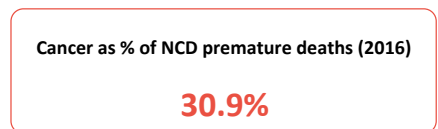
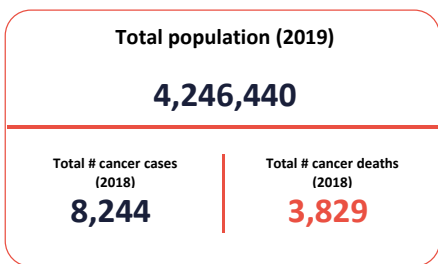
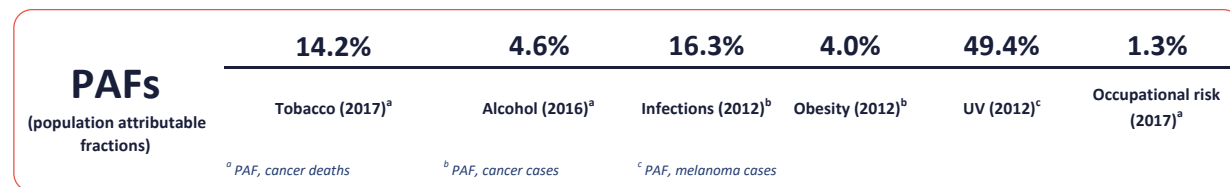
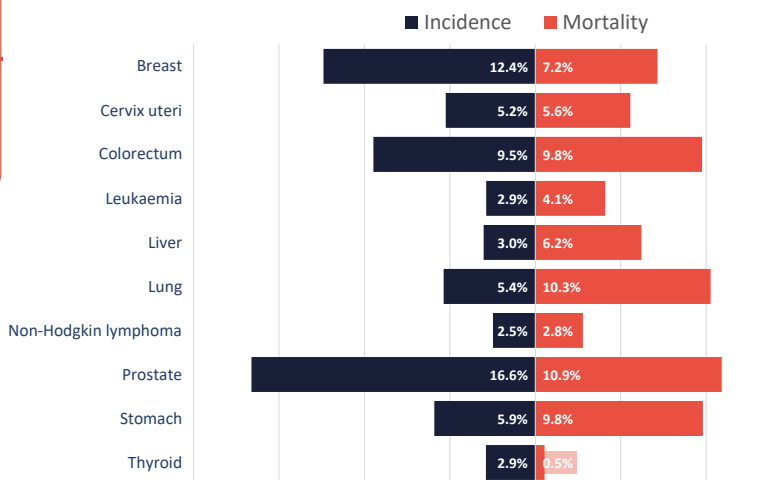


# PANAMA

## BURDEN OF CANCER

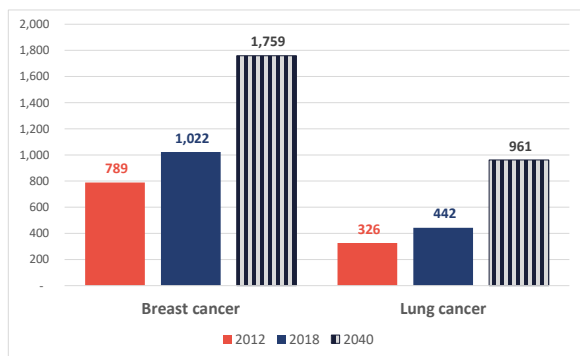


### Most common cancer cases (2018)

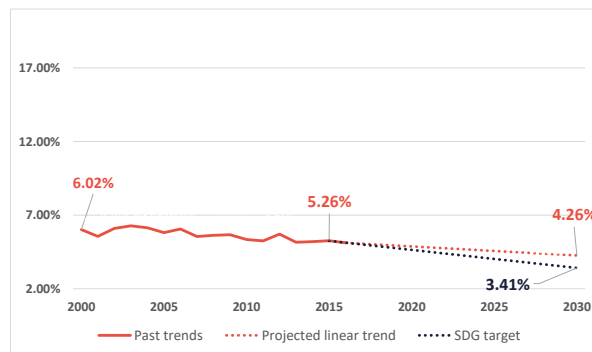


## TRENDS

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



Probability of premature death from cancer per year

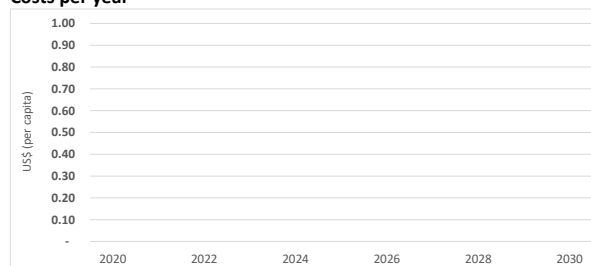


## INVESTMENT CASE (2019)

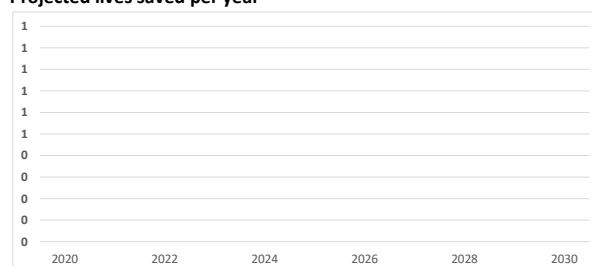
*\*High income*

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

### Costs per year



### Projected lives saved per year



### HEALTH SYSTEM CAPACITY

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

Availability of population-based cancer registry (PBCR)**	2019	PBCR
Quality of mortality registration***	2007-2016	Medium
# of external beam radiotherapy (photon,electron) <sup>a</sup>	2019	9.7
# of mammographs <sup>a</sup>	2020	95.8
# of CT scanners <sup>a</sup>	2020	47.3
# of MRI scanners <sup>a</sup>	2020	14.6
# of PET or PET/CT scanners <sup>a</sup>	2020	2.4

### 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	no
# of radiation oncologist <sup>a</sup>	2019	n/a
# of medical physicist <sup>a</sup>	2019	18.2
# of surgeons <sup>a</sup>	2014	513.1
# of radiologist <sup>a</sup>	2019	198.9
# of nuclear medicine physician <sup>a</sup>	2019	6.1
# of medical & pathology lab scientists <sup>a</sup>	n/a	n/a

### FORMULATING RESPONSE

Integrated NCD plan	2019	operational
NCCP (including cancer types)	2019	operational
MPOWER measures fully implemented and achieved	2018	3
Cancer management guidelines	2019	yes
Palliative care included in their operational, integrated NCD plan	2019	yes
# of treatment services (surgery, radiotherapy, chemotherapy)	2019	3
Breast cancer screening program	2019	yes
Breast cancer screening program: Starting age, target population	2019	40

# Public cancer centres per 10,000 cancer patients	2019	1.2
Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	2 cancer(s)
Pathology services	2019	generally available
Bone marrow transplantation capacity	2019	generally not available
Palliative care availability: community/home-based care	2019	generally available
Availability of opioids* for pain management	2015-2017	354

\*Defined daily doses for statistical purposes (5-DDD) per million inhabitants per day

### GLOBAL INITIATIVES

#### Elimination of Cervical Cancer

HPV vaccination programme coverage	2018	68.5
Cervical cancer screening	2019	yes
Screening programme type	2019	opportunistic
Screening programme method	2019	PAP smear
Screening participation rates	2019	10%-50%
Early detection programme/guidelines	2019	yes
Defined referral system	2019	yes

#### Global Initiative for Childhood Cancer

Annual cancer cases (0-14 years old)	2020	167
Early detection programme/guidelines	2019	no
Defined referral system	2019	yes

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

