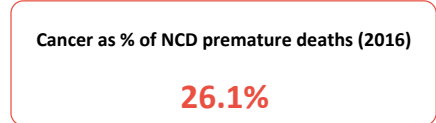
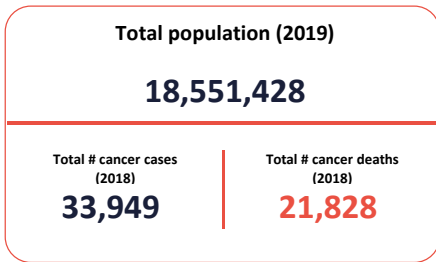


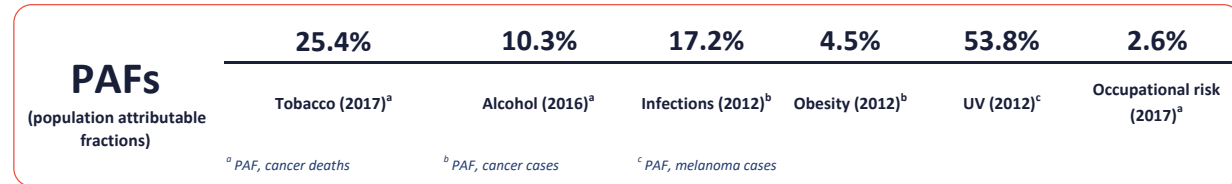
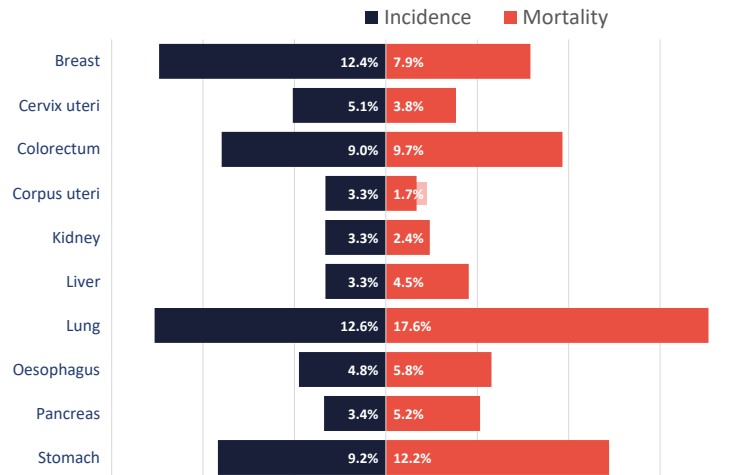
KAZAKHSTAN

Cancer Country Profile 2020

BURDEN OF CANCER

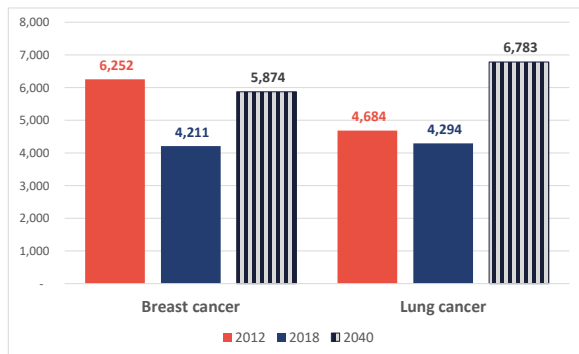


Most common cancer cases (2018)

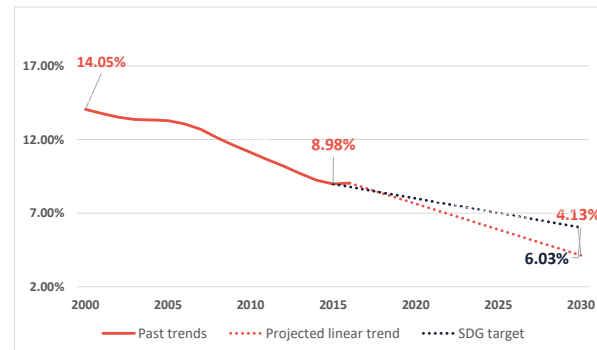


TRENDS

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



Probability of premature death from cancer per year

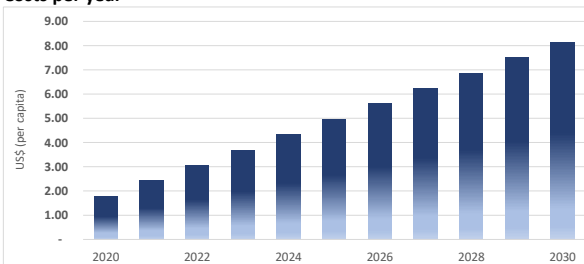


INVESTMENT CASE (2019)

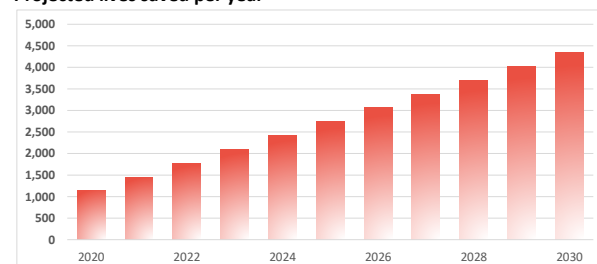
*Upper middle income

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

Costs per year



Projected lives saved per year



KAZAKHSTAN

Cancer Country Profile 2020

HEALTH SYSTEM CAPACITY

^a 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) ^a	2019	13.3
# of mammographs ^a	2020	56.6
# of CT scanners ^a	2020	34.5
# of MRI scanners ^a	2020	17.7
# of PET or PET/CT scanners ^a	2020	0.3

WORKFORCE

^a 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 ^a	2019	n/a
# of medical physicist ^a	2019	1.5
# of surgeons ^a	n/a	n/a
# of radiologist ^a	2019	191.5
# of nuclear medicine physician ^a	2019	n/a
# of medical & pathology lab scientists ^a	n/a	n/a

FORMULATING RESPONSE

Integrated NCD plan	2019	operational
NCCP (including cancer types)	2019	operational
MPOWER measures fully implemented and achieved	2018	1
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	6.2
Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	3 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	37

*Defined daily doses for statistical purposes (S-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	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	586
Early detection programme/guidelines	2019	no
Defined referral system	2019	yes

Annual cancer cases (0-14 years old)

