

# EURO (EUROPE REGION)

WHO Cancer Regional Profile 2020

## BURDEN OF CANCER

Total population (2019)

**930'166'700**

Total # cancer cases  
(2018)

**4'573'972**

Total # cancer deaths  
(2018)

**2'144'253**

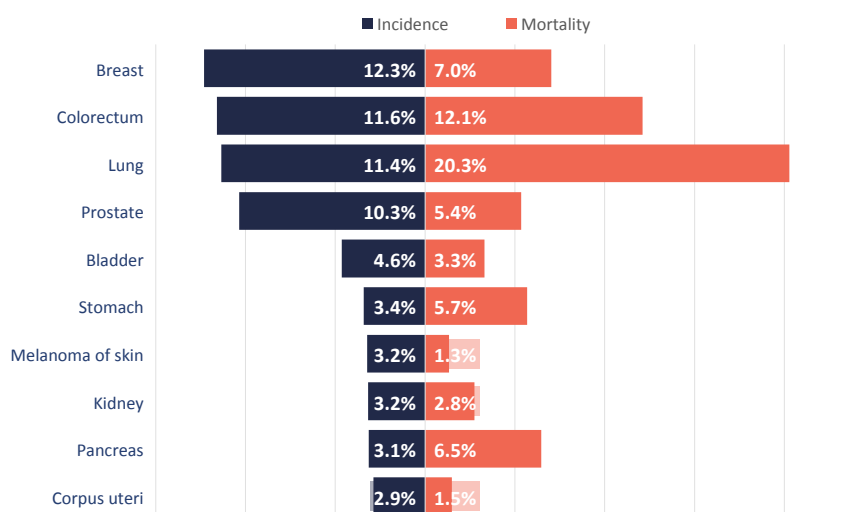
Premature deaths from NCDs (2016)

**2'332'881**

Cancer as % of NCD premature deaths (2016)

**39.7%**

### Most common cancer cases (2018)



### PAFs

(population attributable fractions)

26.9 (median),  
13.3-43.3 (range)

Tobacco (2017)<sup>a</sup>

<sup>a</sup>PAF, cancer deaths

7.9 (median),  
1.5-14.5 (range)

Alcohol (2016)<sup>a</sup>

<sup>b</sup>PAF, cancer cases

7.9 (median),  
3.6-27.0 (range)

Infections (2012)<sup>b</sup>

<sup>c</sup>PAF, melanoma cases

5.5 (median),  
2.2-8.5 (range)

Obesity (2012)<sup>b</sup>

75.6 (median),  
9.7-92.6 (range)

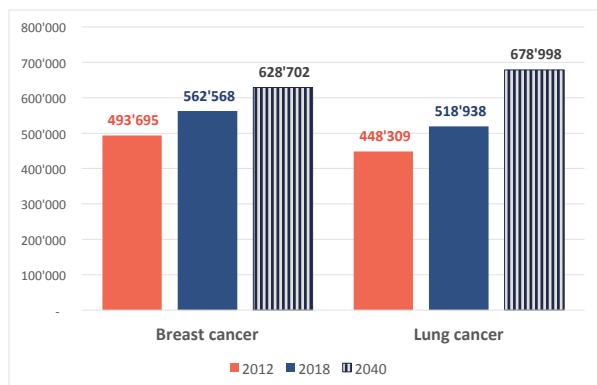
UV (2012)<sup>c</sup>

3.1 (median),  
0.7-10.2 (range)

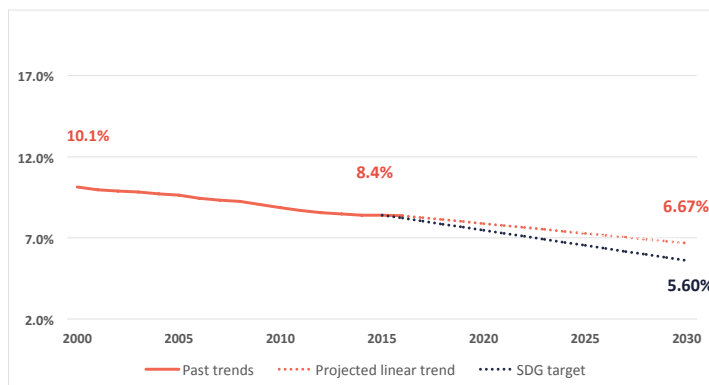
Occupational risk  
(2017)<sup>a</sup>

## TRENDS

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



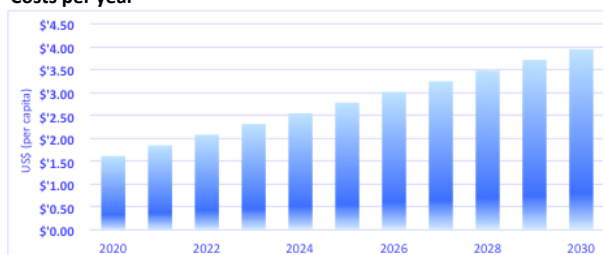
Probability of premature death from cancer per year



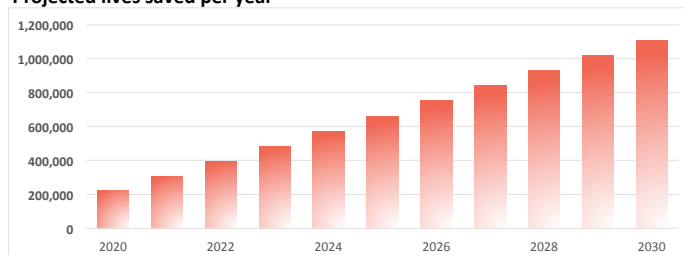
## INVESTMENT CASE (2019)

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

Costs per year



Projected lives saved per year



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## HEALTH SYSTEM CAPACITY

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

Availability of population-based cancer registry (PBCR)**	2019	60% of countries have high-quality PBCR
Quality of mortality registration***	2007-2016	60% of countries have high quality coverage
# of external beam radiotherapy (photon,electron) <sup>a</sup>	2019	8.7 (median), 1.8-17.1 (range)
# of mammographs <sup>a</sup>	2020	28.1 (median), 0-99.3 (range)
# of CT scanners <sup>a</sup>	2020	40.4 (median), 9.5-99.3 (range)
# of MRI scanners <sup>a</sup>	2020	21.6 (median), 7.2-70.8 (range)
# of PET or PET/CT scanners <sup>a</sup>	2020	2.0 (median), 0-10.3 (range)

## 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	91% of countries have MoH staff with dedicated time for cancer
# of radiation oncologist <sup>a</sup>	2019	20.8 (median), 8.4-180.3 (range)
# of medical physicist <sup>a</sup>	2019	22 (median), 1-124 (range)
# of surgeons <sup>a</sup>	2019	848 (median), 191-2,854 (range)
# of radiologist <sup>a</sup>	2019	211 (median), 36-1,502 (range)
# of nuclear medicine physician <sup>a</sup>	2019	15 (median), 0-90 (range)
# of medical & pathology lab scientists <sup>a</sup>	2019	1,013 (median), 46-1,980 (range)

## FORMULATING RESPONSE

Integrated NCD plan	2019	85% of countries have operational integrated NCD plans	# Public cancer centres per 10,000 cancer patients	2019	6.5 (median), 0-251 (range)
NCCP (including cancer types)	2019	75% of countries have operational cancer plan	Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	26% of countries have all 4 cancer early detection programme/guidelines
MPOWER measures fully implemented and achieved	2018	2 (median), 0-5 (range)	Pathology services	2019	98% of countries have generally available pathology services
Cancer management guidelines	2019	85% of countries have cancer guideline	Bone marrow transplantation capacity	2019	68% of countries have generally available BMT
Palliative care plan	2019	55% of countries have operational NCD integrated plan that includes palliative care	Palliative care availability: community/home-based care	2019	74% of countries have generally available palliative care
# of treatment services (surgery, radiotherapy, chemotherapy)	2019	94% of the countries have generally available treatment capacity	Availability of opioids* for pain management	2015-2017	1,883 (median), 6-26,237 (range)
Breast cancer screening program	2019	94% of countries have breast cancer screening	<i>*Defined daily doses for statistical purposes (S-DDD) per million inhabitants per day</i>		
Breast cancer screening program: Starting age, target population	2019	75% of countries adhere to best practices			

## GLOBAL INITIATIVES

### Elimination of Cervical Cancer

HPV vaccination programme coverage	2018	32% of countries have ≥ 50% coverage; 2% have ≥ 90% coverage
Cervical cancer screening	2019	89% of countries have cervical cancer screening programme
Screening programme type	2019	66% of countries have organized, population-based programme
Screening programme method	2019	13% of countries use HPV test as their screening programme method
Screening participation rates	2019	28% of countries have >70% coverage
Early detection programme/guidelines	2019	77% of countries have early detection programme/guidelines
Defined referral system	2019	74% of countries have defined referral system

### Global Initiative for Childhood Cancer

Annual cancer cases (0-14 years old)	2020	28'423
Early detection programme/guidelines	2019	28% of countries have early detection programme/guidelines
Defined referral system	2019	43% of countries have defined referral system

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

