LEBANON

BURDEN OF CANCER

Total population (2019)

6,855,709

Total # cancer cases (2018)	Total # cancer deaths (2018)
17,294	**8,976**

**Premature deaths from NCDs (2016)**

10,334

Cancer as % of NCD premature deaths (2016)

27.2%
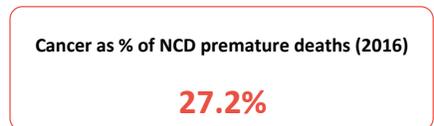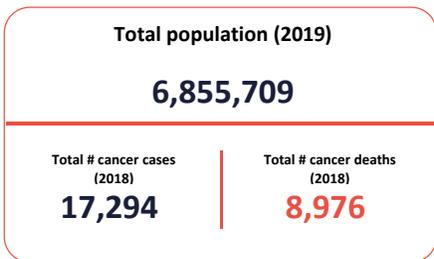
Most common cancer cases (2018)

■ Incidence   ■ Mortality

	Incidence	Mortality
Breast	18.6%	10.2%
Bladder	10.5%	8.4%
Colorectum	8.5%	9.5%
Leukaemia	2.5%	3.2%
Lung	9.5%	16.6%
Non-Hodgkin lymphoma	5.6%	5.0%
Prostate	8.7%	5.7%
Stomach	3.2%	5.3%
Thyroid	2.9%	0.6%
Brain, CNS	2.0%	2.9%

PAFs (population attributable fractions)

	Tobacco (2017)[a]	Alcohol (2016)[a]	Infections (2012)[b]	Obesity (2012)[b]	UV (2012)[c]	Occupational risk (2017)[a]
	24.0%	**1.5%**	**7.3%**	**5.4%**	**19.4%**	**1.4%**

[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)

	Breast cancer	Lung cancer
2012	1,934	897
2018	3,219	1,641
2040	4,609	2,666

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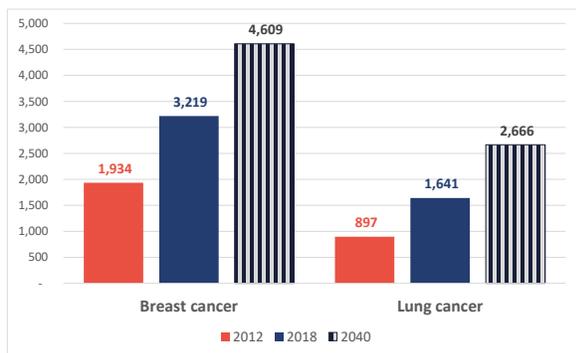
Probability of premature death from cancer per year

7.39% (2000) · 5.53% (2015) · Projected linear trend 3.54% (2030) · SDG target 3.62% (2030)

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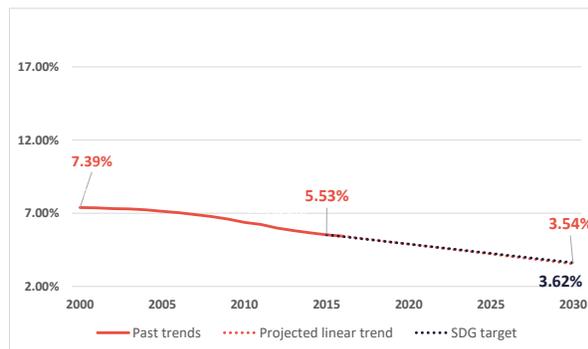
INVESTMENT CASE (2019)

Upper middle income

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

Costs per year

US$ (per capita)
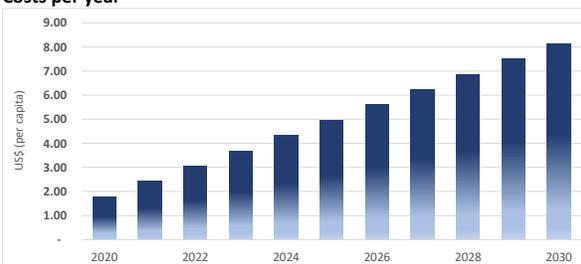
Projected lives saved per year
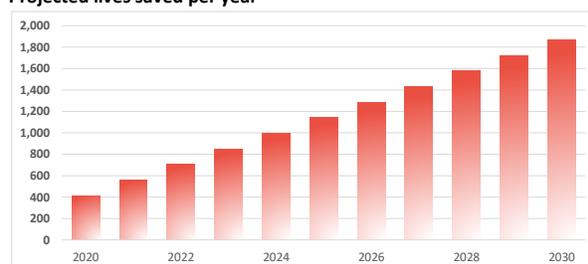
LEBANON

HEALTH SYSTEM CAPACITY

a per 10,000 cancer patients

Availability of population-based cancer registry (PBCR)**	2019	**PBCR**
Quality of mortality registration***	2007-2016	**No coverage**
# of external beam radiotherapy (photon,electron)[a]	2019	**13.3**
# of mammographs[a]	2020	**185.6**
# of CT scanners[a]	2020	**161.9**
# of MRI scanners[a]	2020	**63.6**
# of PET or PET/CT scanners[a]	2020	**9.3**

WORKFORCE

a 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[a]	2019	**n/a**
# of medical physicist[a]	2019	**11.6**
# of surgeons[a]	2014	**1472.8**
# of radiologist[a]	2019	**231.3**
# of nuclear medicine physician[a]	2019	**8.7**
# of medical & pathology lab scientists[a]	2005	**309.4**

FORMULATING RESPONSE

Integrated NCD plan	2019	**operational**
NCCP (including cancer types)	2019	**n/a**
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	**2**
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	**2.9**
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 not available**
Availability of opioids* for pain management	2015-2017	**256**

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	**>50% and <70%**
Early detection programme/guidelines	2019	**yes**
Defined referral system	2019	**yes**

Global Initiative for Childhood Cancer

Annual cancer cases (0-14 years old)	2020	**257**
Early detection programme/guidelines	2019	**no**
Defined referral system	2019	**no**

Annual cancer cases (0-14 years old)

- ■ Acute lymphoid leukaemia — 51
- ■ Hodgkin lymphoma — 17
- ■ Burkitt lymphoma — 7
- ■ CNS, low grade tumours — 13
- ■ Retinoblastoma — 13
- ■ Wilms tumour — 13
- ■ Other childhood cancer — 143
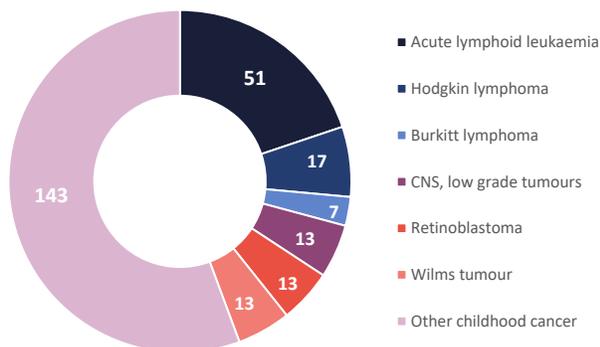
***The mortality estimates for this country have a high degree of uncertainty because they are not based on any national NCD mortality data