BAHRAIN

BURDEN OF CANCER

Total population (2019)

1,641,164

Total # cancer cases (2018)	Total # cancer deaths (2018)
1,048	**603**

Premature deaths from NCDs (2016)

1,081

Cancer as % of NCD premature deaths (2016)

27.7%
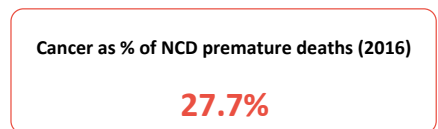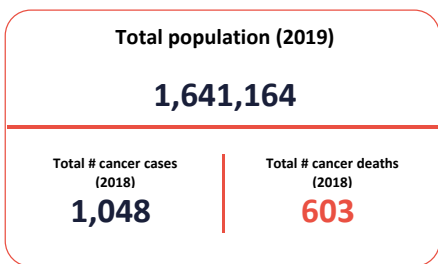
Most common cancer cases (2018)

■ Incidence ■ Mortality

	Incidence	Mortality
Breast	21.7%	11.1%
Bladder	4.5%	4.1%
Colorectum	11.5%	11.6%
Leukaemia	4.8%	6.5%
Lung	7.7%	12.6%
Non-Hodgkin lymphoma	5.8%	3.8%
Ovary	3.3%	4.1%
Prostate	3.7%	2.3%
Thyroid	3.2%	1.8%
Brain, CNS	3.2%	3.6%

PAFs
(population attributable fractions)

	Tobacco (2017)[a]	Alcohol (2016)[a]	Infections (2012)[b]	Obesity (2012)[b]	UV (2012)[c]	Occupational risk (2017)[a]
	15.9%	2.1%	9.7%	5.2%	n/a	3.6%

[a] PAF, cancer deaths [b] PAF, cancer cases [c] PAF, melanoma cases

TRENDS

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

	2012	2018	2040
Breast cancer	177	227	480
Lung cancer	84	81	367

■ 2012 ■ 2018 ▥ 2040
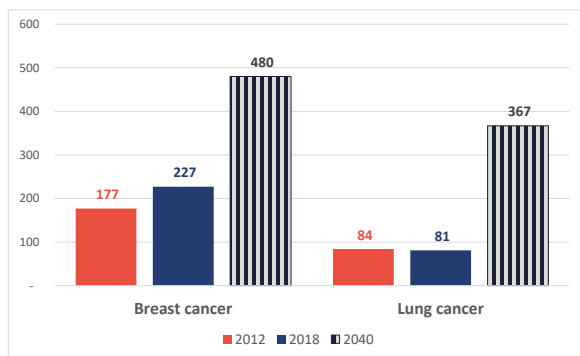
Probability of premature death from cancer per year

5.81%
3.90%
2.59%

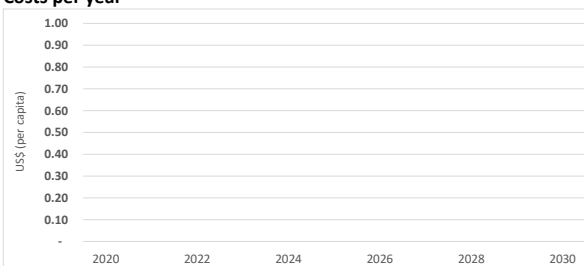— Past trends ····· Projected linear trend ····· SDG target
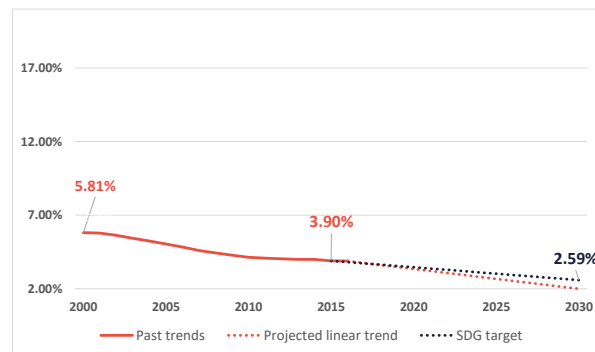
INVESTMENT CASE (2019)

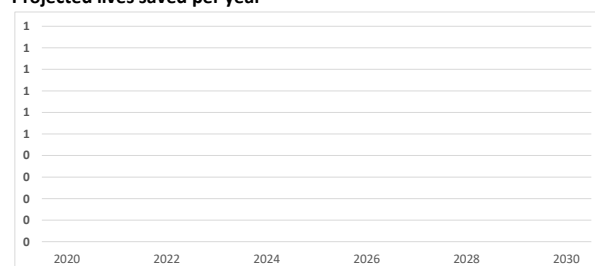*High income*

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

Costs per year

US$ (per capita)

Projected lives saved per year

HEALTH SYSTEM CAPACITY

^a *per 10,000 cancer patients*

Availability of population-based cancer registry (PBCR)**	2019	**High quality PBCR**
Quality of mortality registration***	2007-2016	**Low**
# of external beam radiotherapy (photon,electron)^a	2019	**19.1**
# of mammographs^a	2020	**9.5**
# of CT scanners^a	2020	**162.2**
# of MRI scanners^a	2020	**133.6**
# of PET or PET/CT scanners^a	2020	**9.5**

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	**286.3**
# of surgeons^a	2012	**1917.9**
# of radiologist^a	2019	**n/a**
# of nuclear medicine physician^a	2019	**47.7**
# of medical & pathology lab scientists^a	2015	**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	**19.1**
Early detection programme/ guidelines for 4 cancers (breast, cervix, colon, childhood)	2019	**4 cancer(s)**
Pathology services	2019	**generally available**
Bone marrow transplantation capacity	2019	**generally available**
Palliative care availability: community/home-based care	2019	**generally available**
Availability of opioids* for pain management	2015-2017	**298**

*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	**opportunistic**
Screening programme method	2019	**PAP smear**
Screening participation rates	2019	**<10%**
Early detection programme/guidelines	2019	**yes**
Defined referral system	2019	**yes**

Global Initiative for Childhood Cancer

Annual cancer cases (0-14 years old)	2020	**46**
Early detection programme/guidelines	2019	**yes**
Defined referral system	2019	**yes**

Annual cancer cases (0-14 years old)

- Acute lymphoid leukaemia — 9
- Hodgkin lymphoma — 3
- Burkitt lymphoma — 1
- CNS, low grade tumours — 2
- Retinoblastoma — 2
- Wilms tumour — 3
- Other childhood cancer — 26
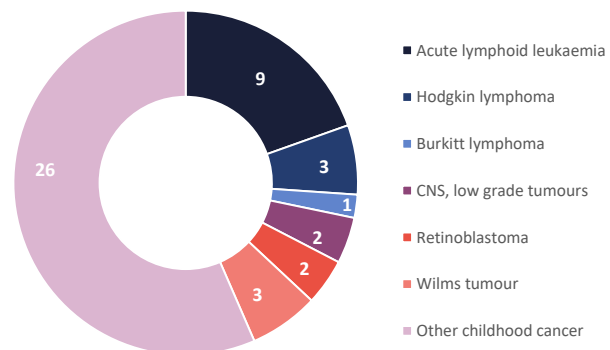
***The mortality estimates for this country have a high degree of uncertainty because they are not based on any national NCD mortality data