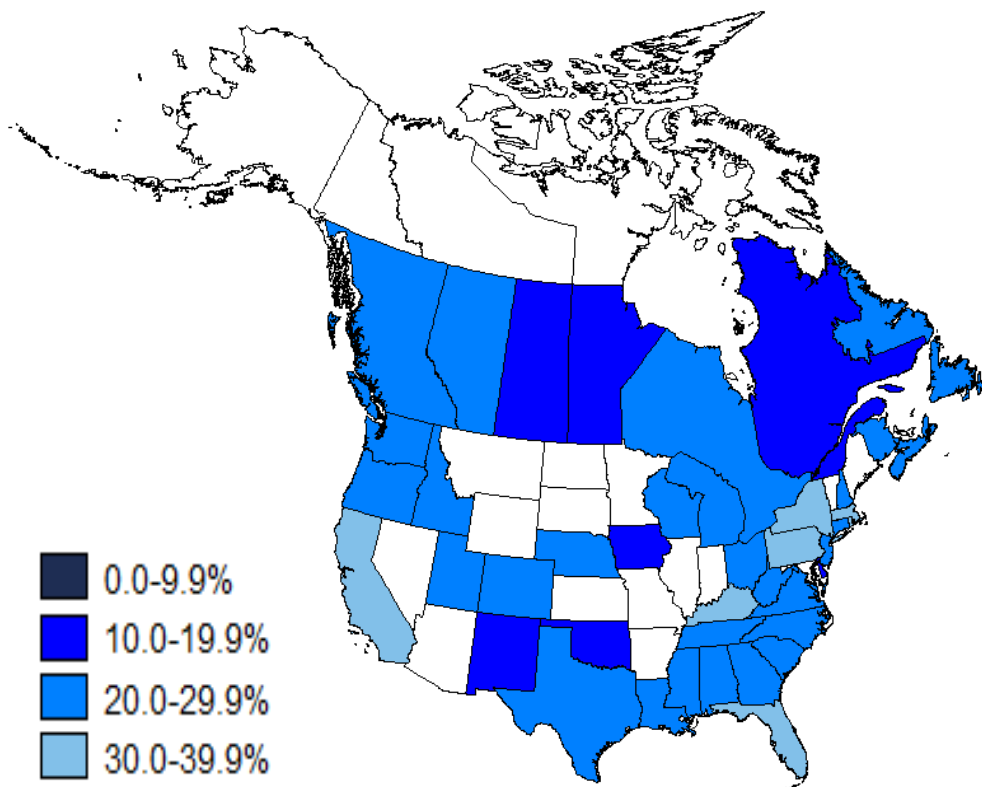
Women: 55-64 years



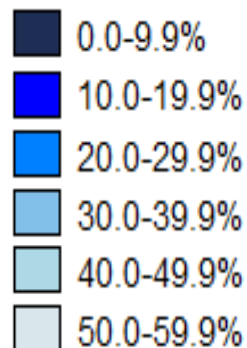
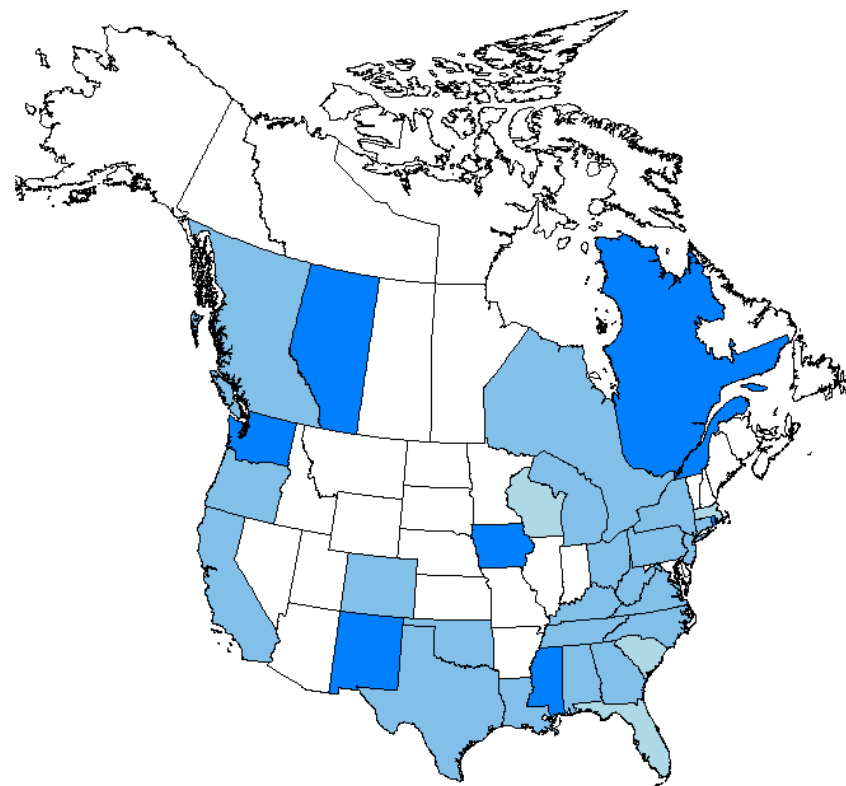
5-year net survival (%) by age and sex



Men: 65-74 years



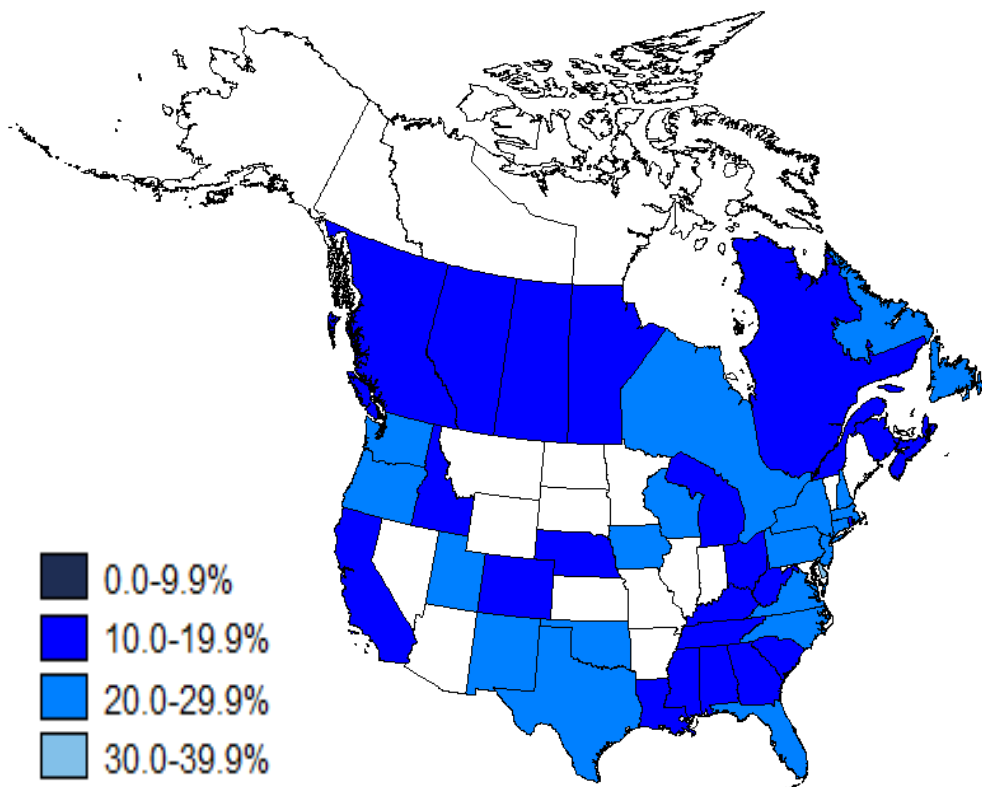
Women: 65-74 years



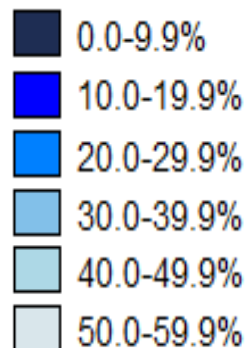
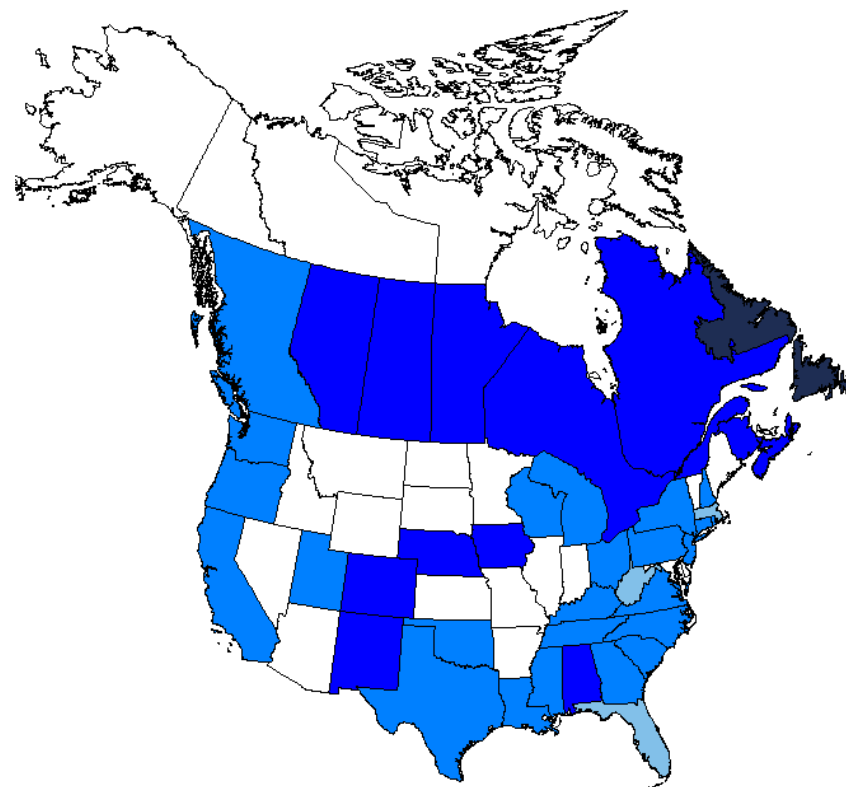
5-year net survival (%) by age and sex



Men: 75-99 years



Women: 75-99 years



Absolute difference (%) in net survival (women – men)



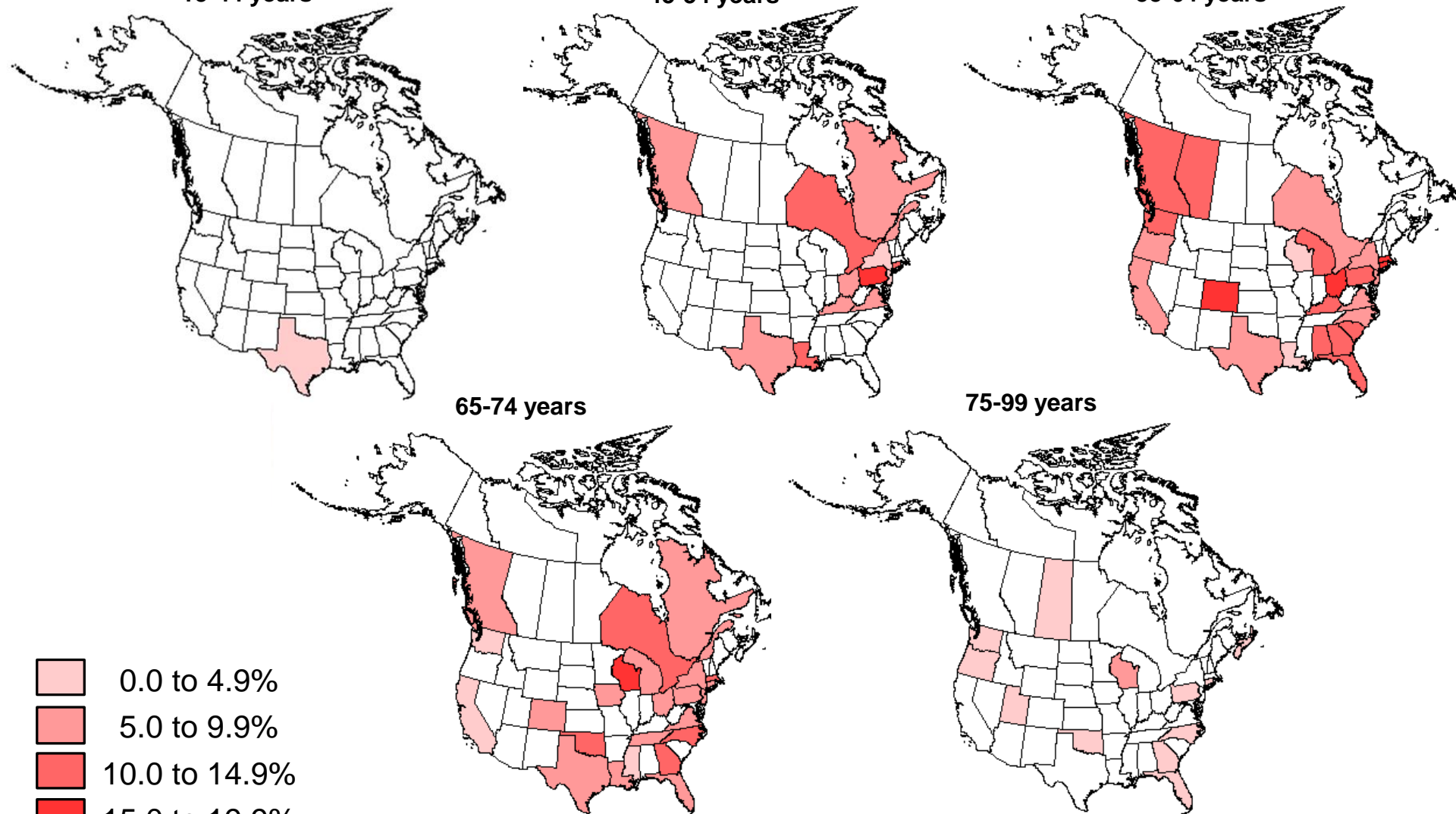
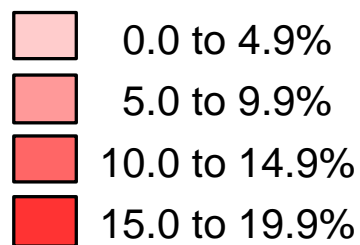
15-44 years

45-54 years

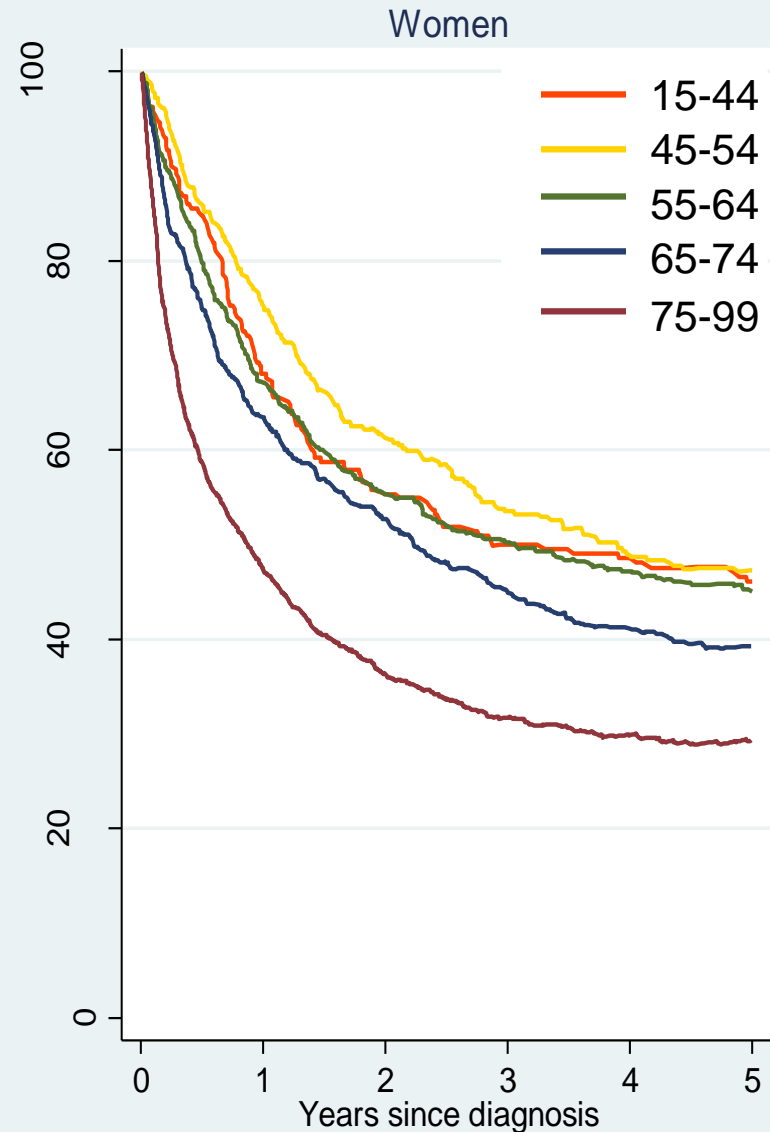
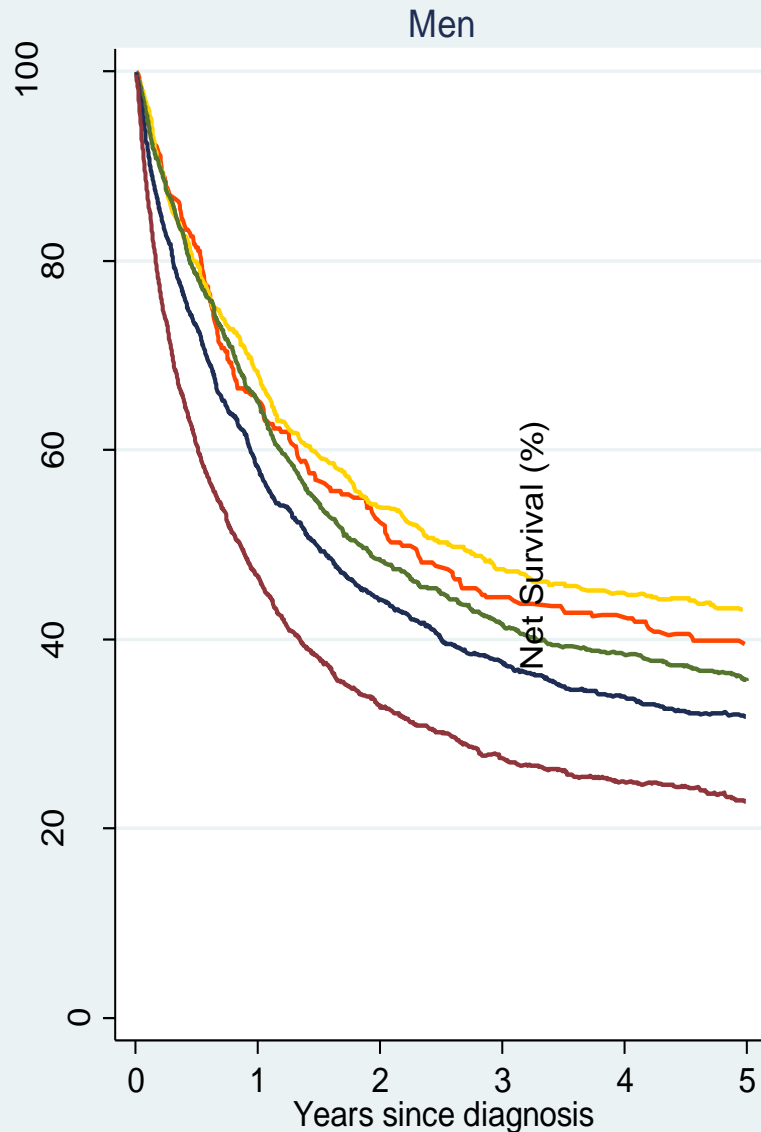
55-64 years

65-74 years

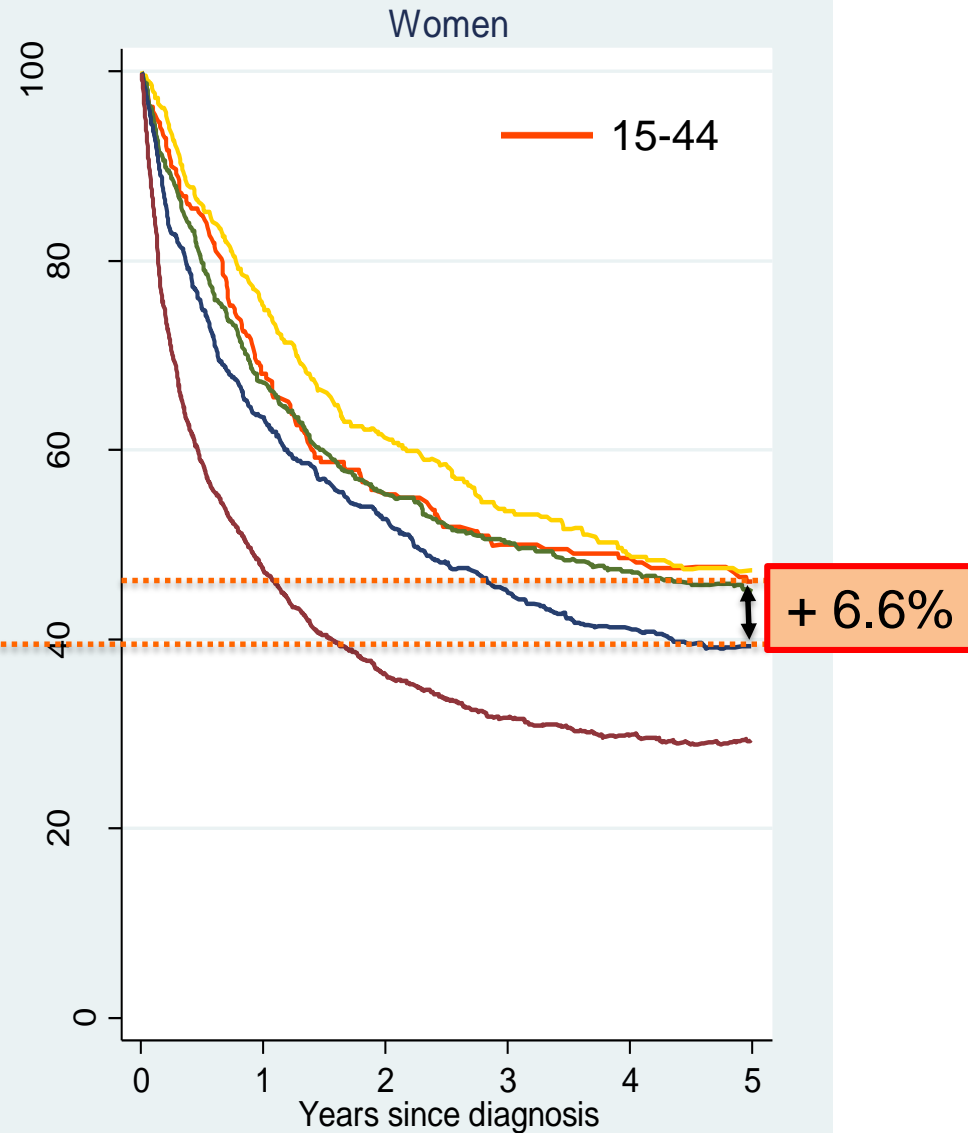
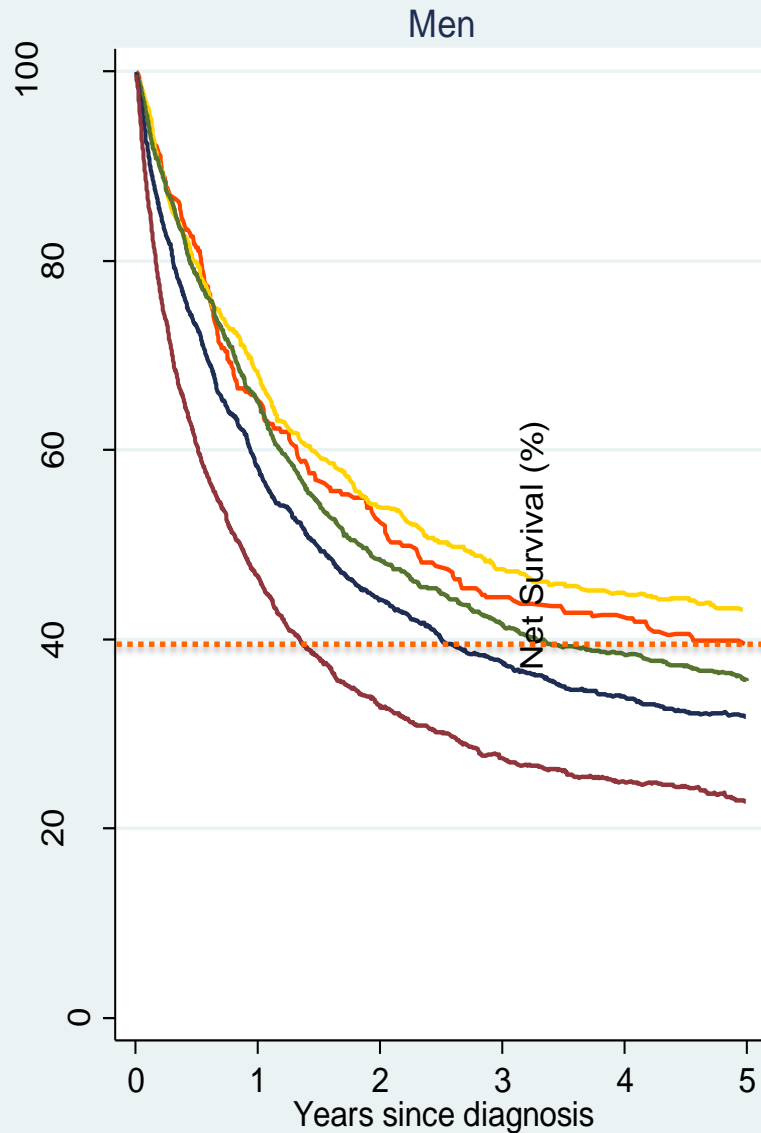
75-99 years



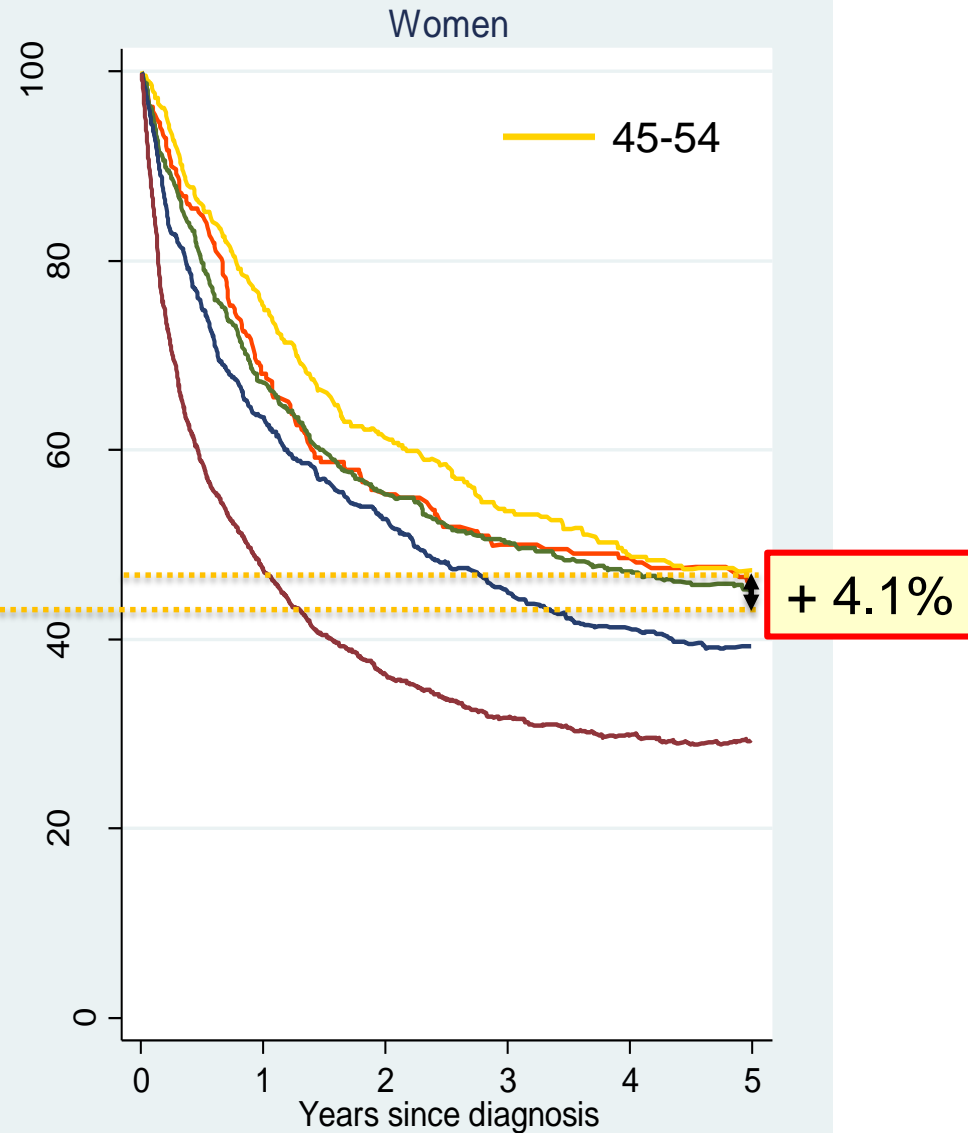
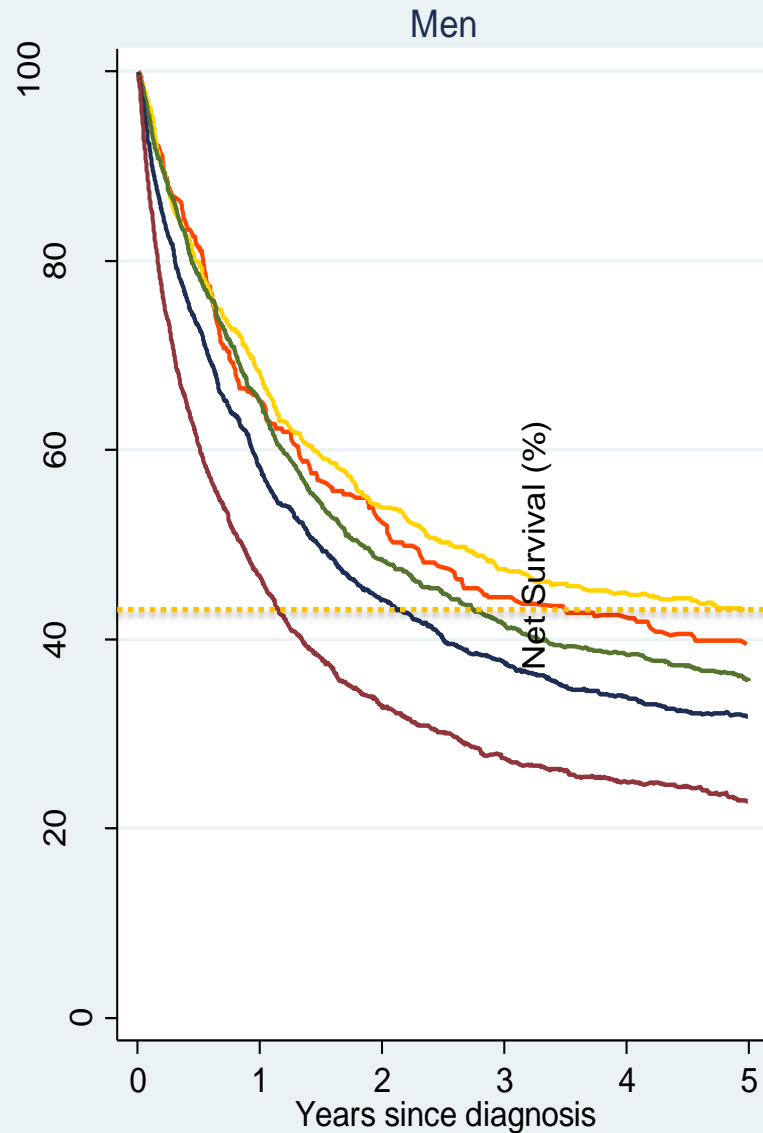
Survival by age and sex, New York State, 2005-2009



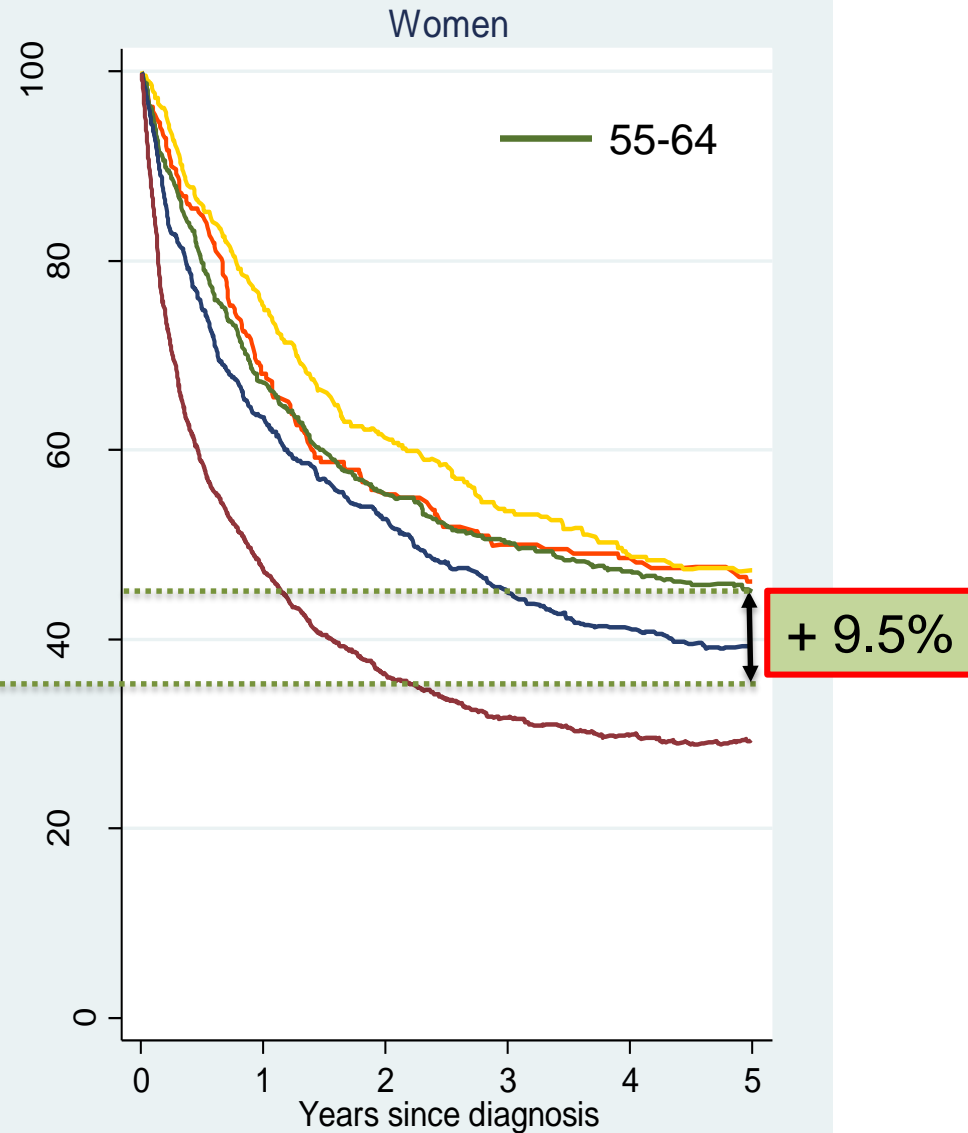
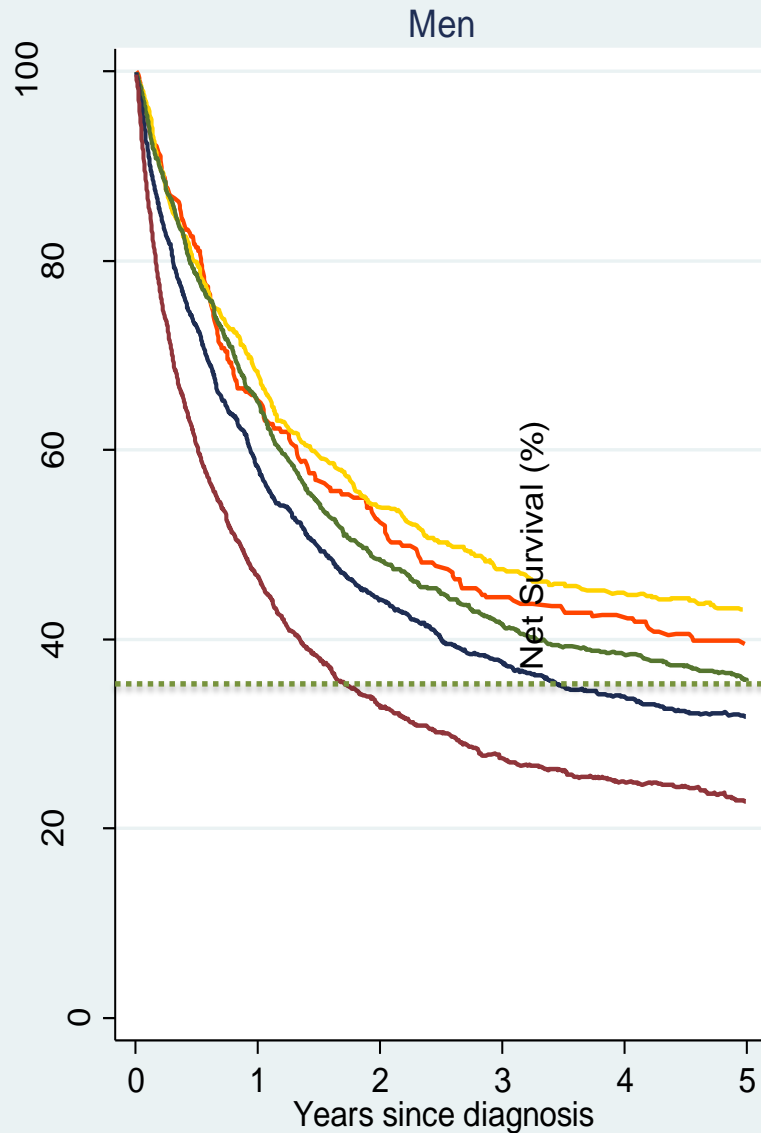
Age group 15-44



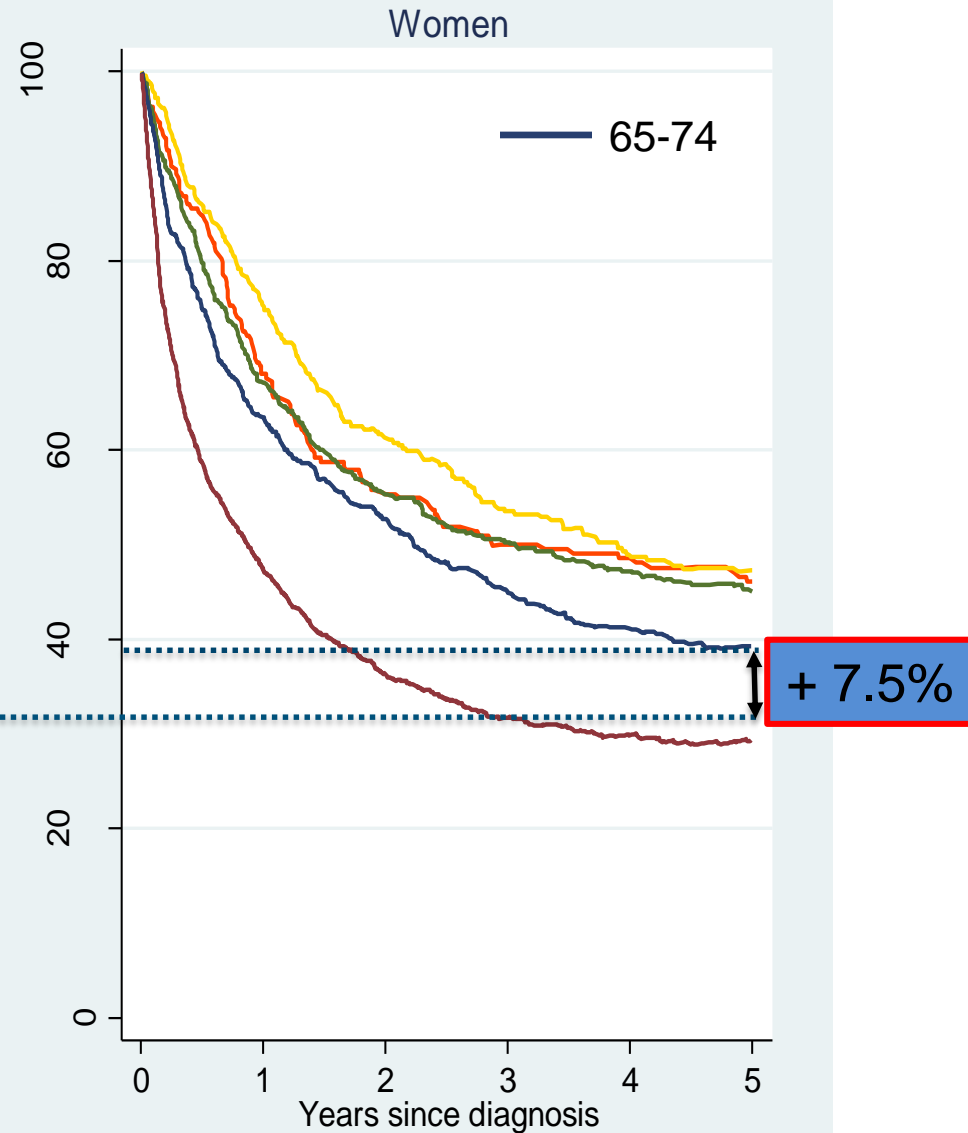
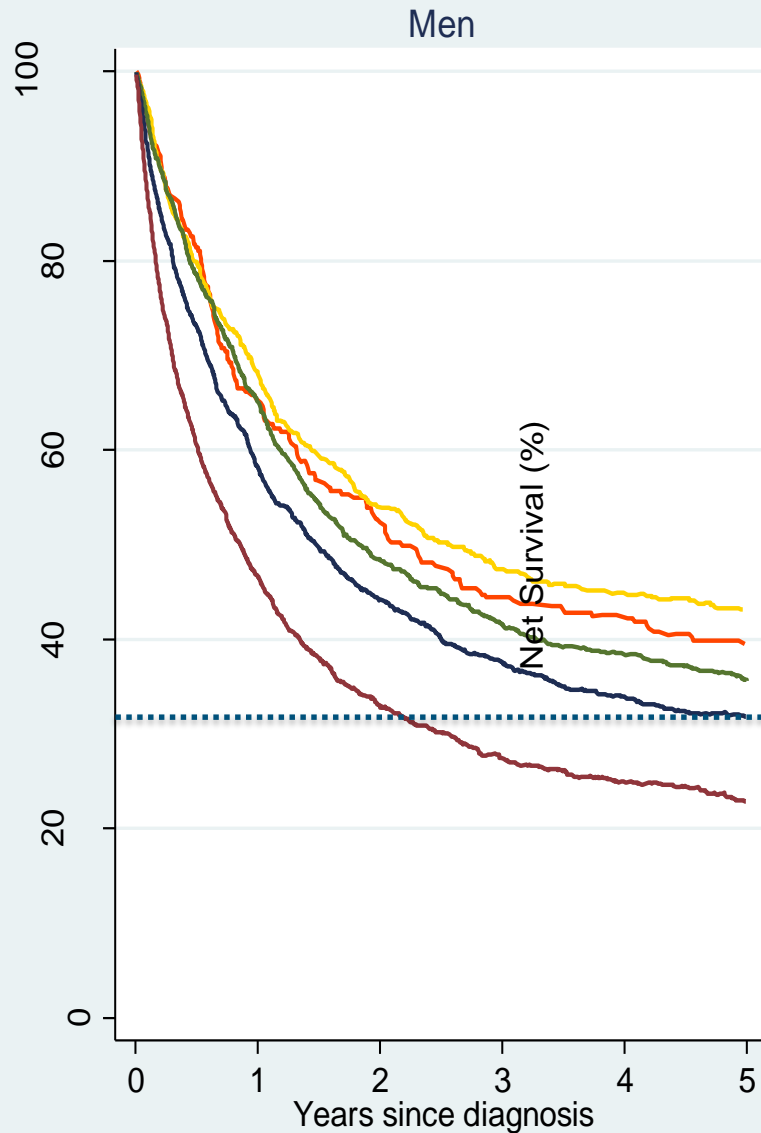
Age group 45-54



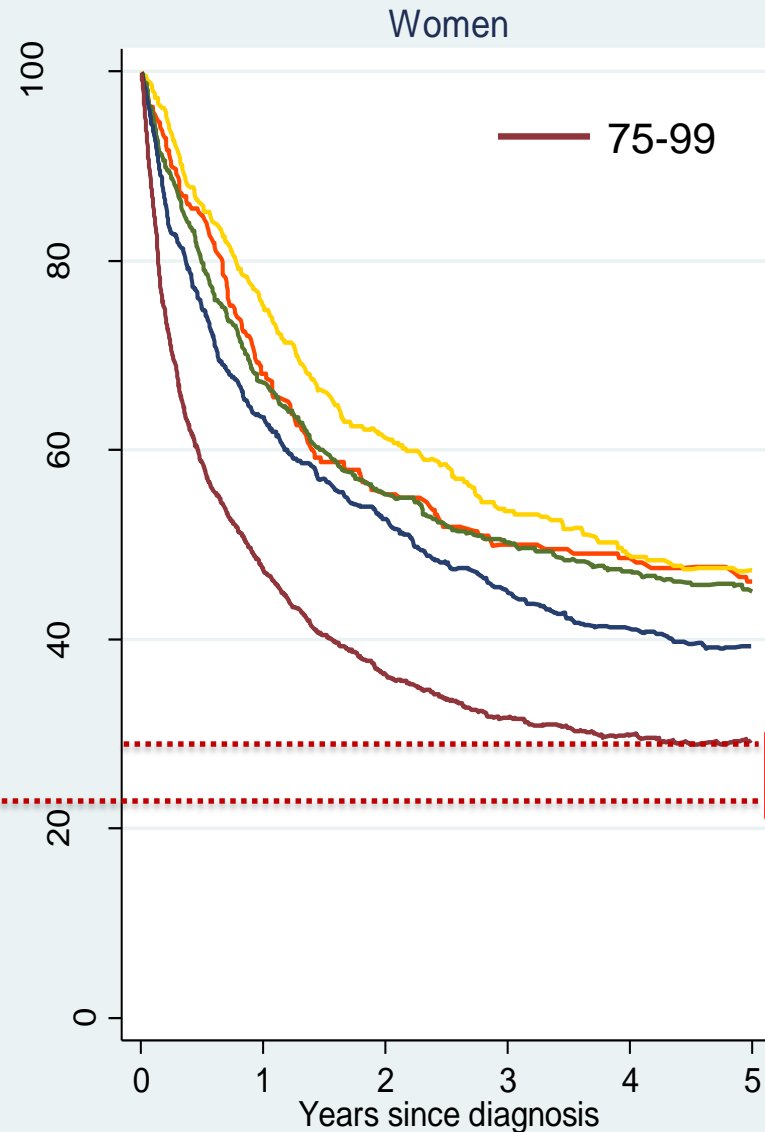
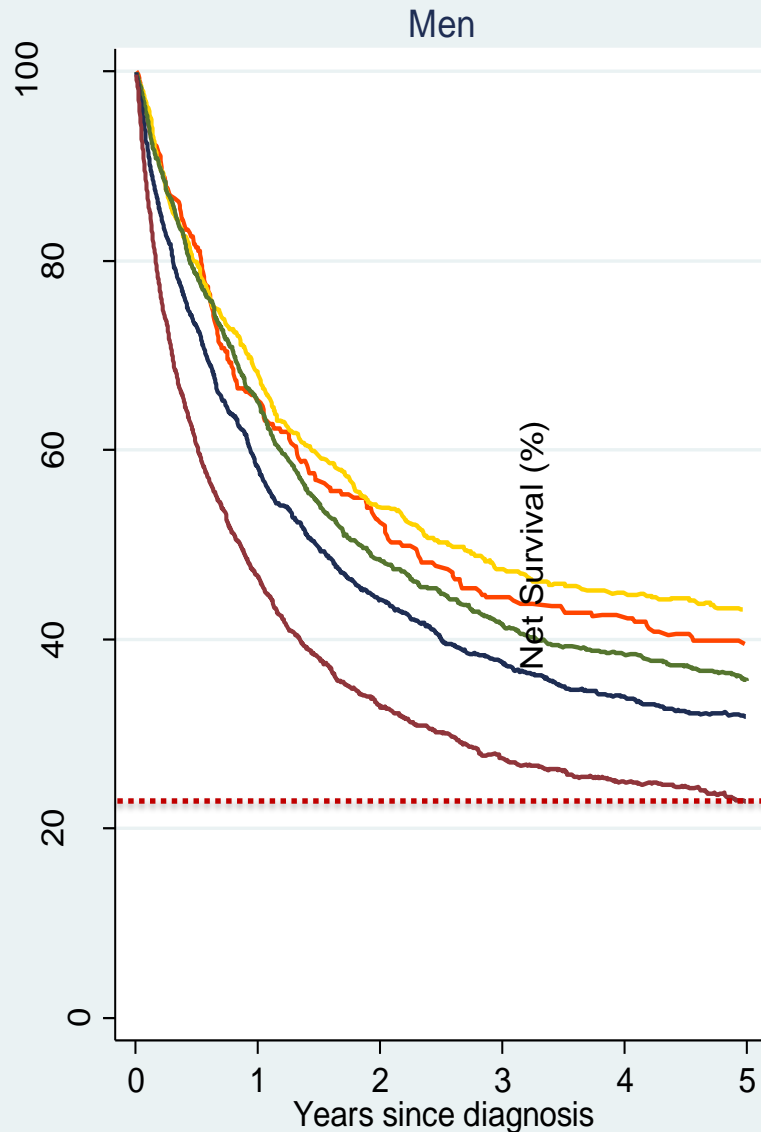
Age group 55-64



Age group 65-74



Age group 75-99



+ 6.4%

Conclusions

- **Wide geographic variability in stomach cancer survival within North America**
- **In each age group, men have lower survival from stomach cancer than women**

Conclusions

- **Wide geographic variability in stomach cancer survival within North America**
- **In each age group, men have lower survival from stomach cancer than women**

Possible explanations

Biological differences

Sub-site

Morphologic type

Stage at diagnosis

Treatment

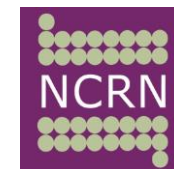


Thank you to:

- **All the participating cancer registries**
- **CONCORD Steering Committee**
- **Funding agencies**
- **Cancer Survival Group (LSHTM)**



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Setting the Agenda in Women's Health

