



# Epidemiology and Treatment of Advanced Prostate Cancer in South America

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# Disclosure

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- Honoraria: Pfizer, BMS, Novartis, Astellas
- Scientific Advisory Board: Janssen, Novartis
- Research Grant: Janssen; AstraZeneca, Sanofi-Aventis

# General Facts

- Latin America and the Caribbean characteristics:
- 600 million inhabitants
- 10% of the world's population
- Highest overall Human Development Index rating
- Major Inequalities
- Significant reductions in fertility
- Significant reductions in infant mortality
- Highest life expectancies among developing regions

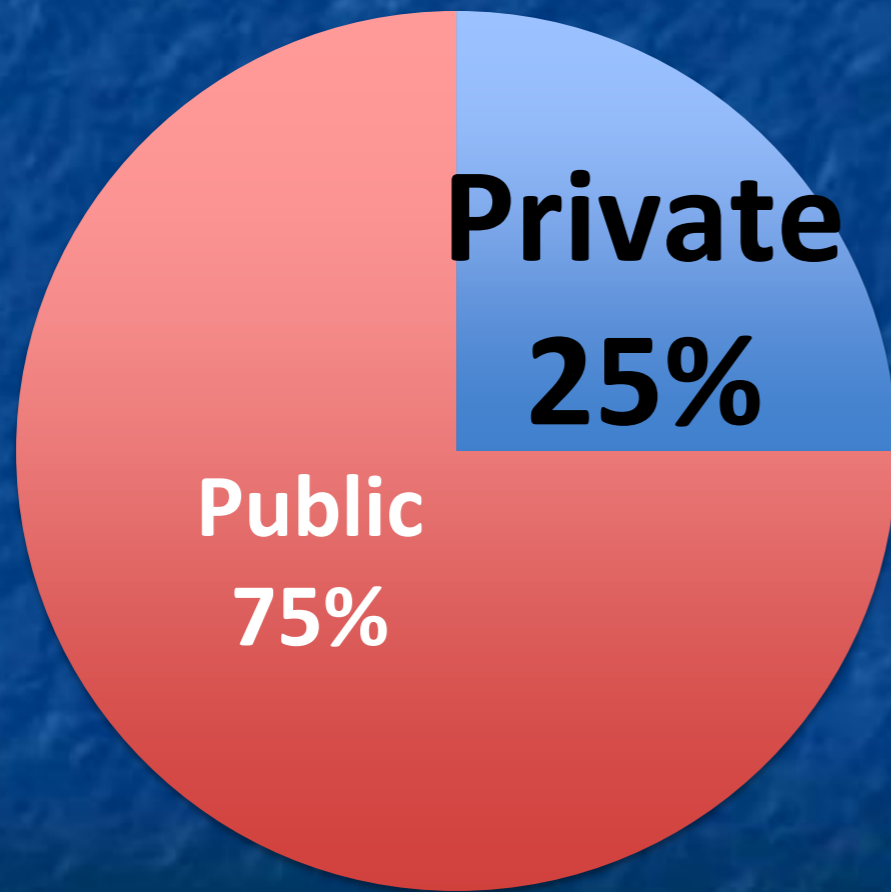
# Overall Cancer Burden in LA

- Incidence: 1.1M new cancer/year (7.8% world cases)
- Deaths/year: 600.000 cases
- Cancer mortality rates are relatively high
- Contributing factors to inferior outcomes:
  - Advanced stage at diagnosis
  - Limited access to effective treatment : 54% no health-care coverage
  - A sharp rise in cost (currently ~\$ 4billion annually)
  - Inequitable Distribution of Cancer Resources

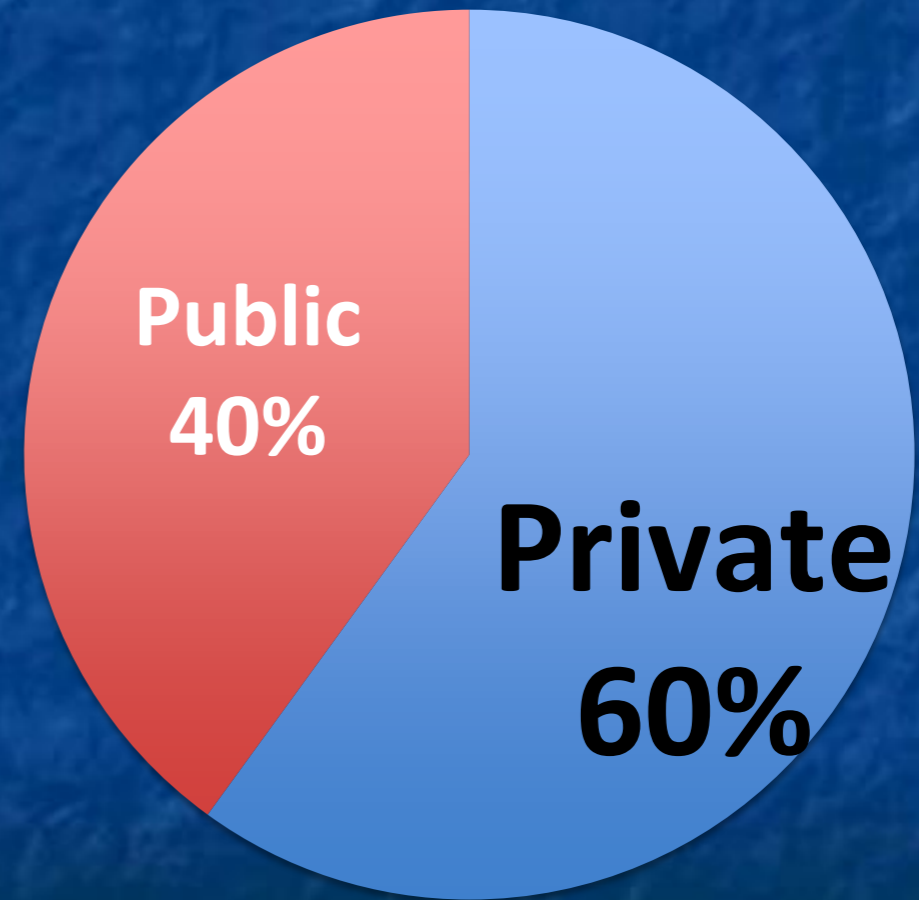


# Public vs. Private Coverage

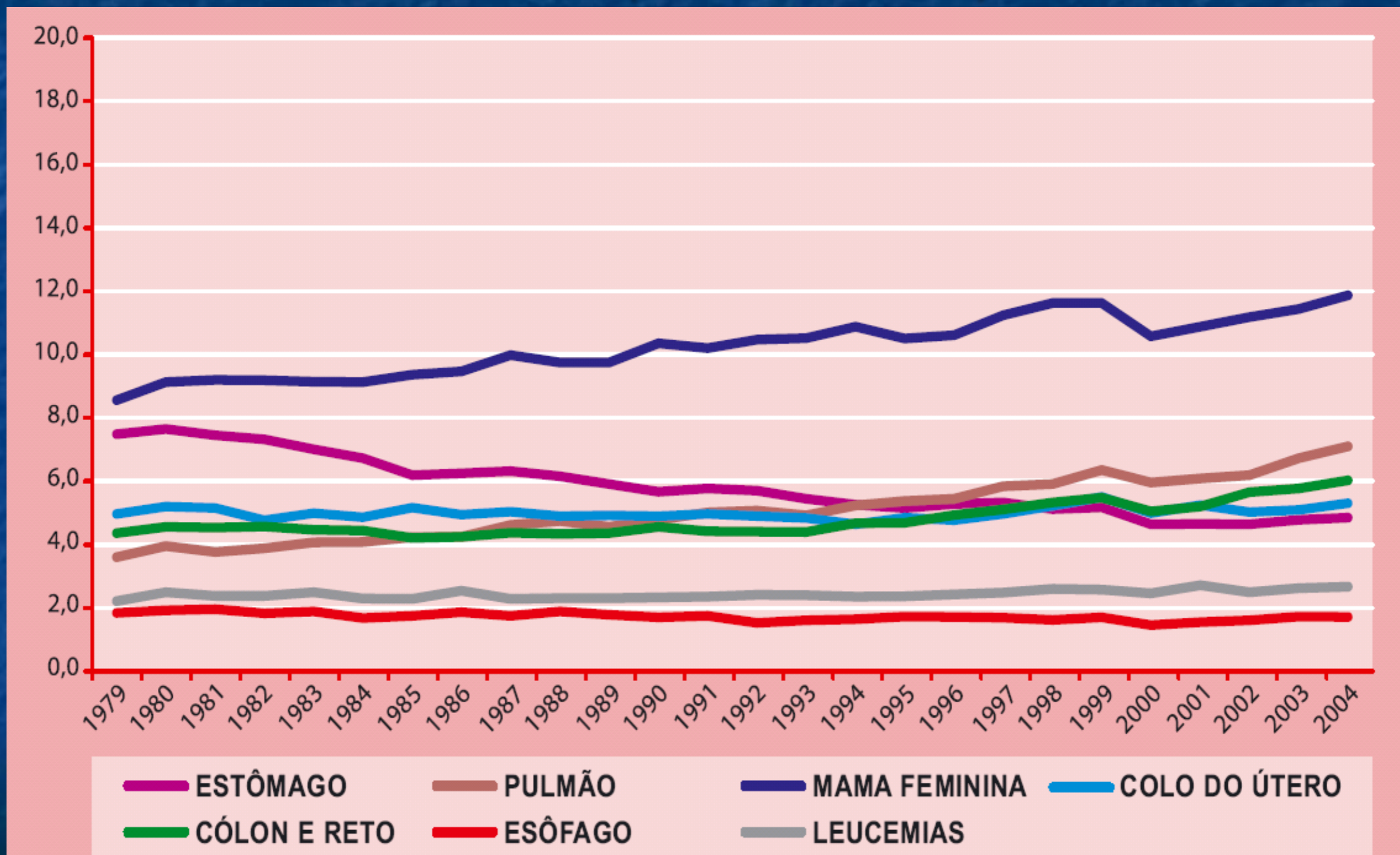
Population covered by sector



Expenditures by sector

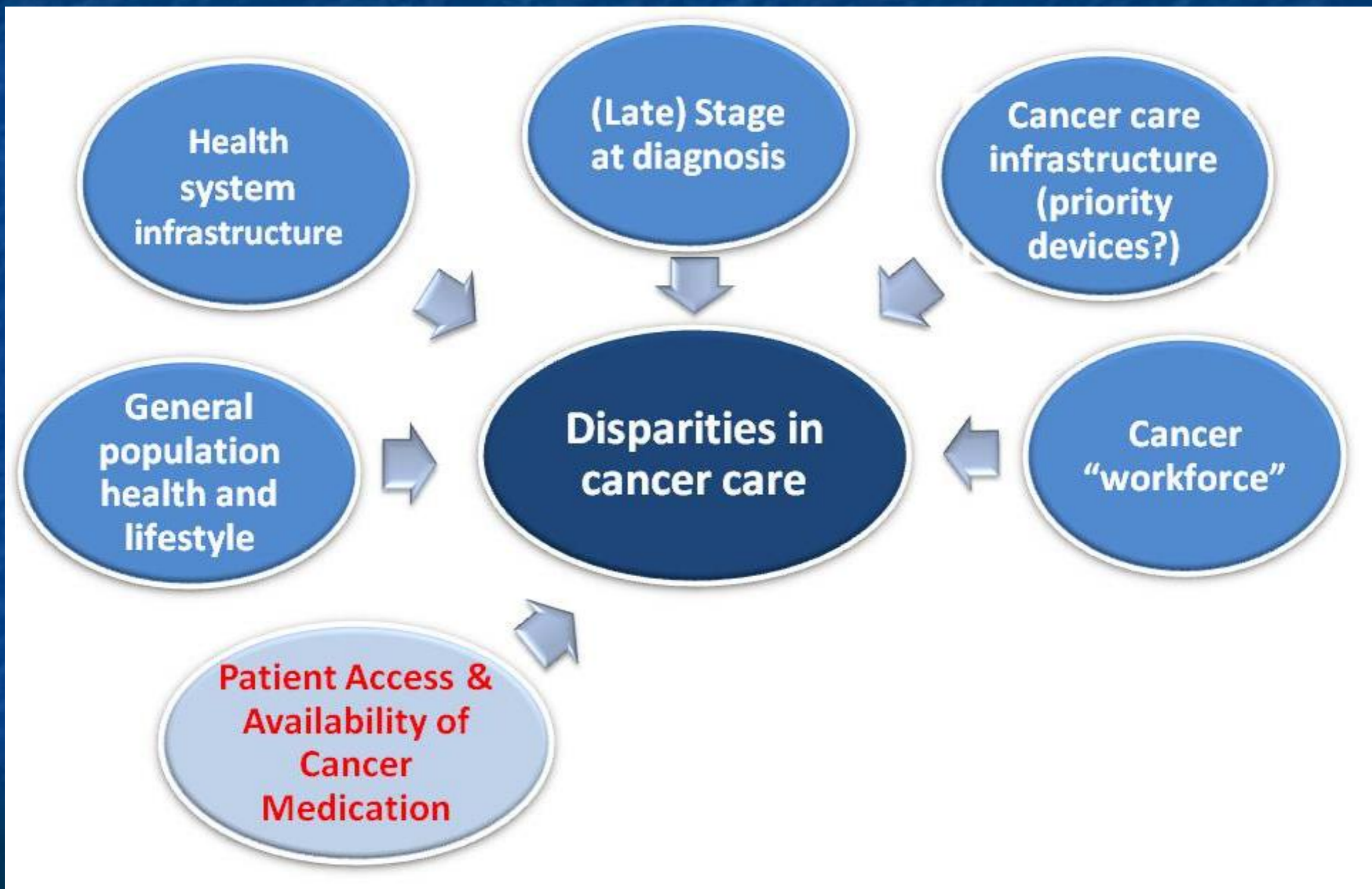


# Age-adjusted Mortality Rates, Women. Brazil (1979-2004)

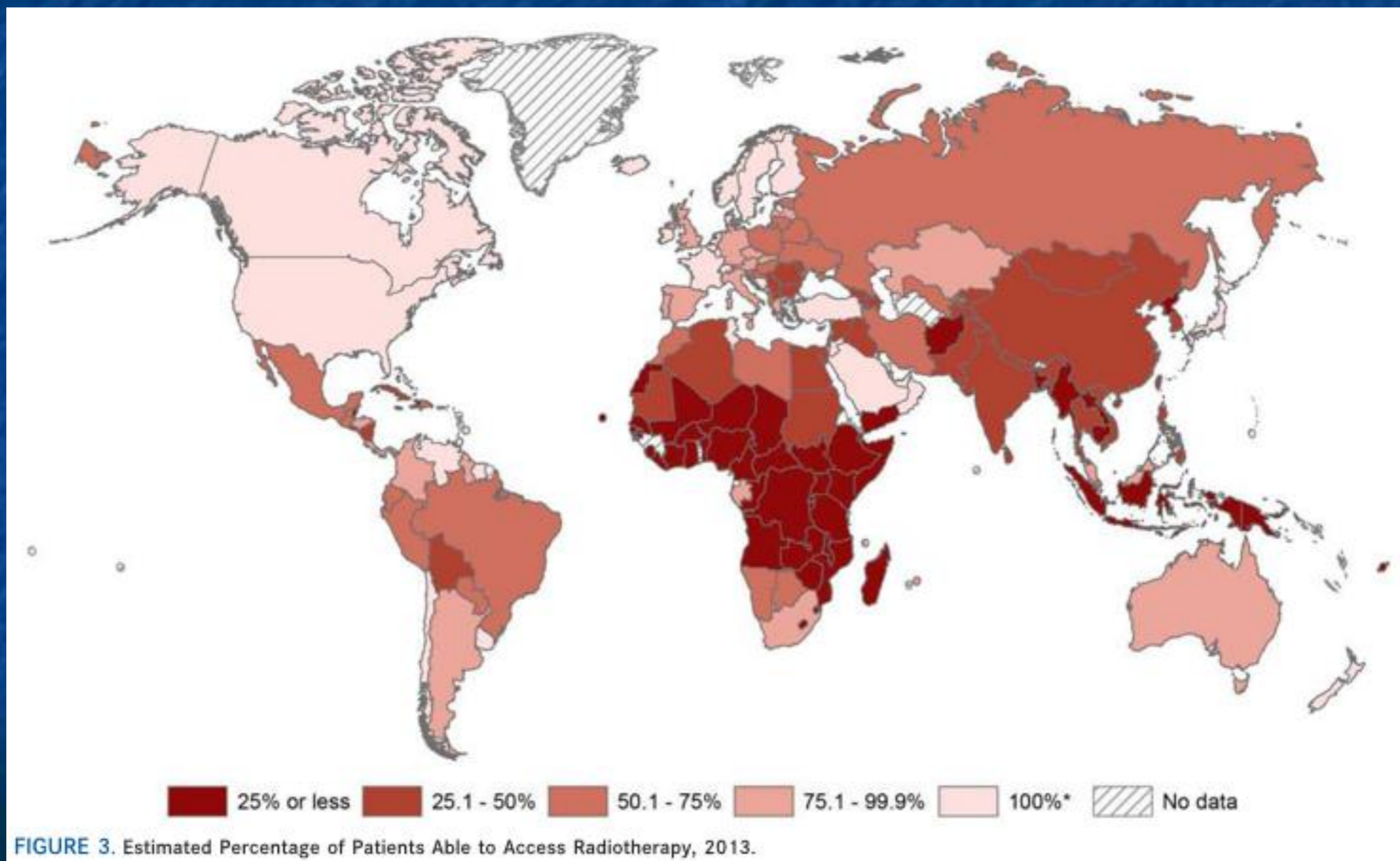


Source, INCA, MS, Brazil

# Factors Accounting for Cancer Outcomes Disparities



# Access to Radiotherapy, 2013





# Overall Prostate Cancer Burden in LA 1'

2012

2030

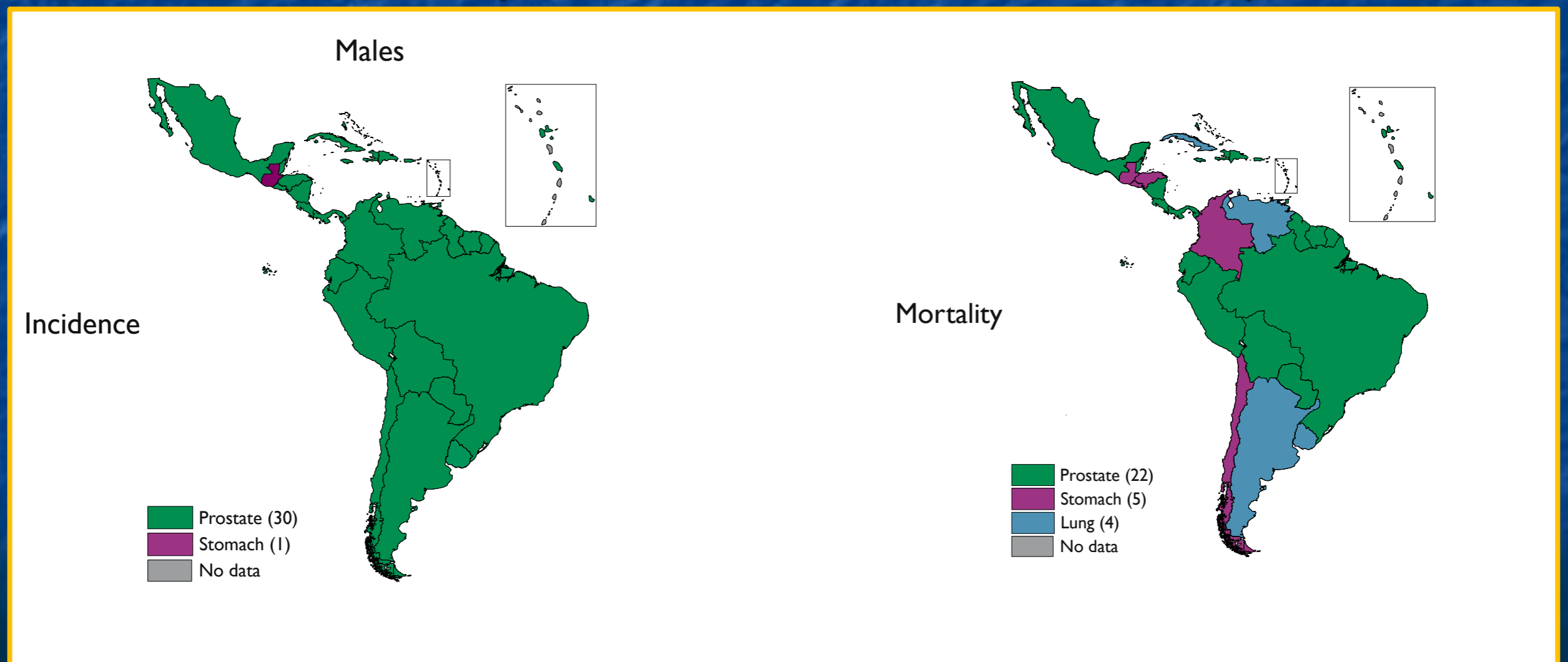
New cases

134,000

249,000

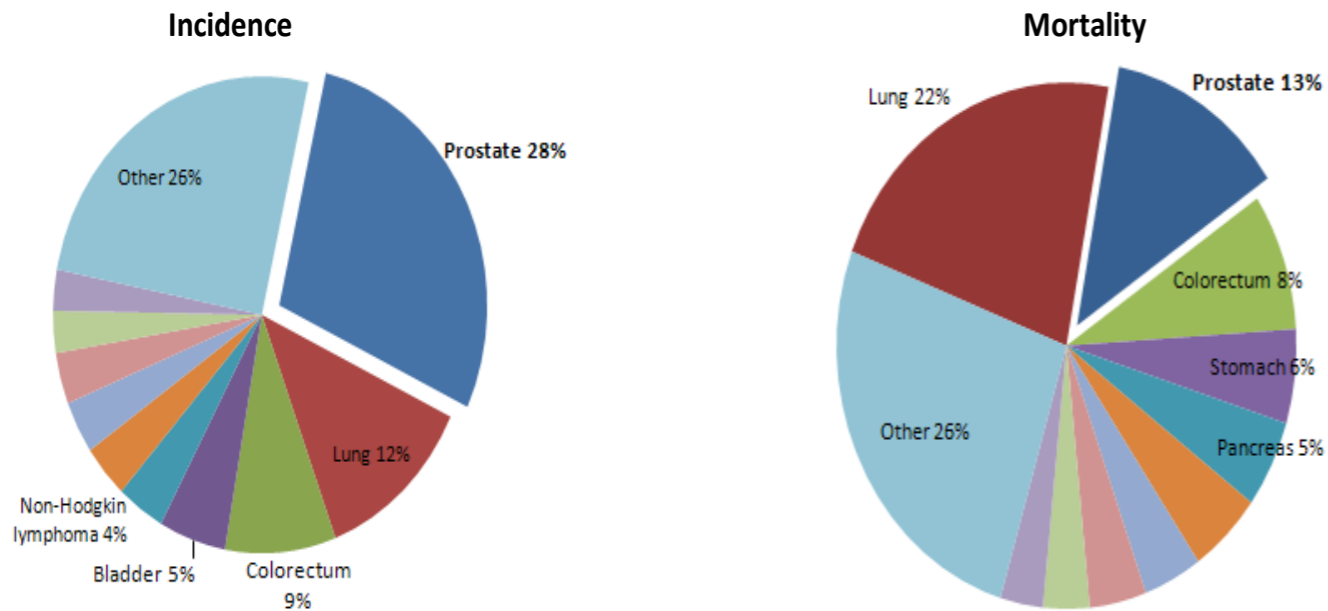
43,000

86,000

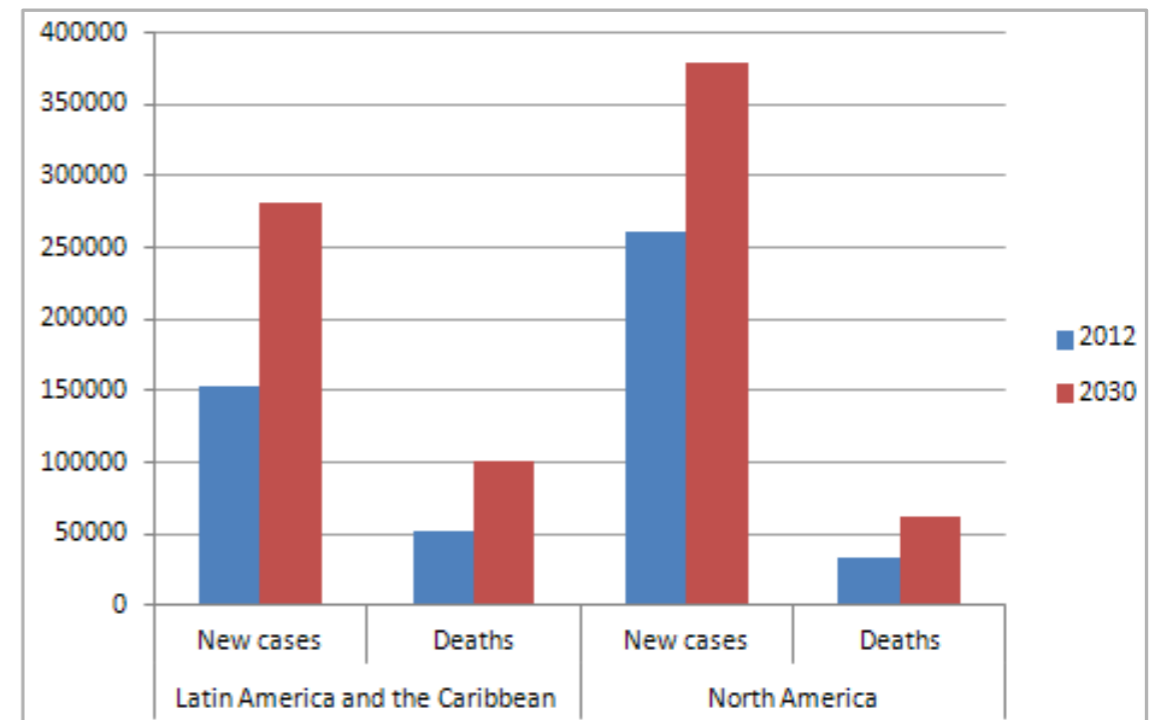


# Overall Prostate Cancer Burden in LA 2'

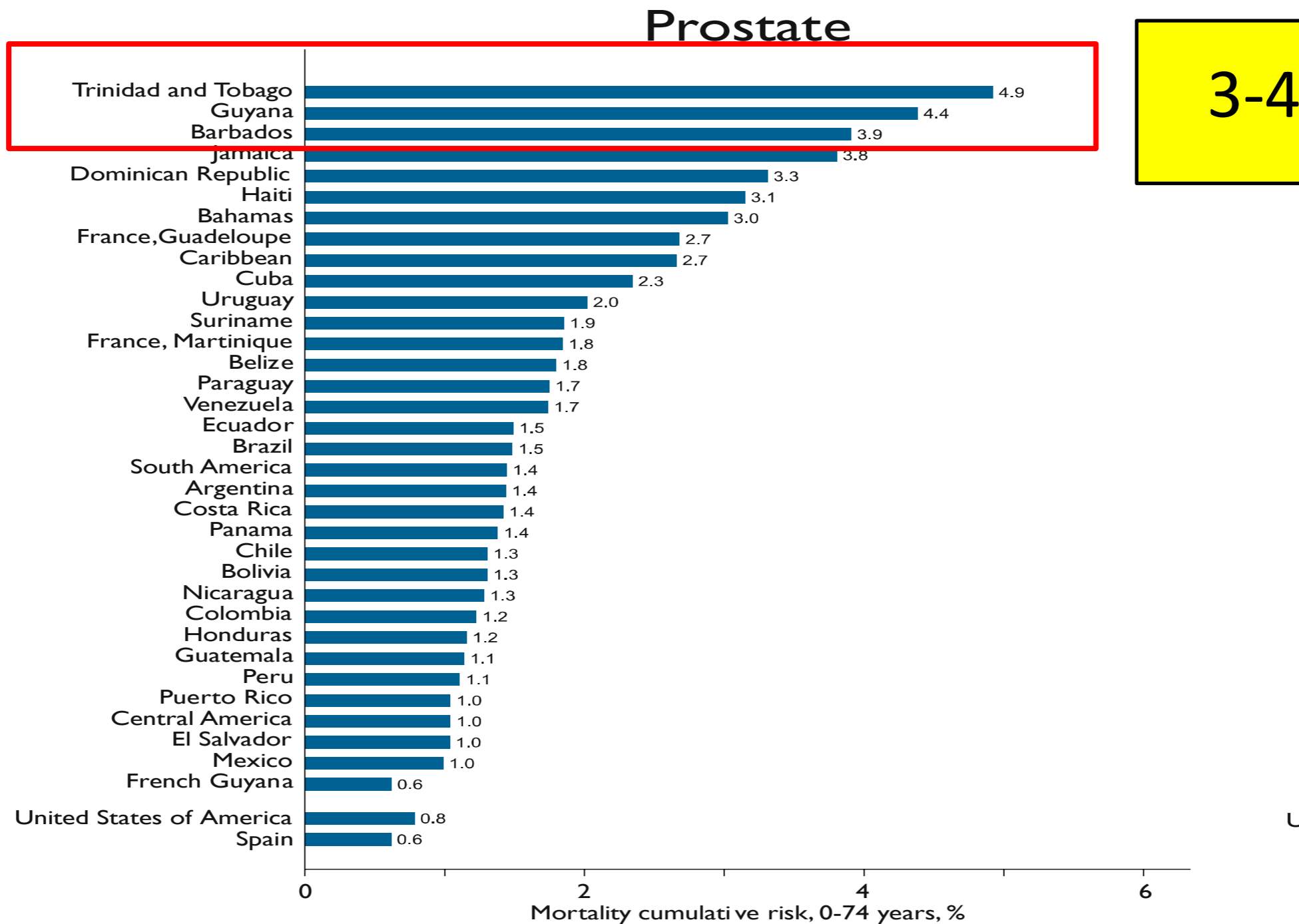
Proportion of new cases and deaths from prostate cancer in the Americas



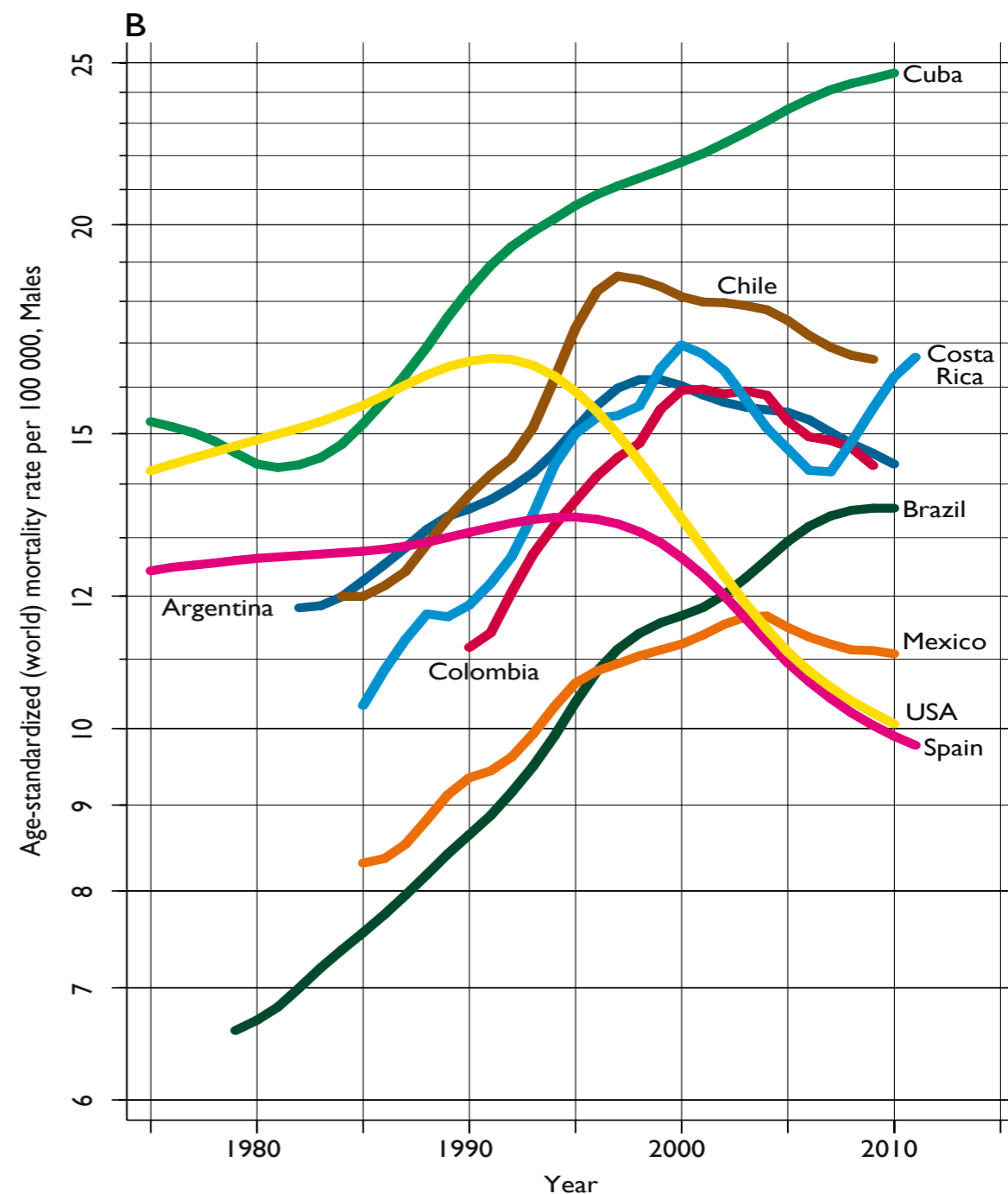
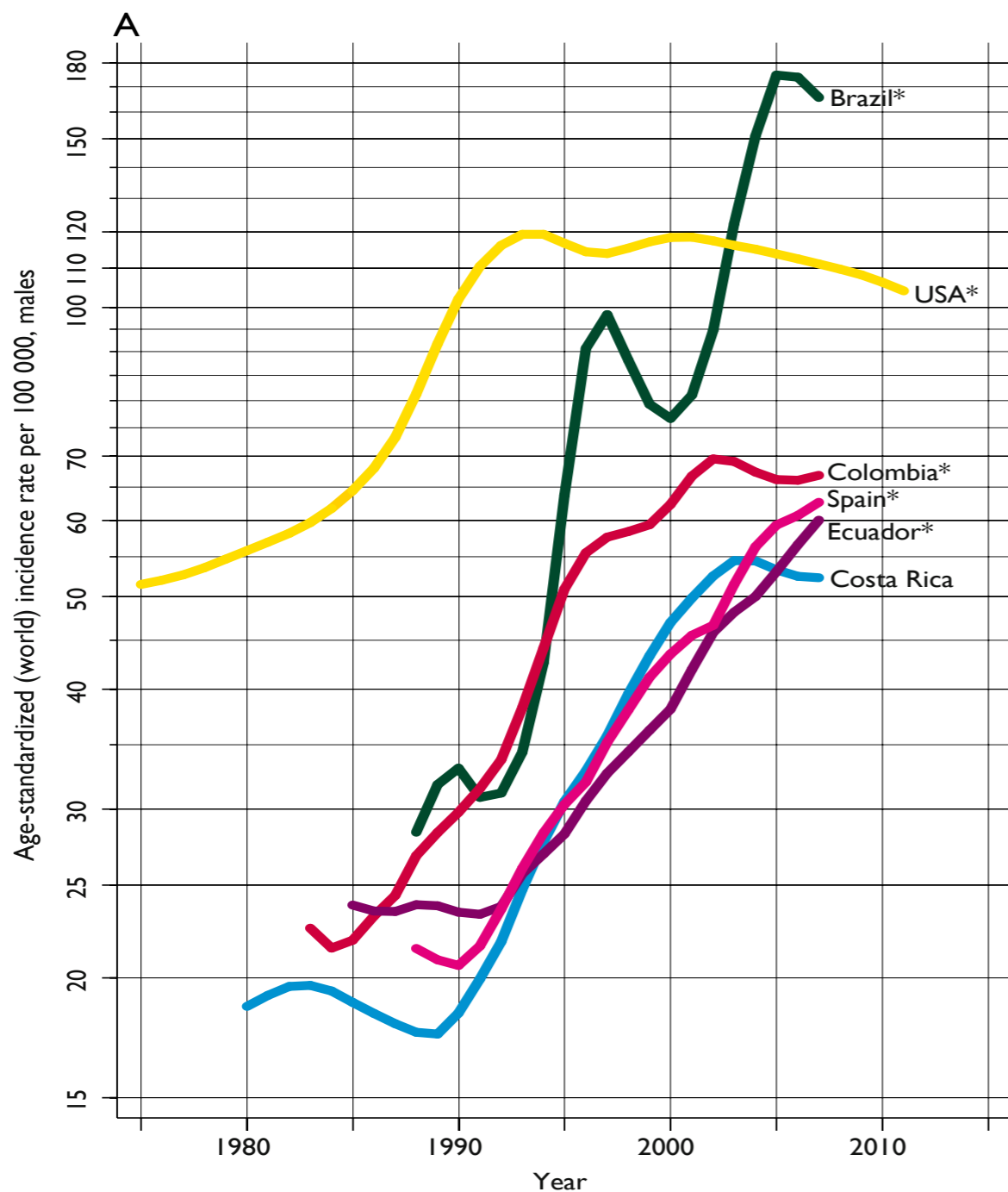
Number of new cases and deaths from prostate cancer in 2012 and 2030



# Overall Prostate Cancer Burden in LA

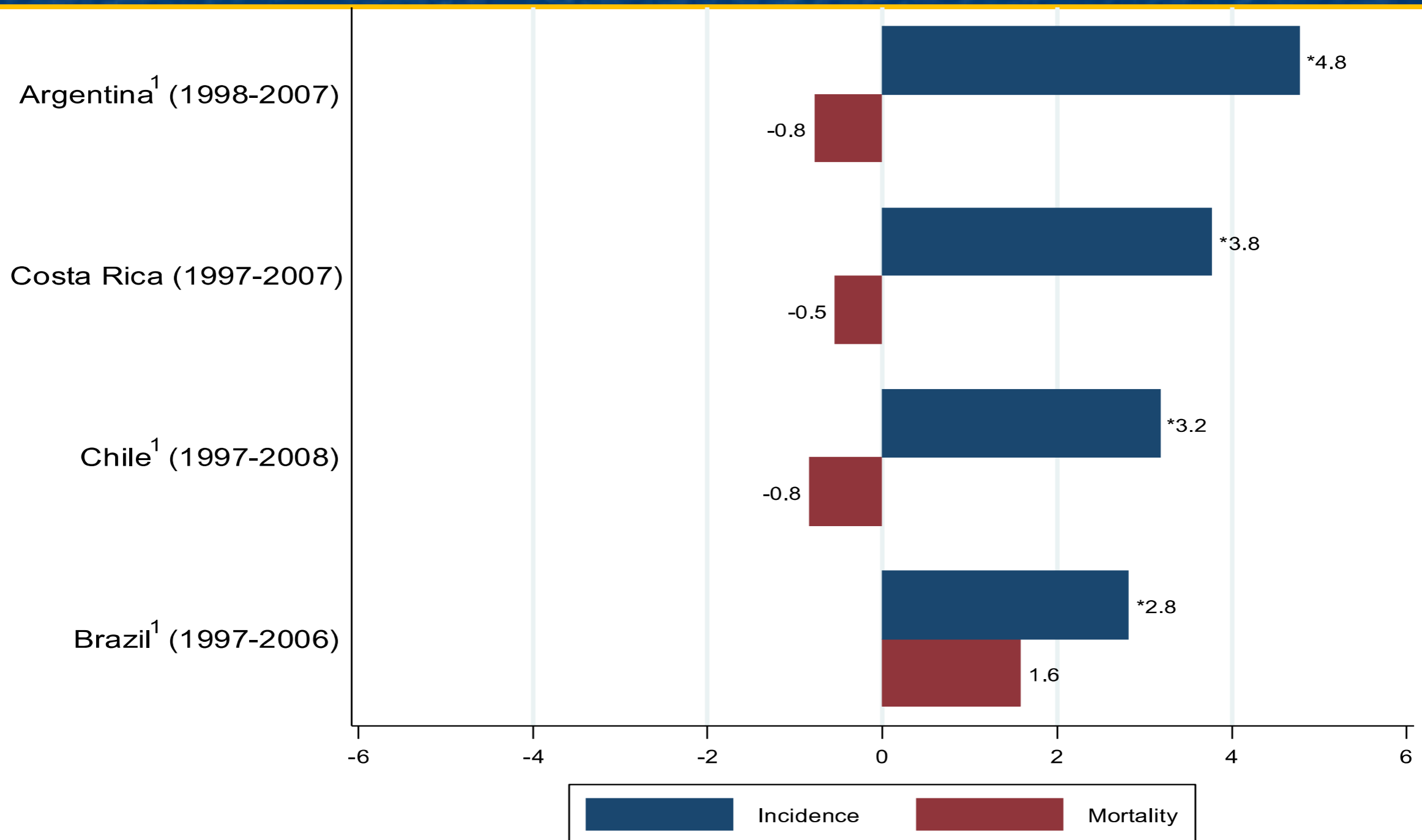


# Trends in Prostate Cancer Incidence



Data Source: IARC WHO Mortality Cancer Database

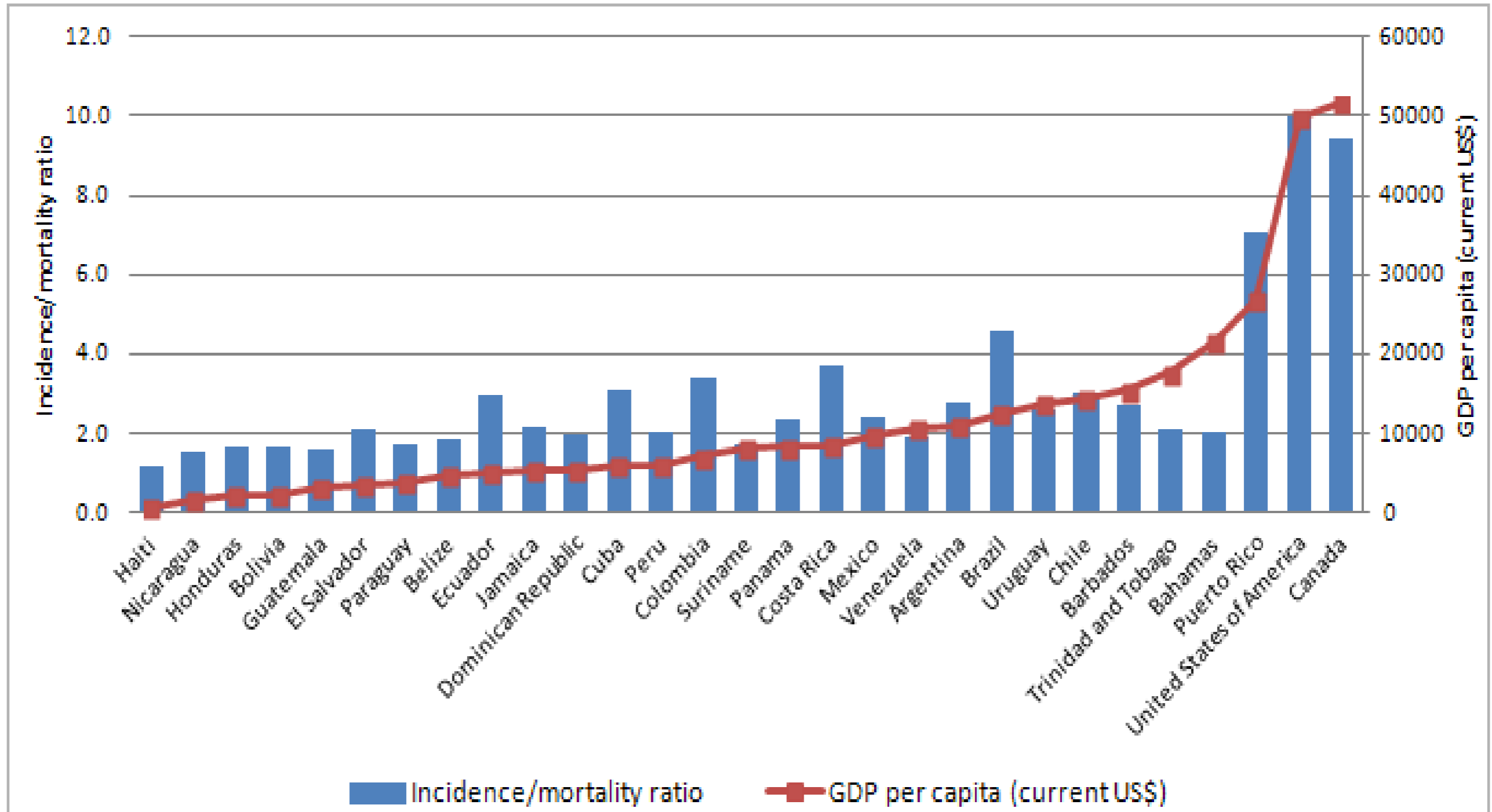
# Trends in Prostate Cancer Incidence and Mortality (all ages per 100.000)





\*The estimated annual percent change is statistically different from zero (p ≤ .05)

<sup>1</sup> Incidence rates were estimated using data from regional cancer registries

# Incidence/Mortality Ratio of Prostate Cancer vs GDP per capita



# Mortality Trends *versus* Country

<b>Country</b>	<b>Mortality Trends</b>
Brazil	
Cuba	

# **Actions to Improve Prostate Cancer Outcomes**

- **Increase financial resources for cancer control**
- **Restructure health-care systems**
- **Optimise oncology workforce to meet regional needs**
- **Improve technical resources and services for cancer prevention and treatment**
- **Invest in research and evidence-based cancer care relevant to the region**
- **Invest in education**

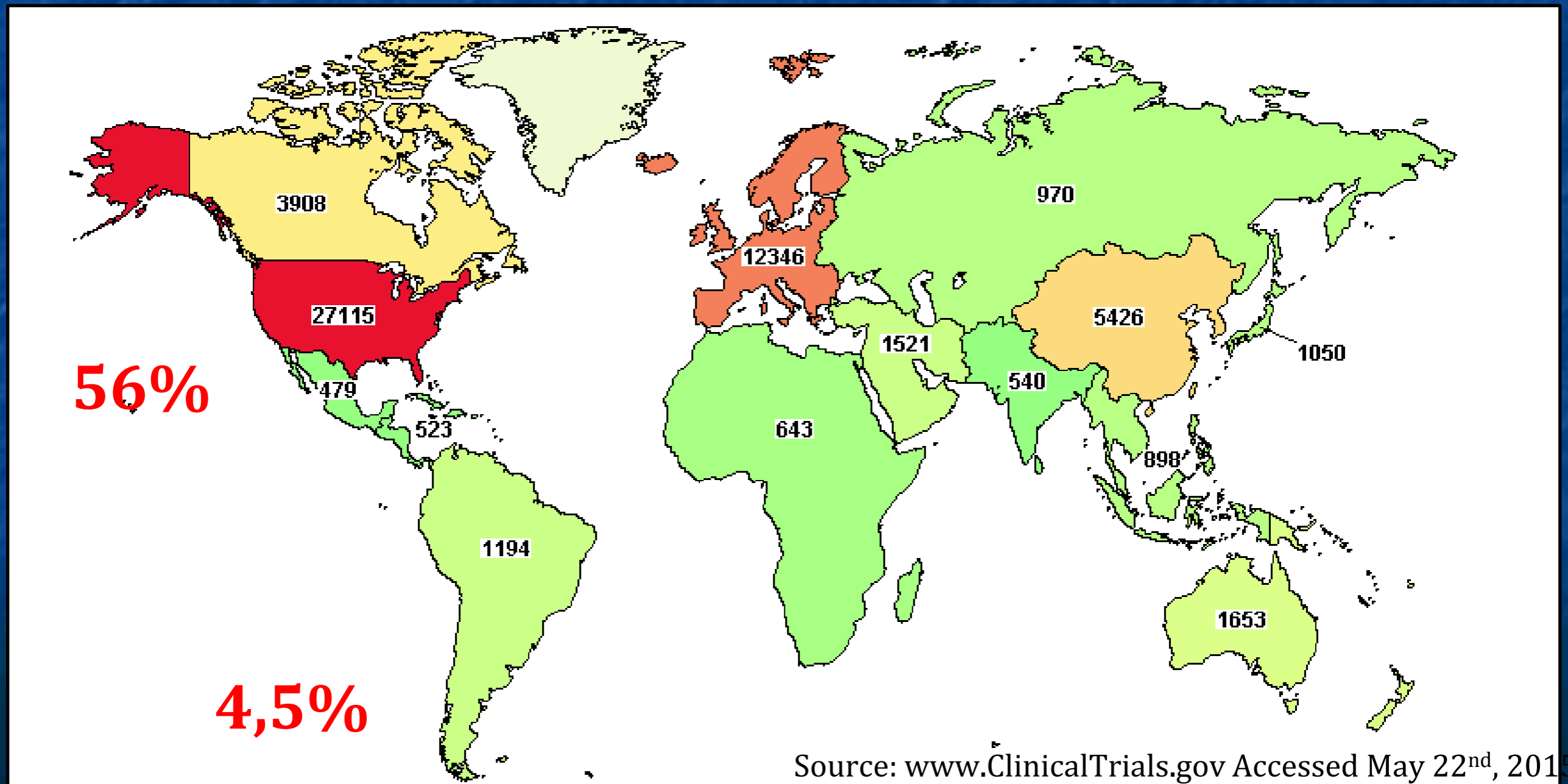


# Prostate Cancer Control Programmes

- Countries have recently made PC a priority in their national cancer plans and have developed guidelines for the detection, diagnosis, treatment, and f/u
  - Brazil (2002),
  - Colombia (2013)
  - Costa Rica (2011)
  - El Salvador (2015)
  - Mexico (2010)
  - Nicaragua (2010)
  - Peru (2010)

# CANCER TRIALS (CLINICALTRIALS.GOV)

- 190,954 studies (190 countries)
- 48.313 studies in Cancer.

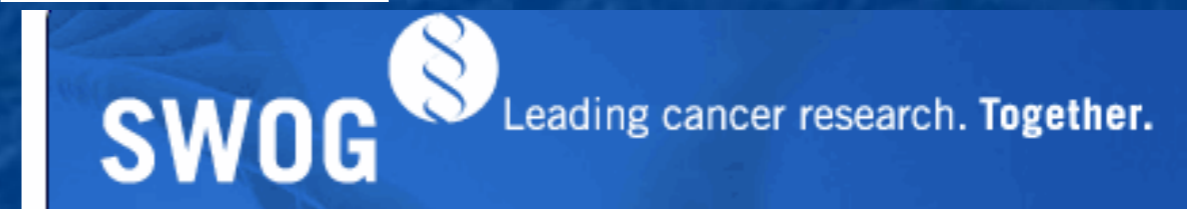




**LACOG**

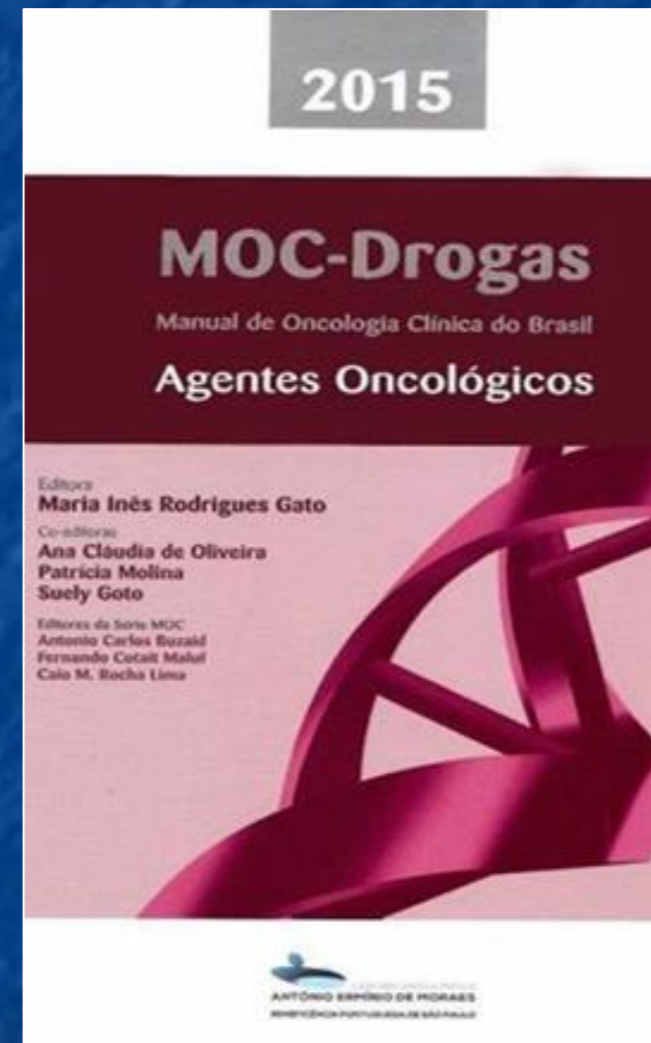
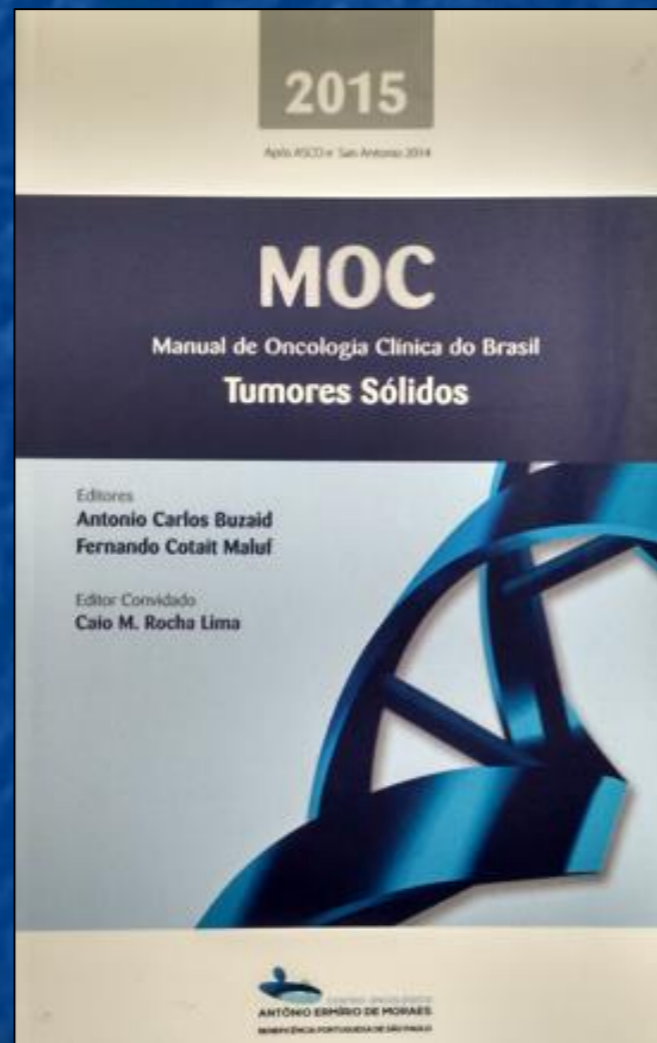
LATIN AMERICAN  
COOPERATIVE  
**ONCOLOGY GROUP**

# Cooperative Groups Worldwide



# Institutional Guidelines

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# **NCCN Prostate Cancer Guideline Version 1.2014**

**Version for Latin America - LACOG Panel of Reviewers**

**Meeting 21 February 2014, São Paulo, Brazil**



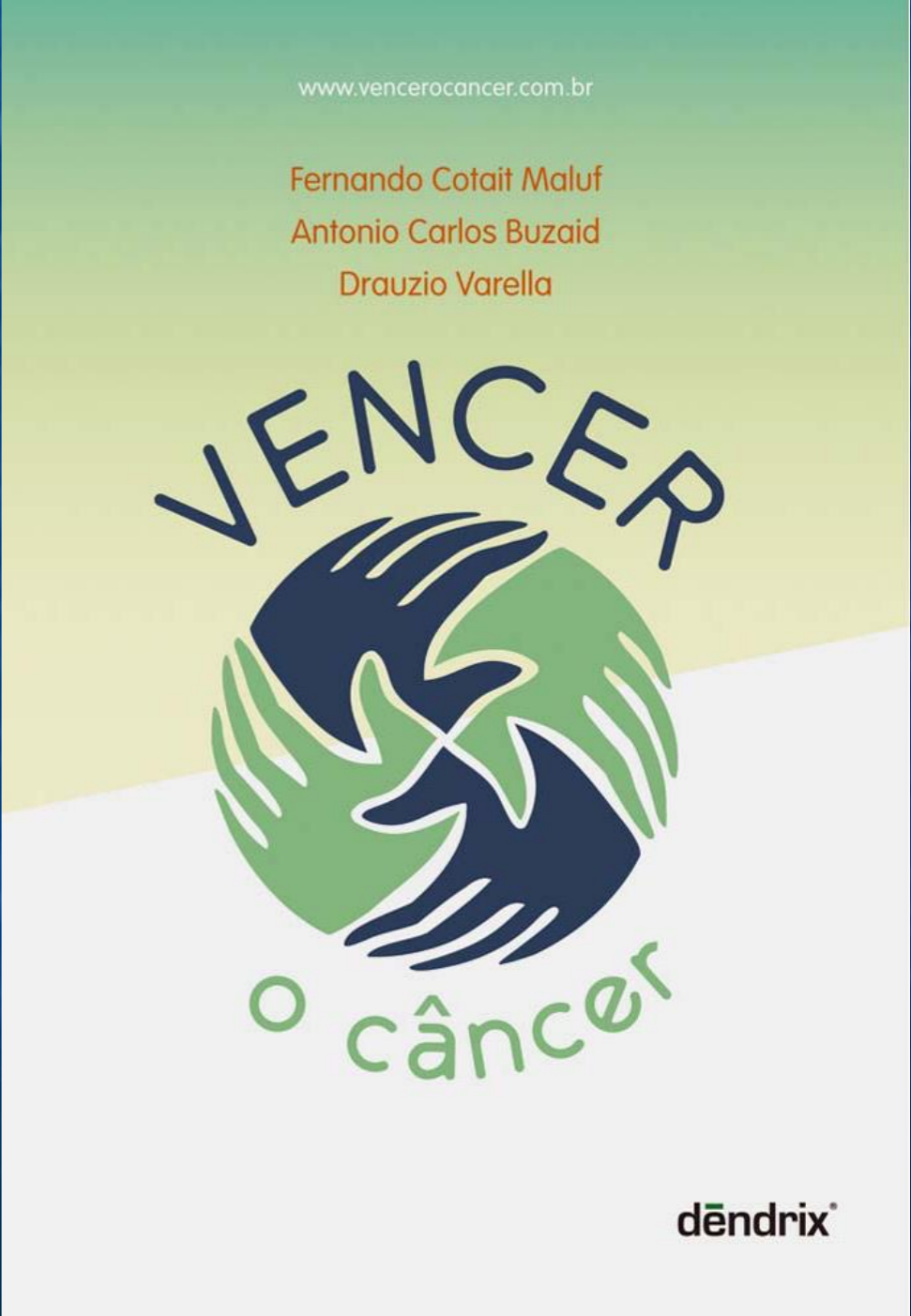
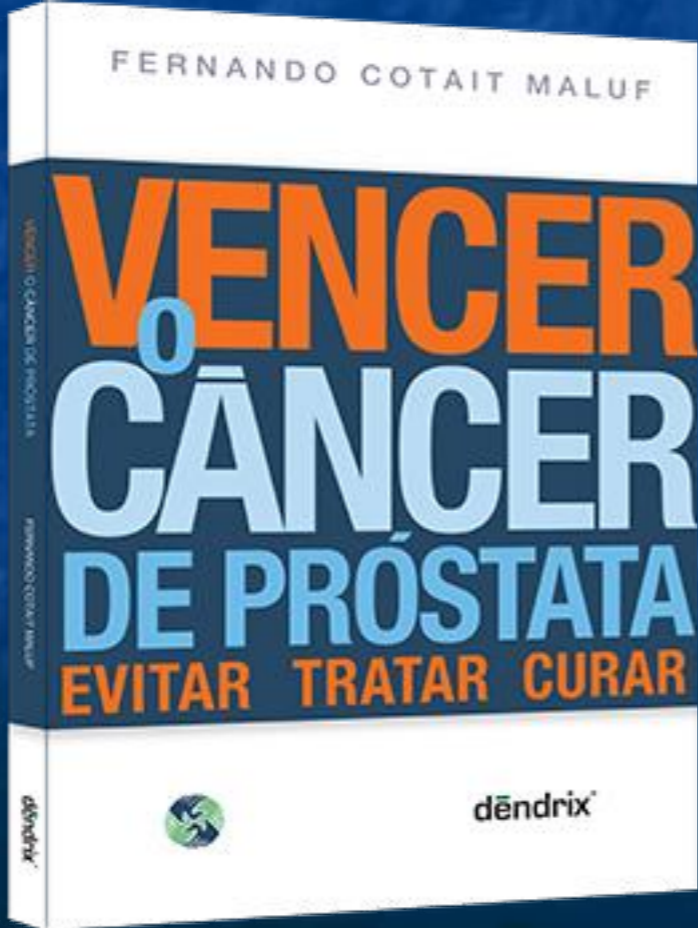
# **NCCN Prostate Cancer Guideline Version 2.2016**

**Version for Latin America - LACOG Panel of Reviewers**

**Meeting 3 March 2016, São Paulo, Brazil**



# Beat the Cancer ! Social Institute





**Thank you !**