

Planning tools for creating a country cancer picture

Potential data elements for inclusion in a cancer burden assessment

This tipsheet provides examples of the types of data that might be collected and analyzed in a cancer burden study. It is not intended to be exhaustive and there may be other data elements your cancer planning group would like to include. In some cases, the data needed is clearly quantitative in nature (e.g. demographic data or cancer registry reports); for others it may be necessary to gather information in a qualitative form (e.g. from key informant interviews or focus groups). In any case, when data is gathered, an assessment should be made of its reliability for the purpose of drawing conclusions about cancer needs in your country. Decisions will also need to be made about which data items are already available and whether an effort should be made to gather information on those that are not.

Country profiles

I. Demographic and economic data

Country surface (km²):
 Number of inhabitants: % urban.....
 Life expectancy at birth:
 All (years): Male (years): Female (years):
 Population 65 years and over:
 Male (%): Female (%):
 Education:
 Illiterate (%): Secondary (%):
 GDP per capita (Purchasing Power Parities (PPP)):USD
 Total health expenditure (% of GDP):
 Total health expenditure per capita: USD

II. Organization of the health system

Public health expenditure (%): Private (%):
 Health insurance system: % of population covered by:
 National public insurance: Private insurance:
 Mutual (without profit) insurance: Out of pocket:

Human resources

Physicians, density per 100,000 population: %rural:
 Nurses, density per 100,000 population: %rural:
 Midwives, density per 100,000 population: %rural:
 Dentists, density per 100,000 population: %rural:
 Health care workers, density per 100,000 population:

Infrastructure:

Total number of public hospitals: University hospitals:
 Maternity: Rural maternity:
 Regional public hospitals: Local/district public hospitals:
 Private clinics:
 Primary care health centres: Rural primary care centres:
 Family planning centres:

National health programmes

Health development programme (tick): ☐ yes ☐ no

If yes, specify the priorities:

.....
.....

III. Epidemiological data (national level)

A. Mortality

Total crude mortality rate per 100,000:

All: Male: Female:

Maternal mortality ratio (maternal deaths per 100,000 live births):

Under-5 mortality rate per 1,000 :

All: Male: Female:

Mortality rates by causes:

Type of first cause of mortality and (%).from total.....

Cancer mortality

All (%)..... Male (%) : Female (%) :

B. Morbidity

Malnourished children <5 years old (%):

What are the three major health burdens in your country?

.....
.....

Immunization coverage rate/ per 100 population (vaccination)

Polio: BCG:

DTP: Tetanus:

HBV: Other?

Adult (15-49) HIV prevalence rate:.....range:.....

C. Cancer

National mortality cancer rates per 100,000 population

Crude rate male: World standardized rate male:

Crude rate female: World standardized rate female:

National cancer incidence rate / per 100,000 population

Number of cases: male:female:

Crude rate male:World standardized rate male:

Crude rate female:World standardized rate female:

Three most frequent cancers:

Female:.....
.....

Male:.....
.....

Cancer health services

Cancer institutes: Number of units: Number of beds:

Private clinics specialised in cancer: Number of units: Number of beds:

Cancer units: Number of beds:

Cancer training

Number of trained oncologists:

Surgeons: Radiotherapists: Chemotherapists:

Psycho-oncologists:Haematologists:

Others:

Number of trained nurses and midwives:

Number of primary health care workers trained:

Does your country provide specific training in oncology (as a specialisation)?

(tick) ☐ yes ☐ no

If no, where are oncologists usually trained?

.....

.....

Does your country offer fellowships for oncology training outside the country?

(tick) ☐ yes ☐ no

Cancer registries

Do you have a population-based cancer registry? (tick) ☐ yes ☐ no

If yes

- National ☐ yes ☐ no

- Regional ☐ yes ☐ no

how many:

% of population covered by cancer registries:

Do you have hospital-based cancer registries? (tick) ☐ yes ☐ no

If yes, how many:

Is the data centralised? (tick) ☐ yes ☐ no

- Is data available on: (tick)

- Cancer sites ☐ yes ☐ no

- Histological type ☐ yes ☐ no

- Stage at diagnosis ☐ yes ☐ no

- Treatment ☐ yes ☐ no

- Survival ☐ yes ☐ no

Number of specialised services for:

Public sector

Private sector

Radiology unit:

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- Number of mammography machines:

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of tomography, X-ray machines:

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of magnetic resonance imaging machines:

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of scintigraphy machines:

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Cyto-pathology:

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Unit performing cancer surgery:

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Radiotherapy unit:

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- Number of apparatus of cobalt:

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linear accelerator:

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Multidisciplinary treatment units (cancer centre):

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Chemotherapy (whether or not it is associated with surgery and radiotherapy):

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Palliative care unit:

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Pain control unit:

How are cancer medical care services funded?

By public (state) insurance (proportion): % of patients covered

By private insurance (proportion): % of patients covered

By family: % of patients covered

By community ("tontine"): % of patients covered

By micro insurance: % of patients covered

By civil or religious society: % of patients covered

By international aid (proportion): % of patients covered

Other:

Is there a policy for prices of medicines: ☐ yes ☐ no
Availability of medicines (1 = sufficient, 2 = acceptable, 3 = not available)

Public sector

Private sector

Chemotherapy (antineoplastic drug):	<input type="text"/>	<input type="text"/>
Morphine:	<input type="text"/>	<input type="text"/>
Other analgesics:	<input type="text"/>	<input type="text"/>

Organized screening programmes (tick)

Cervical cancer ☐ yes ☐ no Type of test used:

Is the test free? (tick if yes) ☐ or is there a charge? (tick if yes) ☐

Is the test reimbursed? (tick) ☐ yes ☐ no % reimbursed:

By whom: public money? ☐ (tick if yes) and/or private insurance? ☐ (tick if yes)

Breast cancer ☐ yes ☐ no Type of test used:

Is the test free? (tick if yes) ☐ or is there a charge? (tick if yes) ☐

Is the test reimbursed? (tick) ☐ yes ☐ no % reimbursed:

By whom: public money? ☐ (tick if yes) and/or private insurance? ☐ (tick if yes)

Colon cancer ☐ yes ☐ no Type of test used:

Is the test free? (tick if yes) ☐ or is there a charge? (tick if yes) ☐

Is the test reimbursed? (tick) ☐ yes ☐ no % reimbursed:

By whom: public money? ☐ (tick if yes) and/or private insurance? ☐ (tick if yes)

Prostate cancer ☐ yes ☐ no Type of test used:

Is the test free? (tick if yes) ☐ or is there a charge? (tick if yes) ☐

Is the test reimbursed? (tick) ☐ yes ☐ no % reimbursed:

By whom: public money? ☐ (tick if yes) and/or private insurance? ☐ (tick if yes)

☐ **Others** (tick if yes) ☐ if yes, which tumour sites and type of test?

Cancer prevention organized programmes (tick):

Tobacco ☐ yes ☐ no Signature of WHO FCTC ☐ yes ☐ no
Ratification? ☐ yes ☐ no

Alcohol ☐ yes ☐ no

Diet and obesity ☐ yes ☐ no

Sun protection ☐ yes ☐ no

Physical activity ☐ yes ☐ no

Other prevention programmes (specify):

.....

Is there data available on the prevalence of the following risk factors? (tick if yes)

Tobacco ☐ % of male regular smokers:% female: %
all:.....

Alcohol ☐ per capita alcohol consumption among adults (15 years and older) in
litres during a calendar year:

Prevalence of adults (15 years and older) who are obese (%):
Female: Year: |__|__|__|__|
Male:..... Year: |__|__|__|__|

IV. Civil society

Are there NGOs involved in cancer control in the country? (tick) ☐ yes ☐ no
Specify (names and address):

Are there anti-tobacco associations? (tick) ☐ yes ☐ no
Specify (names and address):

Are there other associations dealing with other cancer risks? (tick) ☐ yes ☐ no
Specify (names and address):

Evidence-based Cancer Prevention: Strategies for NGOs. A UICC Handbook for Europe, 2004. http://www.uicc.org/index.php?option=com_content&task=

- **Evidence-based Cancer Prevention: Strategies for NGOs.** A UICC Handbook for Europe, 2004.
http://www.uicc.org/index.php?option=com_content&task=view&id=14242&Itemid=169
- **China cancer database:** <http://cancernet.cicams.ac.cn>
- **National Cancer Registry Programme, India**
<http://www.canceratlasindia.org/>
- **Philippine cancer control programme**
http://jjco.oxfordjournals.org/cgi/reprint/32/suppl_1/S52.pdf

[view&id=14242&Itemid=169](http://www.uicc.org/index.php?option=com_content&task=view&id=14242&Itemid=169)

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