

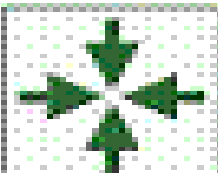
**XXXIII Congresso dell'Associazione Italiana di Epidemiologia**  
***Fare epidemiologia nella clinica, nella prevenzione e nell'organizzazione  
sanitaria***

***Le reti italiane di epidemiologia si incontrano***  
**22-24 Ottobre 2009**

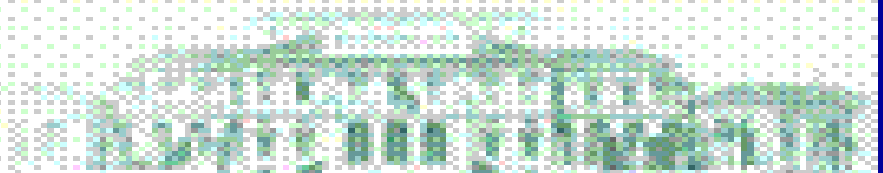
# **Il progetto Eurocare: un esempio di rete epidemiologica internazionale**

**Milena Sant**

***Unità di Epidemiologia analitica, Dipartimento di medicina predittiva e per la  
prevenzione, Istituto Nazionale Tumori, Milano***



**FONDAZIONE IRCCS  
ISTITUTO NAZIONALE  
DEI TUMORI**





## **EUROCARE NETWORK**

**93 population based registries in 23 countries  
4 monographs, >1,000 citations, >100 papers**

### **OUTCOMES:**

**National cancer plans, National studies,  
EUROPREVAL, HAEMACARE, RARECARE, CONCORD**

**Financial support from **Compagnia di San Paolo di Torino**  
and **Alleanza Contro il Cancro****

# EUROCARE-4 Monograph in EJC 2009



- **Comparative cancer survival information in Europe.** *F Berrino, A Verdecchia, JM Lutz, C Lombardo, A Micheli, R Capocaccia*
- **The EUROCARE-4 database on cancer survival in Europe: data standardization, quality control, and methods of statistical analysis.** *R De Angelis, S Francisci, P Baili, F Marchesi, P Roazzi, A Belot, E Crocetti, P Pury, A Knijn, M Coleman, R Capocaccia and the EUROCARE-4 Working Group*
- **EUROCARE-4. Survival of cancer patients diagnosed in 1995-1999. Results and commentary.** *M Sant, C Allemani, M Santaquilani, A Knijn, F Marchesi, R Capocaccia and the EUROCARE-4 WG*
- **Survival of European children and young adults with cancer diagnosed 1995-2002.** *G Gatta, G Zigon, R Capocaccia, JW Coebergh, E Desandes, P Kaatsch, G Pastore, R Peris-Bonet, CA. Stiller and the EUROCARE-4 WG.*
- **The cancer survival gap between elderly and middle aged patients.** *A Quaglia, A Tavilla, LShack, H Brenner, M Janssen-Heijnen, C Allemani, M Colonna, E Grande, P Grosclaude, M Vercelli and the EUROCARE-4 WG.*

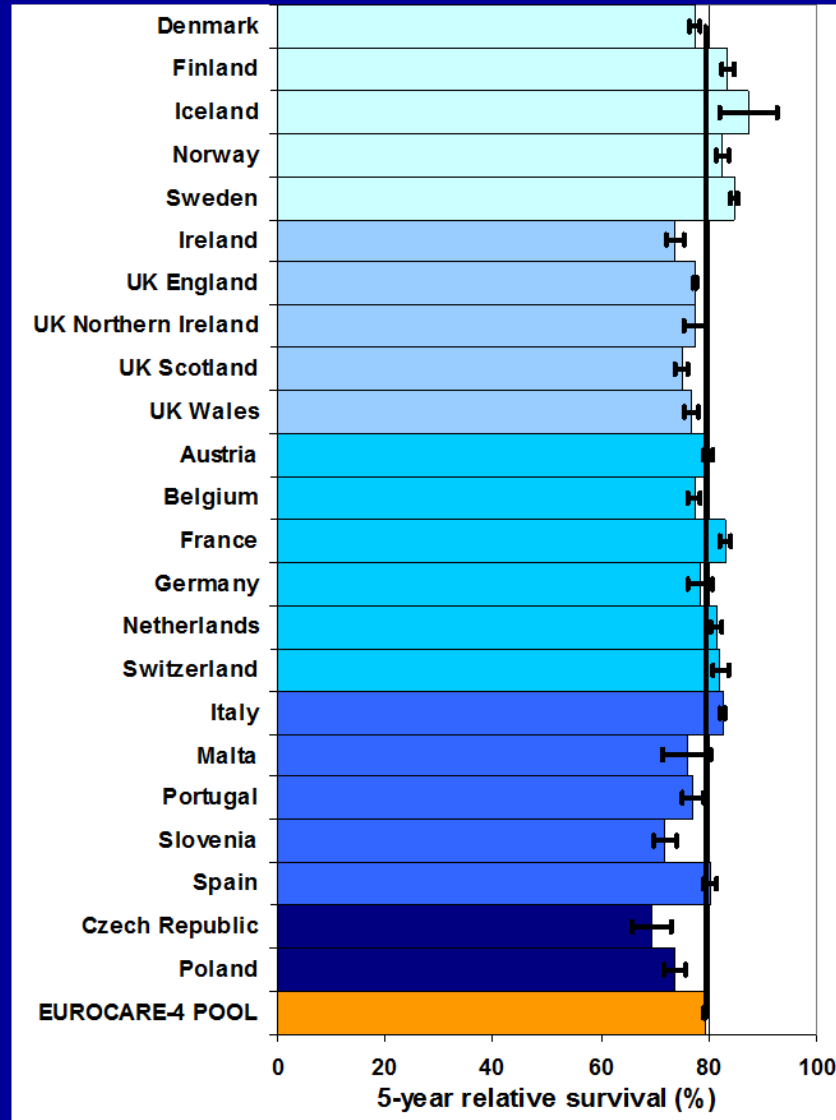
# EUROCARE-4 Monograph in EJC 2009



- **The advantage of women in cancer survival: an analysis of EUROCARE-4 data.** A Micheli, R Ciampichini, W Oberaigner, L Ciccolallo, E de Vries, I Izarzugaza, P Zambon, G Gatta, R De Angelis and the EUROCARE-4 WG
- **Long-term survival expectations of cancer patients in Europe in 2000-2002.** H Brenner, S Francisci, R de Angelis, R Marcos Gragera, A Verdecchia, G Gatta, C Allemani, L Ciccolallo, M Coleman, M Sant and the EUROCARE-4 WG
- **Survival trends in European cancer patients diagnosed from 1988 to 1999.** A Verdecchia, S Guzzinati, S Francisci, R De Angelis, F Bray, C Allemani, A Tavilla, M Santaquilani, M Sant and the EUROCARE-4 WG
- **The cure of cancer: a European perspective.** S Francisci, R Capocaccia, E Grande, M Santaquilani, A Simonetti, C Allemani, G Gatta, M Sant, G Zigon, F Bray, Maryska, Janssen-Heijnen and the EUROCARE-4 WG
- **Multiple tumours in survival estimates.** S Rosso, R De Angelis, L Ciccolallo, E Carrani, I Soerjomataram, E Grande, G Zigon, H Brenner and the EUROCARE-4 WG

# EUROCARE-4

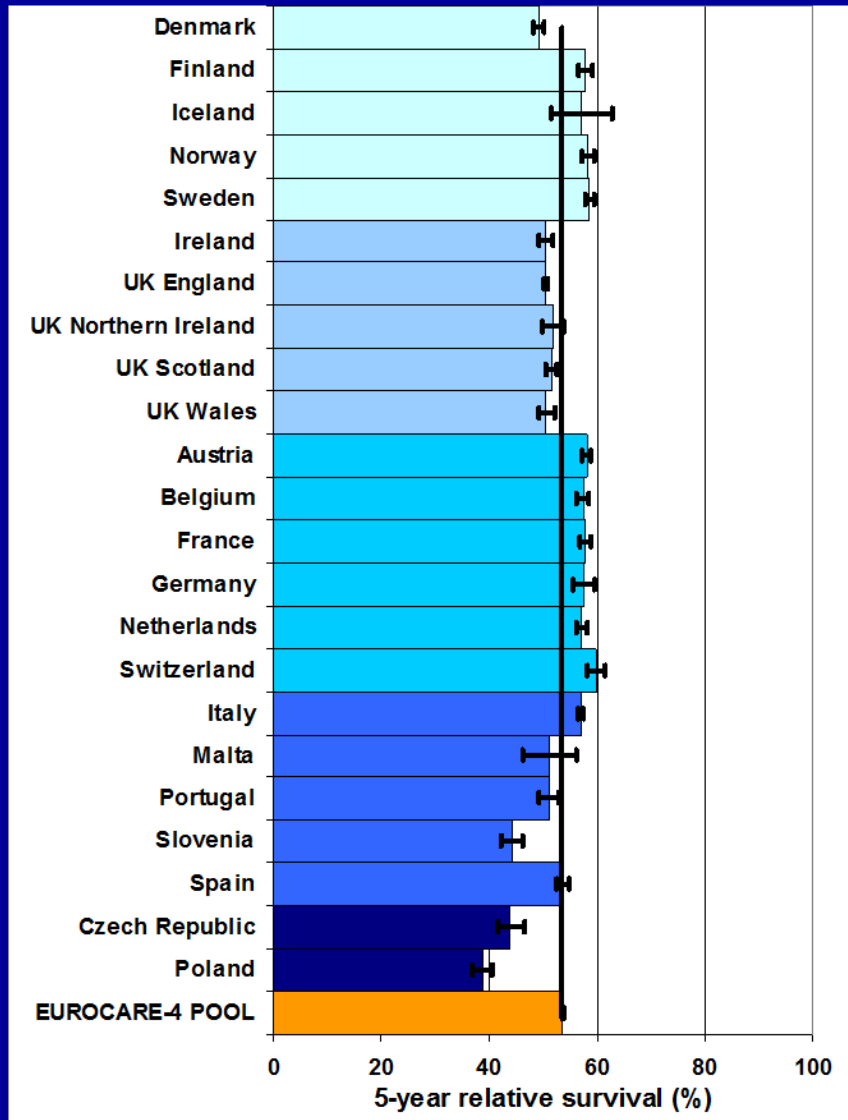
## Age-standardized 5-year relative survival by country for Female BREAST CANCER with mean European survival, 1995-1999



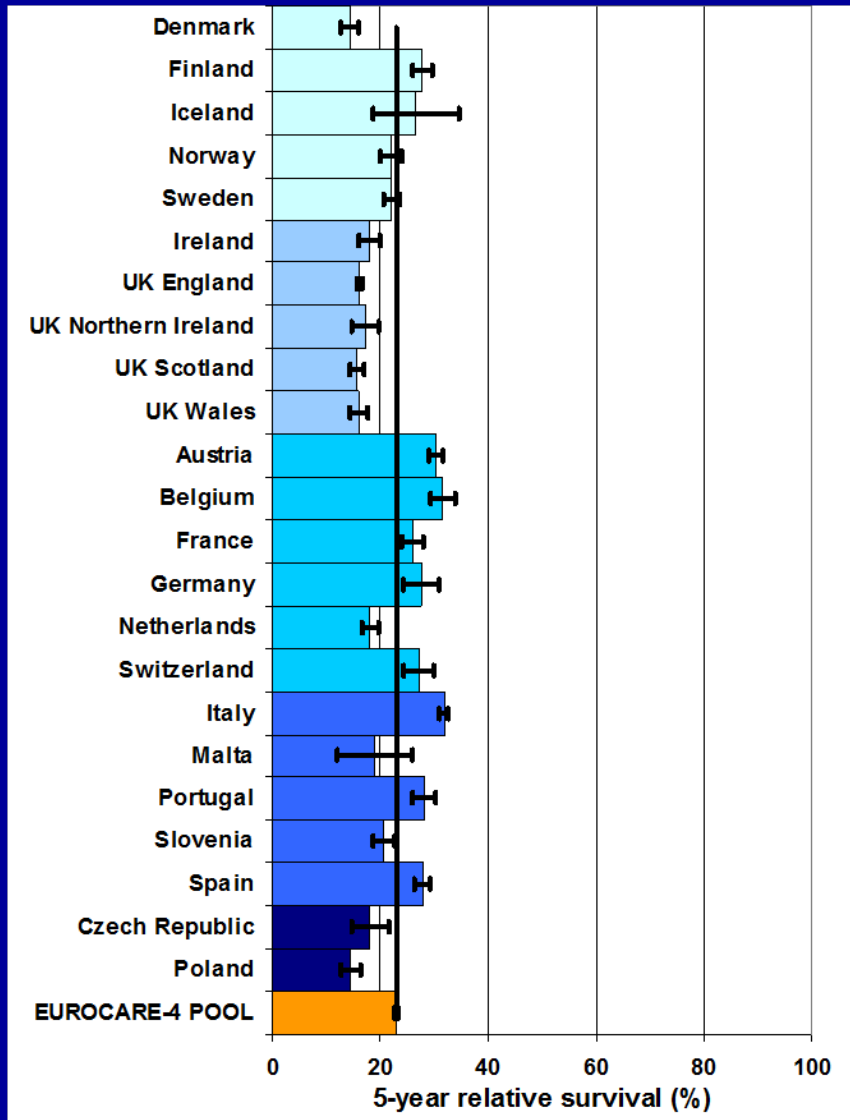
# EUROCARE-4

## Age standardized 5-year relative survival, by country (both sexes)

### Colon and Rectum

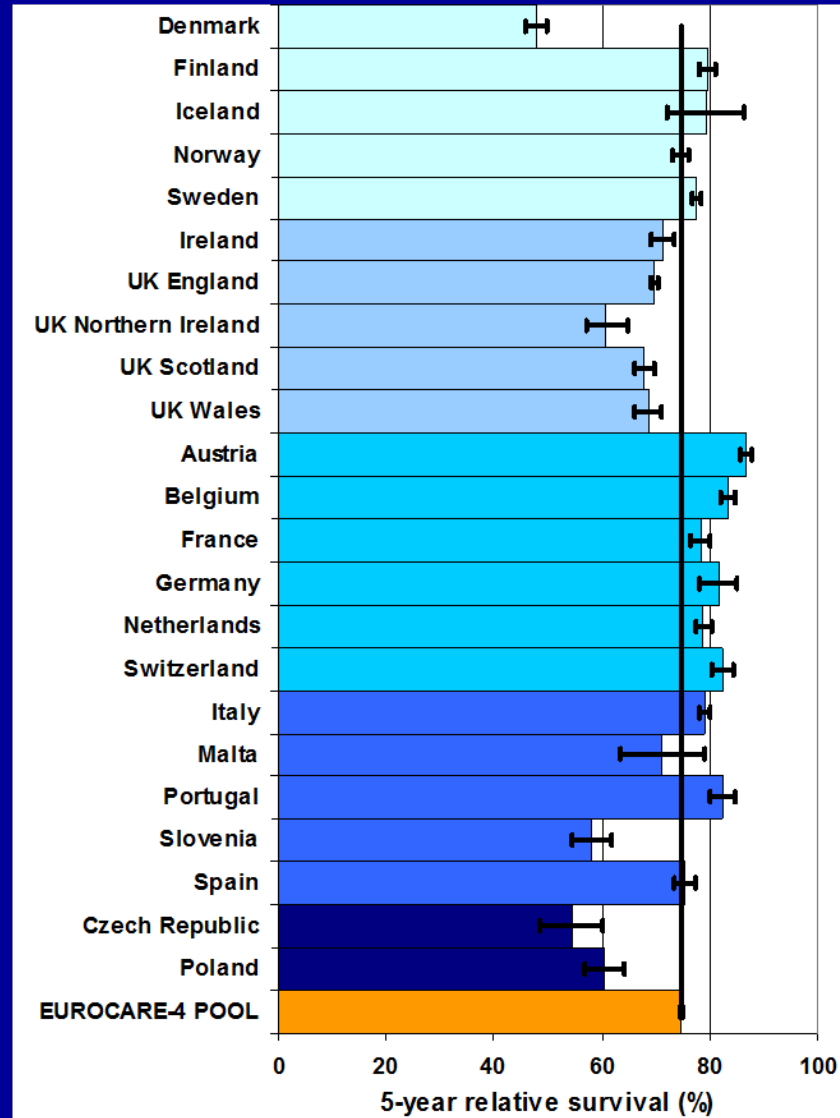


### Stomach



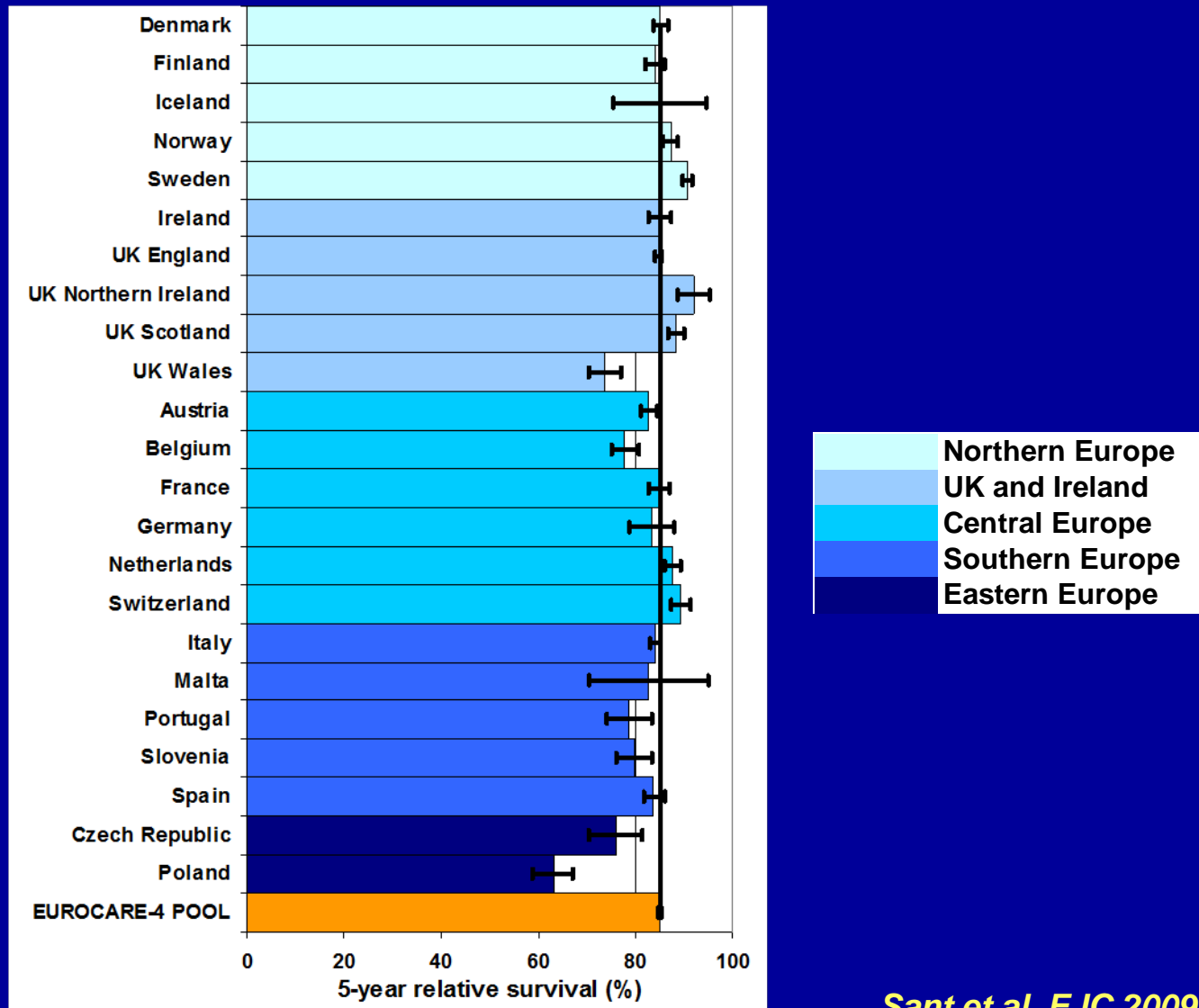
# EUROCARE-4

Age-standardized 5-year relative survival by country for  
PROSTATE CANCER with mean European survival, 1995-1999



# EUROCARE-4

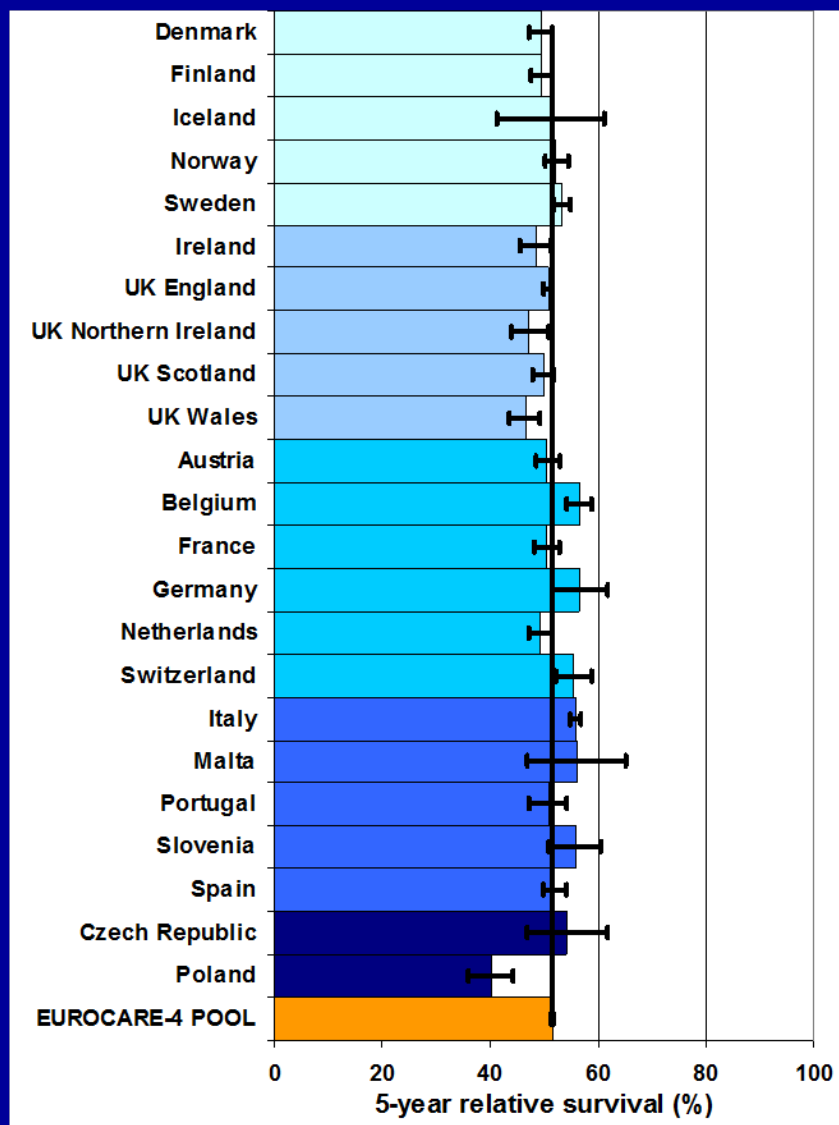
Age-standardized 5-year relative survival by country for  
MELANOMA OF SKIN with mean European survival, 1995-1999





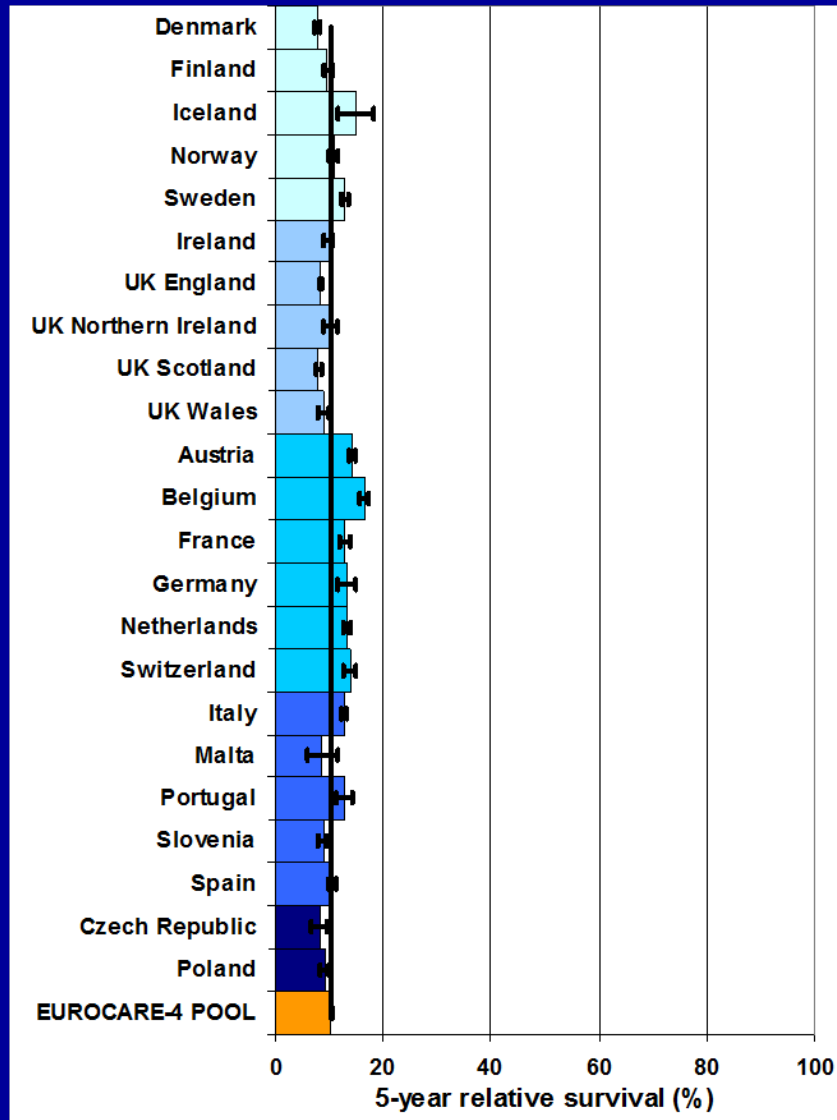
# EUROCARE-4

Age-standardized 5-year relative survival by country for  
NON-HODGKIN LYMPHOMA with mean European survival, 1995-1999



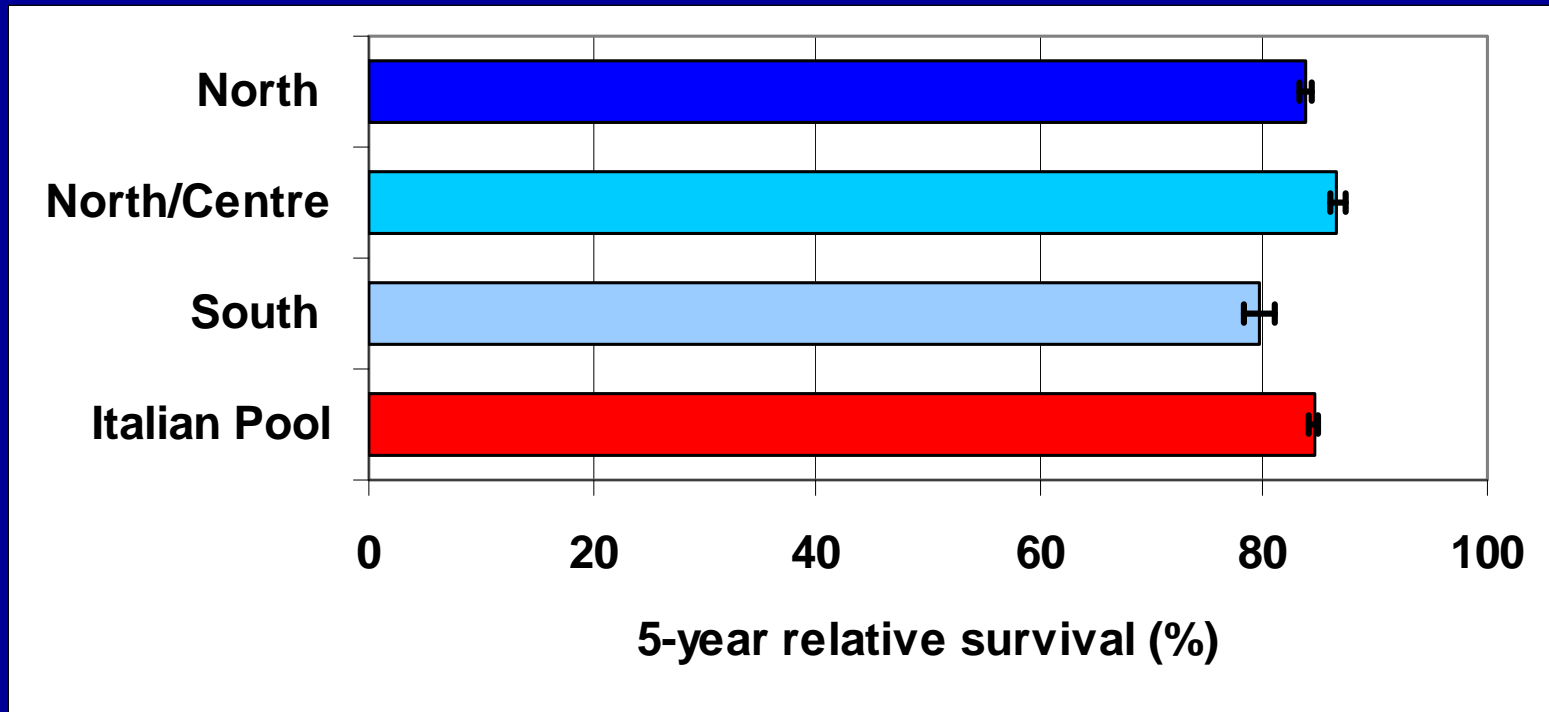
# EUROCARE-4

Age-standardized 5-year relative survival by country for LUNG CANCER with mean European survival, 1995-1999



# EUROCARE-4

## 5-year relative survival by Italian Area for BREAST CANCER, 1995-1999



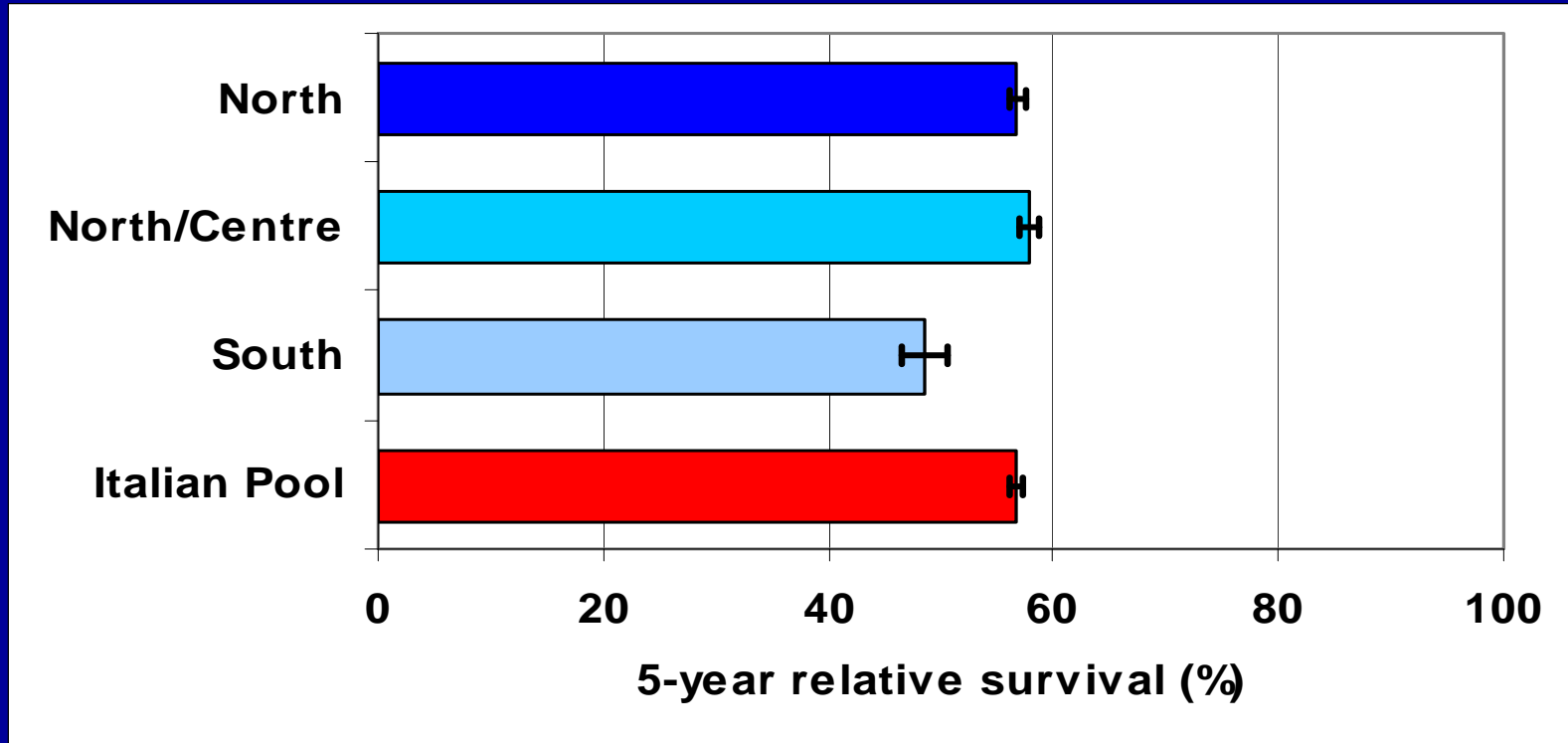
**North:** *Alto Adige, Piemonte, Friuli, Veneto, Lombardia*

**North-Centre:** *Toscana, Emilia Romagna, Umbria*

**South:** *Campania, Sicilia, Sardegna*

# EUROCARE-4

## 5-year relative survival by Italian Area for COLON & RECTUM CANCER, 1995-1999

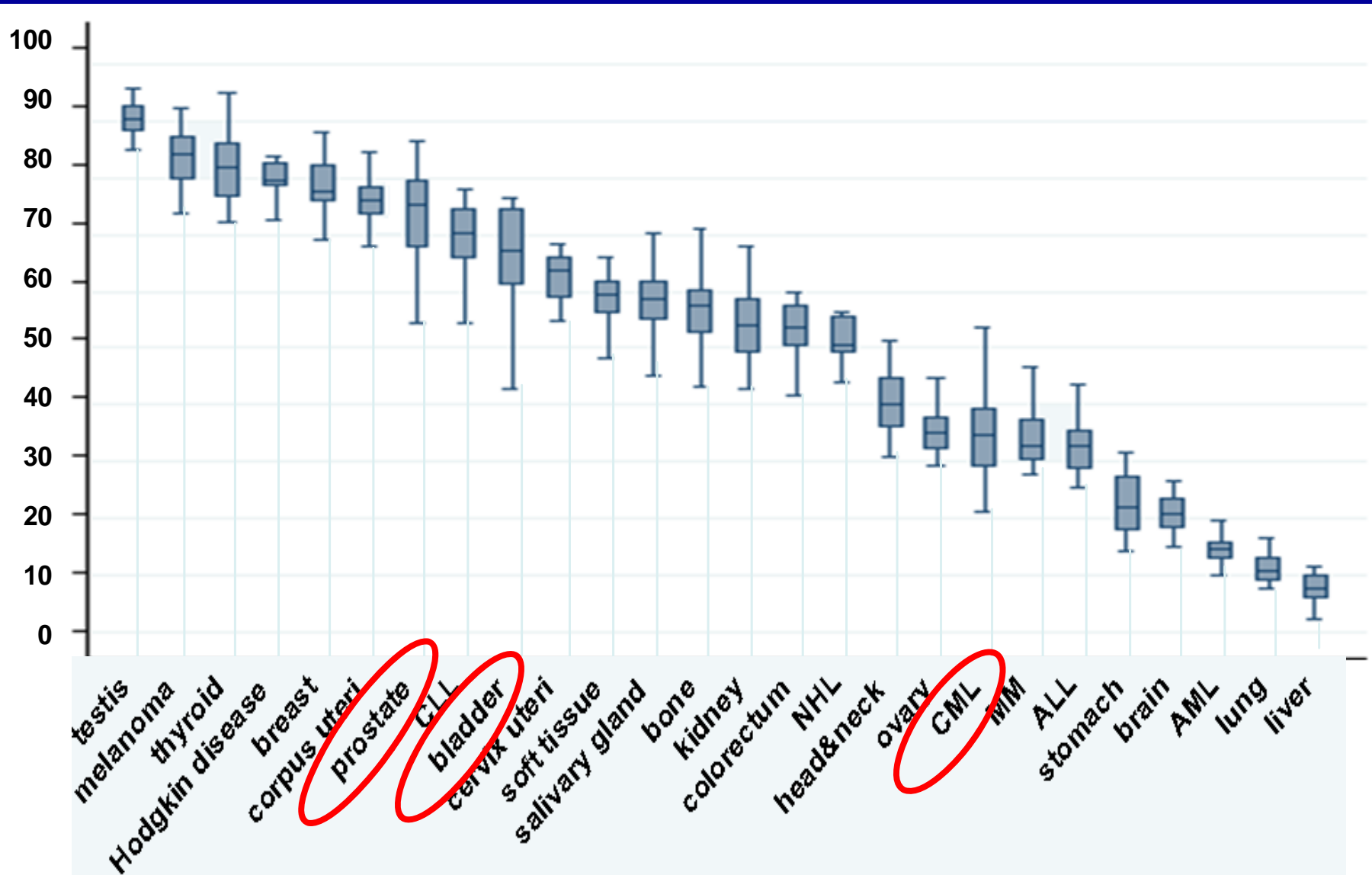


**North:** *Alto Adige, Piemonte, Friuli, Veneto, Lombardia*

**North-Centre:** *Toscana, Emilia Romagna, Umbria*

**South:** *Campania, Sicilia, Sardegna*

# EUROCARE 4. Between-country variation in age-adjusted country-specific five-year relative survival for each tumour site

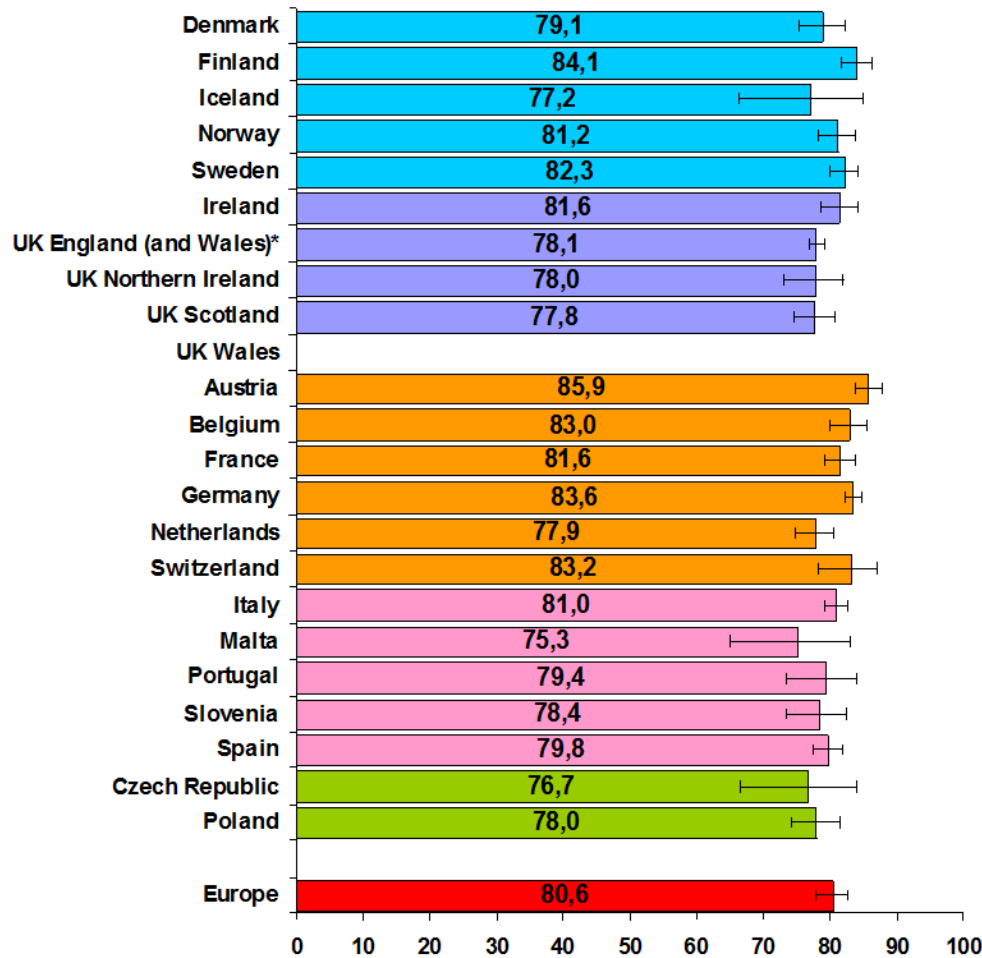


# EUROCARE-4

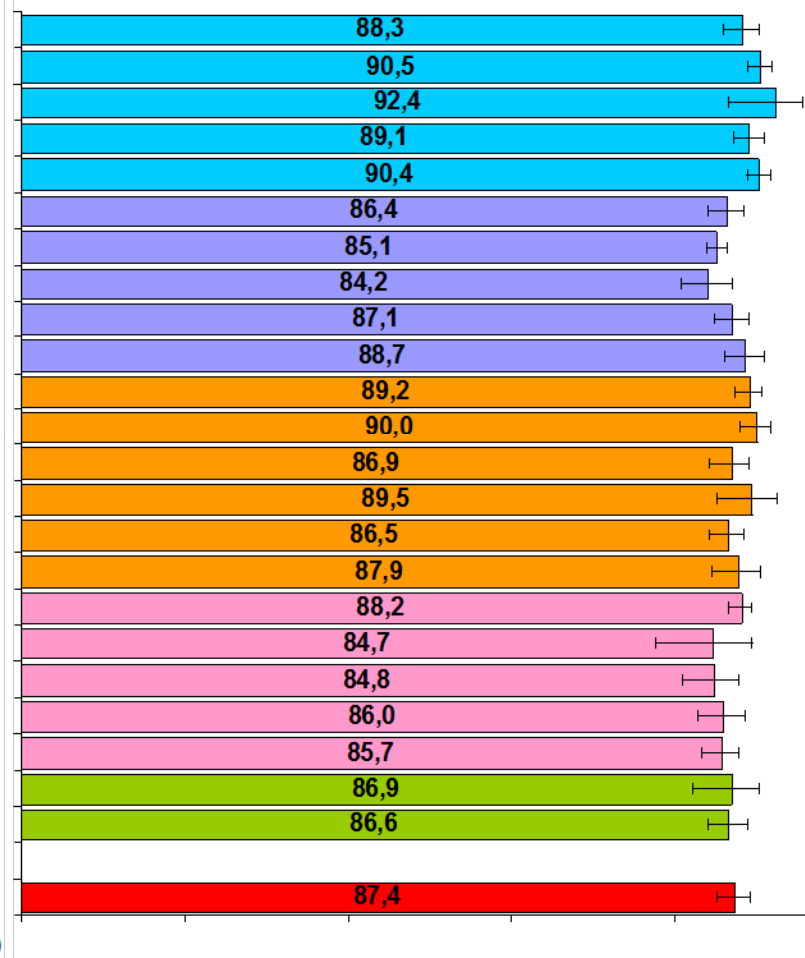
## Five-year relative survival in children and adolescents/young adults, by country, both sexes

### ALL CANCERS COMBINED

#### 0-14 years



#### 15-24 years

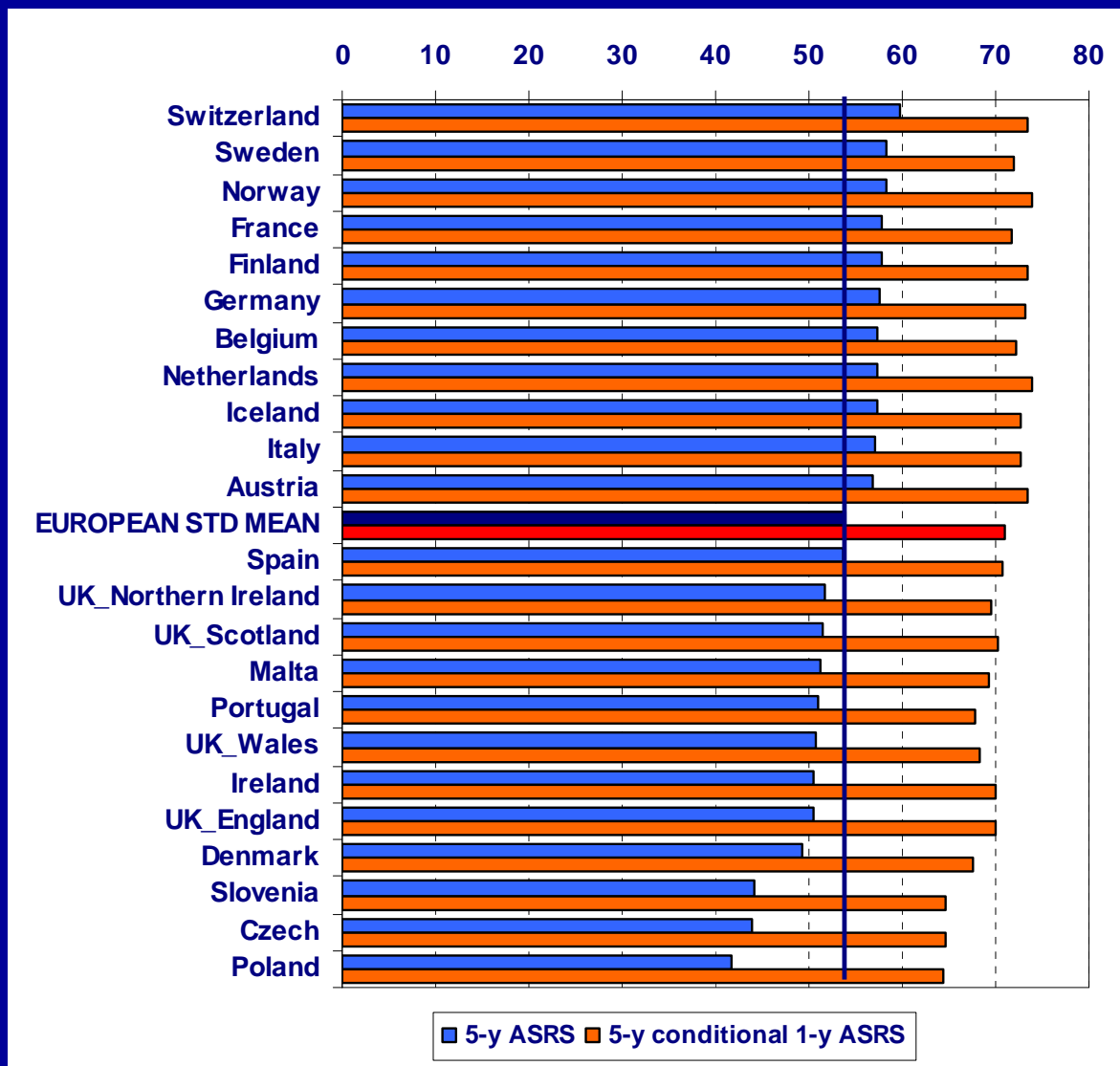


\* UK England and Wales together for 0-14 years and England only for 15-24 years of age

# EUROCARE-4

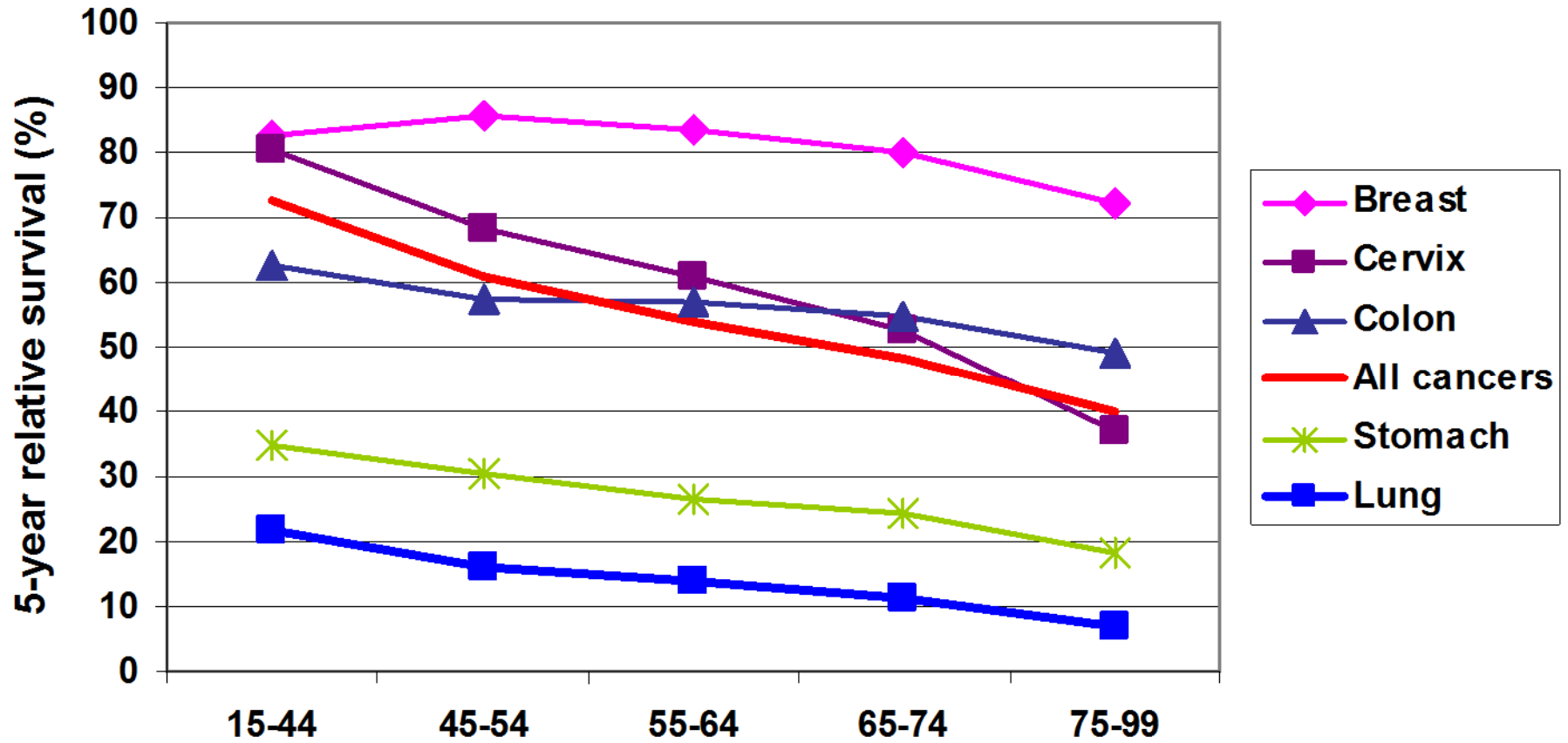
Age standardized 5-year relative survival and survival conditional to surviving the first year after diagnosis, by country (both sexes)

## COLON-RECTUM, DIAGNOSES 1995-1999



# EUROCare-4

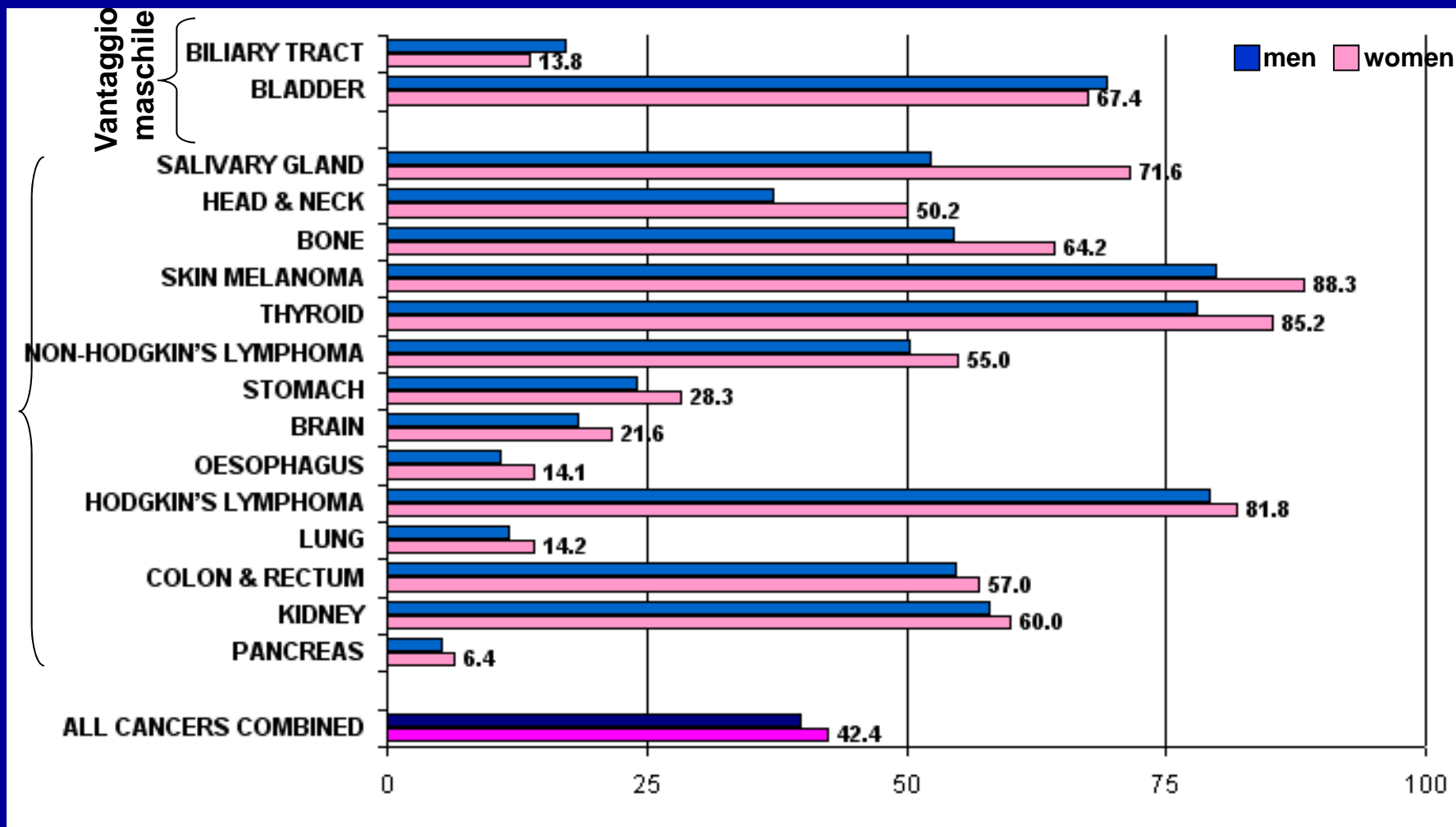
## Five-year relative survival by age





# EUROCARE-4

age adjusted 5-year relative survival in the European pool, by sex

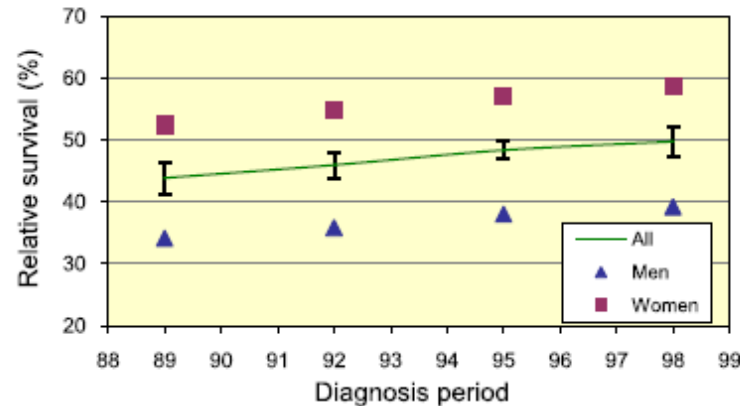


Il vantaggio femminile è evidente quando aggiustato per età, mentre si annulla nelle età avanzate (>65)

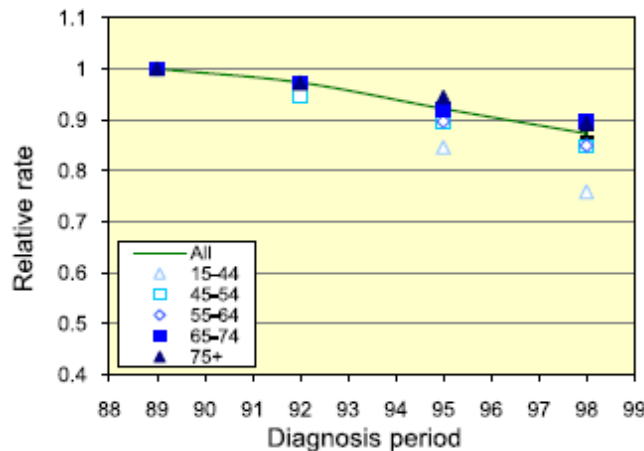
# EUROCARE-4 Time trend of 5-year relative survival and relative death rate (1988-1999)

## ALL CANCERS COMBINED

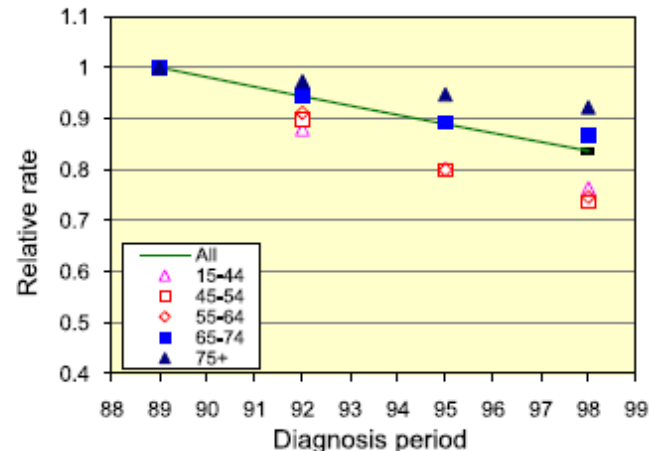
Area weighted European average  
Five-year relative survival by sex



Area weighted European average  
Five-year relative death rate by age (men)

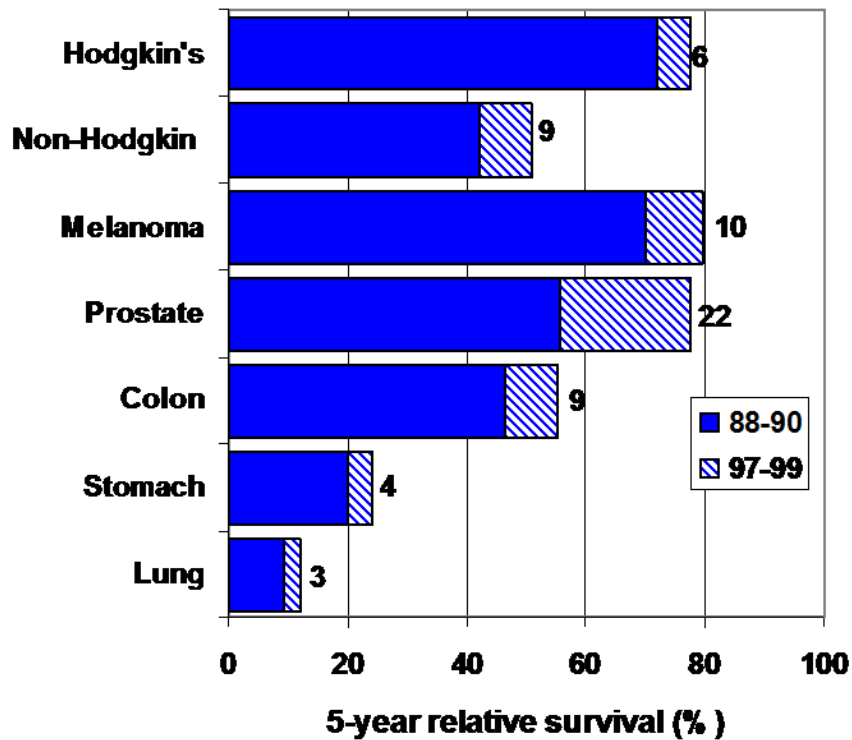


Area weighted European average  
Five-year relative death rate by age (women)

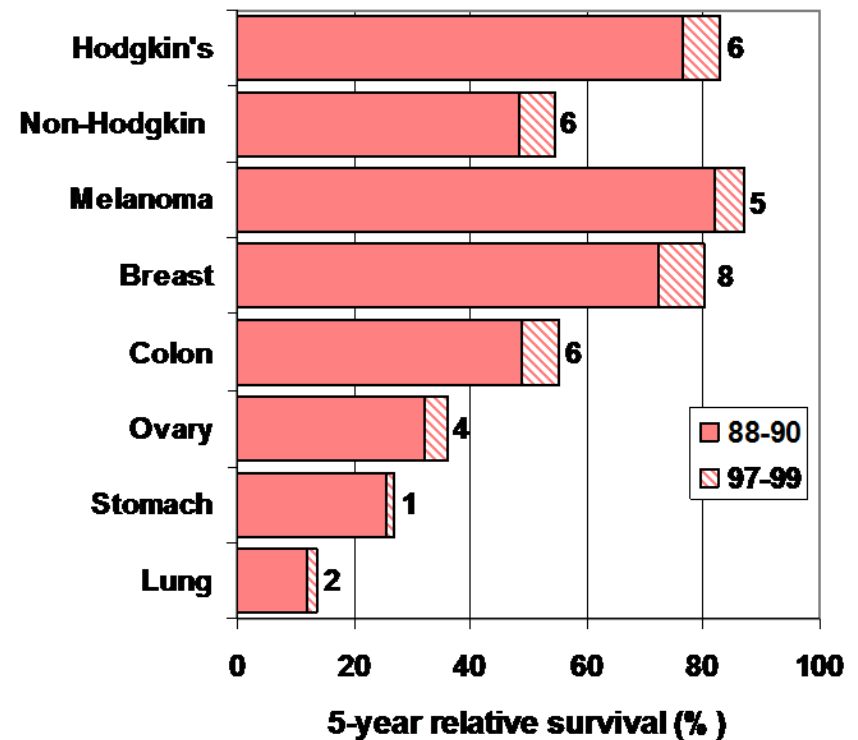


# EUROCARE-4 Time trend of 5-year relative survival (1988-90 vs 1997-99) by tumour and gender

**Men**



**Women**

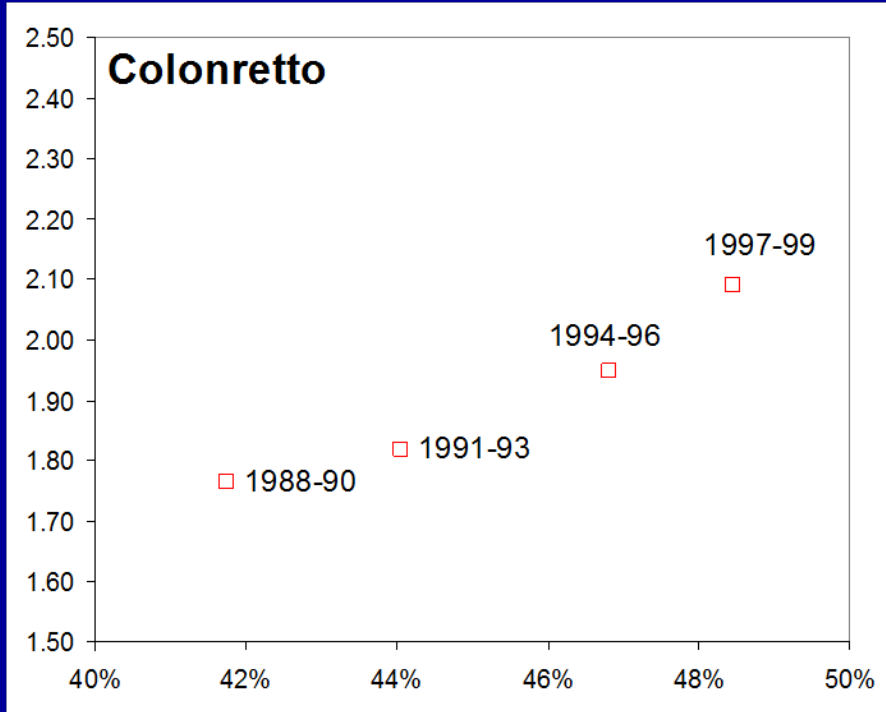


# EUROCARE-4

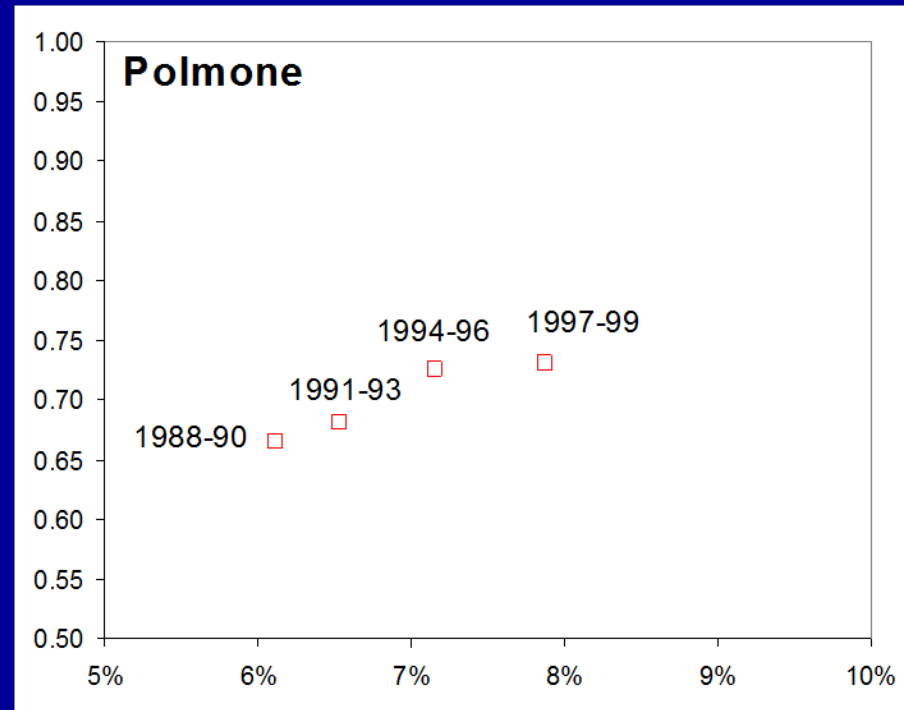
## Proporzione di pazienti guariti

### e durata di vita media (in anni) dei pazienti deceduti

#### Pazienti affetti da tumore maligno del colon retto e del polmone(1988 -1999)



Vita media (anni)



Proporzione di pazienti guariti

## In sintesi ...

I risultati di EURO CARE si sono rivelati estremamente utili in **sanità pubblica** e hanno contribuito a migliorare i piani sanitari in molti paesi e – in maniera indiretta – anche la prognosi dei pazienti oncologici

**Per spiegare le differenze di sopravvivenza**

**Studi EURO CARE ad Alta Risoluzione  
(high resolution studies)**

**raccolta su base campionaria di informazioni dettagliate  
su stadio, indagini diagnostiche, caratteristiche biologiche  
tumorali, trattamento, follow-up**

attualmente sono in corso studi HR in Italia, Spagna, UK,  
Francia

Tumori della mammella, colon retto, polmone e ovaio,  
melanoma, linfomi

**ITALIA: 17 registri tumore AIRTUM**



- ✚ **Pazienti diagnosticati dopo il 2002, con follow-up al 31/12/2008**
- ✚ **Stima della sopravvivenza di periodo**
- ✚ **Stima dei pazienti guariti**
- ✚ **Morti evitabili**

***Tumori benigni del sistema nervoso***

***Extent of disease o stadio TNM***