

Dr. Monika Hackl
Mag. Alexander Hanika
Petra Ihle, BA
Johannes Klotz Ph.D.
Statistics Austria

ENCR 2018

Prediction of cancer prevalence in Austria up to the year 2030



Background & Introduction

Cancer prevalence

- Number of persons or proportion of a population
 - who have been diagnosed in a defined intervall
 - who are alive on a certain date

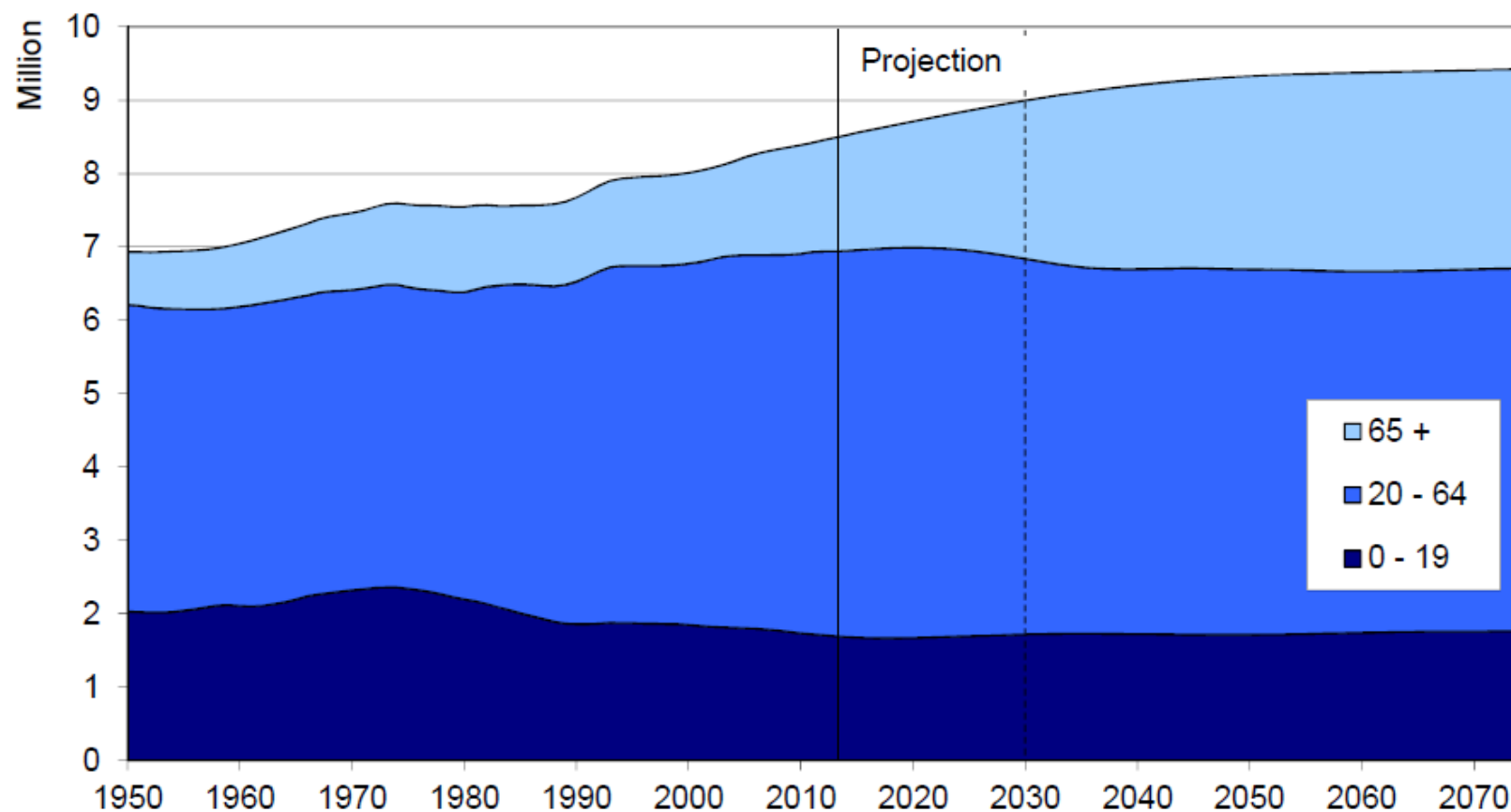
Prediction of cancer prevalence

- For optimal allocation of resources required for prevention, diagnosis and therapy



Background & Introduction

POPULATION BY MAJOR AGE GROUPS (MAIN SCENARIO)

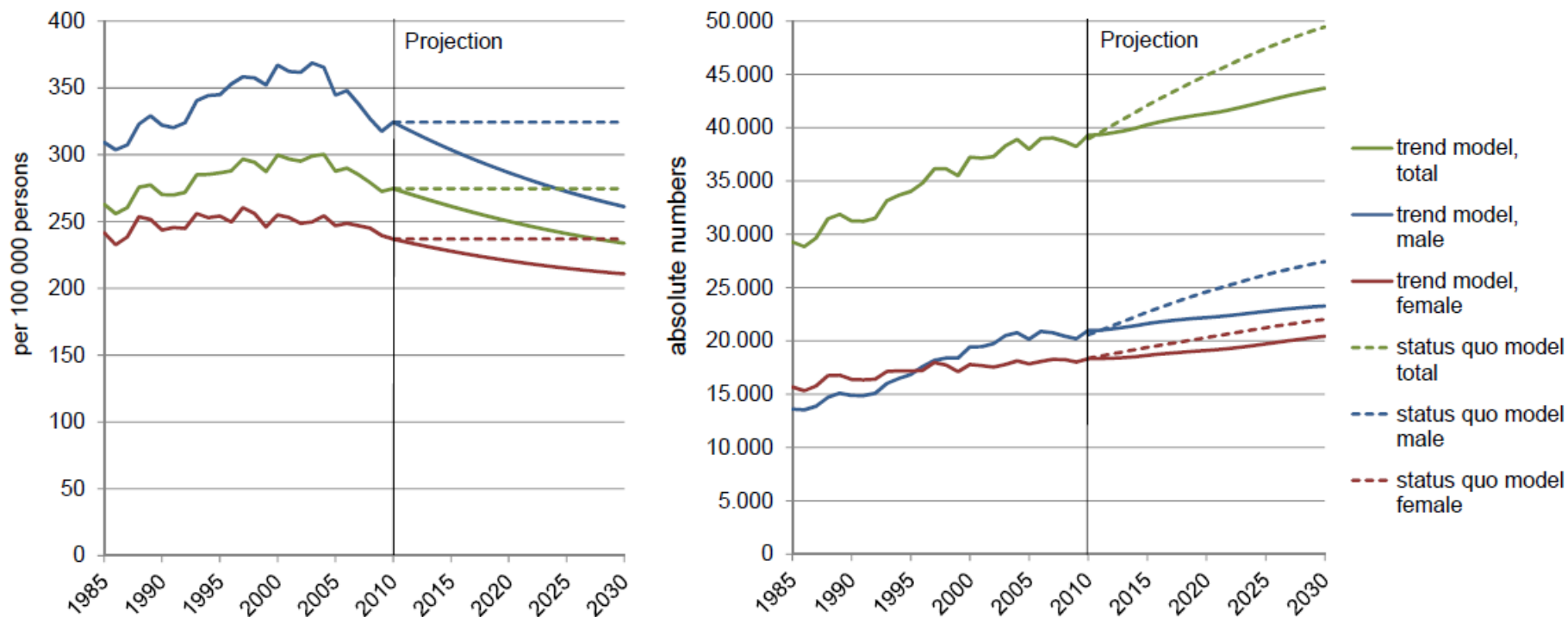


S: Hanika A, (2013), Zukünftige Bevölkerungsentwicklung Österreichs und der Bundesländer 2013 bis 2060 (2075),
Erstmalig mit Differenzierung nach dem Geburtsland. Statistische Nachrichten 11/2013: 1005-1024, Statistik Austria



Background & Introduction

INCIDENCE, AGE-ADJUSTED RATES AND ABSOLUTE NUMBERS OF ALL CANCERS COMBINED

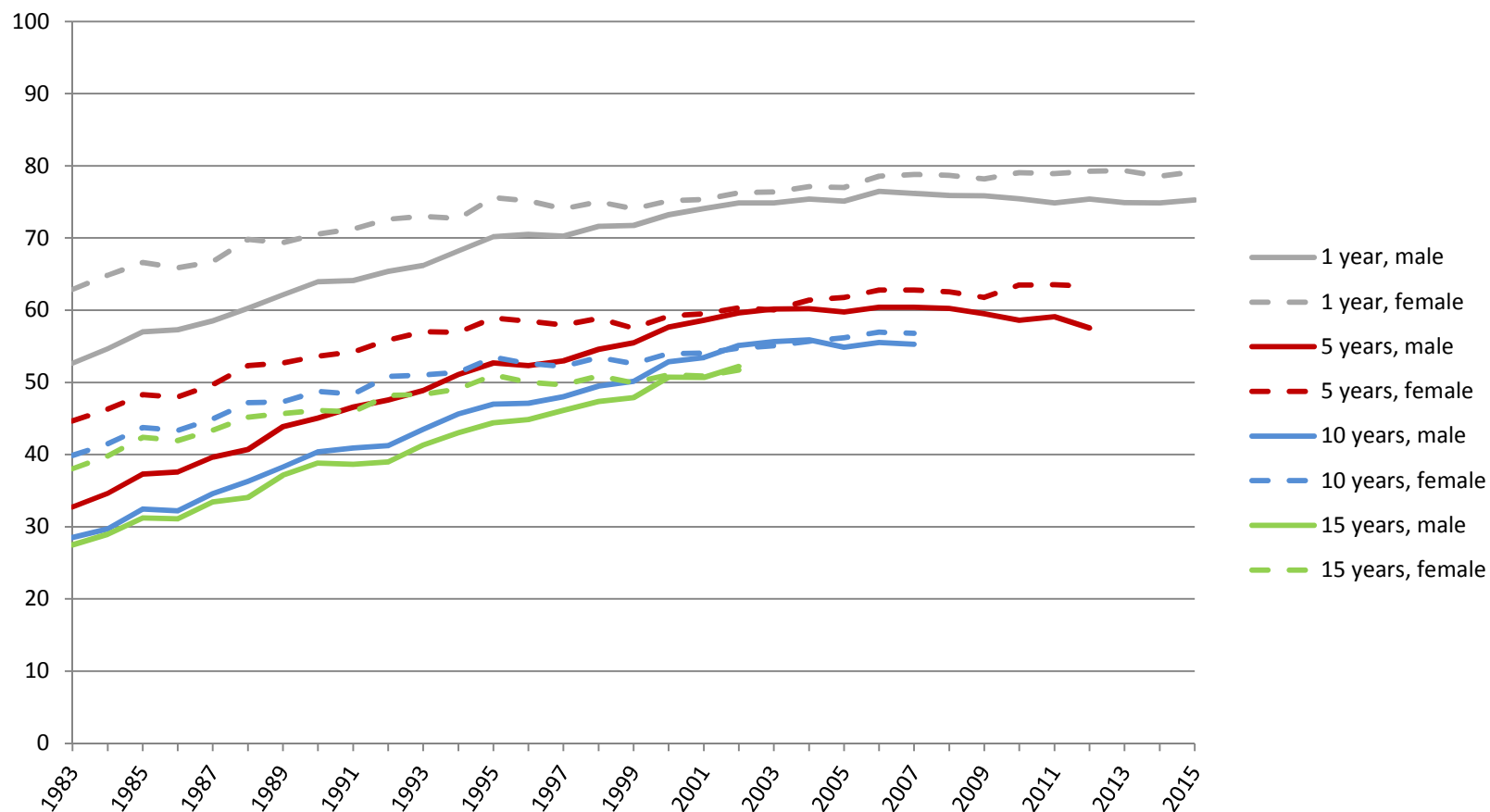


S: Hackl M, Hanika A, Klotz J, Leitner B, Zielonke N. Trends der Entwicklung von Krebserkrankungen in Österreich – Eine Prognose bis 2030. Wien: Bundesministerium für Gesundheit, 2014.



Background & Introduction

Relative Survival 1983-2015



S: Statistics Austria, Austrian National Cancer Registry (as at 06.12.2017).



Material & Methods

Data from the Austrian National Cancer Registry

- Query date: 15th November 2016
- All people resp. for analysis per tumorsite all tumors,
 - diagnosed in and after 1983 and
 - alive on 31st December 2014

Data from the Population Registry

- Entire Austrian population
- Query date: 31st December 2014



Material & Methods

Method

- Cohort-component method
- Calibrated to official population projections 2016
- Prognosed cancer incidence for years 2015-2030

Procedure

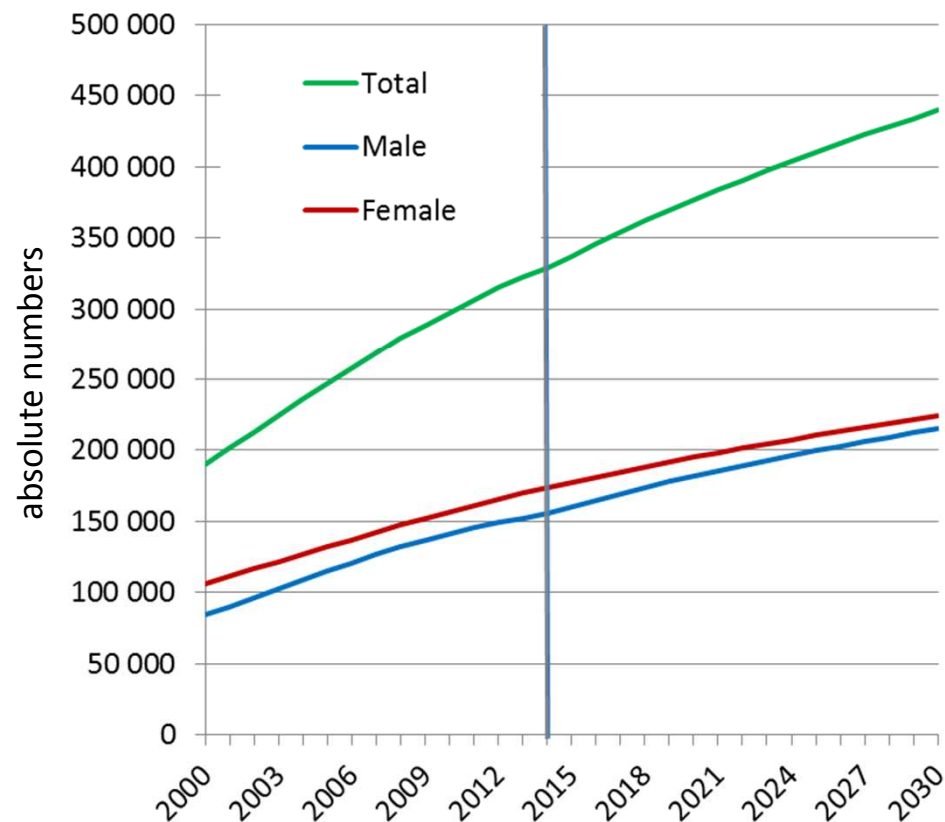
- People without tumor, people with exactly one tumore, people with two or more tumors
- For 16 groups of cancer sites



Results

Total number of persons diagnosed with cancer

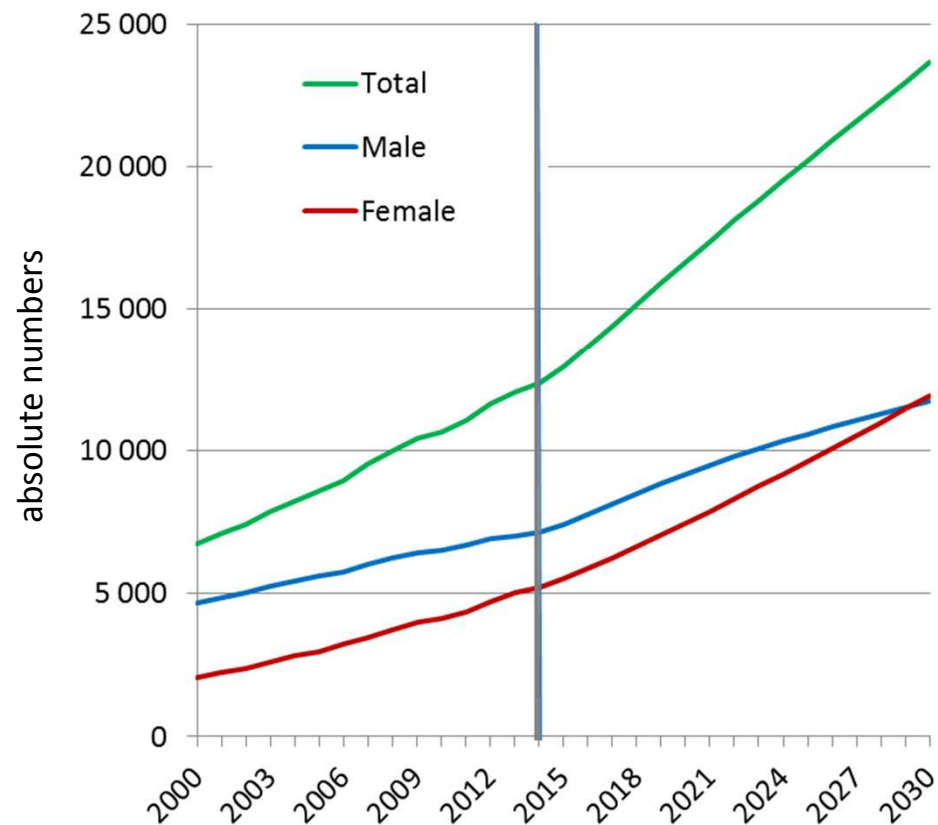
Total Cancer Prevalence in Austria
by sex 2000 to 2030





Lung (C33-C34)

**Cancer Prevalence in Austria
by sex 2000 to 2030**

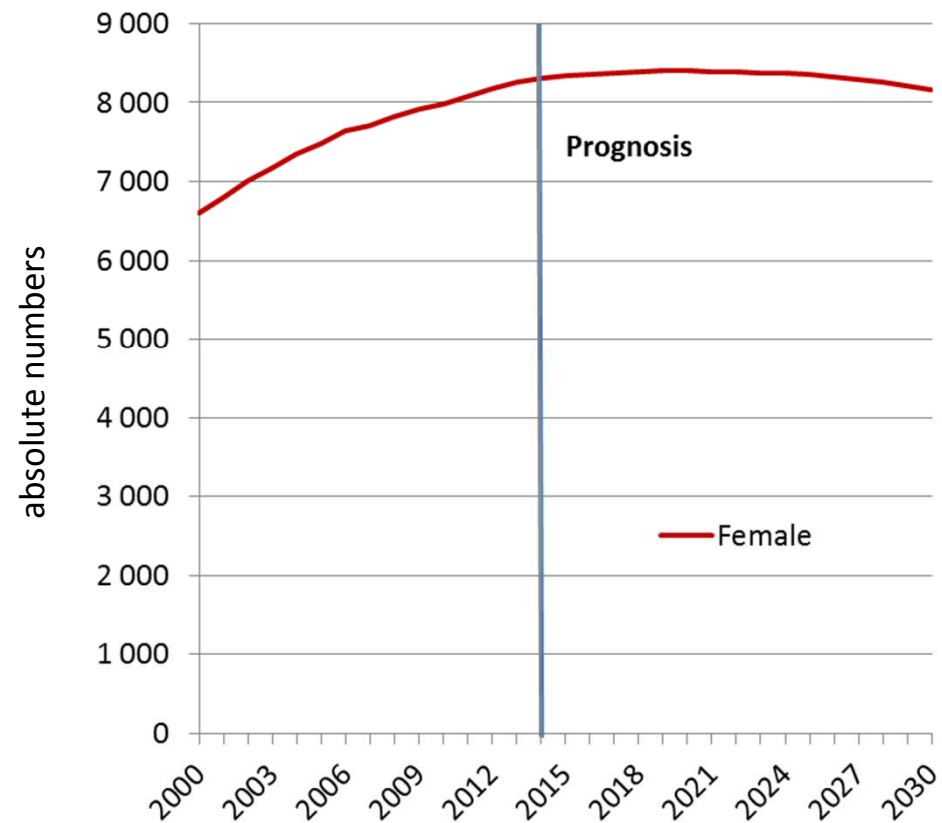




Results

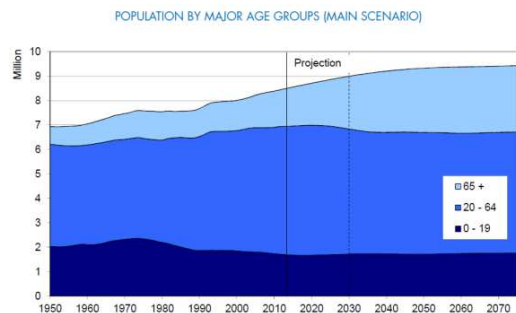
Cervix uteri (C53)

Cancer Prevalence in Austria
by sex 2000 to 2030



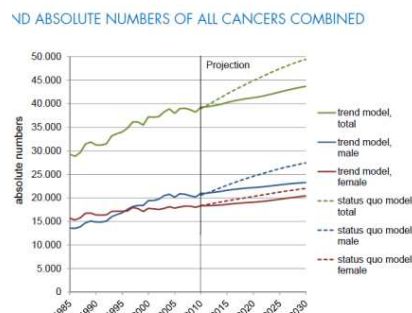


Conclusion

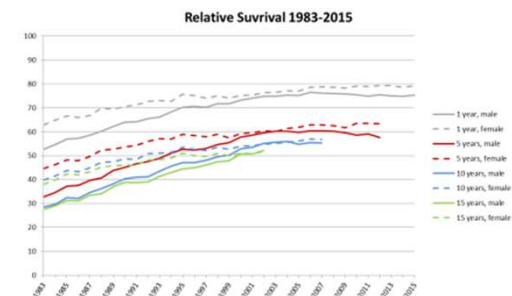


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demographic
ageing



individual
cancer risk



survival
probabilities



From a health policy point of view, the interaction of these factors shows the importance of preventive measures.

Questions to:
Dr. Monika Hackl

Contact:
Guglgasse 13, 1110 Wien
Tel: +43 (1) 71128-7355
Fax: +43 (1) 71128-7445
Monika.Hackl@statistik.gv.at

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