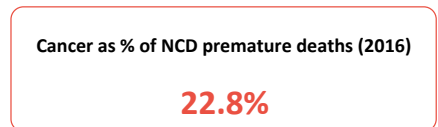
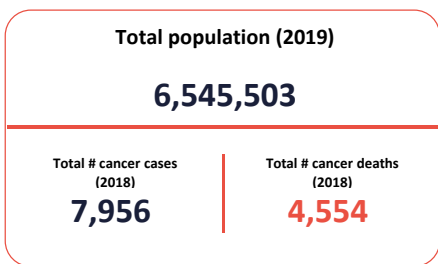
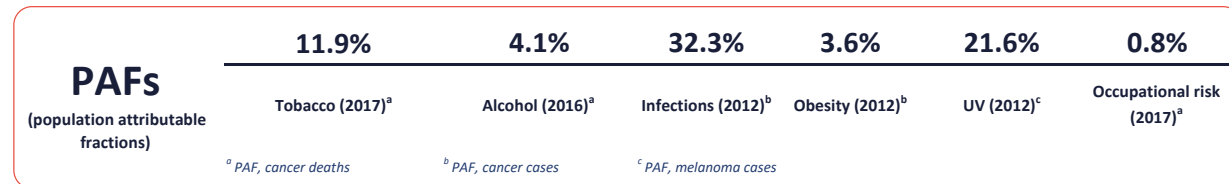
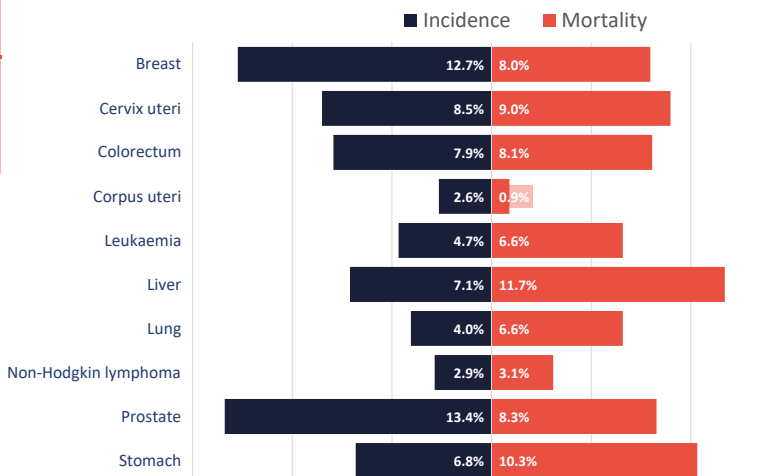


# NICARAGUA

## BURDEN OF CANCER

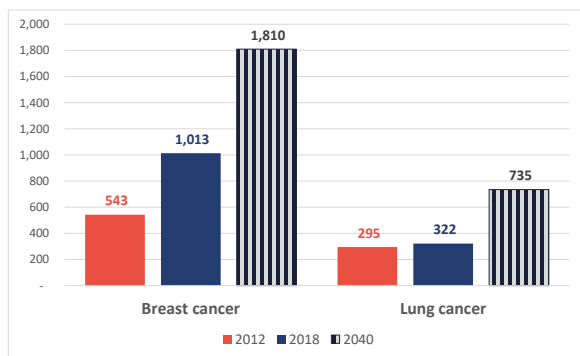


### Most common cancer cases (2018)

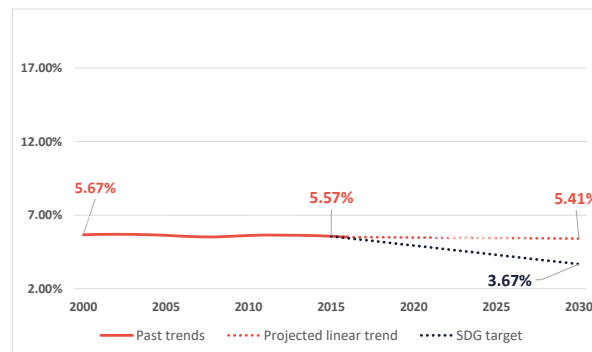


## TRENDS

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



Probability of premature death from cancer per year

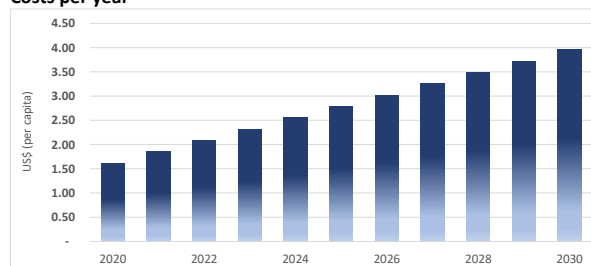


## INVESTMENT CASE (2019)

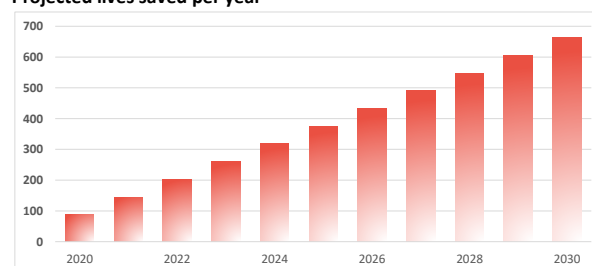
*\*Lower middle income*

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

### Costs per year



### Projected lives saved per year



# NICARAGUA

Cancer Country Profile 2020

## HEALTH SYSTEM CAPACITY

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

Availability of population-based cancer registry (PBCR)**	2019	Registration activity
Quality of mortality registration***	2007-2016	Medium
# of external beam radiotherapy (photon,electron) <sup>a</sup>	2019	3.8
# of mammographs <sup>a</sup>	2020	35.2
# of CT scanners <sup>a</sup>	2020	30.2
# of MRI scanners <sup>a</sup>	2020	15.1
# of PET or PET/CT scanners <sup>a</sup>	2020	0.0

## 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	n/a
# of radiation oncologist <sup>a</sup>	2019	7.5
# of medical physicist <sup>a</sup>	2019	11.3
# of surgeons <sup>a</sup>	2014	658.6
# of radiologist <sup>a</sup>	2019	377.1
# of nuclear medicine physician <sup>a</sup>	2019	2.5
# of medical & pathology lab scientists <sup>a</sup>	2018	n/a

## FORMULATING RESPONSE

Integrated NCD plan	2019	n/a	# Public cancer centres per 10,000 cancer patients	2019	5.0
NCCP (including cancer types)	2019	under development	Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	2 cancer(s)
MPOWER measures fully implemented and achieved	2018	0	Pathology services	2019	generally available
Cancer management guidelines	2019	yes	Bone marrow transplantation capacity	2019	generally not available
Palliative care included in their operational, integrated NCD plan	2019	n/a	Palliative care availability: community/home-based care	2019	generally not available
# of treatment services (surgery, radiotherapy, chemotherapy)	2019	3	Availability of opioids* for pain management	2015-2017	59
Breast cancer screening program	2019	yes			
Breast cancer screening program: Starting age, target population	2019	40			

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

## GLOBAL INITIATIVES

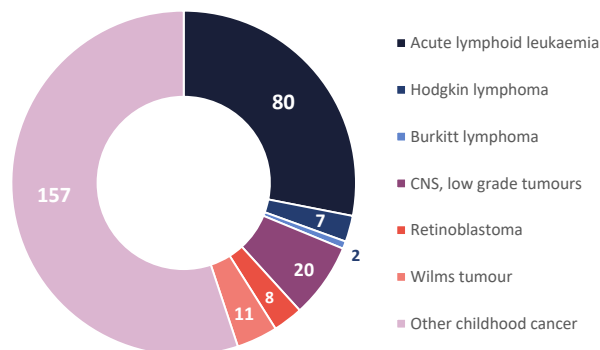
### Elimination of Cervical Cancer

HPV vaccination programme coverage	2018	n/a
Cervical cancer screening	2019	yes
Screening programme type	2019	organised
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	285
Early detection programme/guidelines	2019	yes
Defined referral system	2019	yes

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



\*\*The incidence estimates for this country have a high degree of uncertainty because they are not based on population based cancer registry