Introduction

During the first phase of the Healthy Cities project, a set of 53 indicators was produced by a working group on Indicators to assist cities in gathering appropriate data to describe health in their cities. These indicators were formally adopted by the project cities participating in the Healthy Cities project in 1990.

Developing appropriate indicators to describe the determinants of health in the cities of different countries is a challenging task. Traditionally, ‘negative’ indicators of health, like mortality, are used to describe health, as they are relatively easy to define and quantify. However, to obtain a comprehensive view of health in the cities it is important to collect information on other ‘qualitative’ indicators like social support. The Healthy Cities Indicators covering areas of health, health services, environmental and socio-economic conditions took the first step in a process of trying to build a set of indicators that could provide a comprehensive picture of health in a city.

Between 1992-1994 data was collected from 47 cities on the 53 indicators. This data was then analysed by a multidisciplinary team of experts\(^1\). The analysis provided important insights in the way indicators are understood by different countries, the extent and availability of data, the reliability and validity of the information provided and the appropriateness of the indicators for international comparisons. Armed with this knowledge, a technical group, set up by the Healthy City Project Office set out to adapt and modify these indicators and develop a second set of indicators to describe health in the cities. Indicators that provided robust, reliable and appropriate data were included in the new set unchanged, some were slightly modified to coincide with standard international indicators. Some indicators were excluded, as the information they provided was not reliable or appropriate. The wording of some of the indicators was changed in order to define them more clearly. The result was a more concise set of 32 indicators.

The development of urban indicators to describe health is an important and complex task. The indicators presented here reflect the lessons learnt from the preliminary efforts in developing such indicators and is another step in the task of building a set of valid and reliable indicators that will provide a comprehensive view of health in cities.

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Dr Premila Webster & Prof Mark McCarthy  
WHO Healthy Cities Technical Working Group on Health and Indicators

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\(^1\) Webster, P. et al., Healthy Cities Indicators: analysis of data from cities across Europe. Copenhagen, WHO 1996.  
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### QUESTIONNAIRE
#### INDICATORS - W.H.O. HEALTHY CITIES

**A1  Mortality: all causes**

<table>
<thead>
<tr>
<th>NAME OF INDICATOR</th>
<th>A1: Mortality : all causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFINITION</td>
<td>Annual mortality rate : all causes, according to age group</td>
</tr>
<tr>
<td>METHOD OF CALCULATION</td>
<td>Number of deaths in each age group x 100,000</td>
</tr>
<tr>
<td></td>
<td>Average population in the same age group</td>
</tr>
</tbody>
</table>

* If different, please state

<table>
<thead>
<tr>
<th>UNIT OF MEASUREMENT</th>
<th>Rate per 100,000</th>
</tr>
</thead>
</table>

* If different, please state

<table>
<thead>
<tr>
<th>VALUE OF THE INDICATOR AND DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>*All ages____________________ rate per age group</td>
</tr>
<tr>
<td>&lt;1  __________________________ 1-14 __________________________</td>
</tr>
<tr>
<td>15-19 __________________________ 20-24 __________________________</td>
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<td>25-29 __________________________ 30-34 __________________________</td>
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<td>45-49 __________________________ 50-54 __________________________</td>
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<td>55-59 __________________________ 60-64 __________________________</td>
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<td>65-69 __________________________ 70-74 __________________________</td>
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<tr>
<td>75-79 __________________________ 80-84 __________________________</td>
</tr>
<tr>
<td>85 and more __________________________</td>
</tr>
</tbody>
</table>

A1.1
A1  Mortality: all causes

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY

DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1  A part of the city  2  The city

3  The city and its suburbs  4  Other

COMMENTS
A2 Cause of Death

NAME OF INDICATOR A2: Cause of Death

DEFINITION Annual mortality rate per cause of death studied
Code refers to international classification of illness,
9th edition (ICD-9)

METHOD OF CALCULATION

No. of annual deaths per case studied according to ICD code
_______________________________________________         x 100,000

Average Population

Example - Disease related to 1 = No. of deaths per year from disease related to 1 (ICD 390-459)

* If different, please state

UNIT OF MEASUREMENT Rate per 100,000

* If different, please state

VALUE OF THE INDICATOR
AND DESCRIPTION

<table>
<thead>
<tr>
<th>Cause of death:</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>disease related to circulation (390-459)</td>
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</tr>
<tr>
<td>ischaemic cardiopathies (410-414)</td>
<td></td>
</tr>
<tr>
<td>vascular cerebral diseases (430-438)</td>
<td></td>
</tr>
<tr>
<td>respiratory diseases (460-519)</td>
<td></td>
</tr>
<tr>
<td>cancer of buccal cavity, pharynx and larynx (140-149)</td>
<td></td>
</tr>
<tr>
<td>lung and bronchial cancer (160-165)</td>
<td></td>
</tr>
<tr>
<td>cervical cancer (180)</td>
<td></td>
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<tr>
<td>breast cancer (174)</td>
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</tr>
<tr>
<td>trauma and intoxication</td>
<td></td>
</tr>
<tr>
<td>toad accidents (E810-E819 et E826-E829)</td>
<td></td>
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<tr>
<td>suicide (E950-E959)</td>
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<tr>
<td>AIDS</td>
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A2.1
### A2  Cause of death

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</tr>
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<tbody>
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<tr>
<td>PERIOD OF COLLECTION</td>
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**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>A part of the city</td>
<td>The city</td>
<td>The city and its suburbs</td>
<td>Other</td>
</tr>
</tbody>
</table>

**COMMENTS**
A3  Low birth weight

NAME OF INDICATOR  
A3: Low birth weight

DEFINITION  
Percentage of children weighing 2.5 kg or less than 2.5 kg at birth

METHOD OF CALCULATION  
Number of children weighing 2.5 kg or less at birth

\[ \frac{\text{Number of children weighing 2.5 kg or less at birth}}{\text{Number of live births}} \]

* If different, please state

UNIT OF MEASUREMENT  
Rate per 100,000

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
A3  Low birth weight

FREQUENCY DESIRED  Yearly
ACTUAL FREQUENCY  DATE
PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED
1  A part of the city  2  The city
3  The city and its suburbs  4  Other

COMMENTS
B1  Existence of a city health education programme

NAME OF INDICATOR  B1: Existence of a city health education programme

DEFINITION  Health education programmes are made up of one or several projects which aim to improve knowledge, assistance and services to individuals for developing and maintaining a healthy way of life.

Indicate programmes which have been fully or partly financed or assisted by the city in the following areas:
1. tobacco  2. alcohol  3. nutrition  4. drugs  5. accidents  6. other

METHOD OF CALCULATION  For each topic answer YES if a health education programme exists and specify the number of projects included in the programme and the topics concerned, e.g. leisure, smoking, diet, sexuality, drugs, alcohol, driving, medicine, safety in the home etc. Please also describe the population target groups e.g. youth, elderly.

Answer NO if there is no such programme

*  If different, please state

UNIT OF MEASUREMENT  Number of projects

Level of funding as a percentage of budget relative to the city

*  If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
### B1 Existence of a city health education programme

**FREQUENCY DESIRED**  
Yearly

**ACTUAL FREQUENCY**

**DATE**

**PERIOD OF COLLECTION**

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

<table>
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<th>Description</th>
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<td>2</td>
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<td>3</td>
<td>The city and its suburbs</td>
<td>4</td>
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</table>

**COMMENTS**

B1.2
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

B2 Percentage of children fully immunized

NAME OF INDICATOR
B2: Percentage of children fully immunized (having received all compulsory vaccinations)

DEFINITION
1. Indicate the type of vaccine cover given by the age of six for each compulsory vaccination. The list of compulsory vaccinations may be different in each country. Each city should give information on the rules in force in the country; e.g. infections and illnesses for which the public health authorities usually demand a compulsory vaccination: measles, polio, tetanus, rubella, diphtheria.

2. Percentage of infants who by their first birthday have been immunized against diphtheria/pertussis/tetanus (3 doses), poliomyelitis (3 doses), measles (1 dose) and where required by law, tuberculosis (BCG, 1 dose).

3. Proportion of children immunized against measles before their second birthday, where the country schedule prescribes such immunization.

4. If children are immunized against rubella and haemophilus influenza (in your city) please provide appropriate percentages.

METHOD OF CALCULATION
Children (specify age group) having received all compulsory vaccinations living in the area
_________________________________________________  x  100
Number of children (in the same age group) living in the same area

NB The numerator must indicate the number of vaccinated children and not the number of vaccines distributed
NB If it is not possible to give direct information, give an estimate based on the most reliable data

UNIT OF MEASUREMENT
List the compulsory immunization
Percentage fully immunized

VALUE OF THE INDICATOR
AND DESCRIPTION

B2.1
B2  Percentage of children fully immunized

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY  DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED  1  A part of the city  2  The city
  3  The city and its suburbs  4  Other

COMMENTS
B3  Number of inhabitants per practising primary health care practitioner

NAME OF INDICATOR  B3: Number of inhabitants per practising primary health care practitioner

DEFINITION  1. Doctors who carry out their activity in the field of primary care. Several countries keep a register/list of doctors working in a given area.

2. Nurses who carry out their activity in the field of primary health care.

3. Other primary health care practitioners (specify)

METHOD OF CALCULATION  Inhabitants living in the area

Number of doctors providing primary health care working in the area (if possible number of full time equivalent practitioners)

* If different, please state

UNIT OF MEASUREMENT  Number

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
B3 Number of inhabitants per practising primary health care practitioner

<table>
<thead>
<tr>
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ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1 A part of the city
2 The city
3 The city and its suburbs
4 Other

COMMENTS

B3.2
NAME OF INDICATOR

B4: Number of inhabitants per nurse

DEFINITION

1. Nurses to be included are those working in the areas(s) concerned, wherever they work (primary health or first aid services either in general or specialist fields e.g. midwifery and paediatrics/mental health/elderly people, etc.; either general or specialised hospitals, clinics, homes for the elderly, reception centres, etc.

2. Midwives working in hospitals

3. Mental health nurses in hospitals

METHOD OF CALCULATION

Inhabitants living in the area

Number of full-time equivalent nurses working in the area

* If different, please state

UNIT OF MEASUREMENT

Inhabitants / resource

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
## B4 Number of inhabitants per nurse

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<td>ORGANIZATION OR DEPARTMENT</td>
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<td>3 The city and its suburbs</td>
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<tr>
<td>COMMENTS</td>
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</tbody>
</table>
**B5 Percentage of population covered by health insurance**

**NAME OF INDICATOR**

B5 Percentage of population covered by health insurance

**DEFINITION**

Indicate people who have health insurance, if possible, by type (public or private), etc.

i.e. 1. % of the population covered by public insurance funds
2. % of population covered by private insurance funds

**METHOD OF CALCULATION**

Inhabitants living in the area covered by health insurance (complete or partial coverage)  
\[
\frac{\text{Inhabitants living in the area covered by health insurance}}{\text{Number of inhabitants living in the area}} \times 100
\]

Number of inhabitants living in the area

* If different, please state

**UNIT OF MEASUREMENT**

Percentage

Please also describe the insurance system(s)

* If different, please state

**VALUE OF THE INDICATOR AND DESCRIPTION**


B5.1
### B5 Percentage of population covered by health insurance

<table>
<thead>
<tr>
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**PERIOD OF COLLECTION**

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

1. A part of the city
2. The city
3. The city and its suburbs
4. Other

**COMMENTS**
B6 Availability of primary health care services in foreign languages

NAME OF INDICATOR  
B6: Availability of primary health care services in foreign languages

DEFINITION  
Indicate the availability of primary health care services where ethnic minority languages which are significantly representative in the city are spoken, or interpreters in the languages are available. If interpreters are available indicate:

1. if they are employed by the service specifically for interpreting
2. the availability of the interpreters all health carers i.e. available any times or

only at specific times and services

METHOD OF CALCULATION  
Description of significant language groups and types of primary care services offered in the languages

UNIT OF MEASUREMENT  
Percentage (description services where a foreign language is either spoken or facilitates for interpretation available) (Number of services)

VALUE OF THE INDICATOR AND DESCRIPTION  

B6.1
**B6 Availability of primary health care services in foreign languages**

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
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**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

- **1** A part of the city
- **2** The city
- **3** The city and its suburbs
- **4** Other

**COMMENTS**

B6.2
**NAME OF INDICATOR**  
B7: Number of health related questions examined by the city council every year

**DEFINITION**  
“Health related questions” are those asked directly by the elected representatives of health, social and environmental services/departments. Those questions asked by the elected representatives of other services/departments which gave rise to discussions by the city council on health, social and environmental aspects should also be listed.

1. Number of meetings organized by the city’s elected representatives dealing with matters related to health  
2. Health related questions raised by the city’s elected representatives  
   (a) directly with departments of health/social services and environment.  
   (b) at the assembly of elected members which have resulted in a discussion or debate

**METHOD OF CALCULATION**  
Specify the number for 1 and for 2 subdivided into the two categories

* If different, please state

**UNIT OF MEASUREMENT**  
Number of events

* If different, please state

**VALUE OF THE INDICATOR AND DESCRIPTION**

B7.1
### B7 Number of health related questions examined by the city council every year

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
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<td>ORGANIZATION OR DEPARTMENT</td>
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<tr>
<td>POPULATION CONCERNED</td>
<td>1 A part of the city, 2 The city, 3 The city and its suburbs, 4 Other</td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
</tr>
</tbody>
</table>
C1 Atmospheric pollution

NAME OF INDICATOR  C1: Atmospheric pollution

DEFINITION  This indicator should allow the air quality in cities to be assessed. Each of the following atmospheric pollutants should be evaluated independently: NO₂, CO, O₃, SO₂, Dust, Black smoke, Lead

Indicate:  1. Number of monitoring stations
           2. Annual mean for each pollutant

METHOD OF CALCULATION  Percentages should be given as follows:

For SO₂, Dust and Lead: Number of days per year above the limit divided by the total number of days per year when validated measurements were taken.

For NO₂, CO and O₃: Number of hours per year above the limit divided by the total number of hours per year when validated measurements were taken (The air quality standards fixed by the W.H.O. are given in the appendix)

If possible also include:

1. No. of hours per year in which the average hourly concentration of suspended particulate matter or SO₂ exceeds 250/mg/m³ at air quality monitoring stations
2. No. of hours per year in which the average hourly concentration of ozone exceeds 200/ng/m³ at air quality monitoring stations

* If different, please state

UNIT OF MEASUREMENT  The result will be given in percentage per year for each of the above mentioned pollutants

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

C1.1
## C1 Atmospheric pollution

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
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<tbody>
<tr>
<td>1 A part of the city</td>
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<tr>
<td>2 The city</td>
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<tr>
<td>3 The city and its suburbs</td>
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<tr>
<td>4 Other</td>
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</table>

<table>
<thead>
<tr>
<th>COMMENTS</th>
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</table>

C1.2
C2 Water quality

NAME OF INDICATOR C2: Water quality

DEFINITION Percentage of measurements exceeding the recommended WHO guidelines

METHOD OF CALCULATION The rate at which the WHO guidelines are exceeded should be given for each of the parameters.

The rate is represented by:

\[
\frac{\text{Number of measurements exceeding the WHO guidelines}}{\text{Total number of measurements carried out}}
\]

UNIT OF MEASUREMENT The result will give the total number of measurements and the percentage of measurements exceeding the recommended guidelines

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

* If different, please state

C2.1
C2  Water quality

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY

DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1  A part of the city  2  The city

3  The city and its suburbs  4  Other

COMMENTS
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

C3  Percentage of water pollutants removed from total sewage produced

NAME OF INDICATOR  C3: Percentage of water pollutants removed from total sewage produced

DEFINITION  This indicator aims to show the quality of water purification before disposal

Please also provide information on:
(1) details of waste water treatment
(2) testing requirements

METHOD OF CALCULATION  Calculate the level of water pollutants removed for all effluents discharged. Level of link-up to network x Purification station efficiency level x Unit network or waste water overflow level x 100.

* If different, please state

UNIT OF MEASUREMENT  Percentage

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

C3.1
### C3 Percentage of water pollutants removed from total sewage produced

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
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</thead>
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</table>

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

1. A part of the city
2. The city
3. The city and its suburbs
4. Other

**COMMENTS**

C3.2
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

C4 Household waste collection quality index

NAME OF INDICATOR C4: Household waste collection quality index

DEFINITION This indicator should show the quality of the collection in relation to the types of collecting systems used.

If possible also include details on:
1. quantity and composition of waste collected
2. proportion of waste materials recycled
3. proportion of waste not collected or illegally dumped

METHOD OF CALCULATION The result will be given as a single figure or several figures according to the system(s) used:
Categories are as follows:
0 : loose
1 : in plastic bags
2 : in a sealed container
3 : voluntary selective collection
4 : home selective collection

* If different, please state

UNIT OF MEASUREMENT Percentage for each category e.g. (1) 40% - (2) 60%

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
C4 Household waste collection quality index

FREQUENCY DESIRED Yearly

ACTUAL FREQUENCY DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1 A part of the city
2 The city
3 The city and its suburbs
4 Other

COMMENTS
C5 Household waste treatment quality index

NAME OF INDICATOR C5: Household waste treatment quality index

DEFINITION This index should give the type and percentage of treatment used for household waste by cities.

\[
\text{Rough landfill} \times 100 \\
\text{Total waste treatment}
\]

METHOD OF CALCULATION Using the indicators below, choose those which correspond to the treatment of waste presently used in your city

0 : rough landfill
1 : sanitary landfill
2 : incineration without heat recovery
3 : incineration with heat recovery
4 : composting
5 : sorting centre, recycling

* If different, please state

UNIT OF MEASUREMENT Percentage for each category e.g. (0) 20% - (2) 80%

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
C5 Household waste treatment quality index

FREQUENCY DESIRED Yearly

ACTUAL FREQUENCY DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1 A part of the city
2 The city
3 The city and its suburbs
4 Other

COMMENTS

C5.2
### QUESTIONNAIRE
#### INDICATORS - W.H.O. HEALTHY CITIES

**C6 Relative surface area of green spaces in the city**

<table>
<thead>
<tr>
<th>NAME OF INDICATOR</th>
<th>C6: Relative surface area of green spaces in the city</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFINITION</td>
<td>This indicator gives an idea of vegetation in the city and is based on the percentage of the surface area of green spaces relative to the surface area of the city. Please categorise under following headings 1. public park 2. private domestic gardens used for food rowing 3. unmanaged areas that may be wild vegetation or wild life havens</td>
</tr>
</tbody>
</table>
| METHOD OF CALCULATION | Total surface area of green spaces in the city  
\[
\frac{\text{Total surface area of green spaces in the city}}{\text{Total surface area of the city}}
\] |
| UNIT OF MEASUREMENT | Percentage |
| VALUE OF THE INDICATOR AND DESCRIPTION | |

* If different, please state

C6.1
### C6 Relative surface area of green spaces in the city

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
<th>ACTUAL FREQUENCY</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERIOD OF COLLECTION</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ORIGIN OF DATA

### CORRESPONDENT

### ORGANIZATION OR DEPARTMENT

### POPULATION CONCERNED

- **1** A part of the city
- **2** The city
- **3** The city and its suburbs
- **4** Other

### COMMENTS
C7 Public access to green spaces

NAME OF INDICATOR        C7: Public access to green spaces

DEFINITION            This indicator allows the surface area of green spaces per inhabitant to be open to the public

Has a land use survey been carried out in the city? If so, please give details of survey with regards to public access to green spaces.

METHOD OF CALCULATION  Total number of $m^2$ of green spaces with public access

________________________________________________________________________

Number of inhabitants

* If different, please state

UNIT OF MEASUREMENT

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
## C7  Public access to green spaces

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL FREQUENCY DATE</td>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

### ORIGIN OF DATA

### CORRESPONDENT

### ORGANIZATION OR DEPARTMENT

### POPULATION CONCERNED

- 1  A part of the city
- 2  The city
- 3  The city and its suburbs
- 4  Other

### COMMENTS

C7.2
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

C8  Derelict industrial sites

NAME OF INDICATOR  C8: Derelict industrial sites

DEFINITION  Percentage of derelict industrial sites compared to the total surface area of the city

Derelict industrial sites include sites which were formerly used as factories, etc., but now have been shut down and the area remains unused and undeveloped for any other purpose.

METHOD OF CALCULATION

\[
\text{Surface area of derelict industrial sites} \quad \frac{\text{______________}}{\text{Total surface area of the city}} \times 100
\]

UNIT OF MEASUREMENT  Percentage

VALUE OF THE INDICATOR AND DESCRIPTION
## C8 Derelict industrial sites

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
</tr>
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<tbody>
<tr>
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<td>DATE</td>
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</table>

### ORIGIN OF DATA

### CORRESPONDENT

### ORGANIZATION OR DEPARTMENT

### POPULATION CONCERNED

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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<tbody>
<tr>
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<td>3</td>
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</tr>
<tr>
<td>4</td>
<td>Other</td>
</tr>
</tbody>
</table>

### COMMENTS

C8.2
C9    Sport and leisure

NAME OF INDICATOR    C9: Sport and leisure

DEFINITION    Number of sports facilities per 1000 inhabitants

If possible, include details of the age structure and gender of the people who use these facilities

METHOD OF CALCULATION    Sports facilities include:

Sports halls, sports fields, swimming pools, fitness trails, sports tracks, etc.

A sports complex is broken down into halls, fields, etc.

Total number of sports facilities _______________________________ x 100

Total population

* If different, please state

UNIT OF MEASUREMENT    Number per 1000

* If different, please state

VALUE OF THE INDICATOR

AND DESCRIPTION
C9  Sport and leisure

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY

DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED

1  A part of the city
2  The city
3  The city and its suburbs
4  Other

COMMENTS
C10 Pedestrian streets

NAME OF INDICATOR C10: Pedestrian streets

DEFINITION This indicator shows the importance accorded to pedestrian streets. Pedestrian streets are defined as streets entirely used for pedestrians from which all vehicular traffic is banned.

METHOD OF CALCULATION Total length of pedestrian streets

\[
\frac{\text{Total length of pedestrian streets}}{\text{Surface area of city}}
\]

* If different, please state

UNIT OF MEASUREMENT Km/Km²

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
## C10 Pedestrian streets

<table>
<thead>
<tr>
<th>Frequency Desired</th>
<th>Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Actual Frequency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Period of Collection</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Origin of Data**

**Correspondent**

**Organization or Department**

**Population Concerned**

1. A part of the city
2. The city
3. The city and its suburbs
4. Other

**Comments**
C11  Cycling in city

NAME OF INDICATOR  C11: Cycling in city

DEFINITION  This indicator shows the importance accorded to cycle paths

Cycle paths are defined as paths in streets marked out to be used exclusively by cycles

METHOD OF CALCULATION  Total length of paths reserved for cyclists

__________________________________

Surface area of city

*  If different, please state

UNIT OF MEASUREMENT  Km / Km²

*  If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
C11  Cycling in city

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY

DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED  
1 A part of the city  2 The city
3 The city and its suburbs  4 Other

COMMENTS
C12 Public Transport

NAME OF INDICATOR C12: Public Transport

DEFINITION Number of seats on public transport per 1000 inhabitants (also include standing room)

If possible also give details on
(1) frequency and reliability of the public transport
(2) approximate cost per 10 km travelled on public transport against the cost to travel a similar distance in a private car

METHOD OF CALCULATION Average daily number of seats

\[
\frac{\text{Average daily number of seats}}{\text{Total population}} \times 100
\]

* If different, please state

UNIT OF MEASUREMENT Seats per 1000 people

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

C12.1
## C12  Public Transport

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL FREQUENCY DATE</td>
<td></td>
</tr>
<tr>
<td>PERIOD OF COLLECTION</td>
<td></td>
</tr>
</tbody>
</table>

### ORIGIN OF DATA

- [ ] 1. A part of the city
- [ ] 2. The city
- [ ] 3. The city and its suburbs
- [ ] 4. Other

### CORRESPONDENT


### ORGANIZATION OR DEPARTMENT


### POPULATION CONCERNED


### COMMENTS


C12.2
C13  Public transport network cover

NAME OF INDICATOR  C13: Public transport network cover

DEFINITION  Number of kilometres served by public transport compared to the total number of kilometres of streets in the city

Include information on the proportion of people who use public and those who use private transport.

METHOD OF CALCULATION  Total number of kilometres served by public transport

\[
\frac{\text{Total number of kilometres served by public transport}}{\text{Total number of kilometres of streets}} \times 100
\]

* If different, please state

UNIT OF MEASUREMENT  Percentage

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

C13.1
### C13 Public transport network cover

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
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</tr>
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<tbody>
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</table>

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

- 1. A part of the city
- 2. The city
- 3. The city and its suburbs
- 4. Other

**COMMENTS**
C14  Living space

NAME OF INDICATOR  C14: Living space

DEFINITION  Average number of rooms per inhabitant
The rooms are counted if they have a distinct purpose or if they are >4m²
(e.g. kitchen, dining room, bedrooms, etc.) bathrooms, laundry rooms,
hallways, etc., are not counted as rooms

METHOD OF CALCULATION  Total number of rooms
_____________________
Number of inhabitants

* If different, please state

UNIT OF MEASUREMENT  Number of rooms per inhabitant

* If different, please state

VALUE OF THE INDICATOR
AND DESCRIPTION
<table>
<thead>
<tr>
<th>POPULATION CONCERNED</th>
<th>1</th>
<th>A part of the city</th>
<th>2</th>
<th>The city</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>The city and its suburbs</td>
<td>4</td>
<td>Other</td>
</tr>
</tbody>
</table>
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

D1 Percentage of population living in substandard accommodation

NAME OF INDICATOR D1: Percentage of population living in substandard accommodation

DEFINITION The percentage of population living in substandard housing conditions, that is to say accommodation which does not fulfil the following requirements:
  . exclusive use of toilet and bath or shower
  . tap water inside the dwelling

METHOD OF CALCULATION Preliminary

. number of homes which do not comply with the criteria
. number of inhabitants in these homes

Number of inhabitants living in substandard housing conditions in the area
________________________________________________ x 100
Number of inhabitants in the area

* If different, please state

UNIT OF MEASUREMENT

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

D1.1
### D1 Percentage of population living in substandard accommodation

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>5 Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL FREQUENCY</td>
<td>DATE</td>
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<td>PERIOD OF COLLECTION</td>
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</table>

#### ORIGIN OF DATA

<table>
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</table>

#### ORGANIZATION OR DEPARTMENT

<table>
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<tr>
<th>POPULATION CONCERNED</th>
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</thead>
<tbody>
<tr>
<td>1 A part of the city</td>
</tr>
<tr>
<td>2 The city</td>
</tr>
<tr>
<td>3 The city and its suburbs</td>
</tr>
<tr>
<td>4 Other</td>
</tr>
</tbody>
</table>

#### COMMENTS

<table>
<thead>
<tr>
<th>COMMENTS</th>
</tr>
</thead>
</table>
QUESTIONNAIRE
INDICATORS - W.H.O. HEALTHY CITIES

D2 Estimated number of homeless people

NAME OF INDICATOR
D2: Estimated number of homeless people

DEFINITION
Number of people having no housing
(not including people who live in mobile homes)
Include both people who are homeless and living in hostels and shelters provided for homeless people and also those homeless and not in any such accommodation but living on the streets. If possible also provide separate figures for each category.

METHOD OF CALCULATION
Proposal for collecting data
Data concerning assistance given to the homeless

* If different, please state

UNIT OF MEASUREMENT
Number of inhabitants

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
## D2 Estimated number of homeless people

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL FREQUENCY</td>
<td></td>
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<tr>
<td>DATE</td>
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<tr>
<td>PERIOD OF COLLECTION</td>
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</table>

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED**

<table>
<thead>
<tr>
<th></th>
<th>A part of the city</th>
<th>The city</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>The city and its suburbs</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMMENTS**
# QUESTIONNAIRE
## INDICATORS - W.H.O. HEALTHY CITIES

### D3 Unemployment rate

**NAME OF INDICATOR**  
D3: Unemployment rate

**DEFINITION**  
Percentage of working population which is unemployed  
The unemployed comprise all persons (aged 15-64 years) who during the reference period were  
(1) “without work” i.e. not in paid employment or self employment  
(2) “currently available for work” i.e. were available for paid employment or self employment during the reference period and “seeking work” i.e. had taken specific steps in a specified recent period to seek paid employment or self employment

**METHOD OF CALCULATION**  
Preliminary:  
estimate the working population and the unemployed population

\[
\frac{\text{Population unemployed}}{\text{Working population}} \times 100
\]

* If different, please state

**UNIT OF MEASUREMENT**  
Percentage

* If different, please state

**VALUE OF THE INDICATOR AND DESCRIPTION**

D3.1
## D3 Unemployment rate

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
<th>ACTUAL FREQUENCY</th>
<th>DATE</th>
<th>PERIOD OF COLLECTION</th>
</tr>
</thead>
</table>

**ORIGIN OF DATA**

**CORRESPONDENT**

**ORGANIZATION OR DEPARTMENT**

**POPULATION CONCERNED** | 1 | A part of the city | 2 | The city |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>The city and its suburbs</td>
<td>4</td>
<td>Other</td>
</tr>
</tbody>
</table>

**COMMENTS**
**D4**  Percentage of people earning less than the mean per capita income

<table>
<thead>
<tr>
<th>NAME OF INDICATOR</th>
<th>D4: Percentage of people earning less than the mean per capita income</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFINITION</td>
<td>This threshold varies from country to country</td>
</tr>
<tr>
<td></td>
<td>(1) % of people earning less than the mean per capita income of the country</td>
</tr>
<tr>
<td></td>
<td>(2) Proportion of people receiving state and welfare benefits</td>
</tr>
<tr>
<td>METHOD OF CALCULATION</td>
<td>Number of people earning less than the mean per capita. x 100</td>
</tr>
<tr>
<td></td>
<td>Number of people in the same area</td>
</tr>
</tbody>
</table>

* If different, please state

<table>
<thead>
<tr>
<th>UNIT OF MEASUREMENT</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe the way of assessing the national poverty level</td>
<td></td>
</tr>
</tbody>
</table>

* If different, please state

<table>
<thead>
<tr>
<th>VALUE OF THE INDICATOR AND DESCRIPTION</th>
</tr>
</thead>
</table>
D4  Percentage of people earning less than the mean per capita income

FREQUENCY DESIRED  Yearly

ACTUAL FREQUENCY  DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED  
1  A part of the city  2  The city
3  The city and its suburbs  4  Other

COMMENTS
D5 Percentage of child care places for pre-school children

NAME OF INDICATOR: D5: Percentage of child care places for pre-school children

DEFINITION: Number of child care places available for pre-school children

METHOD OF CALCULATION: Number of child care places available for pre-school children

\[
\frac{\text{Number of child care places}}{\text{Number of pre-school children}} \times 100
\]

UNIT OF MEASUREMENT: Percentage

VALUE OF THE INDICATOR AND DESCRIPTION: 

D5.1
## D5 Percentage of child care places for pre-school children

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
</tr>
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<tbody>
<tr>
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<td>ORIGIN OF DATA</td>
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<td>ORGANIZATION OR DEPARTMENT</td>
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<tr>
<td>POPULATION CONCERNED</td>
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<tr>
<td></td>
<td>3 The city and its suburbs</td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
</tr>
</tbody>
</table>
D6  Percentage of all live births to mothers >20; 20-34, 35+

NAME OF INDICATOR

D6: Percentage of all live births to mothers < 20; 20 - 34; 35 +

If separate rates are available for the following age groups 0 - 14, 15 - 19, 20 - 24 please include

DEFINITION

% of all live births to mothers in the specific age bands

METHOD OF CALCULATION

Number of live births in mothers aged < 20

\[
\frac{\text{Number of live births in mothers aged < 20}}{\text{Number of live births}} \times 100
\]

UNIT OF MEASUREMENT

Percentage

VALUE OF THE INDICATOR AND DESCRIPTION
D6   Percentage of all live births to mothers < 20; 20 - 34; 35 +

FREQUENCY DESIRED   Yearly

ACTUAL FREQUENCY   DATE

PERIOD OF COLLECTION

ORIGIN OF DATA

CORRESPONDENT

ORGANIZATION OR DEPARTMENT

POPULATION CONCERNED   1   A part of the city   2   The city

   3   The city and its suburbs   4   Other

COMMENTS
D7 Abortion rate in relation to total number of live births

NAME OF INDICATOR
D7: Abortion rate in relation to total number of live births

DEFINITION
Percentage of total number of abortions and miscarriages in relation to total number of live births

METHOD OF CALCULATION
Number of abortions
___________________ x 100
Number of live births

* If different, please state

UNIT OF MEASUREMENT
. Percentage
. Description of local definitions of “abortion” and “miscarriage”

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION
## D7 Abortion rate in relation to total number of live births

<table>
<thead>
<tr>
<th>FREQUENCY DESIRED</th>
<th>Yearly</th>
</tr>
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<td>POPULATION CONCERNED</td>
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<td></td>
<td>3  The city and its suburbs</td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
</tr>
</tbody>
</table>
D8  Percentage of disabled persons employed

NAME OF INDICATOR  D8: Percentage of disabled persons employed

DEFINITION  Percentage of disabled persons of working age engaged in regular occupational activities

METHOD OF CALCULATION  Number of disabled people in employment (18 - 65) x 100
-----------------------------------------------
Total number of disabled people in the same age range (18-65)

* If different, please state

UNIT OF MEASUREMENT  Percentage

* If different, please state

VALUE OF THE INDICATOR AND DESCRIPTION

D8.1
### D8  Percentage of disabled persons employed

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<td></td>
</tr>
<tr>
<td>POPULATION CONCERNED</td>
<td>1 A part of the city 2 The city 3 The city and its suburbs 4 Other</td>
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<tr>
<td>COMMENTS</td>
<td></td>
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