**SWEDEN**

**BURDEN OF CANCER**

Total population (2019)

10,036,391

Total # cancer cases (2018)

60,853

Total # cancer deaths (2018)

23,865

Premature deaths from NCDs (2016)

14,043

Cancer as % of NCD premature deaths (2016)

46.5%

**PAFs**

(population attributable fractions)

- Tobacco (2017)
- Alcohol (2016)
- Infections (2012)
- Obesity (2012)
- UV (2012)
- Occupational risk (2017)

<table>
<thead>
<tr>
<th>PAFs</th>
<th>22.9%</th>
<th>6.0%</th>
<th>3.6%</th>
<th>4.5%</th>
<th>91.7%</th>
<th>4.9%</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>PAF, cancer deaths</em></td>
<td></td>
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<tr>
<td><em>PAF, melanoma cases</em></td>
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</tbody>
</table>

**TRENDS**

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Breast cancer</th>
<th>Lung cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>6,624</td>
<td>3,891</td>
</tr>
<tr>
<td>2018</td>
<td>8,017</td>
<td>4,004</td>
</tr>
<tr>
<td>2020</td>
<td>9,390</td>
<td>5,064</td>
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</tbody>
</table>

**PROBABILITY OF PREMATURE DEATH FROM CANCER PER YEAR**

- 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**

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2022</th>
<th>2024</th>
<th>2026</th>
<th>2028</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD (per capita)</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Projected lives saved per year**

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2022</th>
<th>2024</th>
<th>2026</th>
<th>2028</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
HEALTH SYSTEM CAPACITY

- Availability of population-based cancer registry (PBCR)**
  - 2019: High quality PBCR

- Quality of mortality registration***
  - 2007-2016: High

- # of external beam radiotherapy (photon, electron)*
  - 2019: 11.0

- # of mammographs*
  - 2020: 22.7

- # of CT scanners*
  - 2020: 41.6

- # of PET or PET/CT scanners*
  - 2020: 2.6

- # of radiation oncologist*
  - 2019: 109.9

- # of medical physicist*
  - 2019: 49.3

- # of surgeons*
  - 2013: 642.4

- # of radiologist*
  - 2019: 251.0

- # of nuclear medicine physician*
  - 2019: 12.0

- # of medical & pathology lab scientists*
  - n/a

WORKFORCE

- Available staff in Ministry of Health who dedicates significant proportion of their time to cancer
  - 2019: yes

- # of radiation oncologist
  - 2019: 109.9

- # of medical physicist
  - 2019: 49.3

- # of surgeons
  - 2013: 642.4

- # of radiologist
  - 2019: 251.0

- # of nuclear medicine physician
  - 2019: 12.0

- # of medical & pathology lab scientists
  - n/a

FORMULATING RESPONSE

- Integrated NCD plan
  - 2019: operational

- NCCP (including cancer types)
  - 2019: operational

- MPOWER measures fully implemented and achieved
  - 2018: 2

- Cancer management guidelines
  - 2019: yes

- Palliative care included in their operational, integrated NCD plan
  - 2019: no

- # 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: n/a

- 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 available

- Palliative care availability: community/home-based care
  - 2019: generally available

- Availability of opioids* for pain management
  - 2015-2017: 8911

GLOBAL INITIATIVES

Elimination of Cervical Cancer

- HPV vaccination programme coverage
  - 2018: 75

- 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: 287

- Early detection programme/guidelines
  - 2019: don't know

- Defined referral system
  - 2019: don't know