



National Institute for Health Development of Estonia,
Department of Health Statistics

The Centre for Disease Prevention and Control of Latvia

Health Information Centre,
Institute of Hygiene, Lithuania

Health in the Baltic Countries

2011

20th edition

2013

UDK 61 (474.2 + 474.3 + 474.5) (083)

He – 04

ISSN 1407-0278

CONTENTS

Preface.....	5
Resident population.....	5
General data.....	6
Population by age.....	7
Trends of demographics indicators.....	8
Resident population by age and gender.....	9
Natality, mortality and natural increase per 1000 population.....	10
Life expectancy at birth in EU member states.....	11
Life expectancy at 45 years of age in EU member states.....	12
Death cause per 100,000 population.....	13
Main cause of death.....	14
Age-standardised death rates.....	15
Selected causes of death per 100,000 population.....	18
Infant mortality per 1000 live births.....	19
Structure of infant mortality in percentage.....	20
Infant mortality by cause per 10,000 live births.....	21
Perinatal, neonatal and maternal mortality.....	21
Births rate by age of mother.....	22
Abortions.....	23
Selected results of health behaviour survey.....	24
Health facilities.....	25
Practising physicians by speciality.....	26
Hospital beds by speciality.....	27
Selected notifiable diseases per 100,000 population.....	28
Incidence of malignant neoplasms by main sites.....	29
Hospital beds use by speciality.....	30
Discharges by groups of diseases.....	31
Surgical operation in the hospitals.....	32
Sales of medical products by ATC groups.....	33
Average salary of medical personnel.....	34
Health care expenditures.....	35
Total health care expenditures as % of GDP in EU member states.....	36
Obstetrics definitions.....	37
Sources.....	38
Further information.....	39

Symbols used in the tables:

Zero or no applicable	-
Data not available	...

Preface

“Health in the Baltic Countries 2011” is the twentieth edition of the series and is aimed at providing a basis for the comparison of health statistics of the three Baltic States – namely Estonia, Latvia and Lithuania.

The publication is targeted at health professionals, policy and opinion formers, those involved in research, students of health and any of the general public interested in the health of their fellow citizens.

The most important sources of data for this publication were the annual statistical reports of the various medical institutions as well as health databases and registries. Some data was taken from official publications and the web pages of the national statistics offices of the Baltic States. *The Health for All database* of the World Health Organisation was used as sources of information for tables containing data from other European countries.

Resident population on 01.01.2012*

	Estonia	Latvia	Lithuania
Population (thousand)	1294.5	2041.8	3007.7
Per 1 km ²	29.8	31.6	46.1
Urban (thousand)	879.2	1382.1	2008.7
%	67.9	67.7	66.8
Rural (thousand)	415.3	659.6	999.0
%	32.1	32.3	33.2
Males (thousand)	600.5	933.1	1385.6
%	46.4	45.7	46.1
Females (thousand)	693.9	1108.6	1622.1
%	53.6	54.3	53.9
Below working age (%)	16.4	14.3	16.1
Working age (%)	64.0	63.6	61.5
Above working age (%)	19.6	22.1	22.4
Working age			
Males	16-63	15-61	16-62 y.8m.
Females	16-61 y.6 m.	15-61	16-60 y.4m.

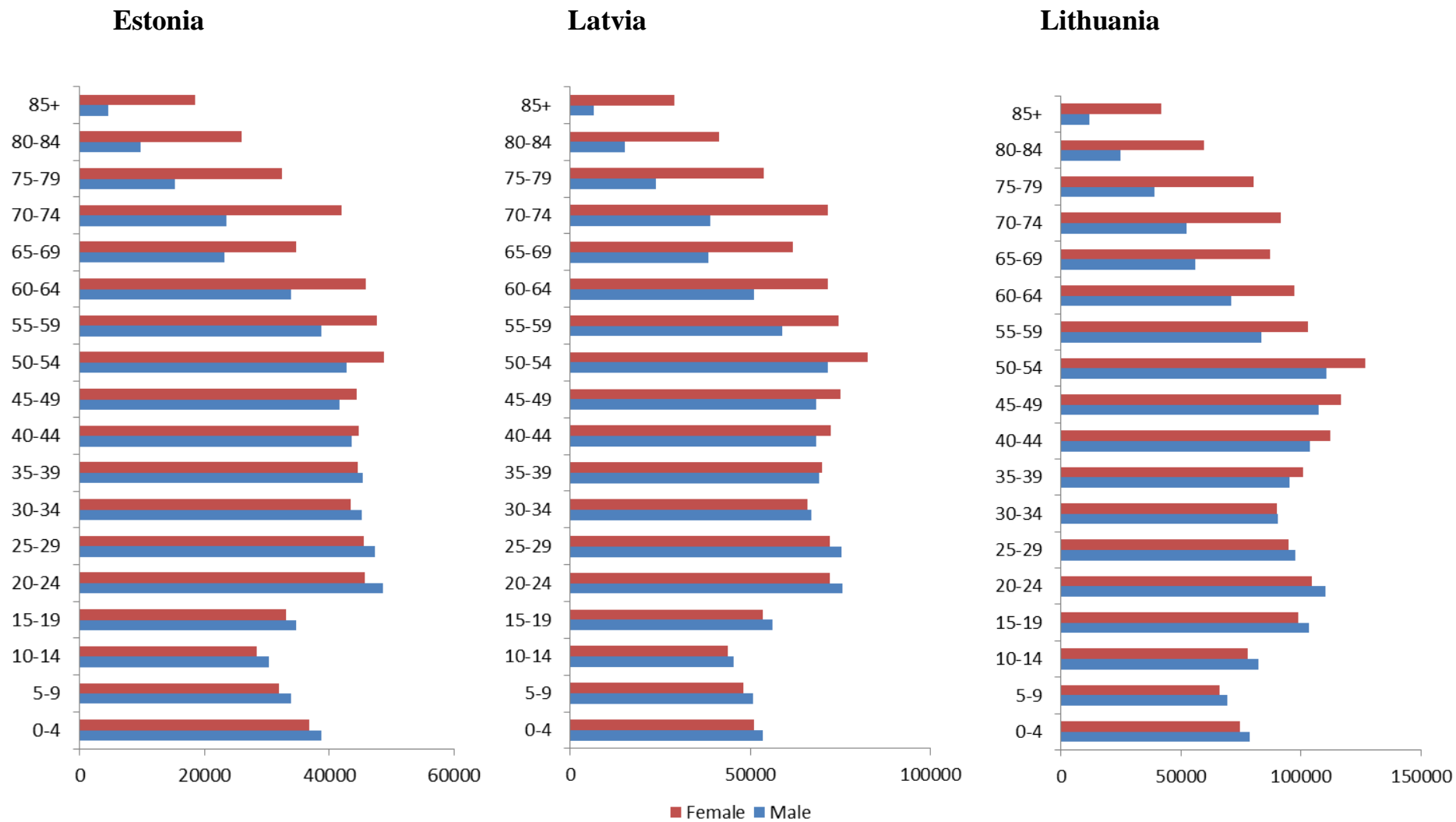
* Data according to the Population and Housing Census 2011

General data

	Estonia	Latvia	Lithuania
Official name of the state	Republic of Estonia (Eesti Vabariik)	Republic of Latvia (Latvijas Republika)	Republic of Lithuania (Lietuvos Respublika)
Independence Day	24 February (1918)	18 November (1918)	16 February (1918)
Governing body of the state	Parliament (Riigikogu), 101 members, elected for a period of 4 years	Parliament (Saeima), 100 members, elected for a period of 4 years	Parliament (Seimas), 141 members, elected for a period of 4 years
Governmental structure	Republic, the President is elected for the period of 5 years	Republic, the President is elected for the period of 4 years	Republic, the President is elected for the period of 5 years
Area (thousand km ²)	45.2	64.6	65.3
Major islands	Saaremaa, 2671 km ² Hiiumaa, 989 km ² Muhu, 198 km ²	-	-
Major rivers	Võhandu, 162 km (through lake Tamula) Pärnu, 144 km Põltsamaa, 135 km	Daugava, 1005 km Gauja, 452 km Venta, 346 km	Nemunas, 937.4 km Neris, 509.5 km Venta, 346 km
Major lakes	Peipsi, 3555 km ² (in Estonia 1529 km ²) Võrtsjärv, 271 km ² Narva veehoidla (artificial lake) 191 km ² (in Estonia 38 km ²)	Lubāns, 80.7 km ² Rāzna, 57.6 km ² Engure, 40.5 km ²	Drūkšiai, 44.8 km ² Dysnai, 24.4 km ² Dusia, 23.3 km ²
The highest point	Suur Munamägi, 318 m	Gaiziņkalns, 311.6 m	Juozapinė, 293.6 m
Average daily temperature in January 2011	- 3.5° C	- 3.0° C	- 2.7° C
Average daily temperature in July 2011	+ 20.3° C	+ 19.8° C	+ 19.3° C
Average daily temperature 2011	+ 7.0° C	+ 7.3° C	+ 7.6° C
Administrative units at the beginning of 2012	15 counties, 226 administrative units with local governments, incl.33 cities, 193 rural municipalities and 14 cities without municipal status	9 cities, 110 counties	10 counties, 60 municipalities, 103 cities and towns
Capital, resident population (thousand) at the beginning of 2012	Tallinn 393.2	Riga 650.5	Vilnius 523.1
State language	Estonian	Latvian	Lithuanian
Currency	Euro=100 cents 1 EUR = 15.6466 EEK*	Latvian lats=100 santims 1 LVL = 1.423 EUR	Lithuanian litas=100 centas 1 LTL = 0.28962 EUR

* On 1 January 2011, Estonia replaced the kroon (EEK) with the euro.

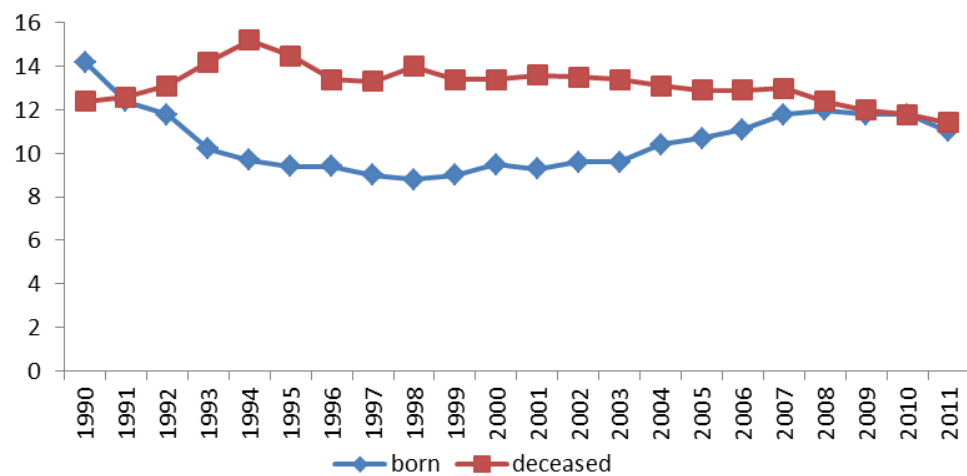
Population by age at the beginning of 2012*



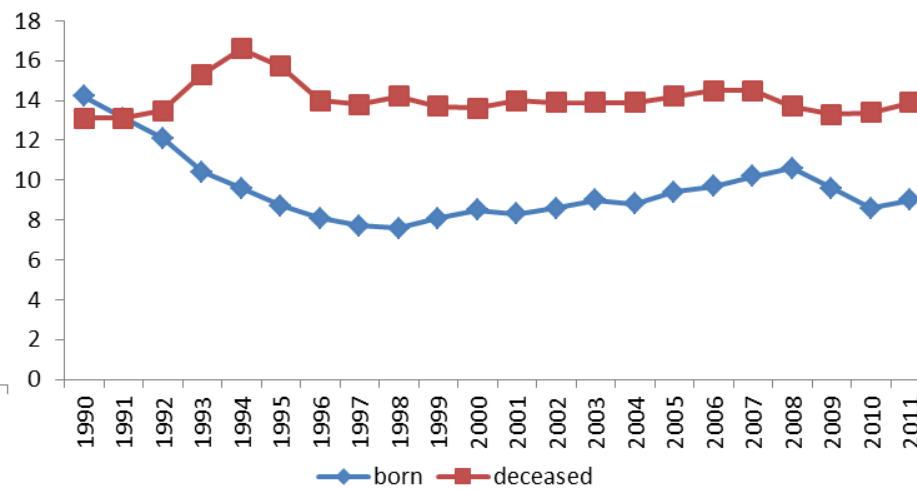
* Data according to the Population and Housing Census 2011

Trends in demographics indicators
Per 1000 population

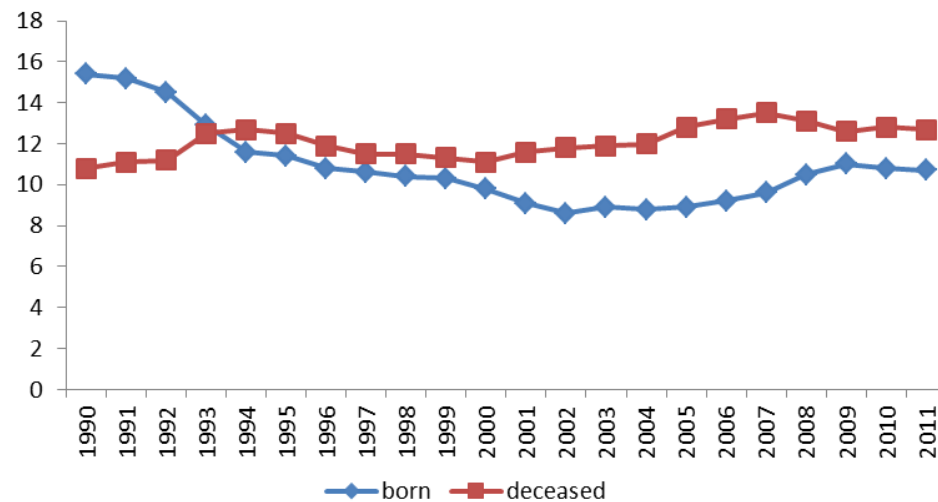
Estonia



Latvia



Lithuania



Health in the Baltic countries

Resident population by age and gender at 01.01.2012*

	Estonia						Latvia						Lithuania					
	Total		Males		Females		Total		Males		Females		Total		Males		Females	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total	1294455	100.0	600526	100.0	693929	100.0	2041763	100.0	933114	100.0	1108649	100.0	3007758	100.0	1385671	100.0	1622087	100.0
0-4	75497	5.8	38738	6.5	36759	5.3	104305	5.1	53322	5.7	50983	4.6	153101	5.1	78655	5.7	74446	4.6
5-9	65758	5.1	33806	5.6	31952	4.6	98784	4.8	50674	5.4	48110	4.3	135144	4.5	69232	5.0	65912	4.1
10-14	58636	4.5	30344	5.1	28292	4.1	89095	4.4	45488	4.9	43607	3.9	159933	5.3	82286	5.9	77647	4.8
15-19	67639	5.2	34673	5.8	32966	4.8	109483	5.4	56141	6.0	53342	4.8	201882	6.7	103263	7.5	98619	6.1
20-24	94294	7.3	48553	8.1	45741	6.6	147472	7.2	75479	8.1	71993	6.5	214721	7.1	110082	7.9	104639	6.5
25-29	92924	7.2	47365	7.9	45559	6.6	147521	7.2	75390	8.1	72131	6.5	192347	6.4	97738	7.1	94609	5.8
30-34	88648	6.8	45166	7.5	43482	6.3	132663	6.5	66887	7.2	65776	5.9	180258	6.0	90166	6.5	90092	5.6
35-39	89773	6.9	45297	7.5	44476	6.4	139173	6.8	69230	7.4	69943	6.3	196091	6.5	95265	6.9	100826	6.2
40-44	88227	6.8	43587	7.3	44640	6.4	140562	6.9	68334	7.3	72228	6.5	215841	7.2	103841	7.5	112000	6.9
45-49	85869	6.6	41570	6.9	44299	6.4	143371	7.0	68373	7.3	74998	6.8	223700	7.4	107123	7.7	116577	7.2
50-54	91535	7.1	42825	7.1	48710	7.0	153993	7.5	71466	7.7	82527	7.4	237275	7.9	110480	8.0	126795	7.8
55-59	86426	6.7	38739	6.5	47687	6.9	133269	6.5	58852	6.3	74417	6.7	186393	6.2	83510	6.0	102883	6.3
60-64	79789	6.2	33882	5.6	45907	6.6	122576	6.0	51106	5.5	71470	6.4	167739	5.6	70741	5.1	96998	6.0
65-69	57796	4.5	23085	3.8	34711	5.0	99944	4.9	38236	4.1	61708	5.6	142681	4.7	55761	4.0	86920	5.4
70-74	65471	5.1	23452	3.9	42019	6.1	110442	5.4	38829	4.2	71613	6.5	143537	4.8	52158	3.8	91379	5.6
75-79	47683	3.7	15229	2.5	32454	4.7	77308	3.8	23679	2.5	53629	4.8	119245	4.0	38932	2.8	80313	5.0
80-84	35617	2.8	9731	1.6	25886	3.7	56507	2.8	15202	1.6	41305	3.7	84215	2.8	24647	1.8	59568	3.7
85+	22873	1.8	4484	0.7	18389	2.6	35295	1.7	6426	0.7	28869	2.6	53655	1.8	11791	0.9	41864	2.6

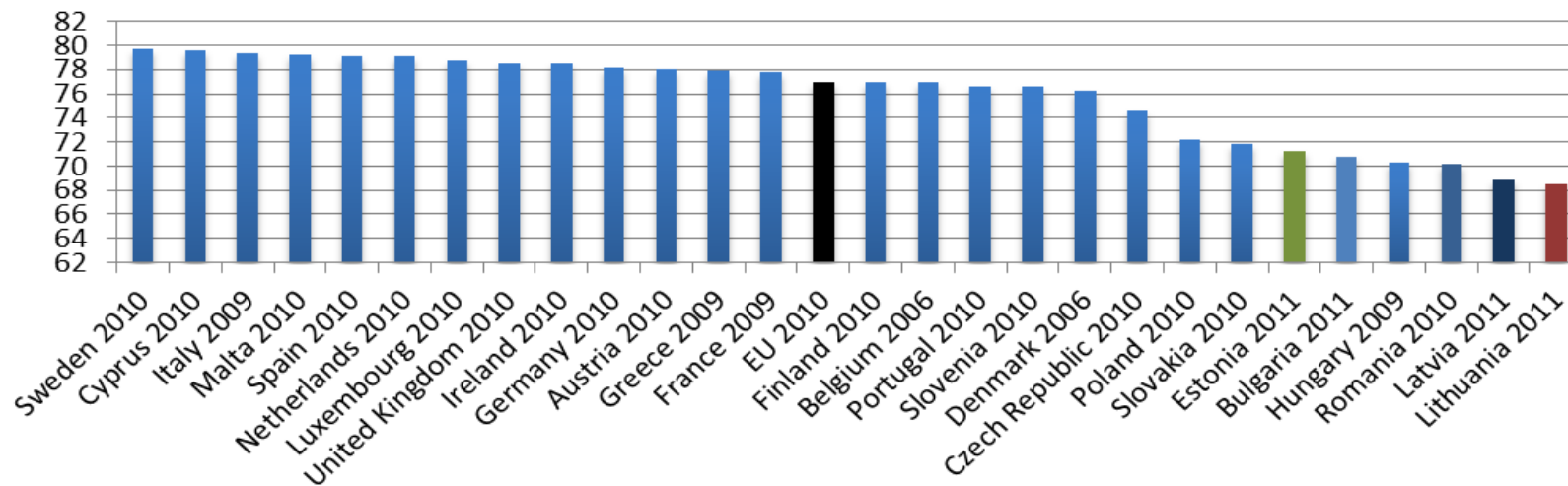
* Data according to the Population and Housing Census 2011

Nativity, mortality and natural increase per 1000 population

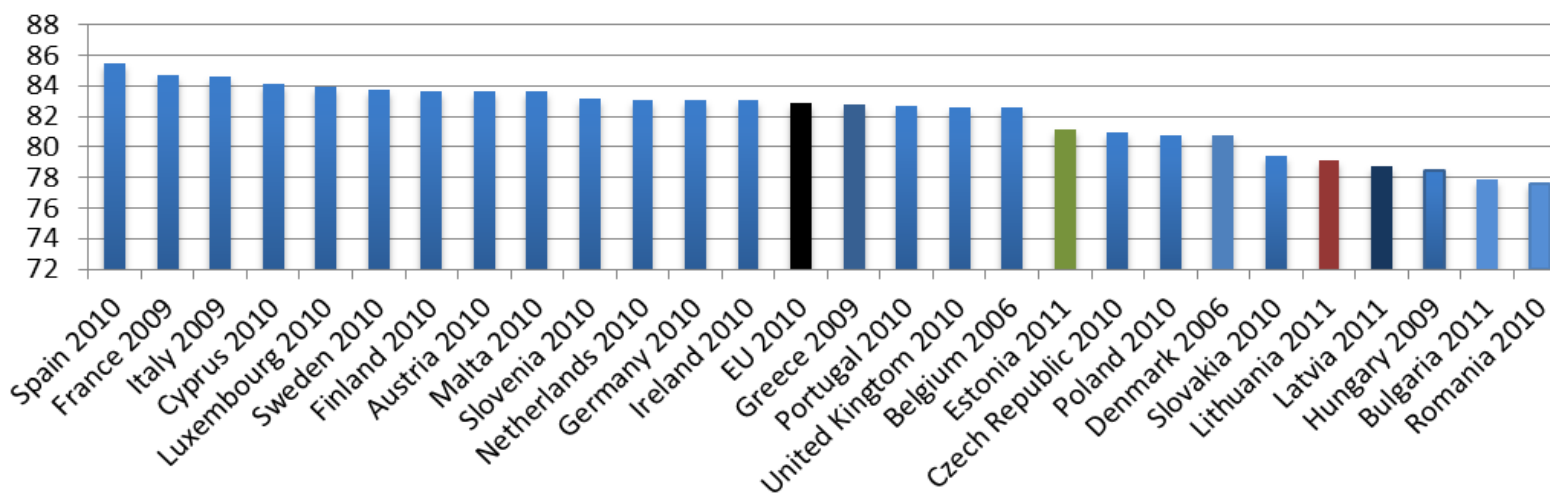
Years	Estonia			Latvia			Lithuania		
	Nativity	Mortality	Natural increase	Nativity	Mortality	Natural increase	Nativity	Mortality	Natural increase
1970	16.0	11.2	4.8	14.6	11.3	3.3	17.7	8.9	8.8
1975	15.0	11.6	3.4	14.2	12.2	2.0	15.7	9.5	6.2
1980	14.9	12.4	2.5	14.1	12.8	1.3	15.2	10.5	4.7
1985	15.5	12.6	2.9	15.4	13.2	2.2	16.5	11.1	5.4
1990	14.2	12.4	1.8	14.2	13.1	1.1	15.4	10.8	4.6
1991	12.4	12.6	-0.2	13.1	13.1	0.0	15.2	11.1	4.1
1992	11.8	13.1	-1.3	12.1	13.5	-1.4	14.5	11.2	3.3
1993	10.2	14.2	-4.0	10.4	15.3	-4.9	12.9	12.5	0.4
1994	9.7	15.2	-5.5	9.6	16.6	-7.0	11.6	12.7	-1.1
1995	9.4	14.5	-5.1	8.7	15.7	-7.0	11.4	12.5	-1.1
1996	9.4	13.4	-4.0	8.1	14.0	-5.9	10.8	11.9	-1.1
1997	9.0	13.3	-4.3	7.7	13.8	-6.1	10.6	11.5	-0.9
1998	8.8	14.0	-5.2	7.6	14.2	-6.6	10.4	11.5	-1.1
1999	9.0	13.4	-4.4	8.1	13.7	-5.6	10.3	11.3	-1.0
2000	9.5	13.4	-3.9	8.5	13.6	-5.1	9.8	11.1	-1.3
2001	9.3	13.6	-4.3	8.3	14.0	-5.7	9.1	11.6	-2.5
2002	9.6	13.5	-3.9	8.6	13.9	-5.3	8.6	11.8	-3.2
2003	9.6	13.4	-3.8	9.0	13.9	-4.9	8.9	11.9	-3.0
2004	10.4	13.1	-2.7	8.8	13.9	-5.1	8.8	12.0	-3.2
2005	10.7	12.9	-2.2	9.4	14.2	-4.8	8.9	12.8	-3.9
2006	11.1	12.9	-1.8	9.7	14.5	-4.7	9.2	13.2	-4.0
2007	11.8	13.0	-1.2	10.2	14.5	-4.3	9.6	13.5	-3.9
2008	12.0	12.4	-0.4	10.6	13.7	-3.1	10.5	13.1	-2.6
2009	11.8	12.0	-0.2	9.6	13.3	-3.7	11.0	12.6	-1.6
2010	11.8	11.8	0.03	8.6	13.4	-4.8	10.8	12.8	-2.0
2011	11.0	11.4	-0.4	9.0	13.9	-4.9	10.7	12.7	-2.0

Life expectancy at birth in EU member states

Males

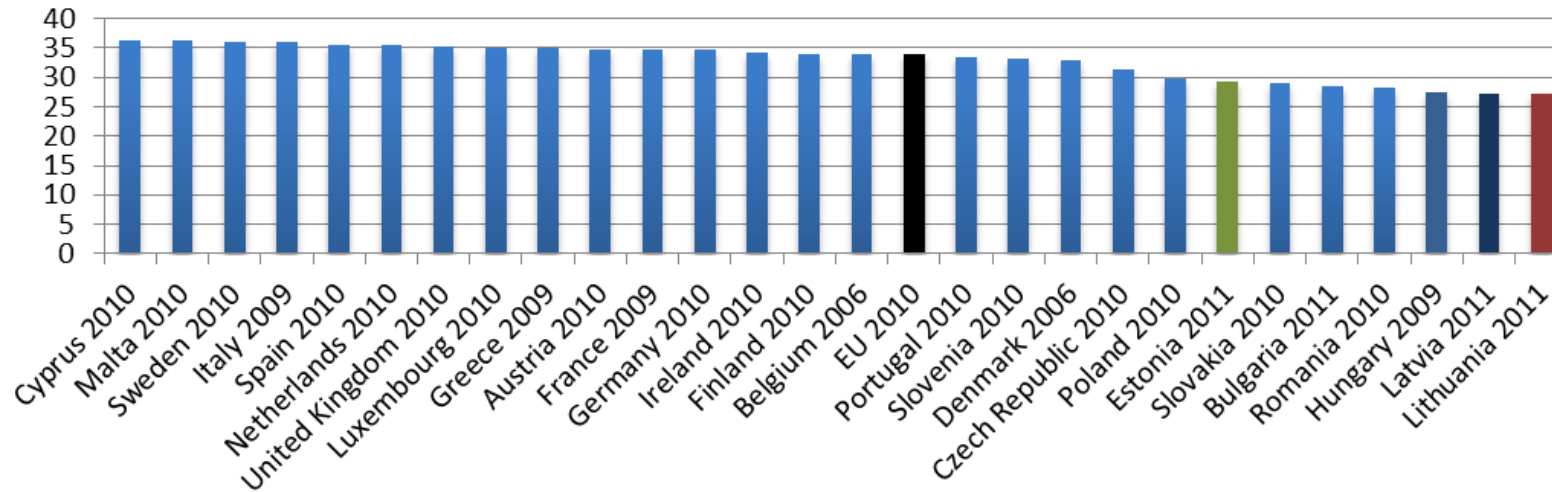


Females

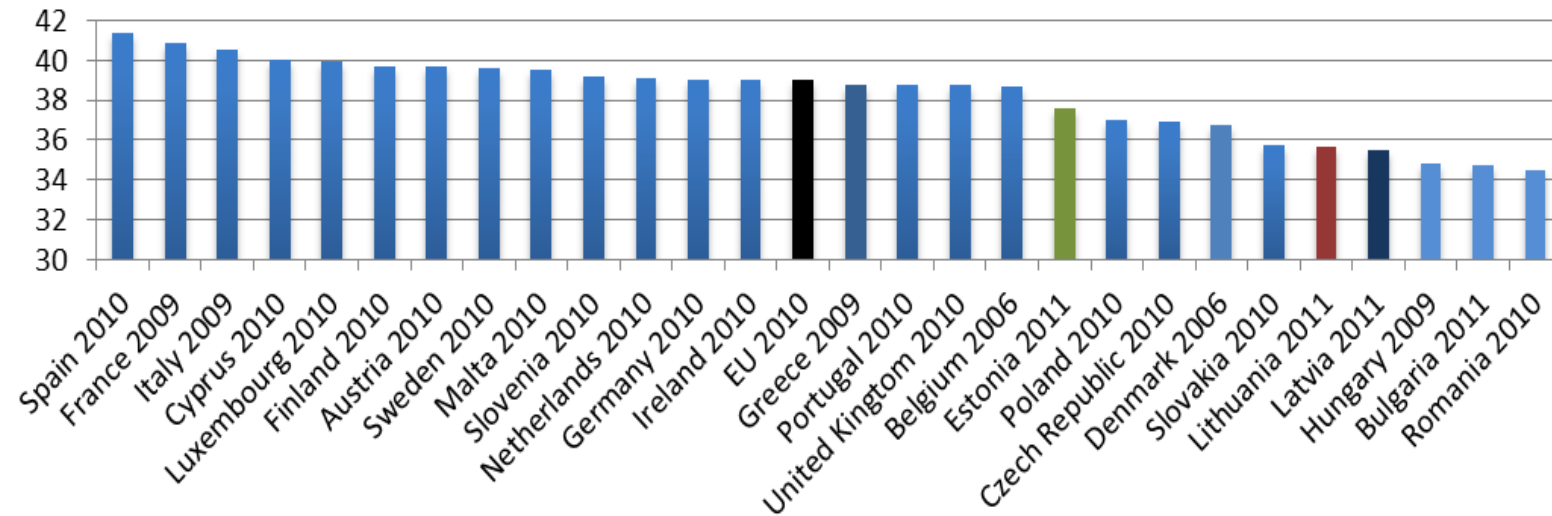


Life expectancy at 45 years of age in EU member states

Males



Females

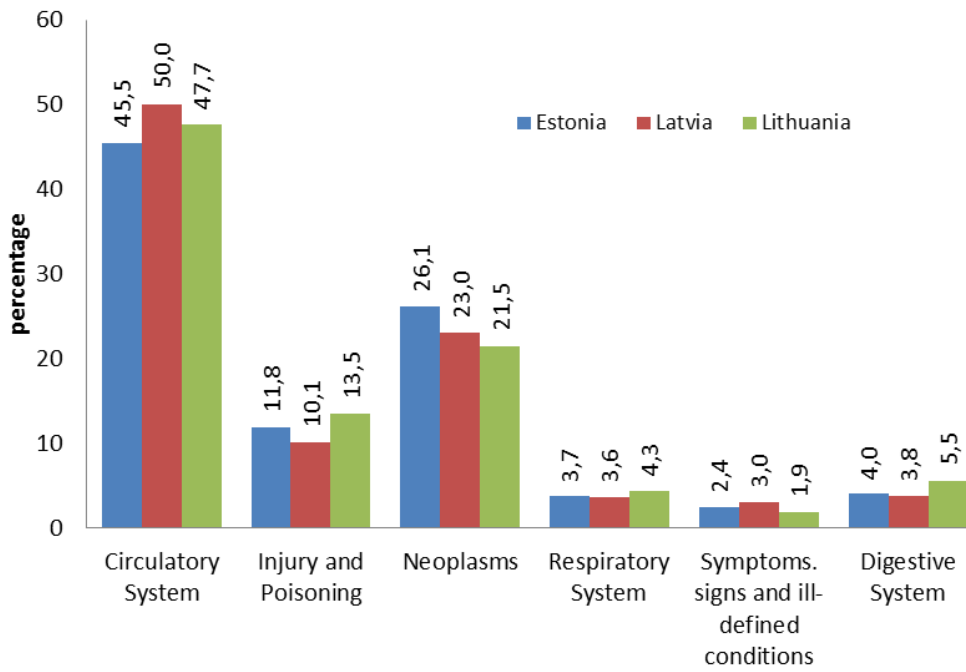


Deaths by cause per 100,000 population in 2011

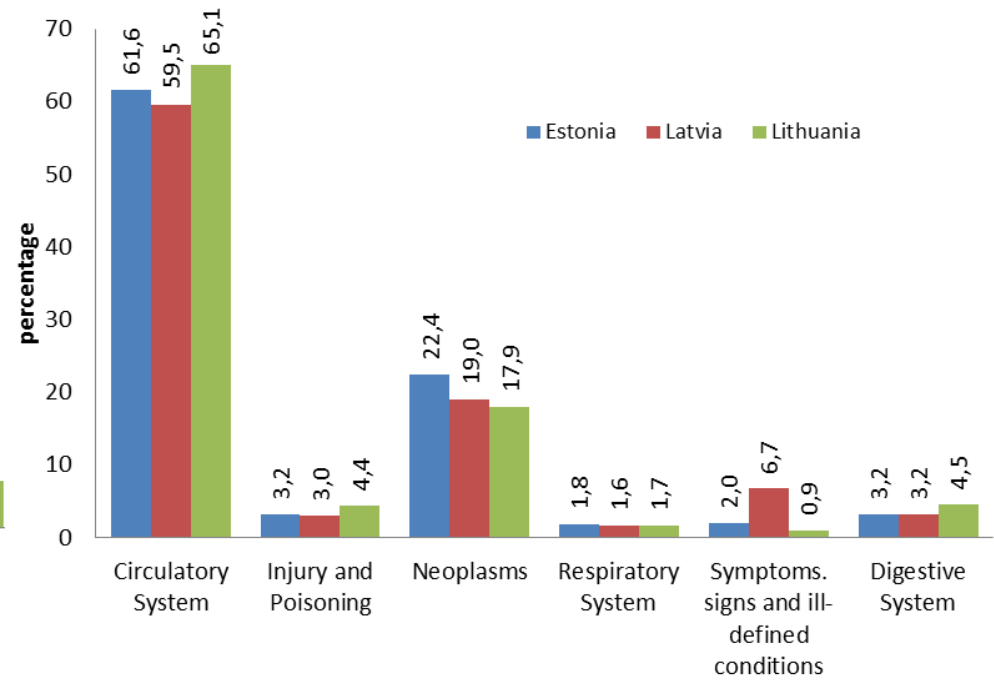
Causes of death	Estonia			Latvia			Lithuania		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Certain infectious and parasitic diseases	9.6	15.2	4.9	12.5	17.9	8.1	17.2	23.6	11.6
Neoplasms	274.8	315.0	240.4	289.8	338.1	249.2	255.8	304.9	213.2
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanisms	1.3	1.0	1.7	1.5	1.0	1.9	1.0	1.1	0.8
Endocrine, nutritional and metabolic diseases	14.2	10.8	17.0	25.2	16.5	32.6	9.8	9.4	10.1
Mental and behavioural disorders	9.0	13.1	5.5	15.3	18.3	12.7	2.4	2.6	2.3
Diseases of the nervous system and sensory organs	20.0	22.8	17.6	13.0	15.7	10.6	17.1	18	16.4
Diseases of the circulatory system	609.4	549.7	660.6	761.5	736.7	782.4	716.5	668	758.5
Diseases of the respiratory system	31.1	44.5	19.7	35.3	52.7	20.6	38.6	60.5	19.6
Diseases of the digestive system	41.2	48.7	34.8	48.0	55.3	41.8	63.9	77.2	52.3
Diseases of the skin and subcutaneous tissue	0.7	0.5	0.8	1.9	1.5	2.2	1.3	0.9	1.6
Diseases of the musculoskeletal system and connective tissue	2.7	1.8	3.5	3.5	2.2	4.6	2.5	1.3	3.7
Diseases of the genitourinary system	7.8	8.1	7.5	15.6	16.2	15.1	8.9	9.2	8.6
Pregnancy, childbirth and puerperium	-	-	0.3	-	-	-	-	-	0.1
Certain conditions originating in perinatal period	1.2	1.6	0.8	3.4	4.0	2.8	2.1	2.7	1.6
Congenital malformations, deformations and chromosomal abnormalities	2.5	2.6	2.4	3.3	3.8	2.9	2.7	3.6	1.9
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	24.9	28.5	21.9	67.7	44.1	87.5	18.3	27.6	10.2
Injury, poisoning and certain other consequences of external causes	84.2	142.8	34.1	89.4	149.1	39.1	115.4	188.8	51.8
TOTAL	1134.7	1206.7	1073.3	1386.7	1473.1	1313.9	1273.6	1399.5	1164.3

Main causes of death in 2011

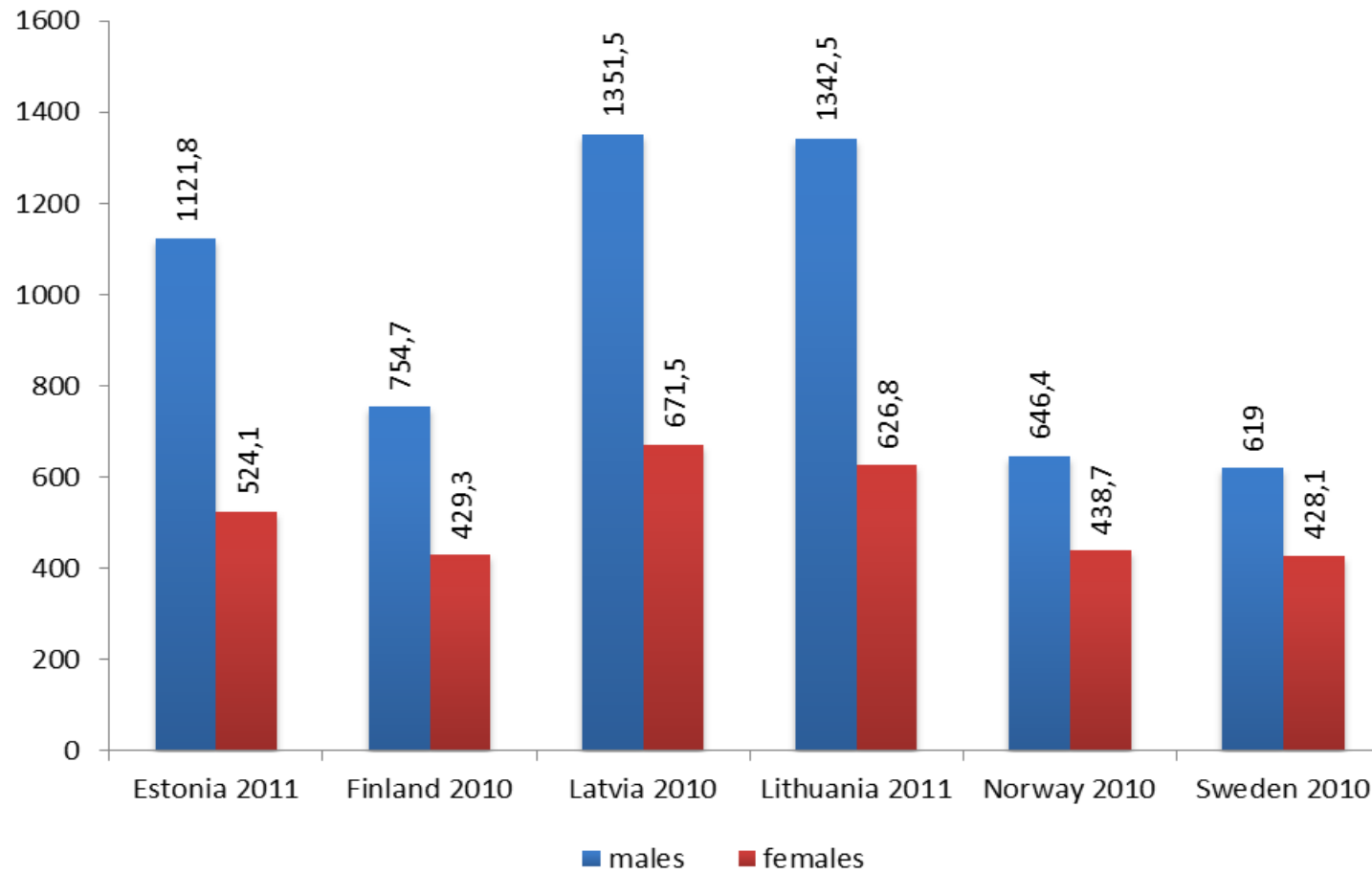
Males



Females

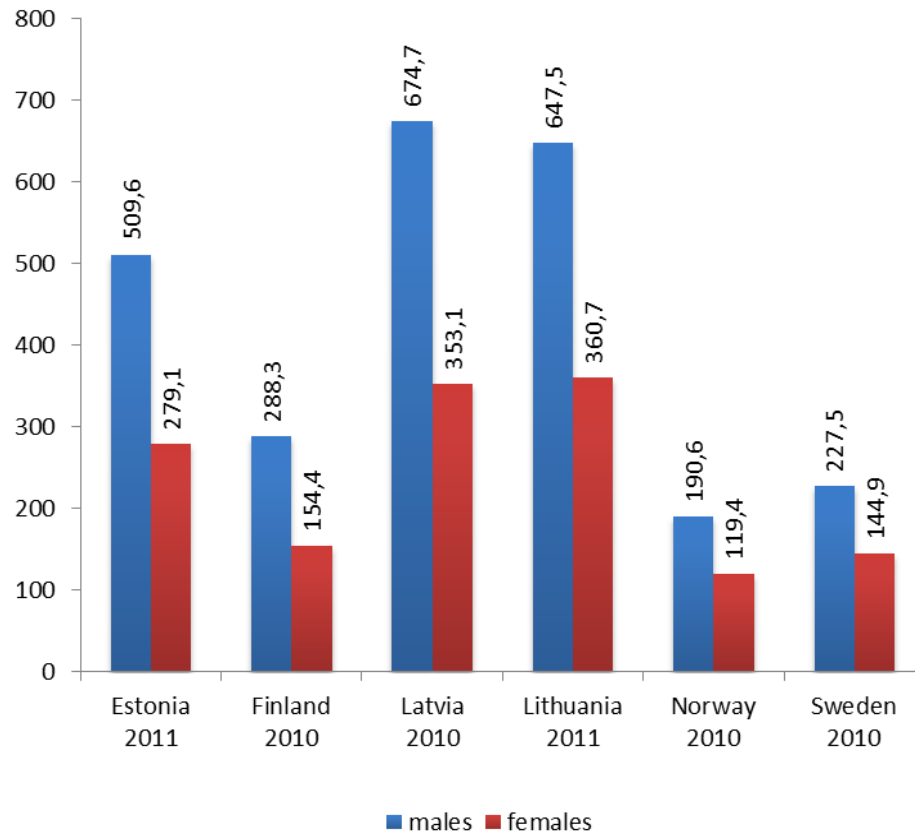


Age-standardised death rates
(per 100,000 European standard population)

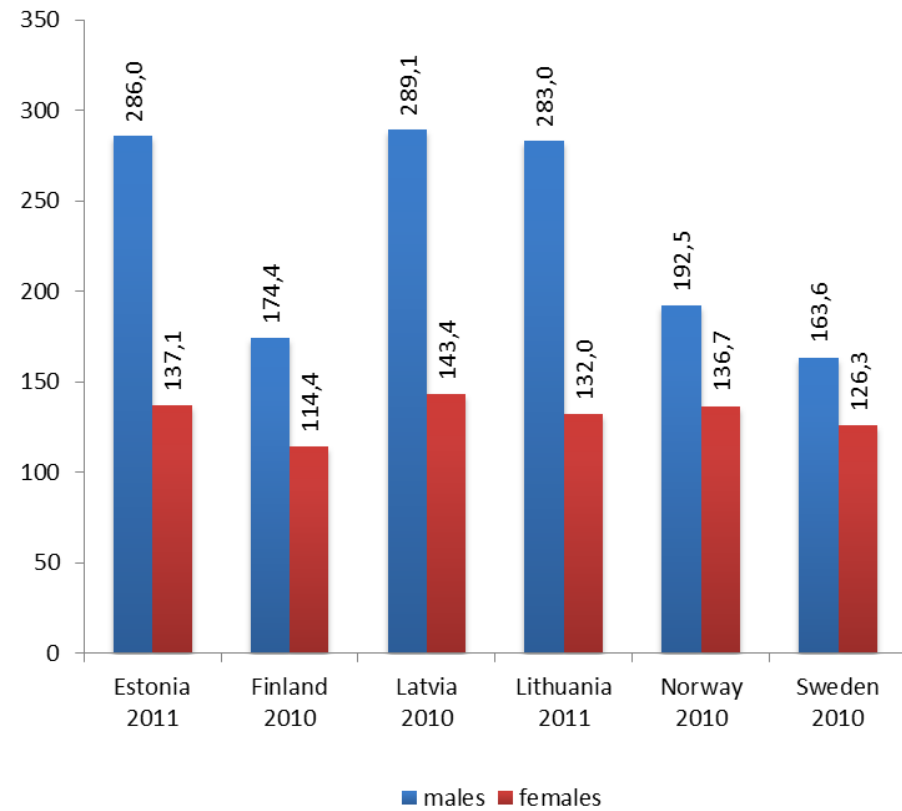


Age-standardised death rates
(per 100,000 European standard population)

diseases of circulatory system



malignant neoplasms

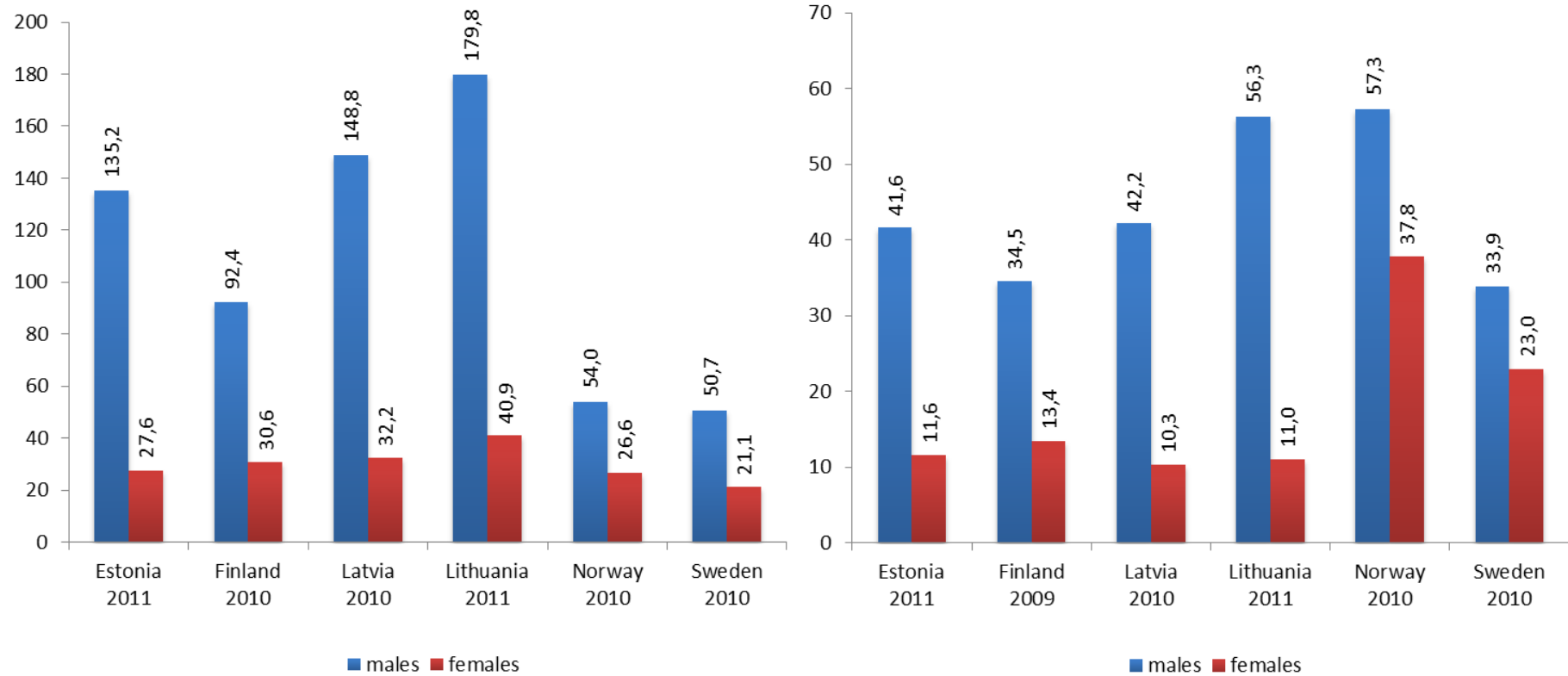


Health in the Baltic countries

Age-standardised death rates (per 100,000 European standard population)

injuries, poisoning and other consequences of external causes

diseases of respiratory system

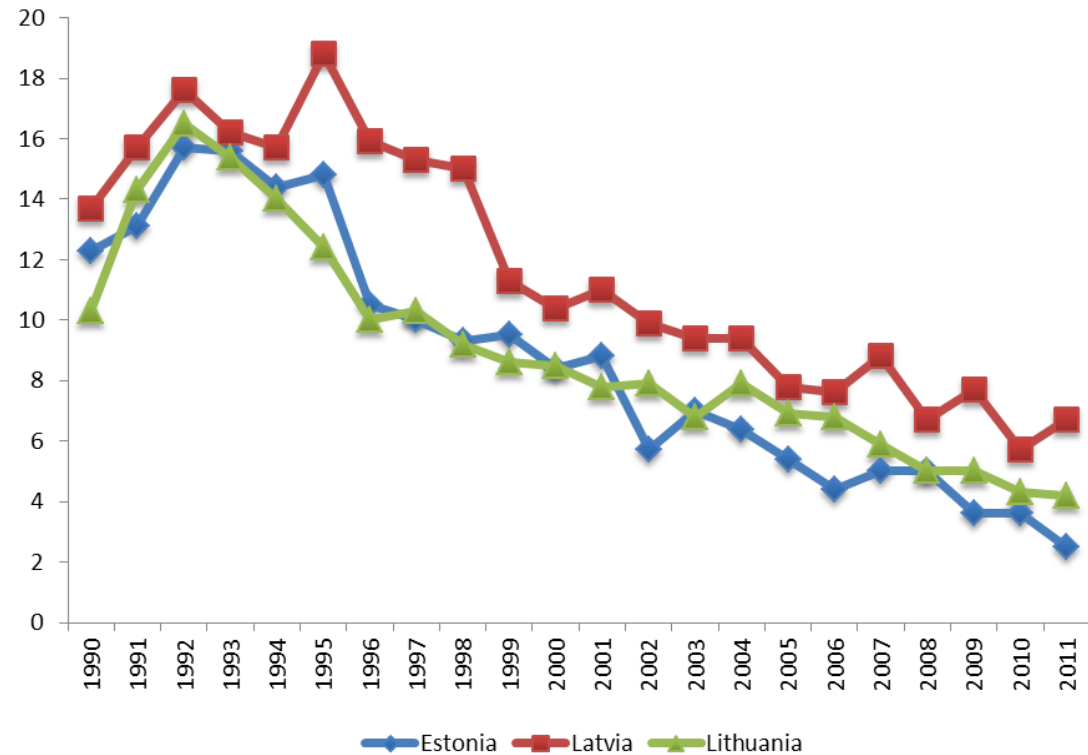


Selected causes of deaths per 100,000 population in 2011

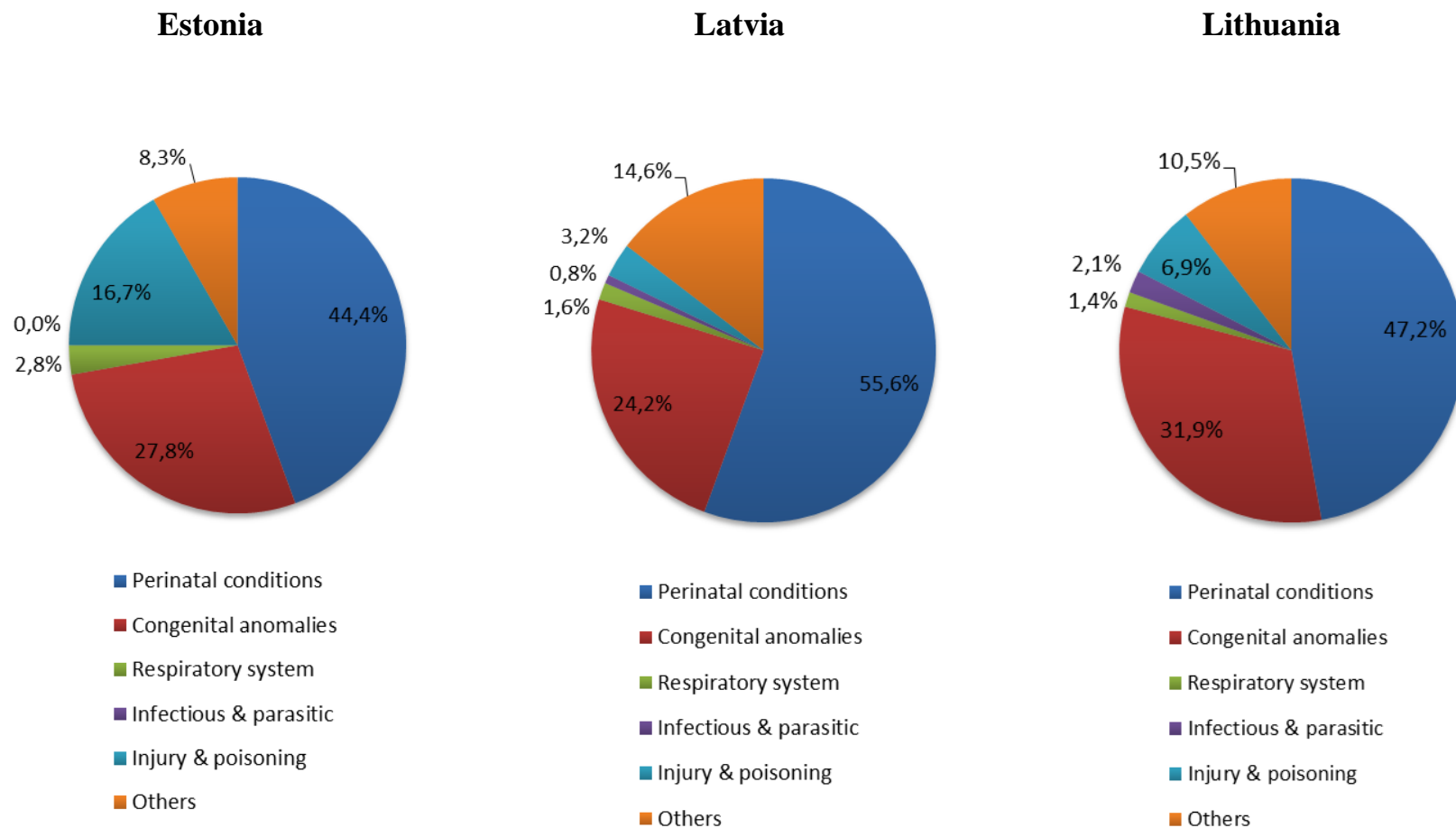
Causes of death	ICD-10 codes	Estonia			Latvia			Lithuania		
		Total	Males	Females	Total	Males	Females	Total	Males	Females
Tuberculosis	A15-A19	2.7	4.9	0.8	3.2	5.4	1.3	6.6	11.6	2.3
AIDS	B20-B24	4.5	7.8	1.7	3.5	5.4	2.0	0.6	1.0	0.2
Stomach cancer	C16	21.5	27.4	16.5	22.6	27.9	18.2	20.8	25.7	16.6
Colon cancer	C18	19.9	17.6	21.9	18.9	18.5	19.1	16.2	16.7	15.7
Rectum cancer	C19-C21	12.3	15.2	9.8	14.6	16.3	13.2	13.4	14.4	12.6
Trachea, bronchus and lung cancer	C33-C34	48.5	79.8	21.7	48.0	84.4	17.4	43.1	78.1	12.8
Breast cancer	C50	19.1	0.5	35.0	21.7	0.2	39.7	16.9	0.3	31.4
Cervix uteri cancer	C53	-	-	10.7	-	-	10.8	-	-	12.3
Prostate cancer	C61	-	36.1	-	-	39.6	-	-	33.9	-
Diabetes	E10-E14	12.2	9.6	14.4	23.6	15.0	30.9	8.6	7.8	9.4
Ischaemic heart disease	I20-I25	290.0	274.5	303.3	406.5	414.7	399.6	457.5	436.8	475.5
of which myocardial infarction	I21-I22	40.8	44.7	37.4	60.8	76.6	47.5	41.1	46.8	36.1
Cerebrovascular diseases	I60-I69	92.5	80.6	102.6	212.4	172.1	246.2	176.5	139.3	208.7
Atherosclerosis	I70	13.3	10.5	15.7	15.5	13.7	17.1	4.2	4.4	3.9
Pneumonia	J12-J18	10.8	15.1	7.2	16.2	22.3	11.0	12.2	17.2	7.9
Chronic bronchitis, asthma	J41-J46	16.2	23.6	9.8	14.6	23.5	7.2	22.9	38.4	9.6
Alcoholic liver disease	K70	12.3	18.8	6.8	7.3	11.2	4.0	14.1	20.6	8.4
Fibrosis and cirrosis of liver	K74	5.6	6.6	4.7	10.7	14.0	8.0	14.8	20.3	10
Transport accidents	V01-V99	9.0	14.7	4.2	9.7	17.3	3.3	11.2	18	5.4
Falls	W00-W19	6.4	9.2	4.0	10.5	15.9	6.0	10.8	16.1	6.2
Accidental drowning and submersion	W65-W74	4.5	7.1	2.2	7.2	13.4	2.0	7.4	13	2.5
Exposure to excessive natural cold	X31	4.9	8.1	2.1	7.1	10.4	4.3	8.8	13.6	4.7
Accidental poisoning by alcohol	X45	9.3	15.9	3.7	4.0	7.3	1.2	9.6	16.2	3.8
Intentional self-harm	X60-X84	14.3	26.6	4.5	21.4	38.8	6.7	31.6	54.6	11.6
Assault	X85-Y09	4.9	8.3	1.9	6.3	9.9	3.2	4.9	7.4	2.7

Infant mortality per 1000 live births

Years	Estonia	Latvia	Lithuania
1965	20.3	18.6	35.4
1970	17.7	17.9	19.4
1975	18.2	20.3	19.6
1980	17.1	15.4	14.4
1985	14.1	13.0	14.2
1990	12.3	13.7	10.3
1991	13.1	15.7	14.3
1992	15.7	17.6	16.5
1993	15.6	16.2	15.4
1994	14.4	15.7	14.0
1995	14.8	18.8	12.4
1996	10.5	15.9	10.0
1997	10.0	15.3	10.3
1998	9.3	15.0	9.2
1999	9.5	11.3	8.6
2000	8.4	10.4	8.5
2001	8.8	11.0	7.8
2002	5.7	9.9	7.9
2003	7.0	9.4	6.8
2004	6.4	9.4	7.9
2005	5.4	7.8	6.9
2006	4.4	7.6	6.8
2007	5.0	8.8	5.9
2008	5.0	6.7	5.0
2009	3.6	7.7	5.0
2010	3.3	5.7	4.3
2011	2.5	6.7	4.2



Structure of infant mortality in percentage in 2011



Infant mortality by cause per 10,000 live births in 2011

	Estonia		Latvia		Lithuania	
	Rate	%	Rate	%	Rate	%
Certain conditions originating in the perinatal period	10.9	44.5	37.4	55.6	19.7	47.2
Congenital malformations	6.8	27.8	16.3	24.2	13.3	31.9
Diseases of the respiratory system	0.7	2.9	1.1	1.6	0.6	1.4
Infectious and parasitic diseases	-	-	0.5	0.8	0.9	2.1
Injury, poisoning and other consequences of the external causes	4.1	16.7	2.2	3.2	2.9	6.9
Diseases of the nervous system and sensory organs	0.7	2.9	1.1	1.6	0.3	0.7
Diseases of the digestive system	-	-	0.5	0.8	0.3	0.7
Other causes	1.4	5.7	8.1	12.1	3.7	9.1
TOTAL	24.5	100	67.2	100	41.7	100

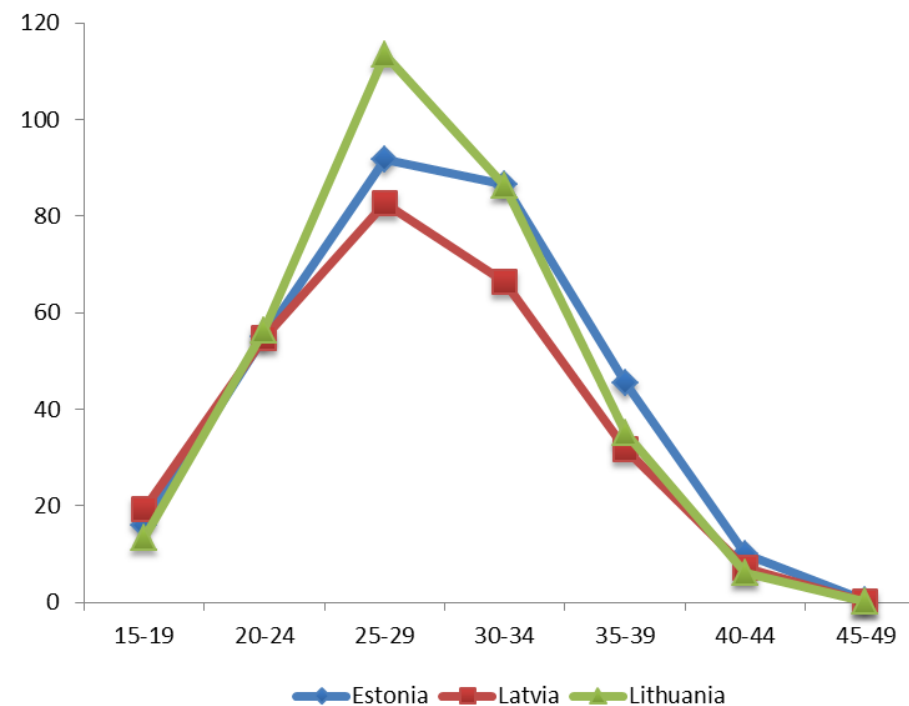
Perinatal, neonatal and maternal mortality in 2011

	Estonia	Latvia	Lithuania
Perinatal mortality per 1000 births	4.9	9.3	6.1
Stillbirth rate per 1000 births	3.9	6.0	4.3
Neonatal mortality per 1000 live births	1.6	4.3	2.6
Early neonatal mortality per 1000 live births	1.0	3.3	1.9
Maternal mortality per 100,000 live births	13.6	5.4	5.8
Standard perinatal mortality*	3.1	7.1	4.2
Standard stillbirth rate*	2.6	4.7	3.3

* Birth weight 1000 grams and more

Birth rates by age of mother in 2011
per 1000 females

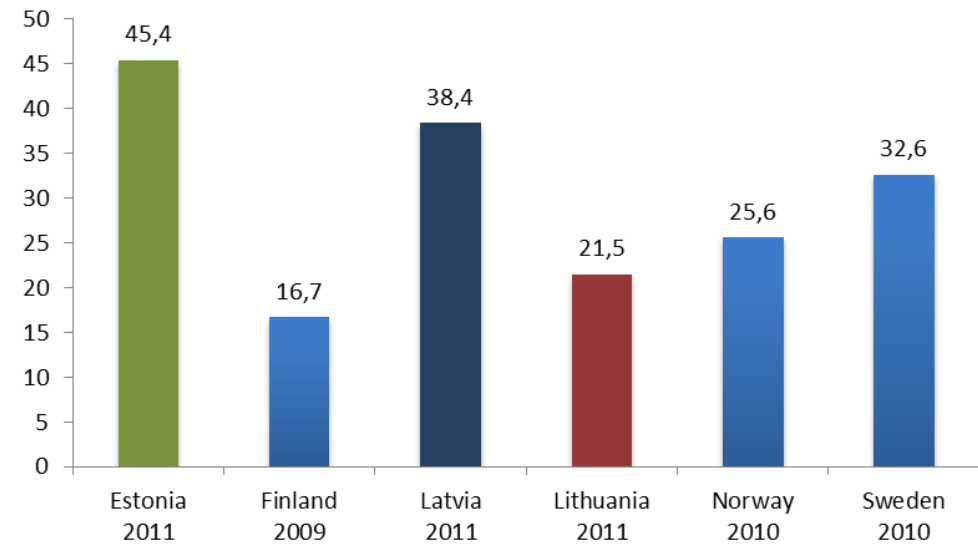
	Estonia	Latvia	Lithuania
Women aged 15-49	45.4	37.4	43.1
By specific age groups:			
15-19	16.0	19.3	13.4
20-24	54.9	54.6	56.3
25-29	91.8	82.7	113.4
30-34	86.5	66.3	86.2
35-39	45.3	31.7	35.2
40-44	10.0	7.1	6.1
45-49	0.3	0.2	0.2
Total fertility rate	1.52	1.34	1.55



Abortions in 2011

	Estonia	Latvia	Lithuania
Total abortions			
Total number	8654	10320	10466
Per 1000 women aged 15-49	26.8	21.1	13.1
Per 100 live births	59.0	55.9	36.2
Induced abortions			
Total number	6668	7089	6205
Per 1000 women aged 15-49	20.6	14.5	7.8
Per 100 live births	45.4	38.4	21.5
Percentage			
Spontaneous abortions	6.5	12.0	26.5
Legal abortions	74.4	67.4	57.7
Medical abortions	2.7	1.3	1.6
Other abortions	16.5	19.3	14.2

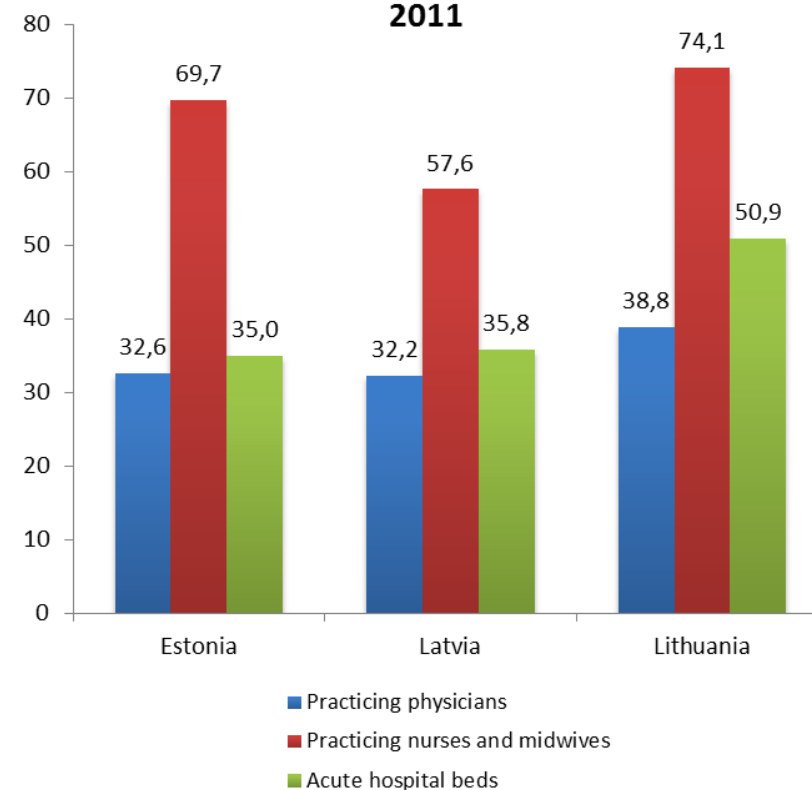
Induced abortions per 100 live births



Health facilities in 2011

	Estonia	Latvia	Lithuania
Hospitals	58	70	155
excl. nursing hospitals	35	64	105
Acute ¹ hospitals	32	31	73
Hospital beds thousand	7.2	12.1	27.2
per 10000 population	53.5	58.8	84.9
Hospital beds (excl. nursing) thousand	5.6	11.6	22.5
per 10000 population	41.9	56.3	70.5
Acute¹ hospital beds thousand	4.7	7.4	16.3
per 10000 population	35.0	35.8	50.9
Practicing physicians thousand	4.4	6.6	12.4
per 10000 population	32.6	32.2	38.8
Practicing dentists thousand	1.2	1.5	2.5
per 10000 population	8.8	7.1	7.8
Practicing nurses and midwives thousand	9.3 ²	11.8 ³	23.7
per 10000 population	69.7 ²	57.6 ³	74.1
Hospital admissions thousand	242.0	391.8	764.2
per 100 population	18.1	19.0	23.7
Hospital admissions (excl. nursing) thousand	225.9	377.8	732.3
per 100 population	16.9	18.4	22.7
Acute¹ hospital admissions thousand	212.1	318.2	667.9
per 100 population	15.8	15.5	20.7
Number of hospital day cases thousands	58.2	143.4	71
per 100 population	4.3	7.0	2.2
Physicians' outpatient visits⁴ millions	8.4	13.0	23.1
per 1 inhabitant	6.2	6.3	7.2

Physicians, nursing professionals and acute hospital beds per 10.000 population in 2011



¹ Acute hospitals/beds/admissions – nursing, palliative care, geriatrics, rehabilitation, tuberculosis and psychiatric hospitals/beds/admissions are excluded; for Estonia - short-term (with ALOS up to 18 days) rehabilitation care beds are included.

² Including associate professional nurses (with medical specialty)

³ Including physician's assistants (feldshers)

⁴ Dentist visits are excluded

Practising physicians* by speciality at the end of 2011

	Estonia		Latvia ¹		Lithuania	
	Number	Per 10,000 population	Number	Per 10,000 population	Number	Per 10,000 population
TOTAL	4372	32.6	6568	32.2	12407	38.8
of them:						
Family doctors / general practitioners	869	6.5	1311	6.4	1854	5.8
Internal medicine	527	3.9	671	3.3	2142	6.7
Surgery	419	3.1	608	3	1181	3.7
Paediatrics	163	1.2	307	1.5	1040	3.3
Gynaecology (including obstetrics)	268	2.0	410	2	657	2.1
Oncology	37	0.3	61	0.3	101	0.3
Otolaryngology	99	0.7	145	0.7	272	0.9
Ophthalmology	123	0.9	206	1	344	1.1
Anaesthesiology	271	2.0	341	1.7	681	2.1
Neurology	120	0.9	227	1.1	435	1.4
Psychiatry	183	1.4	246	1.2	529	1.7
Addiction specialists	-	-	60	0.3	20	0.1
Tuberculosis	-	-	107	0.5	7	0.02
Infectology	38	0.3	52	0.3	59	0.2
Epidemiology	-	-	17	0.1	-	-
Dermatology & venerology	76	0.6	119	0.6	168	0.5
Radiology	182	1.4	240	1.2	461	1.4
Pathology	41	0.3	37	0.2	60	0.2
Forensic medicine	-	-	2	0.01	50	0.2
Laboratory	145	1.1	158	0.8	89	0.3
Hygiene	-	-	2	0.01	-	-
Others	802	6.0	1241	6.1	2257	7.1

* Practising physicians – persons who have completed studies in medicine at university level (granted by adequate diploma), who are licensed to practice and who provide services directly to patients. Data do not include the practising physicians employed in the state administration institutions.

¹ - Besides that there are practising physicians in the state administration institutions: 1 epidemiologist, 47 specialists of forensic medicine and 19 specialists of hygiene.

Hospital beds by speciality at the end of 2011

	Estonia			Latvia ¹			Lithuania		
	Number of beds	Per 10000 population	%	Number of beds	Per 10000 population	%	Number of beds	Per 10000 population	%
TOTAL	7165	53.5	100	12111	58.8	100	27175	84.9	100
of which:									
Internal medicine	1280	9.6	17.9	1891	9.2	15.6	4913	15.4	18.1
Rehabilitation	314	2.3	4.4	705	3.4	5.8	1682	5.3	6.2
Surgery (including orthopaedics)	1210	9.0	16.9	2243	10.9	18.5	4489	14.0	16.5
Oncology (including radiology)	170	1.3	2.4	553	2.7	4.6	696	2.2	2.6
Otolaryngology	24	0.2	0.3	104	0.5	0.9	286	0.9	1.1
Ophthalmology	62	0.5	0.9	83	0.4	0.7	295	0.9	1.1
Obstetrics	279	2.1	3.9	445	2.2	3.7	803	2.5	3.0
Gynaecology	175	1.3	2.4	292	1.4	2.4	636	2.0	2.3
Neurology	163	1.2	2.3	610	3.0	5.0	1474	4.6	5.4
Dermatology & venerology	25	0.2	0.3	12	0.1	0.1	114	0.4	0.4
Infectious	180	1.3	2.5	560	2.7	4.6	461	1.4	1.7
Tuberculosis	187	1.4	2.6	640	3.1	5.3	1210	3.8	4.5
Paediatrics	266	2.0	3.7	576	2.8	4.8	1410	4.4	5.2
Psychiatry	735	5.5	10.3	2396	11.6	19.8	3094	9.7	11.4
Addiction treatment	-	-	-	261	1.3	2.2	274	0.9	1.0
General & nursing	1558	11.6	21.7	740	3.6	6.1	4626	14.5	17.0

¹ Hospital beds average per year, excluding short-term social care beds

Selected notifiable diseases per 100,000 population in 2011

	ICD-10	Estonia	Latvia	Lithuania
Salmonella infections	A02	28.7	52.9	64.3
Bacillary dysentery	A03	1.6	0.5	1.2
Enteritis Rotaviralis	A08.0	170.7	182.6	146.4
Other intestinal infections	A04, A05, A08.1-5, A09	119.1 ¹	338.9 ²	486.9
Diphtheria	A36	-	0.3	0.03
Whooping cough	A37	35.7	0.5	0.9
Meningococcal infection	A39	0.6	0.6	2.5
Measles	B05	0.5	0.05	0.2
Tick-borne viral encephalitis	A84	18.7	20.8	11.3
Viral hepatitis, total	B15-B19	30.4	75.8	7.1
A	B15	11.5	2.5	0.5
B	B16.2, B16,9	1.2	3.1 ³	1.9
C	B17.1	1.3	3.3	1.3
Acute upper respiratory infections	J00-J06	13348.2 ⁴	...	19970.7
Influenza	J09-J11	409.6	...	1290.9
Syphilis	A50-A53	5.0	6.9	8.5
Gonorrhoea	A54	13.1	26.7	7.7
AIDS	B20-B24	2.9	4.8	0.6
HIV carrier	Z21	27.6	14.5 ⁵	5.2
Incidence of tuberculosis (excl. relapses)	A15-A19	19.8	38.3	47.6
Incidence of malignant neoplasms	C00-C97	531.2 ⁶	557.9	554.3

¹ A04.0-6, 8-9; A05; A08.1-5

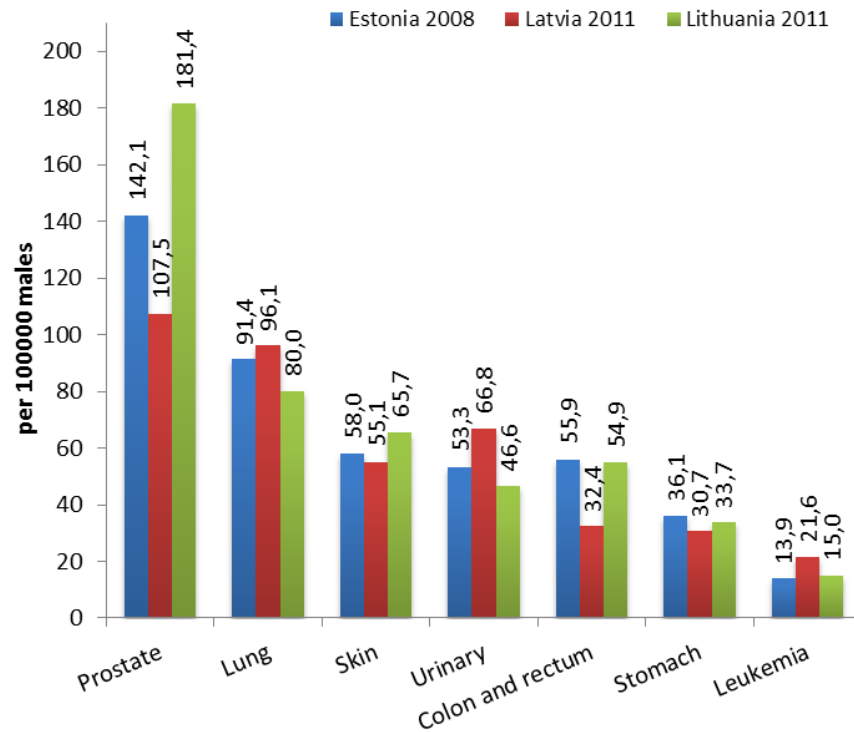
² A04; A05; A07.9; A08.1-4; A09

³ B16 ⁴ J06 ⁵ Z21; R75

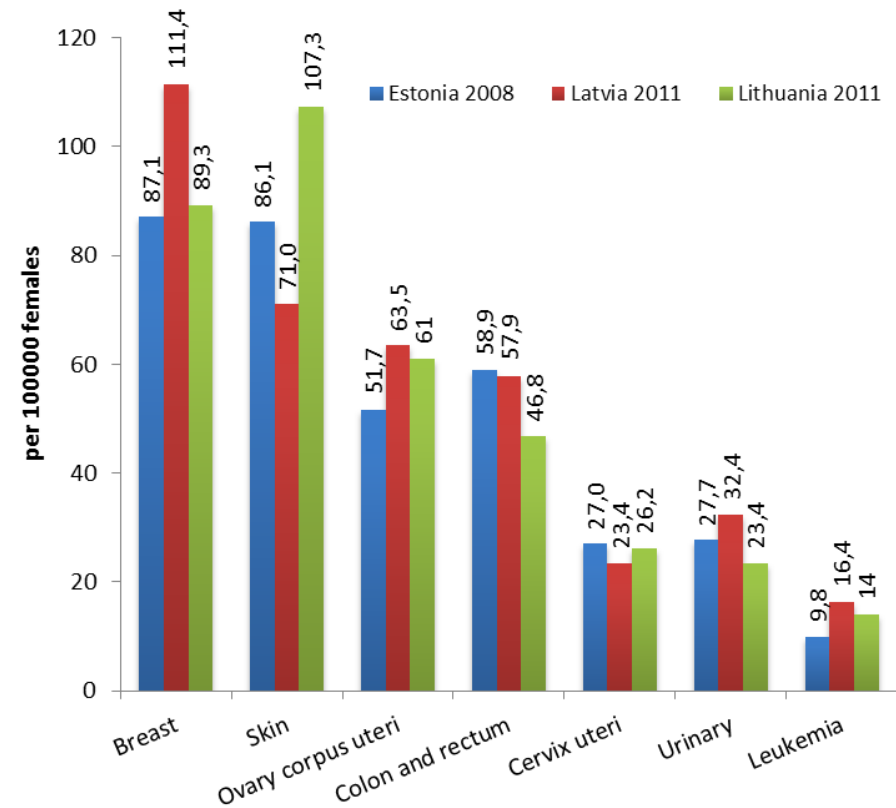
⁶ data for 2008

Incidence of malignant neoplasms by main sites

Males



Females



Sources:

EE: Estonian Cancer Registry

LV: The Centre for Disease Prevention and Control of Latvia

LT: Institute of Oncology of Vilnius University, Cancer register

Hospital beds use by speciality in 2011

	Estonia					Latvia ¹					Lithuania ²				
	Admission per 1000 pop.	Bed occupancy		Average length of stay	Bed turnover	Admission per 1000 pop.	Bed occupancy		Average length of stay	Bed turnover	Admission per 1000 pop.	Bed occupancy		Average length of stay	Bed turnover
		Days	%				Days	%				Days	%		
TOTAL	180.6	272.0	74.5	7.8	35.0	190.4	273.1	74.8	8.4	32.4	255.9	282.7	77.5	9.3	30.4
Internal medicine	38.5	290.4	79.6	6.5	43.5	38.2	264.2	72.4	6.1	43.2	55.3	295.3	80.9	7.6	38.8
Rehabilitation	4.9	287.7	78.0	11.5	24.1	8.1	305.8	83.8	13.0	23.6	6.0	261.9	71.8	20.8	12.6
Surgery (including orthopaedics)	45.6	267.6	73.3	5.0	53.1	45.3	266.8	73.1	6.8	49.2	65.9	249.4	68.3	5.2	47.8
Oncology (include radiology)	3.7	274.3	75.1	7.2	38.5	7.2	231.8	63.5	8.6	27.0	7.4	288.6	79.1	8.4	34.3
Otolaryngology	7.0	250.0	68.5	1.6	158.0	2.8	227.2	62.2	4.0	57.1	6.0	238.8	65.4	3.5	67.8
Ophthalmology	1.3	134.5	36.8	1.8	73.2	2.9	198.7	54.4	2.7	73.1	8.4	219.2	60.1	2.3	93.8
Obstetrics	14.2	194.8	53.4	2.7	64.0	10.8	222.2	60.9	4.5	56.4	12.4	213.4	58.5	4.3	49.7
Gynaecology	9.5	192.1	52.6	2.6	74.2	8.8	218.8	59.9	3.5	62.4	12.7	206.6	56.6	3.1	65.8
Neurology	6.1	287.1	78.7	5.6	50.0	11.2	285.2	78.1	5.8	38.7	17.0	307.3	84.2	8.2	37.3
Dermatology & venerology	6.3	266.4	73.0	9.4	28.5	0.1	87.7	24.0	3.7	23.7	1.0	287.7	78.8	10.1	28.5
Infectious	0.9	243.1	66.6	5.0	49.1	14.5	258.1	70.7	4.8	53.9	8.2	273	74.8	4.5	60.6
Tuberculosis	0.6	287.3	78.7	66.8	4.1	3.2	261.2	71.6	25.0	10.5	1.6	317.3	86.9	76.7	4.1
Paediatrics	11.3	239.4	65.6	3.8	60.9	12.6	252.1	69.1	5.6	45.1	21.5	251.3	68.8	5.0	50.6
Psychiatry	9.8	319.2	87.5	17.2	18.5	8.6	328.1	90.0	44.7	7.3	9.8	293.4	80.4	27.2	10.8
Addiction treatment	-	-	-	-	-	7.1	251.7	68.9	4.5	56.0	1.8	267.1	73.2	12.7	21.1
General & nursing	12.0	290.2	79.5	26.5	10.9	8.8	241.1	66.1	9.4	25.7	8.9	330.3	90.5	48.1	6.9

¹ Excluding short-term social care beds

² Including hospital day cases (about 7% of admissions)

Discharges¹ by groups of diseases in 2011

	Estonia ²				Latvia ³				Lithuania			
	Children (0-14)		Adults (15 +)		Children (0-17)		Adults (18 +)		Children (0-17)		Adults (18 +)	
	discharges per 1000 pop.	average length of stay	discharges per 1000 pop.	average length of stay	discharges per 1000 pop.	average length of stay	discharges per 1000 pop.	average length of stay	discharges per 1000 pop.	average length of stay	discharges per 1000 pop.	average length of stay
Certain infectious and parasitic diseases	25.3	2.9	4.5	16.1	25.0	4.9	5.8	16.5	29.5	4.1	5.0	21.3
Neoplasms	2.8	3.9	21.0	8.2	3.6	7.3	17.8	8.5	3.1	8.5	23.7	9.9
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanisms	0.9	3.8	1.4	7.2	1.0	5.8	1.0	6.7	0.9	5.5	1.5	7.0
Endocrine, nutritional and metabolic diseases	1.7	5.8	3.8	7.4	3.0	10.9	2.8	7.0	3.2	7.6	4.1	8.7
Mental and behavioural disorders	5.5	10.2	12.2	16.9	9.2	28.6	18.0	23.5	7.2	13.6	12.3	23.7
Diseases of the nervous system	5.4	6.3	5.3	9.5	9.6 ⁴	7.3 ⁴	11.0 ⁴	5.8 ⁴	8.8	9.9	13.0	10.3
Diseases of the eye and adnexa	0.7	1.1	1.3	2.1					3.2	6.2	6.3	2.9
Diseases of the ear and mastoid process	4.9	3.4	1.0	4.0					2.4	5.5	1.8	7.0
Diseases of the circulatory system	1.2	3.4	38.2	10.7	2.5	7.2	35.4	7.1	2.6	4.7	65.1	12.5
Diseases of the respiratory system	43.7	3.3	11.5	6.0	70.1	5.6	10.8	7.4	75.0	6.3	14.5	8.9
Diseases of the digestive system	8.4	2.6	15.9	5.0	20.2	3.6	14.9	5.7	16.5	4.0	18.8	6.5
Diseases of the skin and subcutaneous tissue	2.6	3.4	3.1	8.4	5.5	4.5	2.5	7.9	6.0	4.9	3.3	9.5
Diseases of the musculo-skeletal and connective tissue	2.3	3.8	12.7	6.5	5.1	9.5	14.1	8.9	6.7	11.6	17.1	9.4
Diseases of the genitourinary system	4.6	3.7	10.5	4.4	7.2	5.6	10.8	4.6	6.1	5.1	14.6	5.3
Pregnancy, childbirth and puerperium ⁵	0.1	3.2	36.1	2.7	3.0	4.1	32.8	4.2	2.4	4.3	32.0	4.1
Certain conditions originating in perinatal period	16.5	6.9	-	-	11.9	7.6	-	-	19.2	6.0	-	-
Congenital malformations, deformations and chromosomal abnormalities	7.5	5.1	0.5	5.7	6.1	7.5	0.3	6.2	7.1	6.9	0.4	6.9
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4.6	2.2	1.3	3.8	1.2	12.6	0.2	4.7	9.0	14.2	1.7	4.0
Injury, poisoning and certain other consequences of external causes	10.7	2.7	12.3	8.5	17.9	3.6	16.5	7.1	16.6	4.8	18.2	10.0
Factors influencing health and contact with health services	4.1	3.9	1.4	5.7	-	-	-	-	9.2	3.6	4.4	13.3
TOTAL	153.5	4.0	177.7	8.1	200.5	6.7	179.9	8.7	233.8	6.4	243.2	10.3

¹ Excluding hospital day cases

² Deceased are included, healthy newborns are excluded

³ Excluding short-term social care beds, patients transferred to another hospital or died patients

⁴ Diseases of the nervous system and sense organs ⁵ Per 1000 female population

Surgical operations¹ in the hospitals in 2011

	Estonia			Latvia			Lithuania		
	Number	Per 100,000 population	%	Number	Per 100,000 population	%	Number	Per 100,000 population	%
TOTAL	79294	5917.8	100	119184	5790.7	100	262270	8139.5	100
On the nervous system	2551	190.4	3.2	3222	156.5	2.7	7952	246.8	3.0
On the endocrine system	638	47.6	0.8	624	30.3	0.5	2168	67.3	0.8
On the eye	1751	130.7	2.2	3942	191.5	3.3	17537	544.3	6.7
On the ear, nose, throat, mouth, pharynx, facial bones and joints	9866	736.3	12.4	5737	278.7	4.8	18339	569.1	7.0
On the respiratory system	1233	92.0	1.6	1934	94.0	1.6	8960	278.1	3.4
On the heart and central vessels	5308	396.1	6.7	8897	432.3	7.5	28692	890.5	10.9
On the peripheral vessels and lymphatic system	3097	231.1	3.9	3390	164.7	2.8			
On the digestive system and spleen	12657	944.6	16.0	13555	658.6	11.4	45658	1417.0	17.4
On the urinary organs	2653	198.0	3.3	4874	236.8	4.1	10556	327.6	4.0
On the prostate ²	1078	174.5	1.4				6173	412.5	2.4
On female genital organs ³	7987	1106.1	10.1	14447	1292.6	12.1	25720	1490.4	9.8
Obstetrical operations ³	10937	1514.6	13.8	15453	1382.6	13.0	21651	1590.9	8.3
On the musculoskeletal system	13828	1032.0	17.4	25650	1246.2	21.5	51263	1590.9	19.5
On the breast	1008	75.2	1.3	2024	98.3	1.7	3223	100.0	1.2
On the skin and subcutaneous tissue	3747	279.6	4.7	11332	550.6	9.5	14378	446.2	5.5
Other procedures	955	71.3	1.2	4103	199.4	3.4	-	-	-

¹ Hospital day cases are excluded

² Per 100,000 male population ³ Per 100,000 female population

Sales of medicinal products by ATC group in 2011
DDD/1 000 inhabitants/day

ATC group	Estonia	Latvia	Lithuania
A Alimentary tract and metabolism	121.1	103.7	66.2
B Blood and blood forming organs	74.6	70.2	38.1
C Cardiovascular system	355.6	218.1	225.5
D Dermatologicals	1.5	0.3	0.3
G Genitourinary system and sex hormones	52.0	9.2	7.5
H Systemic hormonal preparations, excl. sex hormones and insulins	19.4	17.8	21.9
J Antiinfectives for systemic use	17.9	15.0	17.3
L Antineoplastic and immunomodulating agents	7.7	4.1	4.9
M Musculo-skeletal system	63.1	59.3	48.3
N Nervous system	90.6	64.6	76.8
P Antiparasitic products, insecticides and repellents	0.8	0.7	0.5
R Respiratory system	63.4	45.3	40.2
S Sensory organs	16.8	0.7	11.2
V Various	0.1	0.05	0.03
Total	884.6	609.0	558.7

Sources:

EE: State Agency of Medicines

LV: The State Agency of Medicines of Latvia

LT: State Medicines Control Agency

Average salary of medical personnel in 2011
(Average salary, including additional payments, EUR)

	Estonia	Latvia	Lithuania
Physicians	1704	992	1131
Nurses	867	573	576

Notes: Average salary includes personal income tax, and other taxes paid by the employee. It does not include social tax and other social contributions paid by the employer. The average monthly wage includes basic additional remuneration, additional payments for evening work, night work, work on days off or during public holidays and additional payments for overtime. Informal payments are not included.

EE:

Physicians average salary includes dentists and resident physicians.

Nurses average salary includes midwives and dental nurses.

Source of data: National Institute for Health Development, Department of Health Statistics. Annual report on hourly wages of health care personnel in March.

Coverage:

- All health care providers, both public and private sectors.
- The calculation of average monthly wage involves only full-time employees, i.e. those who worked with the full workload and worked for the whole month under survey.
- The average monthly wage includes irregular additional payments (quarterly and annual bonuses and other irregular performance and value payments) which are paid in March.

LV:

Physicians average salary includes dentists, functional specialists (e.g. physiotherapists, speech therapists, dietary specialists, ergotherapy specialists etc.).

Nurses average salary includes physician's assistants, midwives, dental technicians, laboratory technicians, dental hygiene specialists, dentist's assistants.

Source of data: the National Health Service of Latvia www.vmnvd.gov.lv

Coverage:

- Health care establishments providing health care services that are covered from the state budget.

LT:

Nurses average salary includes physician's assistants, midwives, dental technicians, laboratory technicians, dental hygiene specialists, dentist's assistants.

Source of data: physicians salary - Statistics Lithuania, nurses salary – National Health Insurance Fund

Coverage:

- Nurses salary includes health care institutions (public or private) having contracts with National Health insurance Fund only.

Health care expenditure (in millions) in 2011
(Data calculated using OECD methodology of System of Health Accounts)

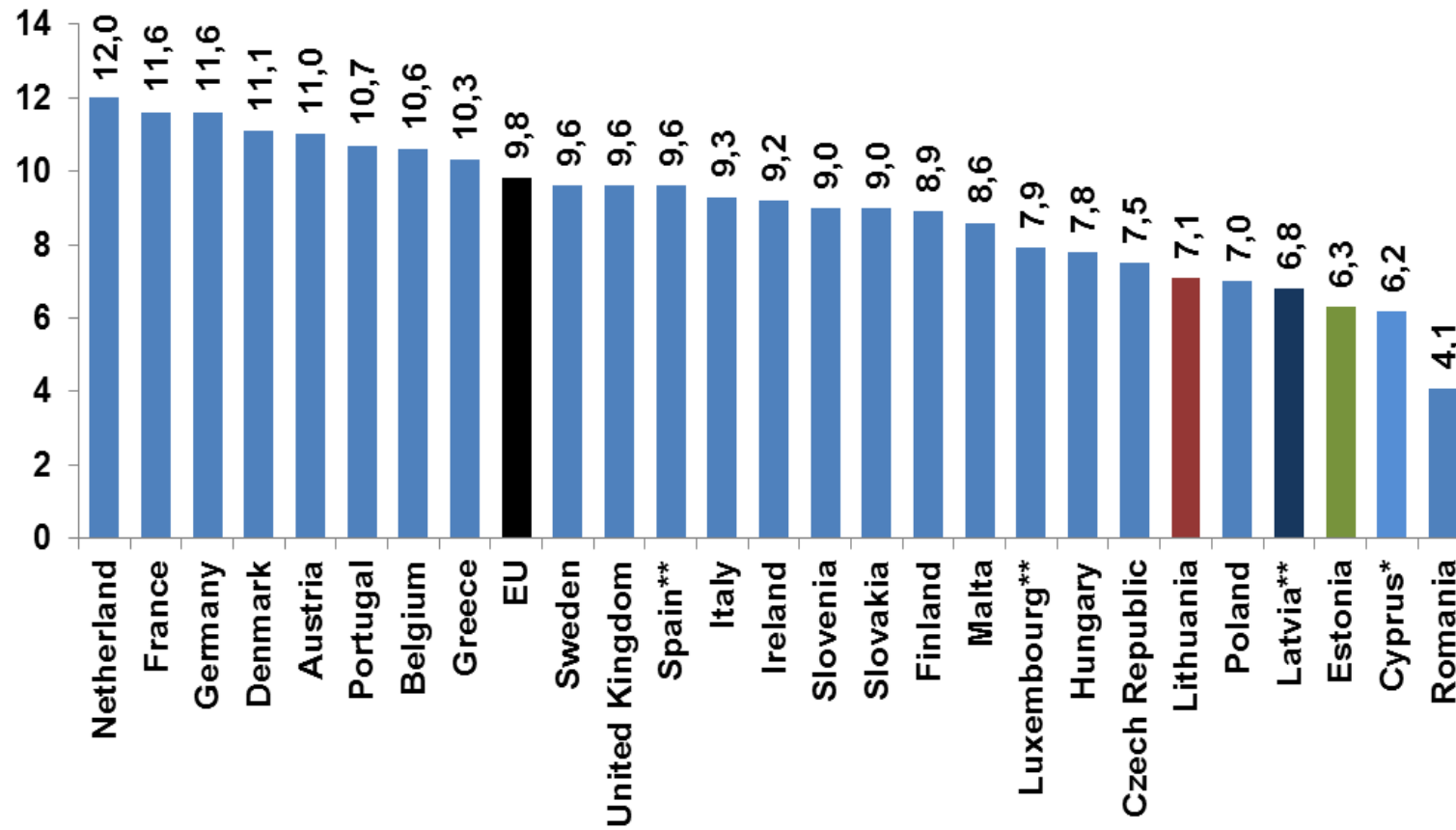
	Estonia ¹	Latvia ²	Lithuania ³
Total health care expenditure (in national currency):	944.6	894.0	7326.9
public	749.3	532.0	5066.5
of which social security funds	647.7	...	4313.1
private	181.7	331.2	2026.2
of which private households out-of-pocket expenditure	165.9	322.4	1980.5
Current expenditure on health care (in national currency)	932.8	814.2	7013.6
Expenditure on gross capital formation in health care (in national currency)	11.9	79.8	313.2
Gross domestic product (in national currency)	15951.4	13070.4	106369.9
Gross domestic product (in Euro)	15951.4	18597.7	30806.9
Total health care expenditure (in Euro)	944.6	1272.0	2122.0
Total health care expenditure per capita (in Euro)	704.9	594.0	658.6
Total expenditure on health care as percentage of GDP (%)	5.9	6.8	6.9
Public expenditure on health care as percentage of GDP (%)	4.7	4.1	4.8
Private expenditure on health care as percentage of GDP (%)	1.1	2.5	1.9
Public expenditure on health care as percentage of total expenditure	79.3	59.5	69.2
Expenditure on gross capital formation as percentage of total expenditure	1.3	8.9	4.3
The structure of current expenditure on health care by health care functions (%):			
curative care	53.3	52.0	49.6
rehabilitative care	2.1	1.5	4.2
long-term care	4.4	4.0	8.0
ancillary services to health care	11.1	7.5	5.9
medical goods dispensed to out-patients	24.1	28.6	29.0
prevention and public health services	2.8	3.1	1.1
health administration and health insurance	2.3	3.3	2.1

¹ all data in EUR

² 2009 data

³ preliminary data

Total health care expenditure as % of GDP in EU member states in 2010



* 2008 data, ** 2009 data

Obstetric Definitions

Live birth -	A foetus that after complete expulsion or extraction from its mother breathes or shows any other evidence of life, irrespective of the duration of the pregnancy.		standard rate is used for international comparison including births with a weight of 1000 g or more.
Still birth -	Death prior to the complete expulsion or extraction from its mother of a product of conception after 22 weeks of gestation. The standard rate is used for international comparison including births with a weight of 1000 g or more.	Maternal death -	The death of a woman while pregnant or within 42 days after termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes.
Infant death -	A live-born infant who dies during the first year of life.	Abortion -	Spontaneous or induced (legal, therapeutic, criminal) abortion is the termination of pregnancy or artificial extraction of the product of the conception during the first 22 weeks of gestation.
Neonatal death -	Death occurring at the age of 0 to 27 full days of life (27 days 23 hours 59 min.). The first day of life is considered as day zero.		
Early neonatal death -	Death occurring at the age of 0 to 6 full days of life (6 days 23 hours 59 min.). The first day of life is considered as day zero.	Still birth rate -	The average number of children that would be born per woman if all women lived to the end of their childbearing years and bore children according to a given set of age-specific fertility rates.
Perinatal death -	Foetal deaths and live-born infants who die at the age of 0 to 6 full days of life. The		

Sources

1. Statistical Yearbook of Estonia 2012. Statistics Estonia. Tallinn, 2012
2. Statistical database on the website of Statistical Office of Estonia: <http://www.stat.ee>
3. Statistical data on the website of National Institute for Health Development: <http://www.tai.ee>
4. Health Statistics and Health Research Database of National Institute for Health Development: <http://www.tai.ee/tstua>
5. Databases of Central Statistical Bureau of Latvia
6. Statistical overviews, databases and surveys of the Centre for Disease Prevention and Control of Latvia
7. Statistical Yearbook of Health Care in Latvia, 2011: <http://www.spkc.gov.lv/>
8. Statistical Yearbook of Lithuania 2011; Department of Statistics to the Government of the Republic of Lithuania; Vilnius, 2012; <http://www.stat.gov.lt>
9. Demographic Yearbook 2011; Department of Statistics to the Government of the Republic of Lithuania; Vilnius, 2012; <http://www.stat.gov.lt>
10. Health Statistics of Lithuania 2011; Health Information Centre, Institute of Hygiene; Vilnius, 2012; <http://sic.hi.lt>
11. Health for All database, WHO Regional Office for Europe; <http://www.euro.who.int>

Further information:

National Institute for Health Development,
Hiiu 42, 11619 Tallinn, Estonia
Phone: 372-6593 900,
Fax: 372-6593 901,
E-mail: tai@tai.ee
Website: www.tai.ee
M. Jesse, Director

The Centre for Disease Prevention and Control of Latvia
22 Dunties Street, Riga, LV-1005, Latvia
Phone: +37167501590
Fax: +37167501591
e-mail: info@spkc.gov.lv
Website: <http://www.spkc.gov.lv>
I. Šmate, Director

Health Information Centre of Institute of Hygiene
Didzioji str. 22, LT-01128, Vilnius, Lithuania
Phone: + 370 52773303
Fax: + 370 52624583
E-mail: Institutas@hi.lt
Website: <http://sic.hi.lt>
Dr. R. Gurevicius, Head of Health Information Centre

Health in the Baltic Countries 2011

Editorial board:

National Institute for Health Development of Estonia:

N. Eigo, M. Rätsep, K. Karelson, R. Tilk, G. Kivisild, H. Luts

The Centre for Disease Prevention and Control of Latvia:

J. Misins, D. Mihalovska, Z. Lagzdina, M. Pasevska, I. Redovica, B. Zarina, I. Zile

Health Information Centre, Institute of Hygiene:

R. Gaidelyte, D. Tendziagolskyte