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HEALTH CARE OF THE SLOVAK REPUBLIC IN FIGURES 2016

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The publication Health care of Slovak Republic in figures 2016 is an overview of basic indicators of health statistics collected and processed by National Health Information centre. Data are compared primarily for the period of years 2014 to 2016, while we follow ten-year evolution in the diagrams. On the top of the demographic indicators the publication offers information on health status of the inhabitants, network and activities of health facilities, structure of work force in health service, and consumption of human medicines and medical devices.

Health status captures the monitored (number of persons monitored in specialised outpatient units up to 31. 12.) and newly reported patients (number of persons newly admitted for monitoring by specialised outpatient units, or reported by health care providers by means of ascertaining health status since 1. 1. to 31. 12.) with selected diseases in absolute and relative expressions. Health facilities recalls on number and types of health facilities in SR, on bed fund of institutional health care and on basic information about preventive inspections. The part about work force deals with registered number of health care workers in health and non-health professions, compares the age structure of physicians, dentists and nurses in years 2007 and 2016. Last part of the publication deals with volume and value consumption of prescribed drugs and medical devices reimbursed from public health insurance, and those sold from public pharmacies without prescription.

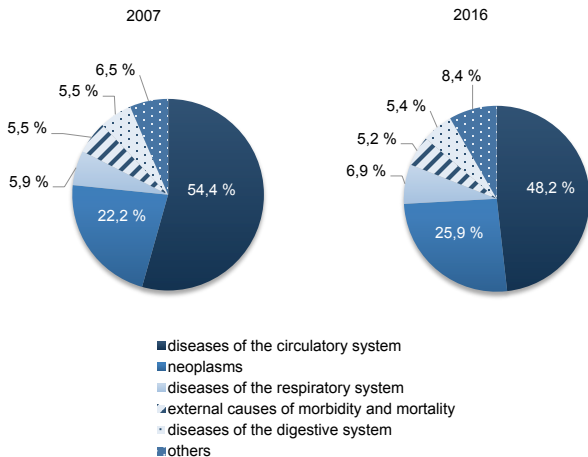
Explanations, acronyms and data sources are available in the end of the publication. Except of those already cited, data from next sources were used:

Statistical Office of SR – demographic indicators (abortions excluded),
Regional Office of Public Health SR in Banská Bystrica – reported communicable diseases,

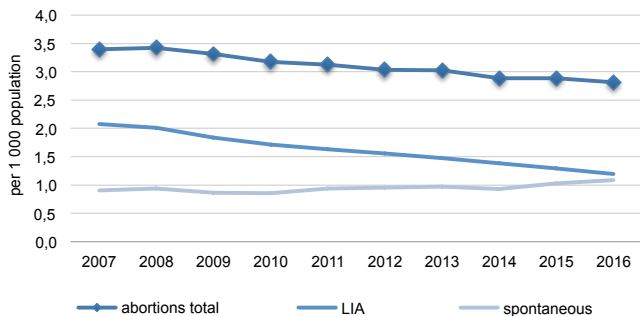
National Institute of Tuberculosis, Lung Diseases and Chest Surgery
in Vyšné Hágy – reported cases of tuberculosis.

Indicator	2014	2015	2016
Number of population as of December 31 (a)	5 421	5 426	5 435
Males	2 642	2 646	2 652
Females	2 779	2 780	2 784
Age structure of population in %			
0 – 14	15,3	15,3	15,5
15 – 64	70,7	70,2	69,9
65+	14,0	14,5	15,0
Life expectancy at birth (years)			
Males	73,2	73,0	73,7
Females	80,0	79,7	80,4
Live born (b)	10,2	10,3	10,6
Deaths (b)	9,5	9,9	9,6
Natural increase (b)	0,7	0,3	1,0
Net migration (b)	0,3	0,6	0,7
Total increase (b)	1,0	0,9	1,7
Infant mortality (c)	5,8	5,1	5,4
Neonatal mortality (c)	3,3	3,3	2,9
Mortality of the most common causes of death (d)			
Diseases of the circulatory system	465,5	477,6	464,8
Neoplasms	248,8	251,8	249,8
Diseases of the respiratory system	60,6	74,7	66,3
External causes of morbidity and mortality	51,3	56,2	50,4
Diseases of the digestive system	48,7	51,9	52,2
Abortions (e, f)	15 628	15 647	15 286
of which			
legally induced abortion	7 501	7 004	6 494
spontaneous	5 042	5 584	5 892
Number of abortions per 100 births	28,3	28,0	26,5
Number of LIA per 100 abortions	48,0	44,8	42,5
Females in aged 15 to 49 years using contraception (g)	20,2	18,6	17,0

Proportion of deaths by selected causes of death



Crude abortion rate



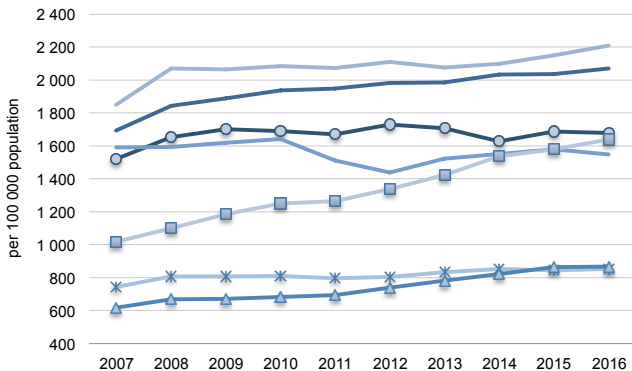
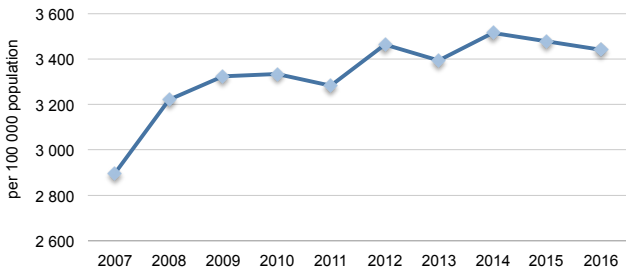
Indicator/ Diagnosis by ICD-10	2015		2016	
	Monitored	Newly registered	Monitored	Newly registered
Selected infectious diseases (h)				
Other salmonella infections (A02)	.	5 103	.	5 724
Tuberculosis (A15 – A19) (i)	.	317	.	296
Hepatitis A (B15)	.	883	.	1 362
Hepatitis B (B16)	.	65	.	50
Hepatitis C (B17.1)	.	24	.	32
HIV (Z21)	.	86	.	87
Syphilis (A50 – A53)	.	299	.	362
Diabetes mellitus (E10 – E14, O24) (g)	345 475	21 909	368 084	21 752
of which diabetics				
with diabetic nephropathy	45 229	4 355	47 069	4 522
with diabetic neuropathy	87 284	6 775	93 697	7 057
with diabetic foot lesions	8 269	1 240	8 563	1 300
with lower limb amputation	4 003	469	4 272	498
Mental and behavioural disorders (F00 – F99) (examined persons) (g)	406 758	74 151	395 197	74 130
of which				
Mental and behavioural disorders due to use of alcohol (F10)	32 216	8 036	29 729	7 248
Schizophrenia, schizotypal and delusional disorders (F20 – F29)	59 353	6 268	59 467	5 560
Reported cases (f)				
Treated drug users	.	2 720	.	3 253
Suicides	.	592	.	545
Suicide attempts	.	859	.	951
Diseases of the nervous system (g)				
Parkinson's disease (G20)	20 895	3 723	22 402	4 552
Alzheimer's disease (G30)	10 056	2 330	10 123	2 321
Sclerosis multiplex (G35)	15 158	1 556	11 347	1 639

Indicator/Diagnosis by ICD-10 per 100 000 population	2015		2016	
	Monitored	Newly registered	Monitored	Newly registered
Selected infectious diseases (h)				
Other salmonella infections (A02)	.	94,1	.	105,5
Tuberculosis (A15 – A19) (i)	.	5,9	.	5,5
Hepatitis A (B15)	.	16,3	.	25,1
Hepatitis B (B16)	.	1,2	.	0,9
Hepatitis C (B17.1)	.	0,4	.	0,6
HIV (Z21)	.	1,6	.	1,6
Syphilis (A50 – A53)	.	5,5	.	6,7
Diabetes mellitus (E10 – E14, O24) (g)	6 366,7	403,8	6 772,0	400,2
of which diabetics				
with diabetic nephropathy	833,5	80,3	866,0	83,2
with diabetic neuropathy	1 608,6	124,9	1 723,8	129,8
with diabetic foot lesions	152,4	22,9	157,5	23,9
with lower limb amputation	73,8	8,6	78,6	9,2
Mental and behavioural disorders (F00 – F99) (examined persons) (g)	7 496,1	1 366,5	7 270,9	1 363,9
of which				
Mental and behavioural disorders due to use of alcohol (F10)	593,7	148,1	547,0	133,3
Schizophrenia, schizotypal and delusional disorders (F20 – F29)	1 093,8	115,5	1 094,1	102,3
Reported cases (f)				
Treated drug users	.	50,1	.	59,9
Suicides	.	10,9	.	10,0
Suicide attempts	.	15,8	.	17,5
Diseases of the nervous system (g)				
Parkinson's disease (G20)	385,1	68,6	412,2	83,7
Alzheimer's disease (G30)	185,3	42,9	186,2	42,7
Sclerosis multiplex (G35)	279,3	28,7	208,8	30,2

Indicator/ Diagnosis by ICD-10	2015		2016	
	Monitored	Newly registered	Monitored	Newly registered
Diseases of the eye and adnexa (g)				
Glaucoma (H40 – H42)	223 980	27 327	235 060	33 515
Blindness (H54.0)	1 716	186	1 505	193
Diseases of the circulatory system (g)				
Hypertensive diseases (I10 – I15)	185 231	30 047	190 002	28 808
Ischaemic heart diseases (I20 – I25)	146 331	22 310	140 991	20 116
Cardiomyopathy (I42 – I43)	13 207	2 382	13 591	2 090
Cardiac arrhythmias (I44 – I45, I47 – I49)	118 341	21 298	120 340	19 894
Heart failure (I50)	27 902	5 330	28 238	4 935
Diseases of the respiratory system (g)				
Chronic lower respiratory diseases (J40 – J44, J47)	108 260	18 756	107 196	14 957
Asthma (J45, J46)	108 410	15 487	108 337	11 829
Skin diseases (examined persons) (g)				
Psoriasis (L40)	.	61 746	.	59 975
Dermatitis and eczema (L20 – L30)	.	346 733	.	344 277
Chronic kidney disease – CKD (g)				
Glomerular and tubulointerstitial diseases – 3., 4. stage of CKD (N00.0 – N08.8, N10 – N16.8)	40 867	.	44 163	.
Kidney failure – 5. stage of CKD (N17.0 – N19)	1 439	.	1 401	.
Patients in regular dialysis treatment	4 472	.	4 424	.
Occupational diseases (f)	.	328	.	316

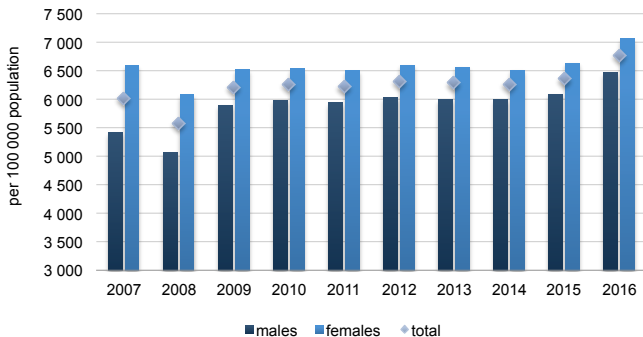
Indicator/Diagnosis by ICD-10 per 100 000 population	2015		2016	
	Monitored	Newly registered	Monitored	Newly registered
Diseases of the eye and adnexa (g)				
Glaucoma (H40 – H42)	4 127,7	503,6	4 324,7	616,6
Blindness (H54.0)	31,6	3,4	27,7	3,6
Diseases of the circulatory system (g)				
Hypertensive diseases (I10 – I15)	3 413,6	553,7	3 495,7	530,0
Ischaemic heart diseases (I20 – I25)	2 696,7	411,1	2 594,0	370,1
Cardiomyopathy (I42 – I43)	243,4	43,9	250,0	38,5
Cardiac arrhythmias (I44 – I45, I47 – I49)	2 180,9	392,5	2 214,0	366,0
Heart failure (I50)	514,2	98,2	519,5	90,8
Diseases of the respiratory system (g)				
Chronic lower respiratory diseases (J40 – J44, J47)	1 995,1	345,7	1 972,2	275,2
Asthma (J45, J46)	1 997,9	285,4	1 993,2	217,6
Skin diseases (examined persons) (g)				
Psoriasis (L40)	.	1 137,9	.	1 103,4
Dermatitis and eczema (L20 – L30)	.	6 389,9	.	6 334,0
Chronic kidney disease – CKD (g)				
Glomerular and tubulointerstitial diseases – 3., 4. stage of CKD (N00.0 – N08.8, N10 – N16.8)	753,1	.	812,5	.
Kidney failure – 5. stage of CKD (N17.0 – N19)	26,5	.	25,8	.
Patients in regular dialysis treatment	82,4	.	81,4	.
Occupational diseases (f)	.	6,0	.	5,8

Number of hospitalisations per 100 000 population, selected groups of diagnosis

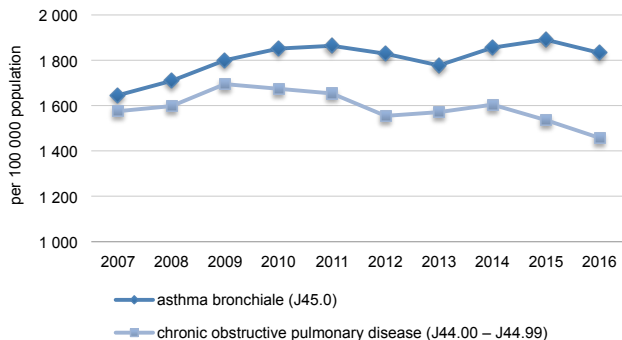


- ◆— Diseases of circulatory system
- ◆— Diseases of the digestive system
- ◆— Neoplasms
- Injury, poisoning and certain other consequences of external causes
- ◆— Diseases of the respiratory system
- Diseases of the musculoskeletal system and connective tissue
- *— Mental and behavioural disorders
- ▲— Diseases of the nervous system

Number of registered patients with diabetes mellitus by sex



Number of registered persons with asthma bronchiale and chronic obstructive pulmonary disease ¹⁾



¹⁾ I. – IV. stage of chronic obstructive pulmonary disease

HEALTH CARE FACILITIES

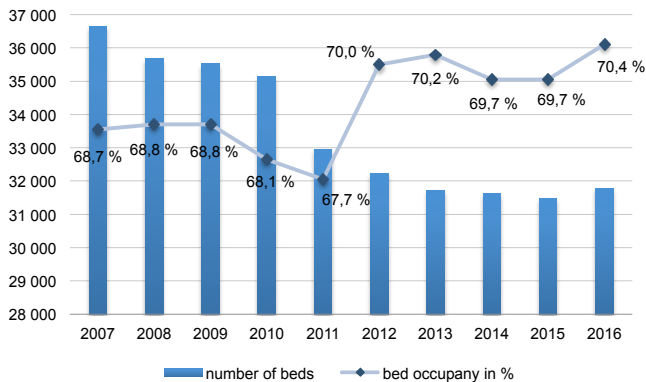
Indicator	2014	2015	2016
Number of health care facilities	13 040	13 099	13 160
Outpatient health care	10 141	10 131	10 124
of which			
general outpatient care units	2 863	2 837	2 846
specialised outpatient care units	6 157	6 148	6 120
emergency outpatient units	19	12	12
health care centres	71	73	72
nursing care services	179	186	179
outpatient medical first aid service units	80	84	87
Institutional health care	174	179	181
of which			
general hospitals	73	73	73
specialised hospitals	44	43	42
sanatoriums	17	18	18
hospice, nursing care facilities	12	14	18
natural healing spas, curative spas	27	30	29
Pharmaceutical care	1 749	1 833	1 935
pharmacies	1 597	1 680	1 774
retail sale of medical aids	152	153	161
Hematology and Transfusiology Facilities	12	11	11
Others (j)	964	945	909
General and dental outpatient health care, number of outpatient units			
General medicine for adults	2 048	2 049	2 062
General care for children and adolescents	1 093	1 065	1 052
Emergency department (outpatient unit) for adults	122	125	125
Emergency department (outpatient unit) for children and adolescents	69	69	77
Stomatology	2 307	2 298	2 271
Number of outpatient visits per 1 inhabitant (k)	12,4	12,5	12,6

Indicator	2014	2015	2016
Work positions of independent health care professionals (l)	24 388,92	24 693,30	24 872,87
Outpatient health care	11 143,50	11 088,20	11 028,81
of which			
general outpatient care units	2 701,85	2 655,79	2 670,96
specialised outpatient care units	6 130,87	6 099,87	6 173,57
emergency outpatient units	271,15	267,64	234,76
health care centres	647,96	645,77	568,58
nursing care services	2,00	–	1,35
outpatient medical first aid service units	219,34	222,18	253,11
Institutional health care including out-patient units	9 869,66	10 019,37	9 916,13
of which			
general hospitals	8 299,02	8 449,27	8 348,63
specialised hospitals	1 324,91	1 301,42	1 307,21
sanatoriums	98,85	108,67	106,27
hospice, nursing care facilities	19,44	19,34	21,00
natural healing spas, curative spas	126,66	140,04	131,39
Pharmaceutical care	3 281,70	3 479,55	3 826,54
pharmacies	3 274,70	3 471,10	3 817,79
retail sale of medical aids	7,00	8,45	8,75
Hematology and Transfusiology Facilities	85,39	90,60	84,26
Others (j)	8,67	15,58	17,13
General and dental outpatient health care, physician posts (m)			
General medicine for adults	1 852,87	1 813,45	1 865,21
General care for children and adolescents	1 002,60	991,05	952,46
Emergency department (outpatient unit) for adults	172,51	180,14	184,18
Emergency department (outpatient unit) for children and adolescents	111,80	101,81	105,51
Stomatology	2 360,47	2 326,11	2 352,43

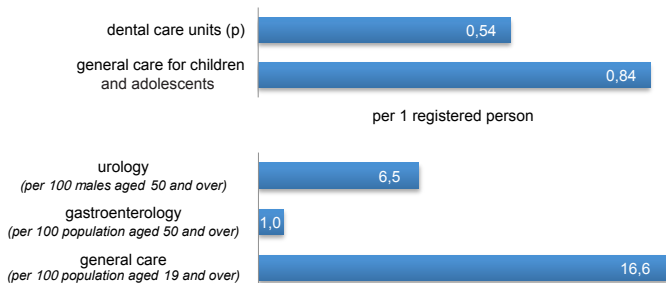
HEALTH CARE FACILITIES

Indicator	2014	2015	2016
Selected data on bed health care facilities (n)			
Number of units in bed health care facilities	1 219	1 222	1 252
Number of beds	31 619	31 471	31 785
of which for children	4 424	4 417	4 493
Number of beds per 1 000 population	5,8	5,8	5,8
Bed occupancy			
in days	245,4	245,1	247,4
in percentage	69,7	69,7	70,4
Number of hospitalised	988 691	990 465	1 015 649
Number of treatment days	7 758 412	7 714 540	7 855 722
Average length of stay in days	7,8	7,8	7,7
Number of physician posts	6 268,16	6 441,38	6 576,18
Number of beds per 1 physician post	5,0	4,9	4,8
Number of physician posts of nurses total	16 801,68	16 728,32	16 719,13
of which at the bedside	14 911,22	14 985,43	15 221,48
Number of beds in hospital health care (o)	31 348	31 172	31 412
in acute hospital care	26 642	26 441	26 493
in rehabilitative hospital care	800	800	844
in long-term hospital care	3 906	3 931	4 075
in another type of hospital care	–	–	–
Number of beds in nursing home facilities	263	291	365
Number of beds in natural healing health resorts (spa) and curative health resorts (spa)	10 733	10 896	11 406
Number of Slovak patients treated in balneological care	112 331	115 204	131 137
Number of daily places in outpatient and institutional health care	5 316	5 037	5 046
of which in day care units	2 705	2 563	2 630
Number of operated in day care units	204 540	211 416	216 830

Number of beds in institutional health care (n)



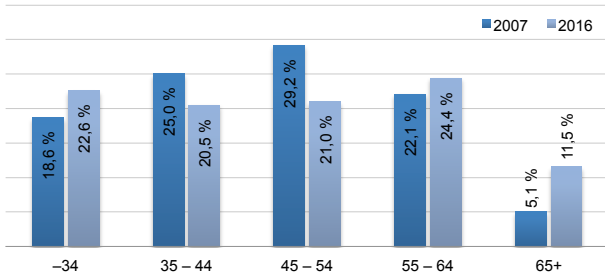
Preventive examinations in outpatient units



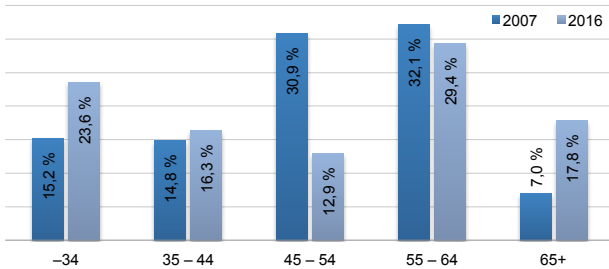
Registration number of workforce in health care – natural persons	2014	2015	2016
Workforce total	105 382	106 682	107 896
Health workforce total	79 729	80 318	81 534
of which			
physicians	18 574	18 719	18 864
dentists	2 642	2 647	2 701
pharmacists	3 644	3 826	4 183
nurses	31 166	30 904	31 183
midwives	1 795	1 760	1 834
medical laboratory assistants	3 175	3 147	2 994
pharmaceutical laboratory assistants	2 161	2 182	2 304
physiotherapists	1 818	1 901	1 905
emergency medical rescuers	1 773	1 816	1 864
medical assistants	2 213	2 452	2 858
radiologist technicians	1 291	1 314	1 323
hospital attendants	5 250	5 398	5 241
other health care workforce (r)	1 526	1 535	1 483
Non-health workforce total	24 241	24 928	24 913
of which			
technical and economic workforce	8 914	9 469	9 560
labour and operating workforce	14 769	14 870	14 753
educational workforce	381	390	412
science, research and development workforce	177	187	173
Government member and political representative	1	1	1
State employees	1 411	1 435	1 448
Structure of workforce according to founder			
in the founding competence of the Ministry of the Health of the SR	41 281	41 848	42 403
in the founding competence of other resorts	1 805	1 842	1 983
in the founding competence of Higher Territorial Unit	11 876	9 723	8 282
in the founding competence of other founders	50 420	53 269	55 228

Age structure

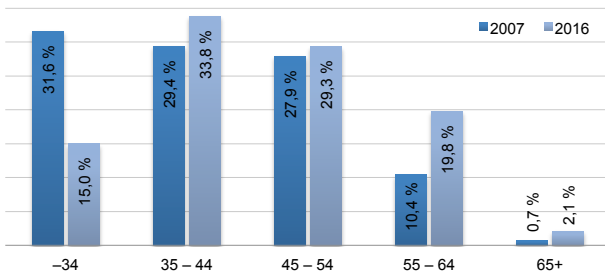
Physicians



Dentists

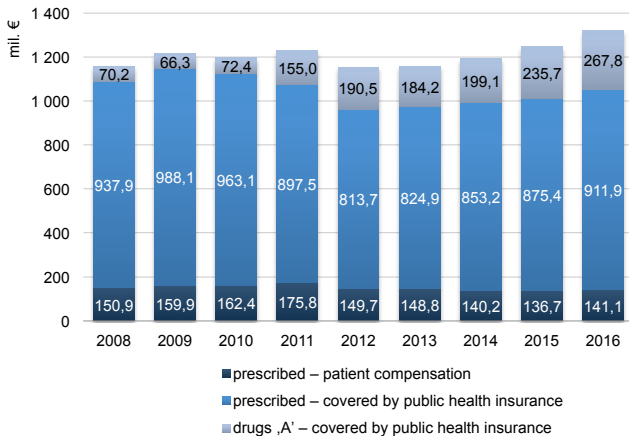


Sisters

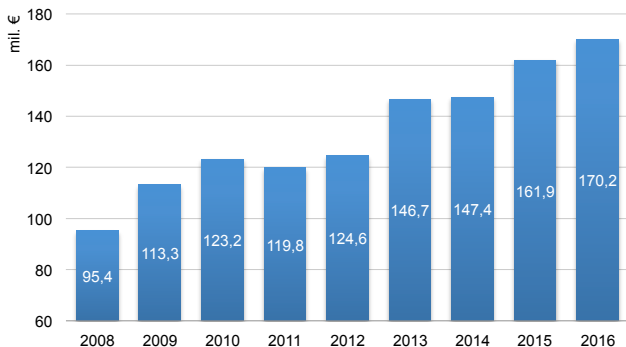


Indicator	2014	2015	2016
Consumption of drugs			
Prescribed and issued (covered by public health insurance)			
Number of packaging in pieces (thousands)	83 658	83 607	83 179
Reimbursed by health insurance company (thousands €)	853 151	875 409	911 861
Patient compensation (thousands €)	140 196	136 685	141 132
Covered by public health insurance – settlement type ‚A‘ (s)			
Number of packaging in pieces (thousands)	26 669	↗ 14 568	14 415
Reimbursed by health insurance company (thousands €)	199 088	235 720	267 760
Sold without a prescription in public pharmacies			
Number of packaging in pieces (thousands)	35 613	37 313	37 544
Payments from citizens (thousands €)	147 398	161 926	170 220
Consumption of medical aids			
Prescribed and issued (covered by public health insurance)			
Number of packaging in pieces (thousands)	114 792	122 813	128 461
Reimbursed by health insurance company (thousands €)	176 382	192 955	204 295
Patient compensation (thousands €)	6 026	6 415	7 424
Sold without a prescription in public pharmacies			
Number of packaging in pieces (thousands)	18 587	20 734	21 641
Payments from citizens (thousands €)	17 250	20 442	20 749

Consumption of drugs (mil. €) – covered by public health insurance



Consumption of drugs (mil. €) – sold without a prescription in public pharmacies



Explanatory notes

- (a) number of population in thousands
- (b) per 1 000 population
- (c) per 1 000 live births
- (d) number of deaths per 100 000 population
- (e) spontaneous, legally induced abortion, other abortions, extrauterine pregnancies
- (f) source: Health Status Reports
- (g) source: annual report on activity of the specialised out-patient care unit
- (h) source: Registry of Communicable Disease
- (i) source: National Health Registry
- (j) optical studio, dental laboratory, medical transport service, health care provider facility with a licence to perform independent health care practice
- (k) general and specialised outpatient care units, including home visiting service
- (l) registration number of workers in both regular and outside employment together recalculated on full-time employments in the following occupations: physician, dentist, pharmacist, other health worker
- (m) registration number of physician and dentist in both regular and outside employment together recalculated on full-time employments in occupations
- (n) excluding natural healing spa and curative spa
- (o) classification and updated by OECD Health Statistics methodology, June 2017
source: (<http://stats.oecd.org/>)
- (p) number of persons with preventive dental examinations
- (r) logopedist, psychologist, laboratory diagnostician, curative pedagogue, physicist
- (s) specific type of reimbursement, a health insurance company reimburses the cost of the given drug to a health care provider as non-deductible expenses within the outpatient unit health care service
- . data is not available
- ∕ cut in comparability of time series due to methodology or other reasons
- of which means to incomplete selection of items

Abbreviations

- LIA legally induced abortion