

# BRAZIL

## BURDEN OF CANCER

**Total population (2019)**  
**211,049,519**

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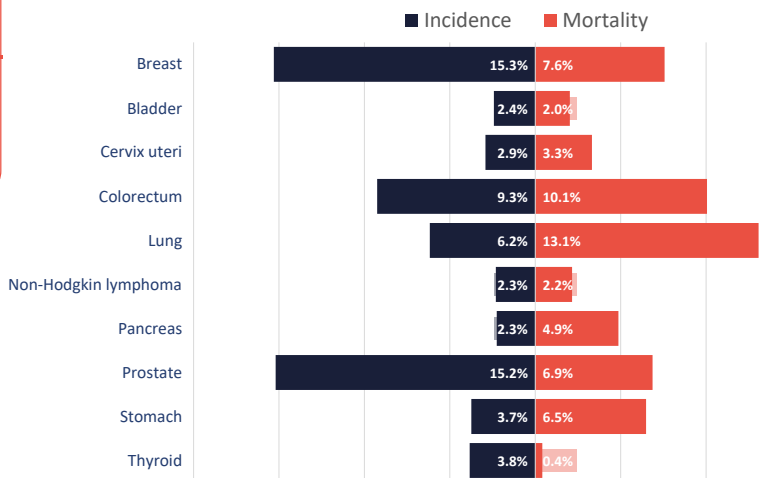
**Total # cancer cases (2018)**  
**559,371**

**Total # cancer deaths (2018)**  
**243,588**

**Premature deaths from NCDs (2016)**  
**416,222**

**Cancer as % of NCD premature deaths (2016)**  
**30.3%**

### Most common cancer cases (2018)



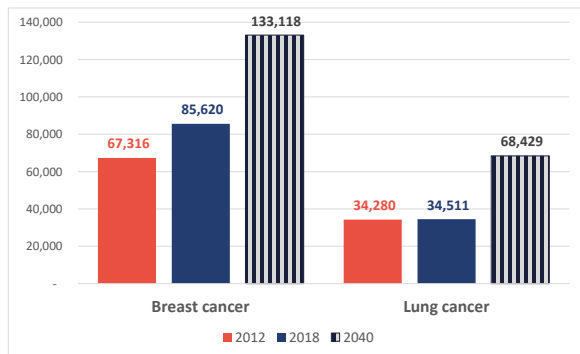
**PAFs (population attributable fractions)**

Factor	Percentage
Tobacco (2017) <sup>a</sup>	21.2%
Alcohol (2016) <sup>a</sup>	8.7%
Infections (2012) <sup>b</sup>	11.1%
Obesity (2012) <sup>b</sup>	3.4%
UV (2012) <sup>c</sup>	55.7%
Occupational risk (2017) <sup>a</sup>	2.4%

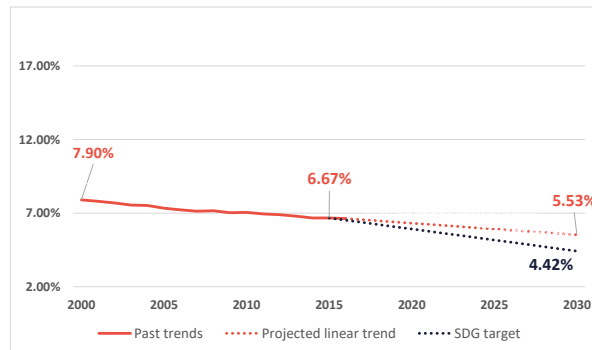
<sup>a</sup> PAF, cancer deaths    <sup>b</sup> PAF, cancer cases    <sup>c</sup> PAF, melanoma cases

## TRENDS

Estimated past and future trends in total cases per year (breast and lung)



Probability of premature death from cancer per year

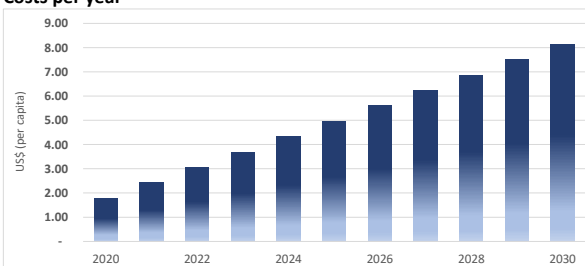


## INVESTMENT CASE (2019)

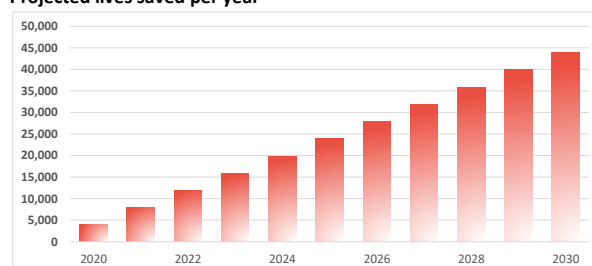
\*Upper middle income

At this income level, investing in a package of essential services and scaling-up coverage will:

Costs per year



Projected lives saved per year



# BRAZIL

## Cancer Country Profile 2020

### HEALTH SYSTEM CAPACITY

<sup>a</sup> per 10,000 cancer patients

Availability of population-based cancer registry (PBCR)**	2019	High quality PBCR
Quality of mortality registration***	2007-2016	High
# of external beam radiotherapy (photon,electron) <sup>a</sup>	2019	6.4
# of mammographs <sup>a</sup>	2020	99.9
# of CT scanners <sup>a</sup>	2020	83.3
# of MRI scanners <sup>a</sup>	2020	57.7
# of PET or PET/CT scanners <sup>a</sup>	2020	2.6

### WORKFORCE

<sup>a</sup> per 10,000 cancer patients

Available staff in Ministry of Health who dedicates significant proportion of their time to cancer	2019	yes
# of radiation oncologist <sup>a</sup>	2019	13.1
# of medical physicist <sup>a</sup>	2019	13.1
# of surgeons <sup>a</sup>	2013	1256.7
# of radiologist <sup>a</sup>	2019	230.0
# of nuclear medicine physician <sup>a</sup>	2019	17.1
# of medical & pathology lab scientists <sup>a</sup>	2017	n/a

### FORMULATING RESPONSE

Integrated NCD plan	2019	operational	# Public cancer centres per 10,000 cancer patients	2019	6.0
NCCP (including cancer types)	2019	operational	Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	4 cancer(s)
MPOWER measures fully implemented and achieved	2018	5	Pathology services	2019	generally available
Cancer management guidelines	2019	yes	Bone marrow transplantation capacity	2019	generally available
Palliative care included in their operational, integrated NCD plan	2019	yes	Palliative care availability: community/home-based care	2019	generally available
# of treatment services (surgery, radiotherapy, chemotherapy)	2019	3	Availability of opioids* for pain management	2015-2017	444
Breast cancer screening program	2019	yes			
Breast cancer screening program: Starting age, target population	2019	50			

\*Defined daily doses for statistical purposes (S-DDD) per million inhabitants per day

### GLOBAL INITIATIVES

#### Elimination of Cervical Cancer

HPV vaccination programme coverage	2018	69.2
Cervical cancer screening	2019	yes
Screening programme type	2019	organised
Screening programme method	2019	PAP smear
Screening participation rates	2019	70% or more
Early detection programme/guidelines	2019	yes
Defined referral system	2019	yes

#### Global Initiative for Childhood Cancer

Annual cancer cases (0-14 years old)	2020	5935
Early detection programme/guidelines	2019	yes
Defined referral system	2019	yes

#### Annual cancer cases (0-14 years old)

