

European Cancer Information System: EPAAC proposal

Annex 1

In the following Tables a list of indicators that should be part of a wide European Cancer Information System (ECIS) is proposed. The indicators were identified considering those proposed from European Cancer Health Indicator Project (EUROCHIP) and from other projects related to the health monitoring programme (HMP). EUROCHIP aimed to provide a list of indicators to monitor trends in cancer in Europe and the indicators proposed lie within the following domains: **prevention; epidemiology and cancer registration; screening; cancer treatment and clinical aspects; macro-social and economic variables**. Nowadays the EC implemented the Heidi data tool to make available EUROCHIP and European Community Health Indicators (ECHI) indicators:

http://ec.europa.eu/health/indicators/echi/list/index_en.htm.

The proposed indicators lie in the domains identified by EUROCHIP.

Per each indicators the availability in Europe considering different sources of information is reported. The majority of the indicators proposed are already available or will be available from European Health Interview Survey (EHIS) envisioned to take place every 5 years and from EUROSTAT which is enlarging the number and type of indicators provided in the field of health.

However, there are indicators, relevant in a ECIS, for which further activities are needed to ensure their availability. The indicators not yet available and anyway proposed for inclusion in the ECIS are written in red.

PREVENTION

Indicator	Availability	Data source
Consumption of fruit and vegetables	Indicators available in 14 out of the 17 EU MS carrying out the first wave of the European Health Interview Survey (EHIS)	The European Health Interview Survey (EHIS) consists of four modules on health status, health care, health determinants, and background variables. The first wave of the EHIS was implemented during the period 2006-2009 under a gentlemen's agreement. Nineteen countries have carried out it (17 EU MS): 2006: Austria, Estonia 2007: Slovenia – (Switzerland) 2008: Belgio, Bulgaria, Czech Republic, Cyprus, France, Latvia, Malta, Romania, (Turkey) 2009: Germany, Greece, Spain, Hungary, Poland, Slovakia
Body Mass Index distribution in the population	Indicators available in 17 out of the 17 EU MS carrying out the first wave of the EHIS	
Tobacco Proportion (%) of people reporting to smoke cigarettes daily, for age group 15-24 and for age group 15+	Indicators available in 12 out of the 17 EU MS carrying out the first wave of the EHIS	

Physical activity	Data not yet available in Heidi. From the EHIS report, it seems that the indicator is available in 13 out of the 17 EU MS carrying out the first wave of the EHIS	
Alcohol consumption among individuals aged 15+, expressed in litres of pure ethanol	Data available for all 27 EU MS. For 22 out of 27, information is available from the 1970 to 2005.	WHO, Global Information System on Alcohol and Health (GISAH) Data sources include government documents, national statistics, national and global surveys, WHO Global Survey on Alcohol and Health, Food and Agriculture Organization of the United Nations, other intergovernmental organizations, industry data, published scientific articles, and grey literature
PM10 emission (not a high priority indicator in EUROCHIP)	Data are available for the EU-27 in the Eurostat database from year 1999 onwards, except for Cyprus and Luxemburg (no data), and Latvia and Malta (only for one year) .	Eurostat. Emission registries and population statistics.
Exposure to sun radiation	Not included in the European Community Health Indicators (ECHI) list. Not available in Heidi	To be defined within the ECIS
Prevalence of occupational exposure to carcinogens	Not included in the European Community Health Indicators (ECHI) list. Not available in Heidi	To be defined within ECIS

SCREENING

Indicator	Availability	Data source
Percentage of women (aged 50-69) reporting a mammography in the past 2 years	Indicators available in 17 out of the 17 EU MS carrying out the first wave of the EHIS	European Health Interview Survey (EHIS)
Percentage of women (aged 20-69) reporting a pap smear test in the past 3 years	Indicators available in 17 out of the 17 EU MS carrying out the first wave of the EHIS	
Percentage of persons (aged 50-74) reporting a colorectal cancer screening in the past	Indicators available in 14 out of the 17 EU MS carrying out the first wave of the EHIS. Austria and Estonia not	

2 years	provided data. Germany figures will be added by the end of 2012.	
Organized screening coverage		
Breast Screening Programme by type and implementation status	<ul style="list-style-type: none"> - 11 Population based Nationwide rollout complete - 11 Population based Nationwide rollout piloting/on going - 4 Not population based nationwide - 1 No screening programme 	<p>Report on the implementation of the Council Recommendation on cancer screening.</p> <p>This first report is based on official information provided by all of the 27 Member States. The report will be regularly revised</p> <p>Further screening indicators should be identified with the ECIS and should comply with</p> <ul style="list-style-type: none"> - the performance indicators identified in the EU guidelines for quality assurance for screening (breast and cervix) and - other related projects: European network for indicators on cancers (EUNICE); European Cancer Network (ECN) in which the former European Cancer Screening Networks have been consolidated
Cervical Cancer Screening Programme by type and implementation status	<ul style="list-style-type: none"> - 7 Population based Nationwide rollout complete - 7 Population based Nationwide rollout piloting(5)/ regional population-based ongoing (2) - 11 Non population based - 2 No programme 	
Colorectal Cancer Screening Programme by type and implementation status	<ul style="list-style-type: none"> - 12 Population based Nationwide rollout piloting/ongoing (mainly faecal occult blood test; 3 CS, 1 flexible sigmoidoscopy) - 7 Not population based nationwide (3 faecal occult blood test; 3 faecal occult blood test + colonoscopy) - 8 no programme 	

TREATMENT & CLINICAL ASPECTS

Indicator	Availability	Data source
Resources (medical equipment)		EUROSTAT and OECD
Radiation systems in the population	Number of radiation therapy equipment per million population available in 17 EU MS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	Data type: surveys, administrative data (depending on organisation of the health care system in concerned country). EUROSTAT, OECD and WHO ask for submission of the data for year N at N+15 months.
Computed Axial Tomographies (CT)	Number of CT per million population available in 17 EU MS from OECD Health Data 2011. Info for additional MS will be available in future by	OECD Health Data 2011 provided data for 17 EUMS: Austria, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Luxembourg,

	EUROSTAT	Netherlands, Poland, Portugal, Slovakia, Slovenia, United Kingdom
Magnetic Resonance Imaging Unit (MRI)	Number of MRI per million population available in 17 EU MS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	
Others available - Positron Emission Tomography scanners (PET) - Gamma cameras (Single Photon Emission Computed Tomography, SPECT) - Mammographs	Number of PET, SPECT, mammographs per million population available in 17 EU MS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	
Surgical procedures		
Hysterectomy (vaginal only)	No Procedures/100,000 females (in-patient) available in 18 EUMS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	EUROSTAT and OECD Data type: surveys, administrative data (depending on organisation of the health care system in concerned country). EUROSTAT, OECD and WHO ask for submission of the data for year N at N+15 months. OECD Health Data 2011 provided data for 18 EU MS: Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Luxembourg, Netherlands, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom
Prostatectomy (Not transurethral)	No Procedures/100,000 males (in-patient) available in 18 EUMS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	
Breast conserving surgery and mastectomy	No Procedures/100,000 males (in-patient) available in 18 EUMS from OECD Health Data 2011. Info for additional MS will be available in future by EUROSTAT	
Others surgical procedures - Pulmectomy - Diagnostic bronchoscopy with or without biopsy - Colonoscopy with or without biopsy - Colectomy - Extirpation, excision	Not yet available in Heidi, Available in EUROSTAT in the future	Administrative data EUROSTAT

and destruction of intracranial lesion - Thyroidectomy - Stem cell transplantation		
Treatment		
Stage at diagnosis	Information collected from many population-based cancer registries (CRs) however it is not used in current statistics and is not available on line	EUROCHIP Report on cancer registry indicators in various countries (http://www.tumori.net/eurochip/wp.php?page=5) Further activities are needed to ensure the availability and use of the staging information which has to be included in a wide ECIS.
Compliance with best oncology practice	Information to estimate these indicators are available in some CRs only however this indicator is not currently estimated neither is available in current statistics at national or European level.	Further activities are needed to ensure the availability and use of these indicators which have to be included in a wide ECIS
Delay of cancer treatment		

MACRO SOCIAL AND ECONOMIC VARIABLES

Indicator	Availability	Data source
Gross Domestic Product	In all 27 EU MS	EUROSTAT
Total Public Expenditure on Health as % of GDP	EUROSTAT publishes data for EU-27 (excluding Greece, Ireland, Italy, Malta and the United Kingdom).	EUROSTAT Data type: surveys, administrative data (depending on organisation of the health care system in concerned country). EUROSTAT, OECD and WHO ask for submission of the data for year N at N+15 months.
Anti-tobacco regulations	In all 27 EU MS Information about tobacco prevalence, preventive measures (including compliance to measures), cessation and tobacco economics	World Health Organisation (WHO) - Tobacco control country profiles The country profiles are generated from data collected for the <i>WHO report on the global tobacco epidemic, 2011: warning about the dangers of tobacco</i> .

Estimated cost for a cancer patient	Information not currently available.	Further research on going in the context of the EPAAC WP9 task. A method for estimating such indicator should be identified considering the relevance of this indicator in a ECIS.
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EPIDEMIOLOGY & CANCER REGISTRATION

Indicator	Availability	Data source
Population covered by high quality Cancer Registries	All EU 27 MS	Indicator estimable through Cancer Incidence in 5 continents
Cancer incidence rates, trends and projections	All EU 27 MS	GLOBOCAN and ECO (European Cancer Observatory), Cancer Incidence in Five Continents (CI5plus) for time trends by country.
Cancer relative survival rates, trends and projections	23 EU MS	EUROCARE, HAEMACARE, RARECARE
Cancer prevalence proportions, trends and projections	At least in 14 EU MS from EUROPREVAL: Austria, Denmark, Estonia, Finland, France, Germany, Italy, Netherlands, Poland, Slovakia, Slovenia, Spain, Sweden, UK	EUROPREVAL, EUROCARE, HAEMACARE, RARECARE
Cancer mortality rates, trends, projections	All EU 27 MS	EUROSTAT