

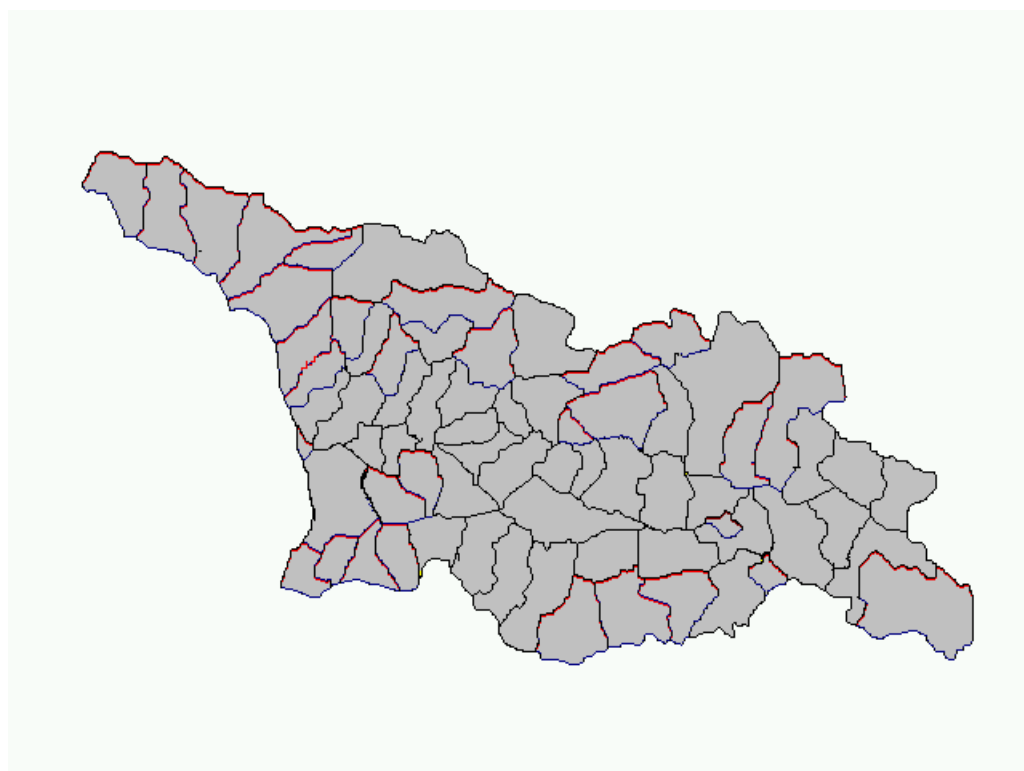
MINISTRY OF LABOUR, HEALTH AND SOCIAL AFFAIRS OF GEORGIA

**NATIONAL CENTRE FOR DISEASE CONTROL AND PUBLIC HEALTH
AFTER L. SAKVARELIDZE**

HEALTH AND HEALTH CARE

STATISTICAL YEARBOOK

GEORGIA 2008



TBILISI

2009

Data collected from statistical reports of the medical institutions of the Ministry of Labour, Health and Social Affairs, the Ministry of Defence, the Ministry of Internal Affairs and the Railway department of Georgia have been used in this yearbook. The book also contains vital statistics received from the Department of Statistics of the Ministry of Economic Development of Georgia.

The yearbook is prepared by the Departments of Statistics and Medical Classifications Development and Implementation of the National Centre for Disease Control and Public Health after L.Sakvarelidze of the Ministry of Labour, Health and Social Affairs of Georgia.

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INTRODUCTION

The yearbook "Health and Health Care" represents the annual edition of the Ministry of Labour, Health and Social Affairs containing the basic indicators of the population health status and resources of the health care system. The yearbook has been published since 1996.

The yearbook is prepared by the National Centre for Disease Control and Public Health after L.Sakvarelidze of the Ministry of Labour, Health and Social Affairs of Georgia on the basis of branch statistical reports.

2006-2008 data are presented according to the WHO International Classification of Diseases the Tenth Revision.

The methodology of the calculation, recommended by the WHO and the UNO, that provides comparability of indicators over countries, is applied at the calculation of the resulted indicators given in the yearbook. Definitions and formulas for the calculation of indicators can be found in the appendix of the yearbook.

The book contains indicators on the health care resource consumption, maternal and child health, and incidence and prevalence of diseases according to the classes of diseases, such as, communicable diseases, neoplasms, the circulatory system diseases, mental disorders, the genitourinary system diseases, endocrine diseases, the respiratory system diseases, and other. Also an analysis of regional data is shown in the yearbook, which gives an opportunity to determine the health care priorities not only for the country level but for regions as well.

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VITAL STATISTICS*

In 2008, in Georgia, according to the data provided by the Department of Statistics, the total number of **mid year population** was 4383800. 52.6 percent of the population lives in urban areas and 47.4 percent in rural areas of the country.

The share of females from the total population, accounted for 52.6 percent, males - for 47.4 percent, children under 15 years – for 17.6 percent and the population over 65 years old – for 14.5 percent. During the period of 2002-2008, the number of children under 15 years of age reduced to 3.4 percent, whereas the population over 65 years old rose to 1.6 percent.

In 2008, the Department of Statistics of Georgia had registered 56565 **live births**, including 31720 (56.1 percent) males and 24845 (43.9 percent) females. 76.7 percent of the live births were to women of 30 years old and younger.

From 90s to 2007 the tendency of postponing the second and third baby's birth had strengthened in the family planning processes in Georgia. Although in 2008, the percentage of the second baby increased to 3.5 percent, the percentage of the third baby – to 1.3 percent. The first newborns percent decreased to 5.3 accordingly.

From 1989 through 2005 the tendency of reducing of **birth rate** and **population natural growth rate** was evident. In 2006-2008 the both indicators started to grow. In 2008 the highest values of these indicators were significant: live births rate had become 12.9 and population growth rate had become 3.1. The natural decrease was recorded only in one region of Georgia – Racha–Lechkhumi and Kvemo Svaneti.

Georgian rural population had characterized with the high birth level on every stages of the vital development. For the last 10 years this indicator had decreased and in 2008 only 30.7 percent of live births were recorded in rural areas. Accordingly, the natural decrease of the rural population was significant in 5 regions of Georgia (Guria, Racha-Lechkhumi and Kvemo Svaneti, Imereti, Kakheti, Shida Kartli).

The **total fertility rate** in Georgia reached the normal reproduction level in the late 80s (2.16). From 1991 the indicator started to reduce and in 2005 it has reached the minimum value (1.39). The next years the value of the indicator has started to grow and in 2008 it equaled 1.67 child per one woman.

According to the data provided by the Department of Statistics, the **infant mortality rate** per 1000 live births decreased per 2005-2007, though in 2008, this indicator had grown and was 17.0.

According to the data provided by the Department of Statistics of Georgia, in 2008, number of **stillbirths** was 660 (stillbirth rate per 1000 births was 11.5).

In Georgia the **mortality rate** reached a maximum in 2004 and was equaled 11.3. In 2008, 43011 cases of death had recorded. 63.5 percent of all death cases had accounted in urban areas and 36.5 percent - in rural areas. Mortality rate in males is greater than in females: 11.2 and 8.5 accordingly.

* Data provided by the Department of Statistics of Georgia

Health and health care, Georgia, 2008

In 2008, the mortality structure, according to the ICD-10 classification, had distributed in the following way: diseases of the circulatory system accounted for 64.1 percent; neoplasms - for 10.8 percent. The third place occupies a class 'Symptoms, signs and abnormal clinical and laboratory findings' (8.5 percent), which is not used for mortality coding (according to the WHO criteria).

In 2008, **life expectancy at birth** in Georgia was less than in Europe region. According to the data provided by the Department of Statistics the value of this indicator reduced in comparison with 2007 and equaled 74.2 (69.3 for men and 79.0 for women).

Table 1.

Mid year population in thousands by the regions, Georgia, 2007-2008

	2007			2008		
	Total	Including		Total	Including	
		Urban	Rural		Urban	Rural
Tbilisi	1108,6	1108,5	0,1	1106,7	1106,6	0,1
Ajara	379,5	166,7	212,8	381,3	167,4	213,9
Guria	138,9	35,9	103,0	138,8	36,0	102,8
Racha – Lechkhumi and Kvemo Svaneti	48,4	9,1	39,3	47,9	9,0	38,9
Samegrelo – Zemo Svaneti	468,8	187,1	281,7	467,9	187,3	280,6
Imereti	695,9	326,2	369,7	693,9	326,0	367,9
Kakheti	402,7	80,9	321,8	401,7	81,1	320,6
Mtskheta – Mtianeti	118,4	26,4	92,0	118,1	26,4	91,7
Samtskhe – Javakheti	208,0	64,2	143,8	207,9	64,2	143,7
Kvemo Kartli	504,1	187,4	316,7	504,8	188,0	316,8
Shida Kartli	313,2	114,0	199,2	312,9	114,5	198,4
Georgia	4388,4	2306,4	2082,0	4383,8	2306,5	2077,3

Table 2.

Mid year population in thousands by sex and age groups, Georgia, 2007-2008

Age groups	Both sexes	2007		Both sexes	2008	
		Male	Female		Male	Female
-1	47,8	25,2	22,6	52,0	28,3	23,7
1-4	185,8	98,1	87,7	187,8	99,2	88,6
5-9	239,4	125,8	113,6	232,2	122,4	109,8
10-14	294,2	151,7	142,5	280,2	145,5	134,7
15-19	368,4	186,9	181,5	360,9	183,2	177,7
20-24	358,8	181,0	177,8	360,3	182,2	178,1
25-29	329,5	164,1	165,4	332,2	166,2	166,0
30-34	310,2	151,7	158,5	310,8	152,6	158,2
35-39	299,9	144,0	155,9	299,7	144,4	155,3
40-44	313,2	146,7	166,5	302,2	142,2	160,0
45-49	331,9	154,3	177,6	334,7	155,3	179,4
50-54	280,3	128,8	151,5	286,3	131,6	154,7
55-59	241,8	109,6	132,2	248,8	112,6	136,2
60-64	144,1	63,8	80,3	158,9	70,9	88,0
65-69	222,5	91,8	130,7	195,8	80,1	115,7
70-74	176,2	72,1	104,1	185,8	75,4	110,4
75-79	135,4	52,0	83,4	133,2	51,2	82,0
80-84	72,9	23,7	49,2	82,9	27,9	55,0
85+	36,1	7,7	28,4	39,1	8,4	30,7
Total	4388,4	2079,0	2309,4	4383,8	2079,6	2304,2
-15	767,2	400,8	366,4	752,2	395,4	356,8
15-64	2978,1	1430,9	1547,2	2994,8	1441,2	1553,6
65+	643,1	247,3	395,8	636,8	243,0	393,8

Table 3.

Health and health care, Georgia, 2008

Population in thousands at the January 1st 2009, Georgia

	Total	Urban	Including Rural
Tbilisi	1106,7	1106,6	0,1
Ajara	382,4	167,9	214,5
Guria	138,8	36,1	102,7
Racha – Lechkhumi and Kvemo Svaneti	47,7	9,0	38,7
Samegrelo – Zemo Svaneti	468,0	187,6	280,4
Imereti	693,5	326,3	367,2
Kakheti	401,4	81,3	320,1
Mtskheta – Mtianeti	118,1	26,4	91,7
Samtskhe – Javakheti	208,1	64,3	143,8
Kvemo Kartli	505,8	188,7	317,1
Shida Kartli	313,0	114,9	198,1
Georgia	4385,4	2309,1	2076,3

Table 4.

Population in thousands and the percentage according to the sex and age groups at the January 1st 2009, Georgia

Age groups	Population (thousands)			Population (percent)		
	Both sexes	Male	Female	Both sexes	Male	Female
-1	55,6	31,2	24,4	1,3	1,5	1,1
1-4	189,4	99,9	89,5	4,3	4,8	3,9
5-9	229,4	121,0	108,4	5,2	5,8	4,7
10-14	275,2	143,3	131,9	6,3	6,9	5,7
15-19	355,2	180,5	174,7	8,1	8,7	7,6
20-24	360,7	182,4	178,3	8,2	8,8	7,7
25-29	333,4	167,0	166,4	7,6	8,0	7,2
30-34	311,9	153,1	158,8	7,1	7,4	6,9
35-39	298,9	144,1	154,8	6,8	6,9	6,7
40-44	298,0	140,4	157,6	6,8	6,7	6,8
45-49	335,0	155,3	179,7	7,6	7,5	7,8
50-54	291,7	134,0	157,7	6,7	6,4	6,8
55-59	251,0	113,5	137,5	5,7	5,5	6,0
60-64	169,7	75,6	94,1	3,9	3,6	4,1
65-69	179,8	73,6	106,2	4,1	3,5	4,6
70-74	191,6	77,1	114,5	4,4	3,7	5,0
75-79	129,6	50,0	79,6	3,0	2,4	3,5
80-84	88,9	30,2	58,7	2,0	1,5	2,5
85+	40,4	8,6	31,8	0,9	0,4	1,4
Total	4385,4	2080,8	2304,6	100,0	100,0	100,0
-15	749,6	395,4	354,2	17,1	19,0	15,4
15-64	3005,5	1445,9	1559,6	68,5	69,5	67,7
65+	630,3	239,5	390,8	14,4	11,5	16,9

Table 5.

Health and health care, Georgia, 2008

Mid year population in thousands by the sex and main age groups, Georgia, 2003-2008

Age groups	Both sexes		Male	Female
		2003		
Total	4328,9		2039,3	2289,6
-15	871,2		449,0	422,2
15-64	2873,2		1363,7	1509,5
65+	584,5		226,6	357,9
		2004		
Total	4318,3		2034,4	2283,9
-15	845,6		437,0	408,6
15-64	2874,1		1365,9	1508,2
65+	598,6		231,5	367,1
		2005		
Total	4361,4		2060,3	2301,1
-15	822,0		426,2	395,8
15-64	2921,4		1395,1	1526,3
65+	618,0		239,0	379,0
		2006		
Total	4398,0		2081,7	2316,3
-15	794,5		413,4	381,1
15-64	2966,3		1422,0	1544,3
65+	637,2		246,3	390,9
		2007		
Total	4388,4		2079,0	2309,4
-15	767,2		400,8	366,4
15-64	2978,1		1430,9	1547,2
65+	643,1		247,3	395,8
		2008		
Total	4385,4		2080,8	2304,6
-15	749,6		395,4	354,2
15-64	3005,5		1445,9	1559,6
65+	630,3		239,5	390,8

Table 6.

Main demographic indicators, Georgia, 2007 – 2008

	2007		2008	
	Total number	Indicator	Total number	Indicator
Number of live births and rate per 1000 population	49287	11,2	56565	12,9
Population natural growth and rate per 1000 population	8109	1,8	13554	3,1
Number of deaths and rate per 1000 population	41178	9,4	43011	9,8
Number of infant deaths and rate per 1000 live births	656	13,3	959	17,0
Number of stillbirths and rate per 1000 births	632	12,7	660	11,5
Number of marriages and rate per 1000 population	24891	5,7	31414	7,2
Number of divorces and rate per 1000 population	2325	0,5	3189	0,7
External migration and rate per 1000 population in percent	-20700	-4,7	-10200	-2,3

Table 7.

Health and health care, Georgia, 2008

General vital statistics, Georgia, 1990– 2008

Years	Live births		Deaths		Population growth		Marriages		Divorces	
	Total number	Rate per 1000 population	Total number	Rate per 1000 population	Total number	Rate per 1000 population	Total number	Rate per 1000 population	Total number	Rate per 1000 population
1990	92815	17.1	50721	9.3	42094	7.7	36812	6.8	7796	1.4
1991	89091	16.3	52416	9.6	36675	6.7	38070	7.0	7440	1.4
1992	72631	13.4	55076	10.2	17555	3.2	26878	5.0	4890	0.9
1993	61594	12.0	57539	11.2	4055	0.8	24105	4.7	3211	0.6
1994	57311	11.8	50326	10.4	6985	1.4	21908	4.5	3089	0.6
1995	56341	11.9	49073	10.4	7268	1.5	21481	4.5	2685	0.6
1996	55000	11.9	47961	10.4	7039	1.5	19253	4.2	2269	0.5
1997	54000	11.9	47575	10.5	6425	1.4	17099	3.8	2267	0.5
1998	51526	11.5	47321	10.5	4205	0.9	15343	3.4	1758	0.4
1999	48695	10.9	47184	10.6	1511	0.3	13845	3.1	1622	0.4
2000	48800	11.0	47410	10.7	1390	0.3	12870	2.9	1854	0.4
2001	47589	10.9	46218	10.5	1371	0.3	13336	3.0	1987	0.5
2002	46605	10.7	46446	10.7	159	0.0	12535	2.9	1836	0.4
2003	46194	10.7	46055	10.6	139	0.0	12696	2.9	1825	0.4
2004	49572	11.5	48793	11.3	779	0.2	14866	3.4	1793	0.4
2005	46512	10.7	42984	9.9	3528	0.8	18012	4.1	1928	0.4
2006	47795	10.9	42255	9.6	5540	1.3	21845	5.0	2060	0.5
2007	49287	11,2	41178	9,4	8109	1,8	24891	5,7	2325	0,5
2008	56565	12,9	43011	9,8	13554	3,1	31414	7,2	3189	0,7

Table 8.

Age specific fertility rate and population reproduction gross and net rates, Georgia, 1990 – 2008

Years	All ages (15-49)	Age of Mother								Total fertility rate	Reproduction rate	
		- 20	20-24	25-29	30-34	35-39	40-44	45 +	Gross		Net	
1990	67.8	58.1	167.3	110.5	64.0	24.7	6.2	0.3	2.16	1.046	1.015	
1991	64.5	58.0	165.6	100.4	60.7	23.9	6.1	0.1	2.07	1.005	0.976	
1992	52.8	50.7	144.7	76.5	48.7	17.9	4.5	0.2	1.72	0.835	0.812	
1993	47.4	56.6	122.0	66.7	42.2	15.4	4.2	0.3	1.54	0.741	0.714	
1994	46.4	66.7	113.1	64.2	40.2	14.6	4.2	0.5	1.52	0.724	0.698	
1995	46.0	64.2	113.3	66.4	41.9	16.6	4.2	0.7	1.54	0.725	0.700	
1996	45.8	59.7	112.8	69.5	44.1	18.2	4.0	0.8	1.55	0.732	0.708	
1997	45.6	55.2	111.3	72.2	44.6	19.4	5.2	3.0	1.55	0.737	0.715	
1998	43.8	51.4	109.1	71.6	42.3	18.9	4.6	3.0	1.50	0.713	0.694	
1999	41.5	46.5	104.0	70.3	42.5	19.1	4.7	0.9	1.44	0.682	0.665	
2000	41.7	39.9	110.1	74.4	43.3	19.2	4.9	0.9	1.46	0.694	0.675	
2001	40.9	32.5	112.3	71.1	45.2	21.0	5.4	1.4	1.44	0.684	0.665	
2002	40.2	32.8	108.6	63.5	50.2	21.2	6.4	1.5	1.42	0.673	0.653	
2003	40.0	33.2	99.4	78.8	46.8	19.0	5.2	0.5	1.41	0.665	0.645	
2004	42.8	35.1	109.3	83.3	47.2	21.1	5.4	1.0	1.51	0.718	0.695	
2005	39.6	38.5	97.2	75.2	44.0	18.6	4.2	0.5	1.39	0.654	0.634	
2006	40.2	36.7	100.7	76.0	43.3	18.9	4.6	0.7	1.40	0.663	0.648	
2007	41,7	36,3	103,1	79,2	46,5	19,7	4,4	0,5	1,45	0,688	0,674	
2008	50,2	42,4	115,4	90,1	55,0	24,2	5,7	0,6	1,67	0,732	0,713	

Table 9.

Health and health care, Georgia, 2008

Live births by the regions, Georgia, 2007– 2008

	2007			2008		
	Total	Including Urban	Rural	Total	Including Urban	Rural
Tbilisi	14188	14061	127	15105	15100	5
Ajara	4687	2322	2365	5391	2778	2613
Guria	1438	690	748	1708	852	856
Racha – Lechkhumi and Kvemo Svaneti	313	163	150	386	206	180
Samegrelo – Zemo Svaneti	4598	2858	1740	5388	3347	2041
Imereti	7310	5166	2144	8397	5879	2518
Kakheti	4103	2001	2102	4981	2482	2499
Mtskheta – Mtianeti	1258	656	602	1418	718	700
Samtskhe – Javakheti	2124	999	1125	2625	1266	1359
Kvemo Kartli	5902	3270	2632	6870	3893	2977
Shida Kartli	3366	2115	1251	4296	2685	1611
Georgia	49287	34301	14986	56565	39206	17359

Table 10.

Live births by age of mother, Georgia, 1990 - 2008

Years	Total	Age of mother						
		- 20	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +
1990	92815	11906	35271	26228	13712	4734	920	44
1991	89091	12022	34953	23558	12931	4655	949	23
1992	72631	10487	30200	17503	10198	3500	717	26
1993	61594	11216	24174	14305	8324	2888	639	48
1994	57311	12597	21155	12810	7444	2612	624	69
1995	56341	11893	20578	12691	7474	2928	676	101
1996	55000	10862	19903	12715	7591	3153	649	127
1997	54000	9920	19223	12743	7465	3343	857	449
1998	51526	9212	18609	12287	6939	3256	768	455
1999	48695	8313	17552	11751	6861	3281	806	131
2000	48800	7124	18394	12100	6868	3305	868	141
2001	47589	5784	18571	11379	7073	3610	955	217
2002	46605	5833	17945	10077	7834	3541	1150	225
2003	46194	5907	16463	12449	7269	3040	929	81
2004	49572	6246	18258	13196	7316	3278	971	159
2005	46512	6903	16703	12110	6896	2870	752	87
2006	47795	6633	17666	12409	6831	2929	791	121
2007	49287	6549	18216	13021	7323	3058	727	79
2008	56565	7773	21025	14982	8392	3484	817	86

Table 11.

Health and health care, Georgia, 2008

Live births by the sex, Georgia, 1990 – 2008

Years	Both sexes	Male	Female	(Male / Female) * 100
1990	92815	47758	45057	106.0
1991	89091	45924	43167	106.4
1992	72631	37276	35355	105.4
1993	61594	31904	29690	107.4
1994	57311	29964	27347	109.6
1995	56341	29745	26596	111.8
1996	55000	28936	26064	111.0
1997	54000	28409	25591	111.0
1998	51526	27108	24418	111.0
1999	48695	25618	23077	111.0
2000	48800	25674	23126	111.0
2001	47589	25037	22552	111.0
2002	46605	24519	22086	111.0
2003	46194	24469	21725	112.6
2004	49572	26039	23533	110.6
2005	46512	24654	21858	112.8
2006	47795	25236	22559	111.9
2007	49287	25882	23405	110.6
2008	56565	31720	24845	127.7

Table 12.

Live births by order, Georgia, 1990 – 2008

Years	Birth order					Total
	I	II	III Total number	IV	V+	
1990	41338	31582	14477	3639	1779	92815
1991	40940	30176	13054	3344	1577	89091
1992	36183	24392	8772	2303	981	72631
1993	32006	20264	6738	1794	792	61594
1994	31020	18510	5605	1505	671	57311
1995	30012	18352	5642	1621	714	56341
1996	28380	18535	5830	1595	660	55000
1997	27432	18036	6102	1674	756	54000
1998	26227	17210	5925	1494	670	51526
1999	25225	16069	5405	1363	633	48695
2000	25327	16250	5270	1318	635	48800
2001	25460	15086	5187	1285	571	47589
2002	24952	14878	5060	1146	569	46605
2003	28875	11752	3929	1025	613	46194
2004	28100	15773	4207	1037	455	49572
2005	27356	13743	4043	942	428	46512
2006	28935	13371	4107	938	444	47795
2007	29883	14075	4077	830	422	49287
2008	31307	18147	5400	1184	527	56565

Table 13.

Deaths and mortality rates by sex and ages groups, Georgia, 2008

Age groups	Total number of deaths			Mortality rate (per 1000 population)		
	Both sexes	Male	Female	Both sexes	Male	Female
-1	959	549	410	18,4	19,4	17,3
1-4	85	44	41	0,5	0,4	0,5
5-9	73	47	26	0,3	0,4	0,2
10-14	100	61	39	0,4	0,4	0,3
15-19	186	123	63	0,5	0,7	0,4
20-24	379	276	103	1,1	1,5	0,6
25-29	451	356	95	1,4	2,1	0,6
30-34	540	412	128	1,7	2,7	0,8
35-39	736	566	170	2,5	3,9	1,1
40-44	1106	819	287	3,7	5,8	1,8
45-49	1537	1147	390	4,6	7,4	2,2
50-54	1878	1393	485	6,6	10,6	3,1
55-59	2082	1458	624	8,4	12,9	4,6
60-64	1901	1263	638	12,0	17,8	7,3
65-69	5540	3439	2101	28,3	42,9	18,2
70-74	6013	3279	2734	32,4	43,5	24,8
75-79	7748	3830	3918	58,2	74,8	47,8
80-84	6390	2629	3761	77,1	94,2	68,4
85+	5307	1629	3678	135,7	193,9	119,8
Total	43011	23320	19691	9,8	11,2	8,5

Table 14.

Infant mortality by the sex and age groups, Georgia, 2007 – 2008

	2007		2008	
	Male	Female	Male	Female
	372	284	549	410
0 day	69	39	266	228
1 day	70	41	32	21
2 days	35	33	20	21
3 days	26	21	15	20
4 days	19	18	19	13
5 days	17	13	20	10
6 days	8	12	14	11
7 - 27 days	65	51	54	25
28 days – 2 months	17	17	24	15
2 months	9	8	16	7
3 months	11	8	13	7
4 months	2	4	11	6
5 months	9	5	9	7
6 months	2	1	7	3
7 months	4	3	8	4
8 months	3	4	4	5
9 months	2	2	8	2
10 months	2	1	5	2
11 months	2	3	4	3

Table 15.

Health and health care, Georgia, 2008

Death by the main causes of death (per 100000 population), Georgia, 2006–2008

	2006		2007		2008	
	Total number	Rate	Total number	Rate	Total number	Rate
TOTAL	42255	960.8	41178	938.5	43011	981.1
Certain infectious and parasitic diseases	241	5.5	285	6.5	368	8.4
Neoplasms	4830	109.8	4511	102.8	4661	106.3
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	0	0.0	8	0.2	11	0.3
Endocrine, nutritional and metabolic diseases	465	10.6	487	11.1	630	14.4
Mental and behavioural disorders	16	0.4	39	0.9	40	0.9
Diseases of the nervous system	289	6.6	265	6.0	283	6.5
Diseases of the eye and adnexa	0	0.0	0	0.0	0	0.0
Diseases of the ear and mastoid process	0	0.0	0	0.0	0	0.0
Diseases of the circulatory system	28373	645.1	27560	628.0	27579	629.1
Diseases of the respiratory system	1198	27.2	1204	27.4	1237	28.2
Diseases of the digestive system	1147	26.1	1071	24.4	1260	28.7
Diseases of the skin and subcutaneous tissue	0	0.0	0	0.0	0	0.0
Diseases of the musculoskeletal system and connective tissue	2	0.02	2	0.0	4	0.1
Diseases of the genitourinary system	309	7.0	307	7.0	322	7.3
Pregnancy, childbirth and the puerperium	11	0.5	2	0.1	1	0.0
Certain conditions originating in the perinatal period	661	15.0	574	13.1	783	17.9
Congenital malformations, deformations and chromosomal abnormalities	59	1.3	65	1.5	125	2.9
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3397	77.2	3473	79.1	3669	83.7
Injury, poisoning and certain other consequences of external causes	1257	28.6	1325	30.2	2038	46.5

Table 16.

Deaths by the regions, Georgia, 2007–2008

	2007			2008		
	Total	Including Urban	Rural	Total	Including Urban	Rural
Tbilisi	12040	11972	68	12113	12027	86
Ajara	2563	1478	1085	2813	1620	1193
Guria	1390	505	885	1448	542	906
Racha – Lechkhumi and Kvemo Svaneti	612	155	457	633	162	471
Samegrelo – Zemo Svaneti	3802	1910	1892	3836	1928	1908
Imereti	7629	4191	3438	7659	4212	3447
Kakheti	4152	1564	2588	4713	1856	2857
Mtskheta – Mtianeti	1200	519	681	1248	549	699
Samtskhe – Javakheti	1574	841	733	1647	885	762
Kvemo Kartli	3272	1760	1512	3459	1861	1598
Shida Kartli	2944	1492	1452	3442	1679	1763
Georgia	41178	26387	14791	43011	27321	15690

Table 17.

Natural growth by the regions, Georgia, 2007-2008

	2007			2008		
	Total	Including Urban	Rural	Total	Including Urban	
Tbilisi	2148	2089	59	2992	3073	-81
Ajara	2124	844	1280	2578	1158	1420
Guria	48	185	-137	260	310	-50
Racha – Lechkhumi and Kvemo Svaneti	-299	8	-307	-247	44	-291
Samegrelo – Zemo Svaneti	796	948	-152	1552	1419	133
Imereti	-319	975	-1294	738	1667	-929
Kakheti	-49	437	-486	268	626	-358
Mtskheta – Mtianeti	58	137	-79	170	169	1
Samtskhe – Javakheti	550	158	392	978	381	597
Kvemo Kartli	2630	1510	1120	3411	2032	1379
Shida Kartli	422	623	-201	854	1006	-152
Georgia	8109	7914	195	13554	11885	1669

Table 18.

Life expectancy at birth, Georgia, 1990 – 2008

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total	71,4	70,3	71,3	71,6	71,5	72,1	71,6	74,0	74,3	75,1	74,2
Male	67,5	66,3	67,5	68,1	68,0	68,7	67,9	70,0	69,8	70,5	69,3
Female	75,0	74,2	75,0	74,9	74,9	75,3	75,1	77,6	78,6	79,4	79,0

Table 19.

Population structure by the nations (according to the census years), Georgia

	1989		2002	
	Total number (thousands)*	%*	Total number (thousands)**	%**
Georgian	3787.4	70.1	3519.0	73.7
Armenian	437.2	8.1	359.9	7.5
Russian	341.2	6.3	264.2	5.5
Azerbaijani	307.6	5.7	307.6	6.4
Ossetian	164.1	3.0	97.7	2.0
Greek	100.3	1.8	85.6	1.8
Abkhazian	95.9	1.8	2.6	0.1
Ukrainian	52.4	1.0	40.7	0.9
Kurd and Yazidi	33.3	0.6	33.3	0.7
Jewish	24.6	0.5	23.2	0.5
Belorussian	8.6	0.2	6.5	0.1
Other	48.2	0.9	37.1	0.8
Total	5400.8	100.0	4777.2	100.0

* Including population of Abkhazia and South Ossetia

** Excepting population of Abkhazia and Tskhinvali

HEALTH CARE

In 2008, 1048 **independent licensed health facilities** reported to the National Centre for Disease Control and Public Health. 1044 health facilities worked under the Ministry of Labour, Health and Social Affairs supervision; 4 more worked under supervision of other departments and ministries.

In 2008, in Georgia, 20253 **physicians** worked in the health care system; 68.9 percent of them were women. Population coverage rate with physicians has been 462.0 physicians per 100000 population. Coverage rate is above the average level in Tbilisi (886.0); in regions of Samtskhe-Javakheti and Kvemo Kartli coverage rates are below the average (203.5 and 232.8 correspondingly).

In 2008, population coverage rate with **mid-level medical staff** was 446.9 per 100000 population. Population coverage rate with **low medical staff** was 133.1 per 100000 population. Number of physicians to number of mid-level medical staff ratio during last years was stable and considerably low than in European countries - about 1:1, although according to the WHO recommendations this ratio have to be 1:4.

According to the health statistics reports in 2008 health facilities contracted 20658.5 full time equivalent physicians, including 10869 of them in out-patient facilities.

In 2008, annual statistical reports were presented by 265 in-patient facilities with 14069 beds, including 241 hospitals with 12379 beds, 8 dispensaries with 156 beds, and 16 scientific-research institute clinics with 1534 beds.

The following hospitals not reported: Scientific-research Institute of Labour, Medicine and Ecology (40 beds), Akhlagori hospital (28 beds), Kurta rural hospital (20 beds), and Tbilisi Angiology center (18 beds).

In 2008, in-patient health facilities contracted 9789.5 full time equivalent physicians and 11134 mid-level medical staff.

In 2008, 320995 patients were admitted to in-patient facilities. **Number of hospitalization** per 100000 population increased during last years. In reporting year the total number of hospitalizations per 100000 population was 7204.5. Patients spent in hospitals 2183714 **bed-days**, which are 2.9 percent more, than in 2007.

Hospital beds performance indicators had changed in comparison with 2007: occupancy rate (156.1) and bed rotation rate (22.9) increased, number of beds per 100000 population (320.9) and average length of stay in days (6.8) decreased. Bed occupancy rate and average length of stay were high for oncological/radiological, psychiatric/narcological and tuberculosis beds.

In 2008, Georgian in-patient facilities registered 315829 **discharges** and 6140 hospital deaths; **general case fatality rate** was 1.9 percent. 22.0 percent of all number of patients was children under 15 and 7.4 percent - infants; case fatality rate in children under 15 was 1.3 percent and in infants – 3.4 percent. Case fatality rates in infants, in comparison with average level, are high in Tbilisi (5.6 percent), Mtskheta-Mtianeti (4.1 percent) and Ajara (3.8 percent).

The following **classes of diseases** were describable as diseases **with high case fatality rate**: symptoms, signs and abnormal clinical and laboratory findings (case fatality rate – 12.6 percent), although by the WHO criteria this class have not to be used for designation of causes of death; certain conditions originating in the perinatal period (8.6 percent), diseases of the circulatory system (6.1 percent) and congenital malformations, deformations and chromosomal abnormalities (4.4 percent).

In Georgian in-patient facilities 121189 **surgical operations** were performed in 2008 (case fatality rate – 0.5 percent); including 13943 operations in children (case fatality rate – 0.6 percent). Urgent operations accounts for 19.0 percent of the total number (case fatality rate – 1.1 percent). 59.2 percent of all operations were performed under general anesthesia.

According to the data provided by Georgian in-patient facilities, in reporting year harshly decreased total number of **postmortem studies**. 137 postmortem studies were performed in 2008, that accounts only 2.2 percent of the total number of hospital deaths, while in 2007, this number was 672 (12.3 percent of the total number of hospital deaths).

In 2008, statistical reports were received from 616 independent **out-patient facilities** and 72 polyclinics co-social with hospitals. Out of all out-patient facilities 241 were independent polyclinics (including 70 dental), 41 health centres, 20 women consultancy centers, 69 dispensaries, 220 independent ambulatories and 13 cabinets. 474 co-social ambulatories, 9 physician points and 301 co-social nurse–midwife posts were functioning in the frame of ambulatory–polyclinics associations.

In 2008, not reported the following out-patient facilities: in Tbilisi – 10 dental polyclinics, 3 dispensaries (Dermato-venerologic dispensary #5, Dermato-venerologic dispensary #6, Phthisio-pulmonologic dispensary #1), 5 health centres (Students' sanatorium-preventorium, Health-diagnostic firm "LFKO" LTD, "Rehabilitation" LTD, Center of Endocrinology, Scientific Preventorium Center of Balneology, Physiotherapy and Medical Tourism), 1 women consultancy center (Women Consultancy Center #8) and 2 Scientific-research Institutes (Scientific-research Institute of Sanitation and Hygiene, Scientific-research Institute of Labour, Medicine and Ecology).

During the reporting year, out-patient facilities registered 1809208 cases of diseases (**prevalence rate** – 41270.3), of which 807497 were new cases (**incidence rate** – 18420.0). During last years general prevalence and incidence rates have increasing tendency.

In 2008, the number of out-patient **encounters** per person per day was to 2.1. Number of encounters to doctors (including visits to specialists) was 724.5 per year. During last 20 years network utilization rate reached its maximum in 1988 (84.7 percent) and minimum in 2001 (26.3 percent). In 2008, network utilization rate reached only 37.5 percent of the planned capacity.

In 2008, **preventive screenings** were provided to 651381 children and adolescents. These screenings revealed the following abnormalities: hearing loss (0.12 percent); vision loss (0.53 percent); speech disorders (0.41 percent); scoliosis (0.61 percent); bearing disorders (0.47 percent). 69746 adolescents in age of 16–18 years, including 39380 boys, were examined at the graduating from schools.

Health and health care, Georgia, 2008

In 2008, 29040 **recruits** were screened in Georgian policlinics. In 2007 this number was 2.5 times more than in 2006. In 2008 this number was even 1.5 times more than in previous year.

In 2008, 27426 surgical **operations** were performed at the surgical departments of the out-patient facilities.

In 2008, there were 22 **diurnal hospitals** with 408 beds, where 9295 patients were treated. This number is 2 times less than in previous year.

In 2008, 20534 patients, including 11727 children, were admitted to the **emergency care** departments in Georgian hospitals.

In 2008, 73 **ambulance stations** functioning in the territory of Georgia reported to the NCDCPH. In the list of facilities, which not reported, there are ambulance stations in Poti, Akhgori, and two stations in Tbilisi (Ambulance station "Kveli" and "Kardioservice" LTD).

There were 1514 physicians, 960 mid-level medical staff, and 127 low medical staff, serving in the ambulance stations in Georgia; 283 teams of general profile and 3 specialized team delivered services in 768167 cases (the number of exits was 774192), 758280 of them were of general profile and 9887 – of specialized; in 754818 cases the care was provided according to the state standards, in 13349 cases were implemented according to the internal standards.

In 2008, 48 **blood transfusion stations** (cabinets) reported, including 6 independent and 42 dependent stations. 92 physicians served in the blood transfusion network. There were registered 30366 donors, the total volume of the blood, prepared without preservatives, accounts for 23529 litres, packed red blood cells – 9693 litres, and freshly frozen plasma – 10478 litres.

Health Network, Medical Staff, Resources

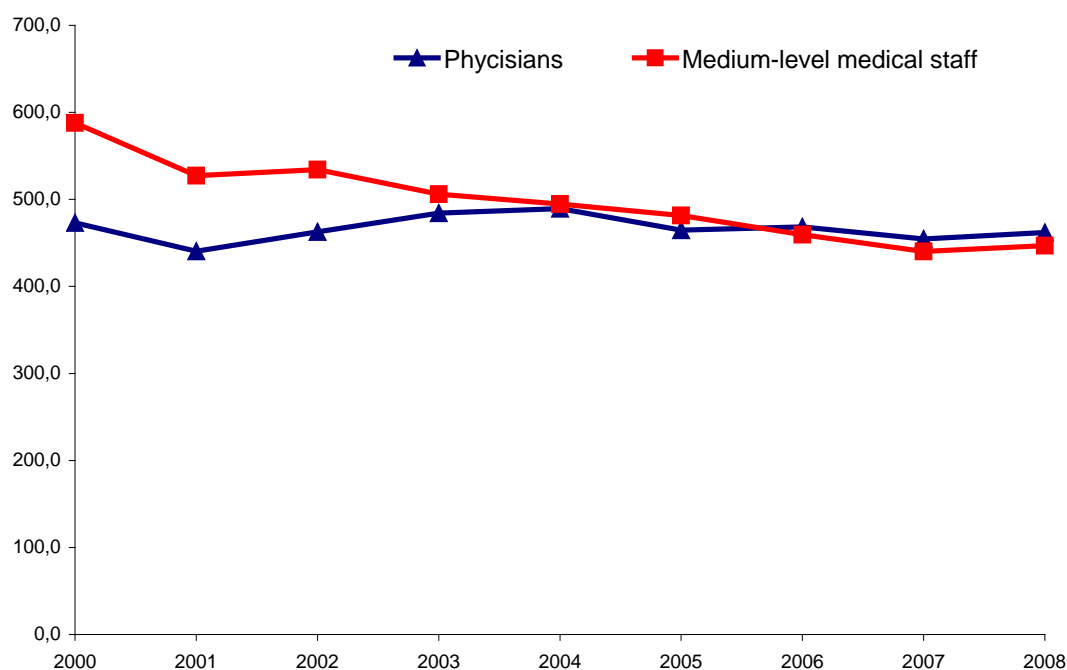


Figure 1. Number of physicians and mid-level medical staff per 100,000 population, Georgia, 2000 – 2008

Table 1.

Health care facilities network, Georgia, 2008

	Total number of health care facilities	Including reported to the NCDC
In-patient facilities	269	265
Dispensaries	72	69
	Independent facilities	
Polyclinics	250	241
<i>Including: Stomatologic</i>	<i>79</i>	<i>70</i>
Women consultancies	21	20
Ambulance stations	73	69
Rural doctor ambulatories	220	220
Blood transfusion stations	6	6
Infant nurseries	2	2
Scientific research institutes	19	17
Health centres	47	41
	Dependent facilities	
<i>Co-social with hospitals</i>	<i>72</i>	<i>72</i>
<i>Doctor health posts</i>	<i>9</i>	<i>9</i>
<i>Rural doctor ambulatories</i>	<i>474</i>	<i>474</i>
<i>Nurse–midwife health posts</i>	<i>301</i>	<i>301</i>

Table 2.

Out-patient health care facilities network according to the annual reports, Georgia, 2008

	Polyclinics	Dispensaries	Health centres	Women consultancies	Independent doctor ambulatories
Tbilisi	84	11	24	9	4
Ajara	16	8	3	0	0
Guria	7	6	2	0	2
Racha-Lechkhumi and Kvemo Svaneti	3	0	0	0	12
Samegrelo	18	6	3	3	2
Mtskheta-Mtianeti	3	0	0	0	30
Samtskhe-Javakheti	16	5	0	1	11
Kvemo Kartli	13	6	2	0	21
Imereti	36	14	4	4	105
Kakheti	21	7	3	1	10
Shida Kartli	12	5	0	1	21
Abkhazia	10	1	0	1	2
Departments other than the MOLHSA	2	0	0	0	0
Georgia	241	69	41	20	220

Table 3.

In-patient health care facilities network according to the annual reports, Georgia, 2008

	Total number		Hospitals		Including Dispensaries		Scientific research institutes	
	Facilities	Beds	Facilities	Beds	Facilities	Beds	Facilities	Beds
Tbilisi	94	5796	77	4249	1	13	16	1534
Ajara	20	1011	17	965	3	46	0	0
Guria	7	274	6	249	1	25	0	0
Racha-Lechkhumi and Kvemo Svaneti	4	215	4	245	0	0	0	0
Samegrelo	26	958	25	941	1	17	0	0
Mtskheta-Mtianeti	5	141	5	141	0	0	0	0
Samtskhe-Javakheti	12	675	12	675	0	0	0	0
Kvemo Kartli	25	922	25	922	0	0	0	0
Imereti	37	2546	35	2491	2	55	0	0
Kakheti	21	653	21	653	0	0	0	0
Shida Kartli	11	667	11	667	0	0	0	0
Abkhazia	2	35	2	35	0	0	0	0
Departments other than the MOLHSA	1	176	1	176	0	0	0	0
Georgia	265	14069	241	12379	8	156	16	1534

Table 4.

Medical personnel, Georgia, 2008

	Number of physicians, physical persons	Number of physicians per 100000 population	Number of mid-level medical staff	Number of mid- level medical staff per 100000 population	Number of low medical staff	Number of low medical staff per 100000 population
Tbilisi	9805	886.0	7093	640.9	2315	209.5
Ajara	1205	316.0	2038	534.5	558	146.3
Guria	391	281.7	497	358.1	116	83.6
Racha-Lechkhumi and Kvemo Svaneti	203	423.8	359	749.5	53	110.6
Samegrelo	1258	268.9	1612	344.5	358	76.5
Imereti	2848	410.4	3201	461.3	381	54.9
Kakheti	1321	328.9	1134	282.3	372	92.6
Mtskheta-Mtianeti	316	267.6	354	299.7	69	58.4
Samtskhe-Javakheti	423	203.5	642	308.8	225	108.2
Kvemo Kartli	1175	232.8	1287	255.0	389	77.1
Shida Kartli	838	267.8	1041	332.7	320	102.3
Abkhazia	261	--	188	--	20	--
Departments other than the MOLHSA	209	--	147	--	58	--
Georgia	20253	462.0	19593	446.9	5834	133.1

Table 5.

Medical personnel, Georgia, 2005 – 2008

Physicians, physical persons	2005	2006	2007	2008
	20311	20597	19951	20253
	<i>Including:</i>			
Therapists	1951	1969	1875	1885
Surgeons (including children's)	883	935	906	972
Anaesthetists - experts in resuscitation	832	878	895	850
Traumatologists - orthopedists	261	273	263	276
Cardiologists	613	594	603	623
Urologists	191	231	223	231
Oncologists	240	233	249	255
Paediatricians	1706	1674	1978	1907
Infectiologists	266	255	255	258
Otolaryngologists	292	292	307	326
Neurologists	609	613	593	634
Ophthalmologists	347	354	354	350
Dentists	1300	1242	1198	1197
Obstetric- gynaecologists	1418	1407	1370	1417
Phthisiologists	177	138	143	145
Dermatologists - venereologists	247	241	214	240
Psychiatrists	260	235	221	215
Endocrinologists	283	286	299	307
Family doctors	79	169	233	459
Other specialities	8356	8578	7820	7705

Table 6.

Medical personnel: mid-level and low medical staff, Georgia, 2005 – 2008

	2005		2006		2007		2008	
	Total number	Coverage per 100000 population	Total number	Coverage per 100000 population	Total number	Coverage per 100000 population	Total number	Coverage per 100000 population
Mid-level medical staff	21053	481.6	20207	459.5	19315	440.1	19593	446.9
Nurses	13698	313.3	13572	308.6	13583	309.5	13207	301.3
Doctor's assistants	2183	49.9	1901	43.2	1194	27.2	1719	39.2
Midwives	1036	23.7	941	21.4	854	19.5	919	21.0
Obstetric assistants	350	8.0	258	5.9	317	7.2	270	6.2
Other	3786	86.6	3535	80.4	3367	76.7	3478	75.3
Low medical staff	6465	147.9	6074	138.1	5669	129.2	5834	133.1

Table 7.

Hospital beds: performance indicators, Georgia, 2008

	Number of beds per 100000 population	Occupancy rate	Average length of stay	Bed rotation rate
Tbilisi	523.7	171.7	6.6	26.2
Ajara	265.2	188.4	6.3	29.9
Guria	197.4	116.4	5.5	21.2
Racha-Lechkhumi	448.9	91.4	7.2	12.7
Samegrelo	204.7	144.5	6.7	21.5
Imereti	366.9	173.4	3.2	18.9
Kakheti	162.6	128.3	4.5	28.2
Mtskheta-Mtianeti	119.4	81.2	3.6	23.0
Samtskhe-Javakheti	324.7	103.3	8.7	11.9
Kvemo Kartli	182.7	85.2	5.1	16.8
Shida Kartli	213.2	150.5	7.3	20.6
Departments other than the MOLHSA	--	189.8	8.5	28.5
Georgia	320.9	156.1	6.8	22.9

Table 8.

Health and health care, Georgia, 2008

Hospital beds to the bed specialty: performance indicators, Georgia, 2008

Bed specialty	Number of beds	Occupancy rate (days)	Average length of stay (days)	Bed rotation rate
Therapy	2007	130.4	5.1	26.5
Paediatric	1438	181.7	6.9	26.8
Surgery	3453	125.1	5.5	23.1
Oncology and radiology	403	278.4	15.4	18.1
Infectious diseases	878	108.4	6.2	17.7
Tuberculosis	580	253.0	42.3	5.2
Obstetrics - gynaecology	2775	128.7	4.3	30.0
Neurology	319	180.1	8.3	22.2
Psychiatry and narcology	1341	261.7	74.0	3.6
Otolaryngology	184	52.1	1.5	36.0
Ophthalmology	184	79.2	3.0	26.2

Table 9.

Hospitalization by the regions, Georgia, 2007 - 2008

	2007		2008	
	Number of hospitalizations per 100000 population	Case fatality rate (%)	Number of hospitalizations per 100000 population	Case fatality rate (%)
Tbilisi	11788.8	2.2	13584.6	2.4
Ajara	6926.2	2.1	7932.1	1.7
Guria	4189.3	1.6	4183.0	1.6
Racha-Lechkhumi	4390.5	0.9	5699.4	0.4
Samegrelo	3815.7	1.2	4256.5	0.9
Imereti	6757.2	2.0	6905.6	2.0
Kakheti	4139.3	1.4	4616.4	1.7
Mtskheta-Mtianeti	2581.1	1.4	2840.8	1.5
Samtskhe-Javakheti	3716.3	1.5	3848.5	1.2
Kvemo Kartli	2980.7	1.4	3077.7	1.4
Shida Kartli	4177.8	1.5	4387.0	1.5
Abkhazia	--	1.1	--	1.2
Departments other than the MOLHSA	--	0.2	--	1.5
Georgia	6570.8	1.9	7313.2	1.9

Table 10.

Hospital discharges and number of the hospital deaths according to the main classes of diseases, Georgia, 2008

	Total number of discharges	Including hospital deaths
Total	315829	6140
<i>Including:</i>		
Certain infectious and parasitic diseases	18103	194
Neoplasms	13033	258
Endocrine, nutritional and metabolic diseases	4487	81
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	992	10
Mental and behavioural disorders	5256	89
Diseases of the nervous system	7211	236
Diseases of the eye and adnexa	5533	0
Diseases of the ear and mastoid process	828	0
Diseases of the circulatory system	42721	2622
Diseases of the respiratory system	56649	418
Diseases of the digestive system	32346	541
Diseases of the genitourinary system	12855	113
Pregnancy, childbirths and the puerperium	73183	8
Diseases of the skin and subcutaneous tissue	3391	6
Diseases of the musculoskeletal system and connective tissue	5152	17
Congenital malformations, deformations and chromosomal abnormalities	1787	78
Certain conditions originating in the perinatal period	6173	533
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2374	300
Injury, poisoning and certain other consequences of external causes	23754	635

Table 11.

Hospital discharges and number of the hospital deaths in children under 15 years age, Georgia, 2008

	Hospital discharges		Including in infants	
	Total number	Including deaths	Total number	Including deaths
Total	69553	909	23267	786
	<i>Including:</i>			
Certain infectious and parasitic diseases	10213	57	3321	44
Neoplasms	775	4	212	2
Endocrine, nutritional and metabolic diseases	363	2	120	1
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	296	0	94	0
Mental and behavioural disorders	41	0	16	0
Diseases of the nervous system	2374	21	771	9
Diseases of the eye and adnexa	227	0	14	0
Diseases of the ear and mastoid process	139	0	8	0
Diseases of the circulatory system	366	6	34	3
Diseases of the respiratory system	37494	129	10937	100
Diseases of the digestive system	3467	7	252	5
Diseases of the genitourinary system	1156	2	115	1
Pregnancy, childbirths and the puerperium	26	0	0	0
Diseases of the skin and subcutaneous tissue	861	0	130	0
Diseases of the musculoskeletal system and connective tissue	378	1	32	0
Congenital malformations, deformations and chromosomal abnormalities	1545	78	645	68
Certain conditions originating in the perinatal period	6173	533	6158	531
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	975	36	145	20
Injury, poisoning and certain other consequences of external causes	2684	33	210	2

Table 12.

Case fatality rates in hospitals, Georgia, 2008

	Case fatality rate (%)	Including	
		In children aged 0-15	In infants
Total	1.9	1.3	3.4
	<i>Including:</i>		
Certain infectious and parasitic diseases	1.1	0.6	1.3
Neoplasms	2.0	0.5	0.9
Endocrine, nutritional and metabolic diseases	1.8	0.6	0.8
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	1.0	0	0
Mental and behavioural disorders	1.7	0	0
Diseases of the nervous system	3.3	0.9	1.2
Diseases of the eye and adnexa	0	0	0
Diseases of the ear and mastoid process	0	0	0
Diseases of the circulatory system	6.1	1.6	8.8
Diseases of the respiratory system	0.7	0.3	0.9
Diseases of the digestive system	1.7	0.2	2.0
Diseases of the genitourinary system	0.9	0.2	0.9
Pregnancy, childbirths and the puerperium	0.01	0	0
Diseases of the skin and subcutaneous tissue	0.2	0	0
Diseases of the musculoskeletal system and connective tissue	0.3	0.3	0
Congenital malformations, deformations and chromosomal abnormalities	4.4	5.1	10.5
Certain conditions originating in the perinatal period	8.6	8.6	8.6
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	12.6	3.7	13.8
Injury, poisoning and certain other consequences of external causes	2.7	1.2	1.0

Table 13.

Diurnal hospitals and their activity, Georgia, 2007 - 2008

	2007		2008	
	At hospitals	At out-patient facilities	At hospitals	At out-patient facilities
Number of departments	18	4	20	2
Number of beds	344	12	403	5
Number of patients treated	8419	10423	9005	290

Table 14.

Orphanages and their activity, Georgia, 2005 - 2008

	2005	2006	2007	2008
Number of orphanages homes	2	2	2	2
Number of places for children	195	210	182	185
Number of staff	257	224	145	153
	<i>Including:</i>			
Physicians	19	19	8	9
Mid-level medical staff	28	24	9	9
Teachers	92	79	77	15
	Number of children in the orphanages by the end of the year			
Total	170	154	164	160
	<i>Including:</i>			
0-1 year of age	48	40	47	60
1-3 years of age	89	66	77	59
3 + years of age	33	48	40	41
	Number of children left the orphanages during the year			
Taken by parents	71	95	60	30
Adopted	34	25	6	11
Transferred to educational and social institutions due to the age	4	2	8	11
Died	27	24	23	24

Table 15.

Functioning of anatomy and pathology departments, Georgia, 2007–2008

	2007		2008	
	Number of autopsies performed	% from the total number of hospital deaths	Number of autopsies performed	% from the total number of hospital deaths
Total	672	12.3	137	2.2
	<i>Including:</i>			
Children under 14 years of age	109	14.3	44	4.8
Newborns 0 – 6 days of age	108	16.0	8	1.5
Still births	362	49.1	97	13.5

Primary Health Care

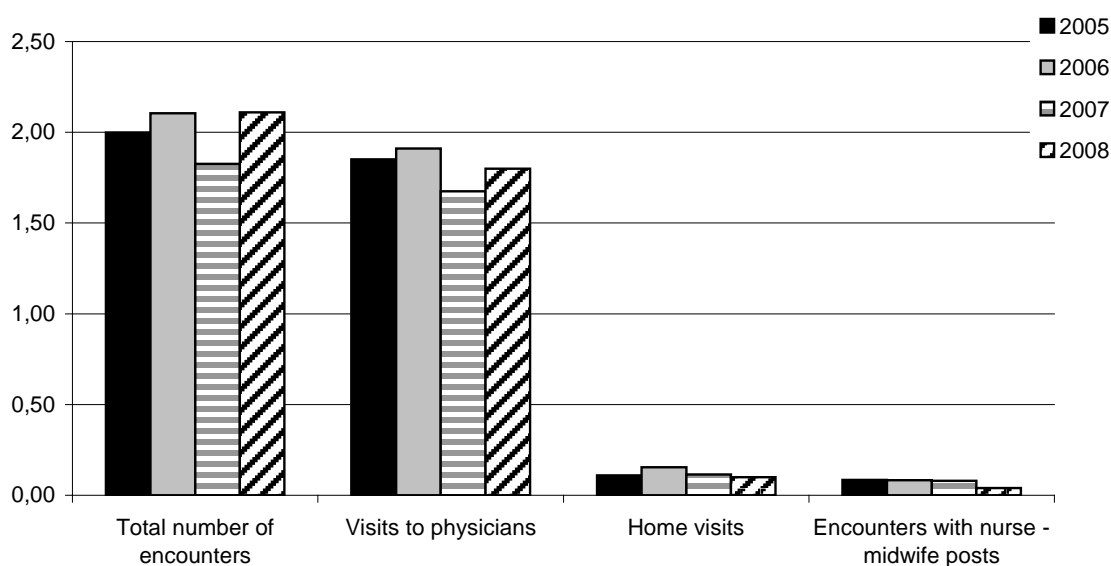


Figure 1. Number of encounters with ambulatory-policlinics network per person per year, Georgia, 2005 – 2008

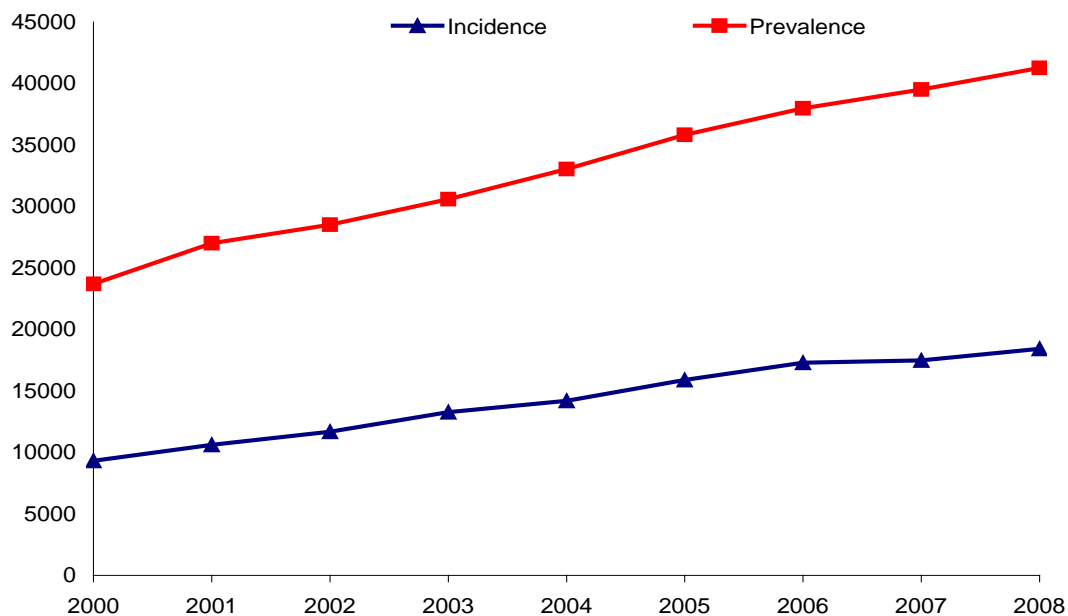


Figure 2. General incidence and prevalence rates per 100,000 population, Georgia, 2000 - 2008

Table 1.

Morbidity indicators per 100000 population, Georgia, 2008

	Prevalence	Incidence
Total	41270.3	18420.0
Certain infectious and parasitic diseases	1457.0	1075.0
Neoplasms	1085.4	179.9
Endocrine, nutritional and metabolic diseases	3363.7	697.6
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	445.9	266.3
Mental and behavioural disorders	2347.1	222.0
Diseases of the nervous system	2384.3	662.6
Diseases of the eye and adnexa	2391.9	800.0
Diseases of the ear and mastoid process	733.8	453.9
Diseases of the circulatory system	8377.3	1696.7
Diseases of the respiratory system	8276.5	6838.8
Diseases of the digestive system	4538.5	2107.8
Diseases of the genitourinary system	2096.4	1101.7
Pregnancy, childbirth and the puerperium *	931.3	723.8
Diseases of skin and subcutaneous tissue	923.4	662.8
Diseases of the musculoskeletal system and connective tissue	1515.1	594.8
Congenital malformations, deformations and chromosomal abnormalities	165.4	38.4
Certain conditions originating in the perinatal period	5746.2	4121.2
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	141.9	112.7
Injury, poisoning and certain other consequences of external causes	709.2	666.1

Table 2.

Structure by the classes of diseases, Georgia, 2008

	Number of registered cases	%	Number of new cases	%
Total	1809208	100	807497	100
Certain infectious and parasitic diseases	63873	3,5	47124	5,8
Neoplasms	47580	2,6	7886	1,0
Endocrine, nutritional and metabolic diseases	147458	8,2	30580	3,8
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	19546	1,1	11672	1,4
Mental and behavioural disorders	102892	5,7	9733	1,2
Diseases of the nervous system	104523	5,8	29049	3,6
Diseases of the eye and adnexa	104858	5,8	35072	4,3
Diseases of the ear and mastoid process	32167	1,8	19900	2,5
Diseases of the circulatory system	367242	20,3	74379	9,2
Diseases of the respiratory system	362824	20,1	299800	37,1
Diseases of the digestive system	198957	11,0	92400	11,4
Diseases of the genitourinary system	91904	5,1	48298	6,0
Pregnancy, childbirth and the puerperium	10940	0,6	8502	1,1
Diseases of skin and subcutaneous tissue	40478	2,2	29058	3,6
Diseases of the musculoskeletal system and connective tissue	66420	3,7	26073	3,2
Congenital malformations, deformations and chromosomal abnormalities	7251	0,4	1685	0,2
Certain conditions originating in the perinatal period	2988	0,2	2143	0,3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	6219	0,3	4942	0,6
Injury, poisoning and certain other consequences of external causes	31088	1,7	29201	3,6

* The number of women of reproductive age was used as a denominator of the rates

** The number of infants was used as a denominator of the rates

Table 3.

Morbidity indicators in children under 15 years, rates per 100000 children, Georgia, 2008

	Prevalence	Incidence
Total	48946.4	36808.3
Certain infectious and parasitic diseases	4013.2	3339.5
Neoplasms	66.6	19.7
Endocrine, nutritional and metabolic diseases	2165.1	707.7
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	1130.2	755.9
Mental and behavioural disorders	827.2	198.5
Diseases of the nervous system	2954.5	833.2
Diseases of the eye and adnexa	2273.6	1149.7
Diseases of the ear and mastoid process	1177.7	913.6
Diseases of the circulatory system	844.6	166.2
Diseases of the respiratory system	24512.6	22568.7
Diseases of the digestive system	3257.2	2246.9
Diseases of the genitourinary system	779.2	515.6
Pregnancy, childbirth and the puerperium**	2.2	0.7
Diseases of skin and subcutaneous tissue	1742.0	1391.9
Diseases of the musculoskeletal system and connective tissue	614.9	288.8
Congenital malformations, deformations and chromosomal abnormalities	811.0	175.2
Certain conditions originating in the perinatal period**	5746.2	4121.2
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	409.1	324.6
Injury, poisoning and certain other consequences of external causes	970.2	927.7

Table 4.

Structure by the classes of diseases in children under 15 years, Georgia, 2008

	Number of registered cases	%	Number of new cases	%
Total	368175	100	276872	100
Certain infectious and parasitic diseases	30187	8,2	25120	9,1
Neoplasms	501	0,1	148	0,1
Endocrine, nutritional and metabolic diseases	16286	4,4	5323	1,9
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	8501	2,3	5686	2,1
Mental and behavioural disorders	6222	1,7	1493	0,5
Diseases of the nervous system	22224	6,0	6267	2,3
Diseases of the eye and adnexa	17102	4,6	8648	3,1
Diseases of the ear and mastoid process	8859	2,4	6872	2,5
Diseases of the circulatory system	6353	1,7	1250	0,5
Diseases of the respiratory system	184384	50,1	169762	61,3
Diseases of the digestive system	24501	6,7	16901	6,1
Diseases of the genitourinary system	5861	1,6	3878	1,4
Pregnancy, childbirth and the puerperium	3	0,001	1	0,0004
Diseases of skin and subcutaneous tissue	13103	3,6	10470	3,8
Diseases of the musculoskeletal system and connective tissue	4625	1,3	2172	0,8
Congenital malformations, deformations and chromosomal abnormalities	6100	1,7	1318	0,5
Certain conditions originating in the perinatal period	2988	0,8	2143	0,8
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3077	0,8	2442	0,9
Injury, poisoning and certain other consequences of external causes	7298	2,0	6978	2,5

* The number of girls of age 10-14 was used as a denominator of the rates

** The number of infants was used as a denominator of the rates

Table 5.

Number of encounters with the primary health care per person per year, Georgia, 2002 - 2008

Type of the encounter	2002	2003	2004	2005	2006	2007	2008
Encounters to physicians, all ages	1.40	1.61	1.80	1.85	1.91	1.68	1.80
<i>In children under 15 years of age</i>	1.10	1.40	1.64	1.57	3.31	3.04	2.80
Home visits, all ages	0.09	0.10	0.12	0.11	0.16	0.11	0.10
<i>In children under 15 years of age</i>	0.20	0.24	0.26	0.25	0.28	0.25	0.23

Table 6.

Functioning of the out-patient facilities, Georgia, 2002 – 2008

	2002	2003	2004	2005	2006	2007	2008
Total number of encounters	6763618	7783478	8549147	878622	9256759	8016113	8519856
<i>Including:</i>							
Encounters to physicians	6325008	6980832	7890279	8069045	8403132	7350753	7875066
<i>Including: to dental clinics</i>	274548	303240	306359	330360	321438	388946	344999
Home visits	370923	418048	505862	475390	681940	500610	470241
<i>Visits to nurse-midwife posts</i>	67687	81358	153006	174187	171687	164750	174549
Planned capacity of the out-patient facilities (number of patients per shift per day)	98249	94390	94319	92061	87977	84819	87385
Actual number of encounters per shift	26014	29936	32881	33533	35603	30789	32769
Out-patient network occupancy rate (%)	26.5	31.7	34.9	36.4	40.5	36.3	37.5

Table 7.

Preventive screening of children and student adolescents, Georgia, 2008

	Total number of the population screened	Examinations revealed				
		Low hearing (%)	Low vision (%)	Speech disturbances (%)	Scoliosis (%)	Disorders of a bearing (%)
Children under 15 years of age and student adolescents 15–18 years of age	722957	0.12	0.53	0.41	0.61	0.47
<i>Including:</i>						
Children under 15 years of age	541805	0.12	0.49	0.44	0.56	0.43
Infants	51844	0.04	0.03	0.05	0.01	0.004
Children 1–5 years of age	156128	0.09	0.33	0.60	0.20	0.27
Children 5–6 years of age	51122	0.26	1.51	1.43	1.40	1.22
Adolescents 15 years of age	39830	0.19	0.93	0.29	1.43	1.35
Adolescents 16–18 years of age at graduating from a school	69746	0.13	0.53	0.27	0.56	0.30
Number of males in the total number of adolescents	39380	0.08	0.40	0.13	0.38	0.26

Table 8.

Number of visits to dental clinics (cabinets), Georgia, 2003 - 2008

	2003	2004	2005	2006	2007	2008
Total number of visits	303240	306359	330360	321438	388946	344999
<i>Including:</i>						
Children under 15 years of age	58958	60102	69355	65408	58405	54393
Adolescents 16 – 18 years of age	26853	26575	24936	24285	23761	24742
Total number of primary visits	149834	152363	160033	141763	175978	170387
<i>Including:</i>						
Children under 15 years of age	30397	28094	35069	30079	28981	26112
Adolescents 16 – 18 years of age	15203	15380	13866	12956	13313	12010

Table 9.

Dental clinics and cabinets, network, staff and encounters according to the reports, Georgia, 2005-2008

	2005	2006	2007	2008
Independent dental clinics	100	71	109	70
Dependent dental clinics (cabinets)	491	467	354	439
Total number of visits, all ages	330360	321438	388946	344999
Including total number of visits in children	69355	65408	58405	54393
Total number of visits per person per year, all ages	0.07	0.07	0.09	0.08
Total number of visits per person per year (in children)	0.07	0.08	0.08	0.07
Number of physicians	1300	1241	1198	1197
Number of mid-level medical staff, including dental prosthodontist	242	197	191	217

Table 10.

Emergent medical care (number of patients), Georgia, 1988 – 2008

	Total number of patients	Including							
		After accidents		At sudden illness		At delivery and pathologic pregnancy		Transportation of diseased, lying-in women and newborns	
		Total number	%	Total number	%	Total number	%	Total number	%
1988	1309352	62373	4,8	1111850	84,9	26897	2,1	96563	7,4
1989	1252456	61077	4,9	1075578	85,9	25796	2,1	90005	7,2
1990	1268859	53629	4,2	1107048	87,2	23583	1,9	84598	6,7
1991	1164685	54777	4,7	1016856	87,3	19555	1,7	73497	6,3
1992	647018	31991	4,9	559136	86,4	12704	2,0	43187	6,7
1993	420521	19673	4,7	361960	86,1	6938	1,6	31950	7,6
1994	217006	8707	4,0	196235	90,4	2986	1,4	9078	4,2
1995	156920	7774	5,0	144533	92,1	1317	0,8	3296	2,1
1996	152344	7701	5,1	139734	91,7	959	0,6	3950	2,6
1997	117734	7295	6,2	105932	90,0	780	0,7	3727	3,2
1998	123582	7794	6,3	111410	90,2	1337	1,1	3041	2,5
1999	142695	10219	7,2	126644	88,8	1856	1,3	3976	2,8
2000	150645	7982	5,3	138383	91,9	1366	0,9	2914	1,9
2001	135539	7618	5,6	124233	91,7	1126	0,8	2562	1,9
2002	162376	8421	5,2	147701	91,0	1243	0,8	5011	3,1
2003	192641	10166	5,3	172589	89,6	2104	1,1	7782	4,0
2004	218188	19560	8,9	191379	87,7	3137	1,4	4112	1,9
2005	453422	38594	8,5	393183	86,7	5246	1,2	16399	3,6
2006	683003	49068	6,4	599335	87,8	6584	1,0	33016	4,8
2007	726779	15930	2,2	644912	88,7	3319	0,5	62618	8,6
2008	768167	10912	1,4	751945	97,9	5310	0,7	28412	3,7

Table 11.

Emergent medical care by the regions (number of patients), Georgia, 2005 - 2008

	2005	2006	2007	2008
Tbilisi	191418	259426	277818	320354
Ajara	48684	70542	69033	67924
Guria	11693	23157	22636	24182
Racha-Lechkhumi and Kvemo Svaneti	7780	13121	13193	9638
Samegrelo	35929	38761	50470	49342
Mtskheta-Mtianeti	8077	20172	17395	17282
Samtskhe-Javakheti	14441	23411	29191	25657
Kvemo Kartli	32422	52041	56755	59314
Imereti	60835	94157	93190	94154
Kakheti	23371	53010	58960	59469
Shida Kartli	18772	35205	38138	40851
Georgia	453422	683003	726779	768167

Table 12.

Number of ambulance calls per patient per year, Georgia, 2002 - 2008

Type of calls	2002	2003	2004	2005	2006	2007	2008
All ages	0.04	0.04	0.05	0.10	0.16	0.17	0.18
Children under 15 years of age	0.003	0.004	0.003	0.04	0.08	0.08	0.07

Table 13.

Number of calls recorded by the ambulance services, Georgia, 2002 - 2008

	2002	2003	2004	2005	2006	2007	2008
Total Number	162376	192641	218188	453422	683003	750156	774192
Financed by the state program	125442	147112	164218	427264	669764	713373	754818

Table 14.

Surgical activity in the out-patient facilities, Georgia, 2003 - 2008

	2003	2004	2005	2006	2007	2008
Total number of surgical operations	14972	22008	27525	25058	37456	27426
<i>Including:</i>						
The eye and adnexa	854	963	1916	2831	3949	5214
Including micro surgery	440	343	951	1455	2431	2212
Including due to glaucoma	55	56	323	329	415	450
cataract	333	362	946	1725	2624	3297
The ear, the throat and the nose	601	433	349	524	576	973
Including on the ear	23	0	85	12	5	27
Vessels	3	0	5	37	9	79
Abdominal organs	22	34	30	30	38	317
Including the abdominal hernia plastic without obstruction	6	4	8	22	20	139
The female genital tract	5308	6463	6009	6405	7439	7219
Breast	186	137	361	164	296	317
The skin and subcutaneous tissue	5990	10147	14358	10647	6250	8960

Table 15.

Health surveillance upon people with imparities and disabilities, including war invalids and veterans, health surveillance, Georgia, 2006 -2008

	2006	2007	2008
Total number of persons enrolled by the beginning of the year	76132	85458	55908
<i>Including:</i>			
War veterans, excluding war invalids	7765	7800	4909
War invalids	3918	3518	2388
Number of newly enrolled persons	16017	6041	8764
Number of persons taken off the list during the year	8273	29418	8641
Including deaths	3602	2639	2396
Total number of persons turned up to the regular medical check-up by the end of the year	83876	62081	56031

Table 16.

Health surveillance upon people with imparities and disabilities, including war invalids and veterans, according to the disability groups, Georgia, 2008

	Total		Including	
			War veterans	War invalids
Total number of persons enrolled by the end of the year	56031		4428	2098
<i>Including the following groups of disability:</i>				
I Heavy	6633		279	306
II Essential	29322		1325	1465
III Limited	7254		421	327

Table 17.

Health screening of recruits, Georgia, 2005 – 2008

	2005	2006	2007	2008
Total number of recruits screened during the year	8260	7878	19420	29040
Total number of persons enrolled by the end of the year	2920	2044	3091	4020

Table 18.

Number of rural ambulatories and nurse–midwife posts by the regions, Georgia, 2007 - 2008

	2007			2008		
	Rural ambulatory Independent	Co-social	Nurse – midwife posts (co-social)	Rural ambulatory Independent	Co-social	Nurse – midwife posts (co-social)
Ajara	0	44	170	0	46	175
Guria	2	57	11	2	58	11
Racha-Lechkhumi and Kvemo Svaneti	12	19	12	12	19	11
Samegrelo	2	113	7	2	113	7
Imereti	105	21	4	105	21	3
Kakheti	7	99	3	10	88	3
Mtskheta-Mtianeti	27	9	5	30	8	3
Samtskhe-Javakheti	11	25	63	11	25	61
Kvemo Kartli	21	51	17	21	51	22
Shida Kartli	21	45	9	21	45	5
Abkhazia	2	0	0	2	0	0

Table 19.

Middle medical staff of rural ambulatories and nurse–midwife posts by the regions, Georgia, 2005 - 2008

	2005	2006	2007	2008
Ajara	282	281	281	285
Guria	89	89	90	92
Racha-Lechkhumi and Kvemo Svaneti	71	73	44	47
Samegrelo	214	170	180	186
Imereti	270	268	251	244
Kakheti	278	278	257	243
Mtskheta-Mtianeti	100	96	84	92
Samtskhe-Javakheti	108	99	80	92
Kvemo Kartli	281	259	267	264
Shida Kartli	172	161	164	119
Abkhazia	39	5	4	5

Surgical Care

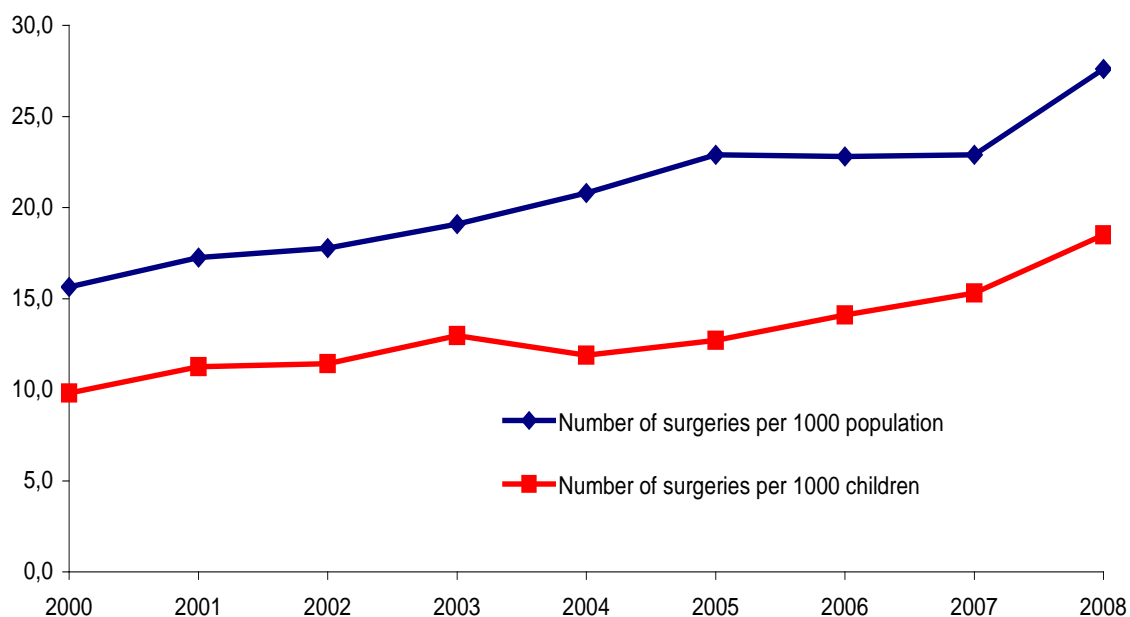


Figure 1. Number of surgical operations per 1000 population, Georgia, 2000 – 2008

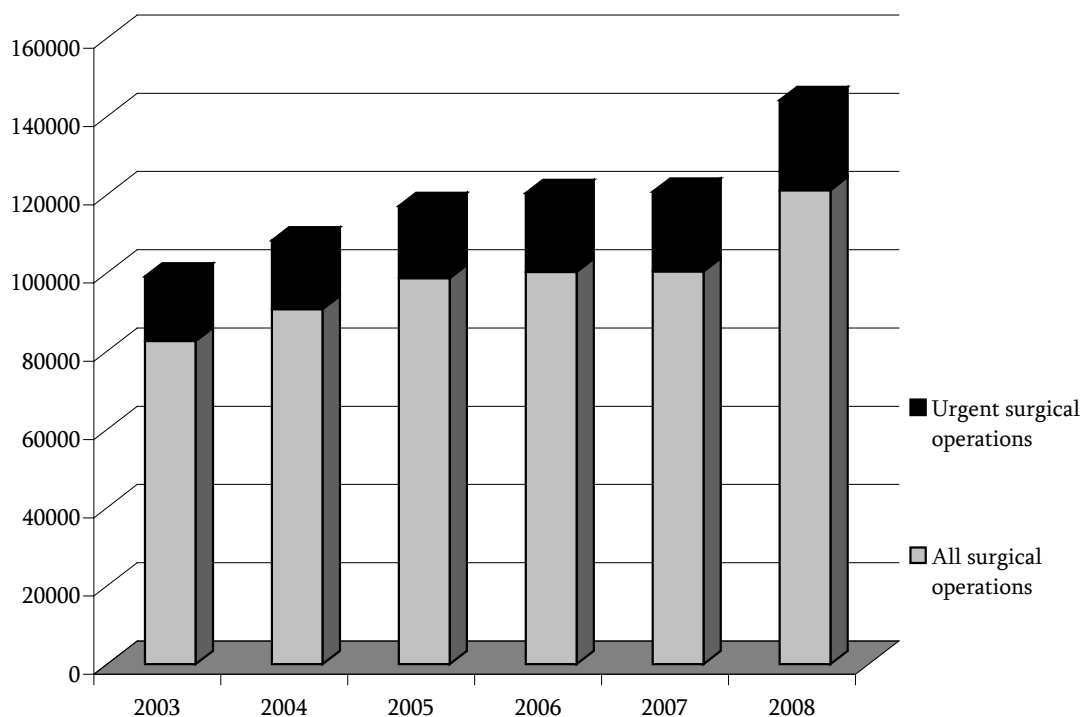


Figure 2. Share of the urgent surgical operations from the total number of surgical operations, Georgia, 2003 - 2008

Table 1.

Surgical operations, Georgia, 2008

Type of the operation	Total number of the in-patient surgical operations		Number of post operational deaths	Post operational case fatality rate (%)
	All ages	In children		
All surgical operations	121189	13943	545	0,5
Operations on the nervous system organs	3239	199	117	3,6
<i>Including:</i>				
<i>on the brain</i>	1020	133	72	7,1
<i>on the spinal cord</i>	198	30	0	0
<i>on the brain membranes</i>	60	0	6	10,0
<i>on the peripheral nervous system</i>	103	0	7	6,8
<i>on intervertebral disks</i>	1742	0	1	0,1
Operations on the endocrine system organs	1180	2	0	0
<i>Including:</i>				
<i>on hypophysis</i>	35	0	0	0
<i>on thyroid gland</i>	1044	1	0	0
<i>parathyroidectomy</i>	16	0	0	0
<i>adrenalectomy</i>	4	0	0	0
Operations on the eye	5748	283	0	0
<i>Including due to:</i>				
<i>glaucoma</i>	603	8	0	0
<i>enucleating</i>	149	4	0	0
<i>cataract</i>	3651	34	0	0
Operations on the ear and the nose	3513	1226	0	0
<i>Including:</i>				
<i>on ear</i>	245	15	0	0
<i>adenoidectomy</i>	1916	1150	0	0
Operations on the tonsil	6904	4234	0	0
Operations on the respiratory system organs	1564	640	11	0,7
<i>Including</i>				
<i>pulmonectomy</i>	86	0	5	5,8
<i>resection of a part of the lung</i>	115	6	1	0,9
<i>resection of a segment of the lung</i>	87	0	0	0
<i>on the larynx</i>	40	0	0	0
<i>resection of the trachea</i>	7	0	0	0
<i>resection of the pleura</i>	35	2	0	0
Operations on the heart	1253	303	58	4,6
<i>Including:</i>				
<i>on open heart</i>	732	139	38	5,2
<i>due to congenital malformations</i>	65	39	6	9,2
<i>endovascular balloon dilatation</i>	195	125	2	1,0
<i>implantation of a cardio stimulator</i>	250	0	2	0,8
<i>pericardiumectomy</i>	5	0	0	0
Operations on the blood vessels	3207	26	11	0,3
Abdominal operations	28614	4348	270	0,9
Operations on kidney and ureter	2620	291	9	0,3
<i>Including a kidney transplantation</i>	7	0	1	14,3
Operations on prostate	1097	10	1	0,9
Operations on female genital organs	8543	16	5	0,1
Obstetric-gynecological operations	32159	33	1	0,003
<i>Including due to ectopic pregnancy</i>	1170	0	0	0
Operations on the musculoskeletal system	9365	931	33	0,4
<i>Including:</i>				
<i>amputations of a limb or its part</i>	927	17	26	2,8
<i>due to diabetes mellitus</i>	540	0	12	2,2
Operations on breast	1935	0	0	0
Operations on the skin and subcutaneous tissue	5560	670	14	0,3

Table 2.

Surgical operations according to the body systems, Georgia, 2007 - 2008

Type of the operation	2007		2008	
	Number of in-patient operations	Post operational case fatality rate (%)	Number of in-patient operations	Post operational case fatality rate (%)
All surgical operations	100438	0,5	121189	0,5
Operations on the nervous system organs	2649	3,8	3239	3,6
Operations on the endocrine system organs	934	0,1	1180	0
Operations on the eye	3634	0	5748	0
Operations on the ear and the nose	2539	0	3513	0
Operations on the respiratory system organs	2224	0,9	1564	0,7
Operations on the heart	831	3,6	1253	4,6
Operations on the blood vessels	2466	1,3	3207	0,3
Abdominal operations	24592	1,1	28614	0,9
Operations on kidney and ureter	2031	0,8	2620	0,3
Operations on prostate	1169	0,7	1097	0,1
Operations on female genital organs	7770	0,1	8543	0,1
Obstetric–gynecological operations	27194	0,04	32159	0,003
Operations on the musculoskeletal system	6778	0,7	9365	0,4
Operations on breast	1515	0	1935	0
Operations on the skin and subcutaneous tissue	4111	0,1	5560	0,3

Table 3.

Surgical operations in children according to the body systems, Georgia, 2008

Type of the operation	Number of in-patient operations	Fatal cases	Post operational case fatality rate (%)
All surgical operations	13943	79	0,6
<i>Including:</i>			
Operations on the nervous system organs	199	10	5,0
Operations on the respiratory system organs	640	2	0,3
Operations on the heart	303	27	8,9
Abdominal operations	4348	35	0,8
Operations on the musculoskeletal system	931	2	0,2

Table 4.

Surgical operations, Georgia, 1994 - 2008

	Surgical operations, all ages			Surgical operations in children		
	Total number	Total number of surgical operations per 1000 population	Post operational case fatality rate (%)	Total number	Total number of surgical operations per 1000 children	Post operational case fatality rate (%)
1994	108194	21,9	0,7	13018	11,5	0
1995	97583	20,4	0,7	10774	9,9	0
1996	79087	16,9	0,7	10057	9,6	0
1997	79114	17,4	0,7	8875	8,8	0
1998	79046	17,5	0,8	9810	9,9	0
1999	74234	16,6	0,8	9219	9,6	0
2000	69360	15,6	0,8	9262	9,8	0,7
2001	75905	17,2	0,7	10415	11,3	0,6
2002	77657	17,8	0,7	10463	11,7	0,3
2003	82626	19,1	0,7	10970	13,0	0,5
2004	90790	20,8	0,7	10945	11,9	0,4
2005	98695	22,6	0,7	11655	12,7	0,5
2006	100303	22,8	0,6	11194	14,1	0,4
2007	100438	22,9	0,5	11722	15,3	0,2
2008	121189	27,6	0,5	13943	18,5	0,6

Table 5.

Urgent surgical operations, Georgia, 2008

	Total number of operations	Number of fatal cases	Case fatality rate (%)
Total number of the urgent surgical operations	23022	247	1,1
<i>Including:</i>			
Acute intestinal obstruction	1106	64	5,8
Acute appendicitis	9066	5	0,1
Ulcer of the stomach and duodenum with perforation	635	26	4,1
Intestinal bleeding	239	23	9,6
Strangulated hernia	4067	10	0,3
Acute cholecystitis	1646	12	0,7
Acute pancreatitis	98	6	6,1
Ectopic pregnancy	1170	0	0
Splenectomy	205	6	2,9
Other abdominal operations	2497	73	2,9
Lung resection	100	0	0
Amputation of a kidney	130	1	0,8
Amputation of a testis	163	0	0
Amputation of an ovary	386	0	0
Amputation of a limb or its part	861	20	2,3
Other operations of the genital organs	653	1	0,2

Table 6.

Urgent surgical operations' structure, Georgia, 2007 - 2008

Urgent surgical operations	2007		2008	
	Total number	%	Total number	%
	20369	100	23022	100
<i>Including:</i>				
Acute appendicitis	8433	41,4	9066	39,4
Ulcer of the stomach and duodenum with perforation	651	3,2	635	2,8
Acute cholecystitis	1779	8,7	1646	7,1
Acute intestinal obstruction	943	4,6	1106	4,8
Intestinal bleeding	238	1,2	239	1,04
Strangulated hernia	3848	18,9	4067	17,7
Acute pancreatitis	116	0,6	98	0,4
Ectopic pregnancy	938	4,6	1170	5,1
Splenectomy	162	0,8	205	0,9
Other abdominal operations	1868	9,2	2497	10,8
Lung resection	28	0,1	100	0,4
Nephrectomy	134	0,7	130	0,6
Amputation of a testis	148	0,7	163	0,7
Amputation of an ovary	319	1,6	386	1,7
Other operations on the genital organs	268	1,3	653	2,8
Amputation of a limb or its part	496	2,4	861	3,7

Table 7.

Surgical operations under general narcosis, Georgia, 1994 - 2008

	Total number of surgical operations under general narcosis	Percent from the total number of surgical operations	Post-operational case fatality rate (%)
1994	28286	26,1	0,02
1995	32360	33,2	0,01
1996	24400	30,9	0,01
1997	30864	39,0	0,01
1998	32363	40,9	0,04
1999	31974	43,1	0,02
2000	32213	46,4	0,02
2001	34173	45,0	0,02
2002	35261	45,4	0,03
2003	39386	47,7	0,03
2004	43030	47,4	0,03
2005	54499	55,2	0,01
2006	54771	54,6	0,01
2007	57004	56,7	0,01
2008	71725	59,2	0,01

Table 8.

Urgent surgical operations, Georgia, 1994 - 2008

	Number of urgent surgical operations	Per cent from the total number of surgical operations	Post-operational case fatality rate (%)
1994	11407	10,5	1,9
1995	12387	12,7	1,7
1996	11444	14,5	1,2
1997	13007	16,4	1,7
1998	13596	17,2	1,5
1999	14484	19,5	1,4
2000	13982	20,2	1,4
2001	13372	17,6	1,1
2002	13610	17,5	1,4
2003	16498	20,0	1,3
2004	17541	19,3	1,4
2005	18414	18,6	1,4
2006	20146	20,1	1,2
2007	20369	20,3	1,4
2008	23022	19,0	1,1

Table 9.

Abdominal surgical operations, Georgia, 1994 - 2008

	Total number	Post-operational case fatality rate (%)	Including			
			Urgent surgical operations Number	Post-operational case fatality rate (%)	Other surgical operations Number	Post-operational case fatality rate (%)
1994	17971	2,2	10633	2,1	7338	2,4
1995	17584	2,0	11612	1,8	5972	2,3
1996	14899	1,8	10618	1,3	4281	3,0
1997	16967	1,9	11982	1,8	4985	2,1
1998	18266	1,9	12755	1,6	5511	2,6
1999	18948	1,8	13478	1,4	5470	2,6
2000	18055	1,7	12991	1,5	5064	2,3
2001	18367	1,6	12385	1,1	5982	2,4
2002	19979	1,4	12711	1,4	7268	1,4
2003	19647	1,4	13346	1,1	6301	1,9
2004	24419	1,4	14029	1,2	10390	1,6
2005	23434	1,4	14680	1,1	8754	2,0
2006	24617	1,2	17873	1,2	6744	1,2
2007	24592	1,1	18038	1,2	6554	1,0
2008	28614	0,9	19559	1,2	9055	0,5

Table 10.

Non-urgent abdominal surgical operations with high case fatality rate, Georgia, 1994 - 2008

	Total number of surgical operations	Post-operational case fatality rate (%)
1994	2872	4,6
1995	2588	4,5
1996	2153	5,0
1997	2733	3,5
1998	2565	1,3
1999	3180	3,9
2000	2304	3,9
2001	2694	4,6
2002	3776	2,5
2003	2812	3,8
2004	2706	3,2
2005	3343	3,2
2006	2795	2,5
2007	3033	2,1
2008	4027	2,0

Table 11.

Certain urgent surgical operations, time between the onset of the disease and hospitalization, Georgia, 2008

	Total number of patients			From the total number of hospitalized patients			
	All cases	Hospitalization in more than 24 hours from the onset of the disease		Have not been operated	Case fatality rate (%)	Operated	Case fatality rate (%)
		Total number	%				
Acute intestinal obstruction	1106	220	19,9	139	3,6	1106	5,8
Acute appendicitis	9066	1393	15,4	109	0	9066	0,1
Ulcer of the stomach and duodenum with perforation	635	51	8,0	75	0	635	4,1
Intestinal bleeding	239	54	22,6	713	2,5	239	9,6
Strangulated hernia	4067	319	7,8	209	0	4067	0,2
Acute cholecystitis	1646	369	22,4	143	0,7	1646	0,7
Acute pancreatitis	98	19	19,4	198	0,5	98	6,1
Ectopic pregnancy	1170	35	3,0	5	0	1170	0
Splenectomy	205	10	4,9	0	0	205	2,9
Other abdominal operations	2497	73	2,9	150	2,0	2497	2,9
Lung resection	100	0	0	0	0	100	0
Nephrectomy	130	1	0,8	10	0	130	0,8
Amputation of a testis	163	3	1,8	0	0	163	0
Amputation of an ovary	386	4	1,0	0	0	386	0
Other operations on the genital organs	653	34	5,2	17	0	653	0,2
Amputation of a limb or its part	861	70	8,1	1	0	861	2,3

Table 12.

Functioning of the in-patient surgical beds, Georgia, 1995 – 2008

	Total number of beds	Bed occupancy rate (in days)	Average length of stay	Bed rotation
1995	7006	115,7	14,8	7,9
1996	5210	85,5	10,1	8,6
1997	5509	84,2	9,7	8,8
1998	5387	95,3	10,0	9,6
1999	5395	89,8	9,2	9,9
2000	5022	74,7	8,2	9,1
2001	4787	75,8	7,6	10,0
2002	4518	82,0	7,6	10,9
2003	4516	79,4	7,1	11,3
2004	4441	83,2	6,8	12,4
2005	4256	83,5	6,2	13,7
2006	3990	90,1	5,7	15,9
2007	3584	113,9	5,9	19,3
2008	3453	125,1	5,5	23,1

Table 13.

Functioning of the in-patient surgical beds for children, Georgia, 1995 - 2008

	Total number of beds	Bed occupancy rate (in days)	Average length of stay	Bed rotation
1995	770	94,3	11,7	8,2
1996	666	79,1	9,3	8,7
1997	630	73,4	9,0	8,3
1998	655	78,7	8,7	9,2
1999	563	82,8	8,5	9,8
2000	588	70,7	7,5	9,6
2001	522	82,9	7,8	1,8
2002	513	78,5	7,6	10,5
2003	529	11,4	7,3	15,7
2004	549	116,7	6,0	19,6
2005	537	125,0	4,6	27,4
2006	460	134,2	7,3	18,3
2007	372	208,7	8,9	23,1
2008	389	153,8	6,2	24,6

Table 14.

Total number of surgical operations and the post operational case fatality rate by the regions, Georgia, 2007 - 2008

	2007		2008	
	Total number of surgical operations	Case fatality rate (%)	Total number of surgical operations	Case fatality rate (%)
Abkhazia	363	0	219	0
Ajara	9794	0,4	13207	0,2
Tbilisi	50833	0,7	60604	0,6
Kakheti	4758	0,2	5241	0,3
Imereti	14873	0,6	18228	0,5
Samegrelo and Zemo Svaneti	5158	0,4	5778	0,5
Shida Kartli	3800	0,3	4781	0,1
Kvemo Kartli	5007	0,5	5459	0,2
Guria	1493	0,5	1792	0
Samtskhe-Javakheti	2316	0,2	2471	0,1
Mtskheta-Mtianeti	1117	0	1198	0,3
Racha-Lechkhumi and Kvemo Svaneti	259	0,8	400	0,3
Departments other than the MOLHSA	--	--	1733	0,4
Georgia	100438	0,5	121111	0,5

Functioning of the Auxiliary Departments

Table 1.

Functioning of the auxiliary departments, Georgia, 2008

Type of the auxiliary department	Total number
Activity of physiotherapeutic departments (cabinets)	
Total number of the patients ended the treatment	41770
<i>Including at out-patient facilities and at home</i>	22090
Number of children under 15 years of age among the patients ended the treatment	15345
<i>Including at out-patient facilities and at home</i>	3571
Total number of procedures provided	228963
<i>Including at out-patient facilities</i>	122773
<i>at home</i>	
Activity of physiotherapy exercises departments	
Total number of the patients ended the treatment	17013
<i>Including at out-patient facilities and at home</i>	10365
Number of children under 15 years of age among the patients ended the treatment	8196
<i>Including at out-patient facilities and at home</i>	6052
Total number of the procedures provided	148135
<i>Including at out-patient facilities</i>	75840
<i>at home</i>	905
Activity of reflex therapy departments	
Total number of the patients ended the treatment	940
Total number of the procedures provided	11390
Activity of hemodialysis departments	
Total number of places for hemodialysis	340
Total number of the procedures provided	90351
Activity of high pressure oxygenation departments	
Total number of the sessions provided	205
Activity of logopaedics departments	
Total number of the patients ended the treatment, all ages	3125
<i>Including children under 15 years of age</i>	3116

Functioning of the Diagnostic Departments

Table 1.

Functioning of X-ray departments (including preventive examinations), Georgia, 2008

	Total number of examinations	Chest	Including Gastro - intestinal	Musculoskeletal
X-ray examinations	507729	245983	62481	183346
	<i>Including:</i>			
Radioscopy	84914	69298	13993	1070
Radiography	423519	177183	49287	182241
Electrical radiography	1438	533	0	905
Diagnostic fluorography	22173	22173	0	0
Special examinations	34046	463	537	39
From the total number of special examinations:				
Angiography	792			
Cholecistography	537			
Urography	1730			
Computer tomography	22788			
Regular tomography	2685			
Examinations of genitals	42			
Salpingography	656			
Mammography	3889			

Table 2.

Ultrasound examinations, Georgia, 2007 - 2008

	2007	2008
Ultrasound examinations of the cardiovascular system	42349	78061
Abdominal ultrasound examinations	128031	195414
Ultrasound examinations of the female genital organs	138105	195581
<i>Including during a pregnancy</i>	72726	86149
Ultrasound examinations of newborns and infants	10550	9880
Breast ultrasound examinations	8270	10248
Thyroid gland ultrasound examinations	23834	34479
Ultrasound examinations of the musculoskeletal system	5345	18099
Doppler examination of the peripheral blood circulating system	8172	9785
Brain ultrasound examinations	8869	11582
Ultrasound functional biopsy and drainage	43	111
Ultrasound examinations during surgical operations	11	5445

Table 3.

Functioning of the endoscopy departments/cabinets, Georgia, 2008

	Total number	Esophago-gastro-duodenoscopy	Including Colonoscopy	Bronchoscopy
Total number of endoscopies	23474	15600	1445	4686
	<i>Including:</i>			
Treatment procedures	5834	3893	123	1780
From the total number of investigations, with cytomorphologic sampling	2720	1035	333	1301

Table 4.

Functioning of medical labs, Georgia, 2008

	Total	Number of the lab analyses				
		<i>Including:</i>				
		Hematological	Cytological	Biochemical	Microbiological	Immunological
All patients	5313969	1876853	137289	1515819	302439	637694
Out-patient	2835486	981350	78619	767534	140479	406319
		<i>Including:</i>				
		From the total number of analyses:				
For hormones						74173
For enzymes						169676
For coagulation and anti coagulating system parameters						296506
For electrolytes and fluids exchange						57673
Bacteriological investigation of the sample for detection of tuberculosis bacilli						88689
						Culturing
						34850
For diagnostics of diphtheria						4422
						Culturing
						3600
For meningococcal infection diagnostics						1918
						Microscopy
						1311
						Culturing
For malaria diagnostics						480
						Microscopy
Complex of serological reactions						191083
Special reactions for serum and liquor diagnostics of syphilis						71317

Table 5.

Functional diagnostics departments, Georgia, 2007 - 2008

	2007	2008
Number of the examined patients, all ages	265292	315686
<i>Including at out-patient facilities and at home</i>	125565	164912
Number of children under 15 years of age	20559	22130
Total number of examinations	304310	359921

Table 6.

Number of some departments (cabinets) functioning in health facilities, Georgia, 2007 - 2008

Departments (cabinets)	2007	2008
Physiotherapy	182	187
Therapeutic exercises (adults and children)	121	119
Reflex therapy	6	8
Hemodialysis	6	9
Hyperbaric oxygen therapy	3	3
Audiology	4	7
X-rays	299	297
Endoscopy	55	72
Anti rabies activity	73	79
Computer tomography	11	16
Vaccination and immunization	297	271
Postmortem study	22	21
Electrocardiography and functional diagnostics	274	312
Blood transfusion	133	128
Laboratories		
Radionuclide diagnostics	0	1
Clinics diagnostics	611	620
Bacteriological	95	106
Serological	119	126
Biochemical	387	381
Cytological	67	74

Anti-Rabies Service Activity

Table 1.

Anti-Rabies cabinets' activity (vaccination against rabies), Georgia, 2007 – 2008

	2007	2008
Total number of patients applied for anti-rabies care	37943	45412
Total number of patients to whom preventive vaccination with gamma globulin was prescribed	34232	44073
	<i>Including:</i>	
Number of conditional vaccination course	19889	29259
Number of non conditional courses	8021	9736
Number of interrupted vaccination courses	6322	5078

Functioning of Blood Preparation and Blood Transfusion Departments

Table 1.

Main indicators of functioning of the blood service departments, Georgia, 2003 - 2008

	2003	2004	2005	2006	2007	2008
Total number of blood donors	23155	27981	29135	32787	28983	30366
<i>Including the free-of-charge (relatives)</i>	6253	6030	7115	12360	7444	7575
Total number of medical staff	474	452	456	443	371	317
<i>Including physicians</i>	119	94	121	126	103	92
	Prepared blood:					
Prepared blood without conservation (l)	9503	14103	12290	13472	18133	23529
<i>Including free-of-charge (l)</i>	1811	1789	2864	3952	8548	11201
Red cell mass (l)	4771	5490	5596	5982	6292	9693
Freshly frozen plasma (l)	4627	5380	5750	6955	6130	10478
Red cell mass Impoverished by white cells and trombocytes (l)	601	492	645	543	178	356
Trombocytes mass (doses)	1219	1216	1953	1690	1324	105
Albumin (l)	90	87	66	0	0	0

Preventive Vaccination and Immunization *

Table 1.

Timely vaccination and immunization, Georgia, 2008

Vaccine	Vaccination age according to the National vaccination calendar	Total number of vaccinations	Vaccination coverage (%)
BCG - 1 (timely) **	0-5 days	50199	89,6
BCG - 1	Under 1 years	53195	95,4
DPT - 1	2 months – 11 months 29 days	46648	--
DPT - 2	3 months – 11 months 29 days	44681	--
DPT - 3	4 months – 11 months 29 days	42881	92,1
DPT - 4	18 - 24 months	38199	84,0
Polio - 1	2 months – 11 months 29 days	42399	--
Polio - 2	3 months – 11 months 29 days	41468	--
Polio - 3	4 months – 11 months 29 days	41840	89,9
Polio - 4	18 - 24 months	35289	77,6
Polio - 5	5 years - 5 years - 11 months 29 days	32760	75,0
Hp B - 1 (timely) **	0 - 24 hours	52658	94,0
Hp B - 1 (total)	0 - 24 hours +25 hours - 11 months 29 days	54909	98,5
Hp B - 2	2 months – 11 months 29 days	44763	--
Hp B - 3	3 months – 11 months 29 days	41619	89,4
MMR - 1	12 - 24 months	44133	96,5
MMR - 2	5 years - 5 years 11 months 29 days	38006	87,0
MMR	13 years	1531	15,4
DT	5 years - 5 years 11 months 29 days	36931	84,5
TD	14 years	37792	66,5

Table 2.

Vaccination and immunization by the regions, Georgia, 2008

	BCG- 1 (under 5 days)**		BCG- 1 (under 1 year)		DPT - 3	
	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)
Ajara	5174	95,4	5277	96,6	4013	90,6
Tbilisi	21550	88,6	22984	97,1	14929	94,5
Kakheti	2663	81,7	2879	86,5	3370	95,3
Imereti	7290	91,2	7514	94,0	5907	93,6
Samegrelo	3457	83,7	3498	97,2	2611	87,4
Shida Kartli	2429	94,7	2480	96,8	2589	90,8
Kvemo Kartli	4093	88,7	4481	95,1	4594	83,7
Guria	885	92,5	933	97,4	1066	97,6
Samtskhe-Javakheti	1947	88,7	2130	97,8	2140	95,0
Mtskheta-Mtianeti	434	90,8	452	90,2	826	93,4
Racha-Lechkumi and Kvemo Svaneti	97	94,2	99	86,8	182	88,8
Departments other than the MoLHSA	180	--	468	72,0	654	90,3
Georgia	50199	89,6	53195	95,4	42881	92,1

* The coverage was calculated on the purposeful contingent

** The coverage was calculated on the live births number, NCDC data

Table 3.

Vaccination and immunization by the regions, Georgia, 2008

	Polio - 3		Hp B – 1 (0 - 24 hours)**		Hp B – 3 (timely)	
	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)
Ajara	3572	80,7	5224	96,3	3879	87,6
Tbilisi	14456	91,5	23033	94,7	14912	94,4
Kakheti	3303	93,4	3026	92,9	3298	93,3
Imereti	5906	93,6	7763	97,1	5586	88,5
Samegrelo	2616	87,5	3298	79,8	2436	81,5
Shida Kartli	2474	86,8	2362	92,1	2215	77,7
Kvemo Kartli	4871	88,7	4296	93,1	4695	85,5
Guria	986	90,3	943	98,5	993	90,9
Samtskhe-Javakheti	2016	89,5	1959	89,3	2015	89,5
Mtskheta-Mtianeti	738	83,5	457	95,6	788	89,1
Racha-Lechkhumi and Kvemo Svaneti	205	100,0	92	89,3	167	81,5
Departments other than the MoLHSA	697	96,3	205	--	635	87,7
Georgia	41840	89,9	52658	94,0	41619	89,4

Table 4.

Vaccination and immunization by the regions, Georgia, 2008

	DT		MMR - 1		MMR - 2	
	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)	Total number of vaccinations	Coverage (%)
Ajara	2961	69,7	3840	86,7	3084	72,5
Tbilisi	11998	83,7	15538	98,4	11528	80,4
Kakheti	3395	99,8	3443	97,5	3118	91,7
Imereti	5292	97,3	5793	98,9	5255	96,6
Samegrelo	2395	90,5	2770	96,5	2464	93,1
Shida Kartli	2225	77,5	2835	98,8	2681	93,4
Kvemo Kartli	3968	71,1	5165	96,9	5342	95,7
Guria	1078	89,8	1068	98,9	1004	83,7
Samtskhe-Javakheti	2110	98,6	2001	92,5	2002	93,5
Mtskheta-Mtianeti	769	89,7	844	94,2	751	87,6
Racha-Lechkhumi and Kvemo Svaneti	198	73,3	192	93,2	220	81,5
Departments other than the MoLHSA	542	75,6	644	89,0	557	77,7
Georgia	36931	84,5	44133	96,5	38006	87,0

Table 5.

Vaccination and immunization, Abkhazian de facto Ministry of Health data, 2008

Vaccine	Total number of vaccinations
BCG	2500
DPT	5253
Polio	8853
Hp B	5804
MMR	3531
MR (campaign)	6678
DT	2452
TD	2534

** The coverage was calculated on the live births number, NCDC data

Table 6.

Vaccination and immunization, Tskhinvali region de facto Ministry of Health data, 2008^{*}**

Vaccine	Total number of vaccinations
BCG - 1 (timely)	69
BCG - 1 (total)	78
BCG - 2	5
DPT - 1	159
DPT - 2	165
DPT - 3	139
DPT - 4	84
Polio - 1	203
Polio - 2	197
Polio - 3	184
Polio - 4	164
Polio - 5	103
Polio - 6	182
Hp B - 1 (timely)	67
Hp B - 1 (total)	146
Hp B - 2	139
Hp B - 3	112
Other Hp B	375
MMR - 1	210
MMR - 2	132
MMR	40
DT - 1	52
DT - 2	39
DT - 3	25
DT - 4	10
DT	21
TD	202

^{***} 5 months data (January-May)

MATERNAL AND CHILD HEALTH *

According to the data provided by the women consultations, 80368 **pregnant women** were registered in Georgia in 2008, which is 16.0 percent more, than in 2007. 52.1 percent of pregnant women were enrolled at women consultancy centers in the first trimester of the pregnancy (up to 12 weeks). During the reporting year, 54750 women were taken off the lists of women consultancy centers, including: 49508 women, who carried the pregnancy to the end (90.4 percent) and 1.7 percent due to spontaneous abortions (up to 22 weeks). 47867 women (96.7 percent) had been delivered in time.

In 2008, 71.8 percent of women encountered the women consultancy centers for 4 full visits. During the visits 41001 pregnant women were examined by a therapist; 56.2 percent of total number of examinations was provided in the first trimester of the pregnancy. 47044, 42885, 41382 and 40129 pregnant women were tested for Rh factor, syphilis, AIDS and Hepatitis B respectively. 6248 pregnant women had been sent for Hepatitis C testing.

Since June 2007, with the assistance of the Rostropovich-Vishnevskaya Foundation (RVF), it became possible to start the screening programme of pregnant women to identify carriers of **hepatitis B surface antigen (HBsAg)**. In 2007 from June to December, 31 a total of 26015 pregnant women have been screened, in 2008 – a total of 40129 women. Moreover, the passive immunisation program has started for newborns of carrier mothers, using hepatitis B immunoglobulin (HBIG), to enhance the protective efficacy of the extant neonatal hepatitis B. A total of 557 newborns have been vaccinated from June 2007 to 31 of December 2007, a total of 1316 newborns – in 2008.

Among the **maternal diseases, which preceded the pregnancy or developed during the pregnancy, complicating pregnancy, delivery and the puerperium period**, anemia (37.4 percent of cases), infections of genitourinary tract (18.1 percent of cases) and thyroid gland pathologies (12.6 percent of cases) were leading. During the reporting year, 2918 women were hospitalized because of the pathology of pregnancy.

In 2008, in Georgia, 56096 **deliveries** were registered in health facilities, including 55850 (99.6 percent) deliveries in maternity homes and departments. The part of home deliveries in the total number of all deliveries is still decreased and came to 0.4 percent (246 cases). In the total number of all deliveries in maternity homes and departments 67.4 percent were registered as normal and 32.6 percent - as pathological.

In 2008, 13870 **caesarean sections** were performed, which is 24.7 percent in the total number of deliveries (for comparison: 22.2 percent in 2007). 66.4 percent of caesarean sections were primary, including 56.2 percent of urgent cases. **Obstetric forceps** were used in 86 cases and **vacuum aspiration** in 132 cases of delivery.

In the structure of **intra partum and post partum complications**, the share of perineal lacerations during delivery (22.6 percent - 2900 cases), anemia (22.5 percent - 2887 cases), abnormalities of forces of labour (12.7 percent – 1631 cases) and eclampsia and pre-eclampsia (12.2 percent - 1559 cases) were leading. The share of infections

* Data collected by NCDC Georgia

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during labour and puerperal period was 0.4 percent (46 cases, including 5 cases of peritonitis after cesarean section).

The tendency of decreasing of **maternal mortality** ratio became evident in Georgia in last years. In 2008, there were 8 cases of maternal deaths. Maternal mortality ratio per 100000 live births equals 14.3, the minimum value during 1990-2008 years.

In reporting year 22062 **abortions** were registered. 468 abortions (2.1 percent of the total number of abortions) were performed at the first pregnancy. In the total number of the abortions 6 abortions were registered in the age group under 15 and 1359 – in 15–19 age group.

In 2008, 12171 women have used **hormonal contraception**, 2604 women have inserted **intra uterine devices** (the total number of the IUD users being under surveillance of the health institutions by the end of the year was 6554).

32050 women (excluding women encountering health services for antenatal care) and 1472 men encountered with women consultancy and reproductive health centers. The total number of patients is 30.4 percent more, than in 2007. The distribution of the **reasons for encounters** was as follows: 33.7 percent (11289 cases) - selection of the method of contraception; 12.1 percent (4048 cases) - examination of the currently used method of contraception; 7.2 percent (2423 cases) – infertility; 6.7 percent (2226 cases) – climax. For **sexually transmitted infections** 21023 patients (18953 female and 2070 male) have got examinations, which is 38.4 percent more, than in 2007. As a result of examinations 2 cases of syphilis, 59 cases of gonorrhoea, 444 cases of chlamydiosis, 2413 cases of trichomoniasis, 2280 cases of bacterial vaginosis, and 720 cases of papilloma virus were revealed.

In 2008, according to the data, provided from the health facilities, there were registered 56025 **live births**, including 55790 in hospitals. 94.5 percent of newborns, registered at in-patient facilities, have got a birth weight more than 2499 grams.

8.6 percent of all live births at hospitals (4808 newborns) were born sick or got sick after the birth. This number includes 4444 cases of certain conditions originating in the perinatal period (92.4 percent of all cases) and 265 cases of congenital malformations, deformations and chromosomal abnormalities (5.5 percent of all cases). Among sick newborns there were 57 babies with a very low birth weight (500 – 999 grams), 1372 - with a low birth weight (1,000 – 2499 grams), and 3379 - with a birth weight 2500 grams and more. 3.8 percent of newborns, from the total number of all live births at maternity homes, were referred to preterm babies and newborn departments of other hospitals.

In 2008, in Georgia, there were registered 516 cases of the **early neonatal deaths** (early neonatal deaths rate – 9.2). 148 of newborns (28.7 percent) died at the maternity homes and departments, 368 (71.3 percent) - at the children's hospitals.

In 2008, in Georgia, there were registered 717 **still births**, which is 2.8 percent less in the comparison with the last year. In 76.7 percent (550 cases) from the total number of registered cases of the still births, the birth weight of fetus was less than 2500 grams.

According to the data, provided from health facilities, 940 children **died** at the age less than 15 years; of which 802 cases of death were registered in children under 1 year of age (**infant mortality rate** – 14.3), and 898 - in the age group under 5 years (**under**

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five child mortality rate – 16.0). 97.3 percent of the children in the age group under 5 years died in hospitals.

According to the data, provided from out-patient network facilities, 368175 **cases of diseases** (prevalence rate – 48946.4) were registered among children of the age 0-15 years in Georgia, in 2008, including 276872 new cases (incidence rate – 36808.3). The following classes of diseases had high incidence rates: diseases of the respiratory system (total number of new cases – 169762; incidence rate – 22568.7); certain infectious and parasitic diseases (total number of new cases – 25120; incidence rate – 3339.5); and diseases of the digestive system (total number of new cases – 16901; incidence rate – 2246.9).

In reporting year 69553 cases of children's **hospital discharges** were registered, including 23267 cases in infants. In children under 1 year of age hospitalization the following classes of diseases are leading: diseases of the respiratory system (total number of hospitalizations – 10837); certain conditions originating in the perinatal period (total number of hospitalizations – 5627); and certain infectious and parasitic diseases (total number of hospitalizations – 3321).

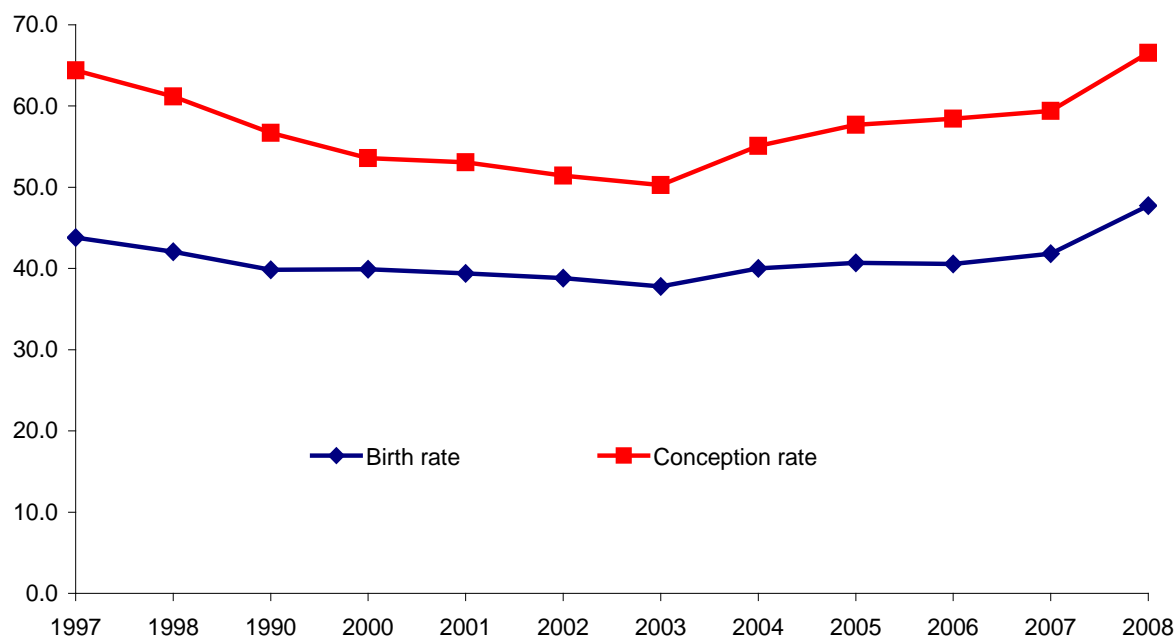


Figure 1. Birth and conception rates per 1000 women of reproductive age, Georgia, 1997 - 2008

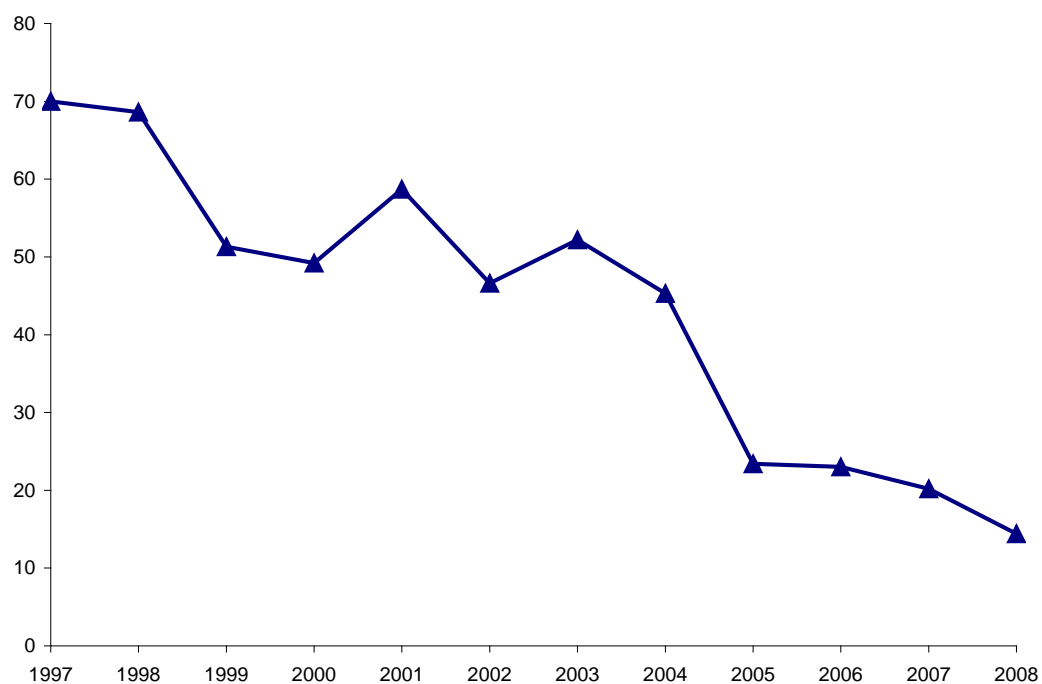


Figure 2. Maternal mortality ratio per 100000 live births, Georgia 1997 - 2008

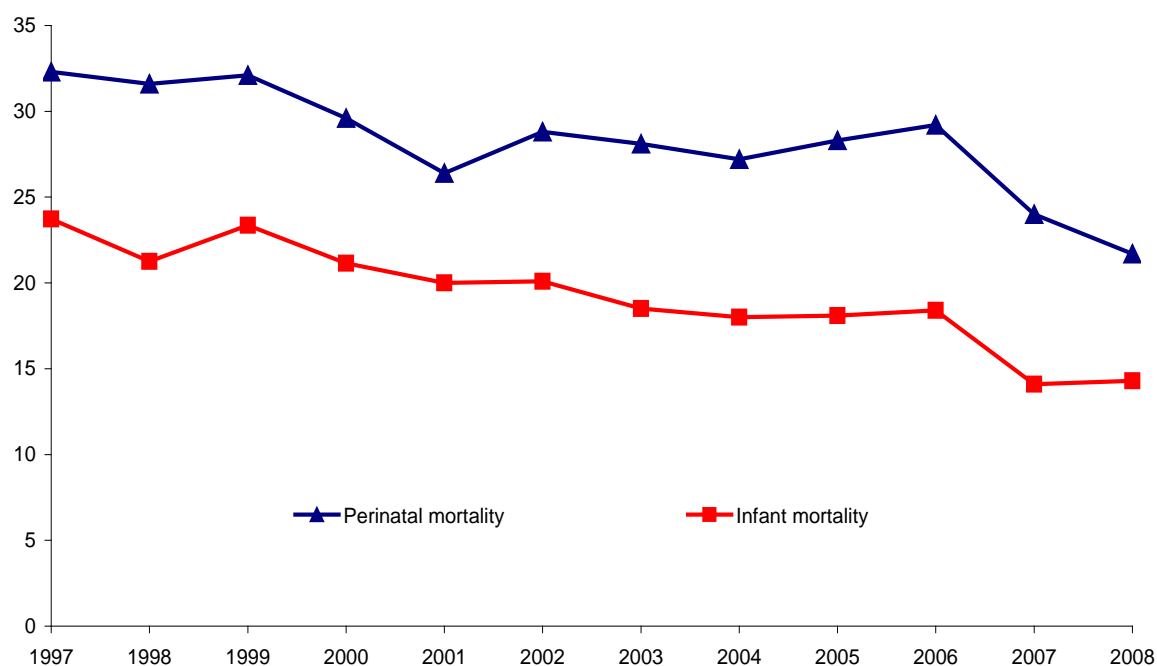


Figure 3. Perinatal and infant mortality rates, Georgia, 1997 – 2008

Table 1.

Births, child and maternal mortality (data collected from health facilities), Georgia, 2002 - 2008

	2003	2004	2005	2006	2007	2008
Total number of deliveries	44396	46734	47246	48181	49626	56096
Including: at health facilities	43170	45554	46537	47593	49317	55850
at home	1226	1180	709	588	309	246
Total number of live births	44093	46373	47022	47856	49476	56025
Including: live births at home	1149	1028	688	536	308	235
Total number of stillbirths	717	722	766	817	738	717
Total number of infant deaths*	815	834	851	882	699	802
Total number of early neonatal deaths	544	561	585	604	467	516
Total number of late neonatal deaths	179	147	123	146	118	147
Total number of post neonatal deaths	92	126	143	132	114	139
Total number of under-five deaths*	897	929	911	945	945	898
Total number of maternal deaths	23	21	11	11	10	8
Stillbirth rate per 1000 births	16.0	15.3	16.0	16.8	14.7	12.6
Early neonatal mortality rate per 1000 live births	12.3	12.1	12.4	12.6	9.4	9.2
Late neonatal mortality rate per 1000 live births	4.1	3.2	2.6	3.1	2.4	2.6
Perinatal mortality rate per 1000 births	28.1	27.2	28.3	29.2	24.0	21.7
Infant mortality rate per 1000 live births*	18.5	18.0	18.1	18.4	14.1	14.3
Under-five mortality rate per 1000 live births*	20.3	20.0	19.4	19.7	15.7	16.0
Maternal mortality ratio per 100000 live births	52.2	45.3	23.4	23.0	20.2	14.3

* The total number of infant and under-five deaths includes both in-patient and out-patient deaths, registered by health facilities

Table 2.

Births and infant mortality by the regions (data collected from health facilities), Georgia, 2008

	Number of live births	Number of stillbirths	Stillbirth rate per 1000 births	Number of infant deaths	Infant mortality rate per 1000 live births	Number of early neonatal deaths	Early neonatal mortality rate per 1,000 live births	Perinatal mortality rate per 1000 births
Ajara	5423	68	12,4	82	15,1	45	8,3	20,6
Tbilisi	24311	369	15,0	525	21,6	298	12,3	27,0
Kakheti	3258	31	9,4	24	7,4	15	4,6	14,0
Imereti	7993	100	12,4	123	15,4	121	15,1	27,3
Samegrelo and Zemo Svaneti	4131	34	8,2	9	2,2	8	1,9	10,1
Shida Kartli	2564	26	10,0	8	3,1	6	2,3	12,4
Kvemo Kartli	4613	48	10,3	13	2,8	10	2,2	12,4
Guria	957	13	13,4	2	2,1	1	1,0	14,4
Samtskhe – Javakheti	2194	23	10,4	13	5,9	9	4,1	14,4
Mtskheta – Mtianeti	478	2	4,2	3	6,3	3	6,3	10,4
Racha – Lechkhumi and Kvemo Svaneti	103	3	28,3	0	0,0	0	0,0	28,3
Georgia	56025	717	12,6	802	14,3	516	9,2	21,7

Table 3.

Essential data on antenatal care, Georgia, 2008

	Number of pregnancies taken out from the enrolled lists		Deliveries		pregnant women with 4 antenatal care visits	
	Number	%	Number	%	Number	%
Ajara	6343		5638	88.9	4801	85.2
Tbilisi	20168		18287	90.7	13507	73.9
Kakheti	3620		3330	92.0	2044	61.4
Imereti	7728		7136	92.3	5014	70.3
Samegrelo and Zemo Svaneti	3893		3496	89.8	2807	80.3
Shida Kartli	3752		2859	76.2	2750	96.2
Kvemo Kartli	5252		5061	96.4	2006	39.6
Guria	1019		989	97.1	556	56.2
Samtskhe – Javakheti	2270		2072	91.3	1645	79.4
Mtskheta – Mtianeti	569		537	94.4	351	65.4
Racha – Lechkhumi and Kvemo Svaneti	136		104	76.5	51	49.0
Georgia	54760		49508	90.4	35532	71.8

Table 3 (continued).

Essential data on antenatal care, Georgia, 2008

	Number of pregnant women tested for syphilis		Number of pregnant women tested for HIV		Number of pregnant women tested for Hepatitis B	
	Number	%	Number	%	Number	%
Ajara	4872	76.8	5421	85.5	5369	84.6
Tbilisi	16994	84.3	15096	74.9	14599	72.4
Kakheti	2085	57.6	2272	62.8	2186	60.4
Imereti	7037	91.1	6885	89.1	6779	87.7
Samegrelo and Zemo Svaneti	3223	82.8	3291	84.5	3278	84.2
Shida Kartli	2221	59.2	1573	41.9	1584	42.2
Kvemo Kartli	3665	69.8	3987	75.9	3799	72.3
Guria	869	85.3	815	80.0	756	74.2
Samtskhe – Javakheti	1433	63.1	1706	75.2	1552	68.4
Mtskheta – Mtianeti	421	74.0	274	48.2	171	30.1
Racha – Lechkhumi and Kvemo Svaneti	65	47.8	62	45.6	56	41.2
Georgia	42885	78.3	41382	75.6	40129	73.3

Table 4.

Live births and stillbirths according to the birth weight (data from maternity hospitals), Georgia, 2008

	Total	500-999 grams	1000-1499 grams	1500-2499 grams	2500-3999 grams	4000+ grams
Number of live births	55790	63	317	2677	47505	5228
% of total number of live births	100	0,1	0,6	4,8	85,1	9,4
Number of stillbirths	717	279	103	168	157	10
% of total number of stillbirths	100	38,9	14,4	23,4	21,9	1,4

Table 5.

Incidence of diseases in newborns (data from maternity hospitals), Georgia, 2008

	Total number of cases	Incidence rate per 1000 live births
All diseases	4808	86,2
<i>Including:</i>		
Certain conditions originating in the perinatal period	4444	79,7
Slow fetal growth and fetal malnutrition	859	15,4
Birth trauma	475	8,5
Including: intracranial laceration and haemorrhage due to birth injury	192	3,4
Respiratory disorders specific to the perinatal period	1944	34,8
Including: Intrauterine hypoxia and birth asphyxia	1131	20,3
Respiratory distress syndrome of newborn	670	12,0
Congenital pneumonia	33	0,6
Infections specific to the perinatal period	300	5,4
Including: Bacterial sepsis of newborn	91	1,6
Haemorrhagic disorders of fetus and newborn	101	1,8
Including: Fetal blood loss	5	0,1
Intracranial non-traumatic haemorrhage of fetus and newborn	75	1,3
Haematological disorders of fetus and newborn	405	7,3
Including: Haemolytic disease of fetus and newborn due to isoimmunization	369	6,6
Disseminated intravascular coagulation of fetus and newborn	5	0,1
Other diseases originating in the perinatal period	360	6,5
Acute respiratory infections	11	0,2
Including: Pneumonia	3	0,1
Infections of the skin and subcutaneous tissue	88	1,6
Congenital malformations, deformations and chromosomal abnormalities	265	4,7

Table 6.

Essential data on breastfeeding, Georgia, 2007 – 2008

	2007		2008	
	Total number of infants breastfed	% from the total number of live births	Total number of infants breastfed	% from the total number of live births
Data collected from the maternity hospitals:				
Breastfeeding initiated during the first hour after birth	30529	62,1	36143	64,8
Breastfeeding initiated in 1-8 hours after birth	12044	24,5	12050	21,6
Breastfeeding initiated in 8-24 hours after birth	3633	7,4	4355	7,8
Total number of the breastfed newborns	47798	97,2	54434	97,6
Data collected from the children policlinics:				
Breastfeeding at the age of 3 months	28468	57,9	28693	51,4

Table 7.

Abortions and contraception, Georgia, 1991 – 2008

	Total number of live births	Abortions		Abortion rate per 1000 live births	Number of intrauterine devices inserted	Number of women to whom hormonal contraception was prescribed
		Total number	Including mini abortions			
1991	89091	59384	9772	717.7	15790	7732
1992	72631	50748	10256	730.8	9588	5419
1993	61594	45131	8391	789.4	8379	3468
1994	57311	45858	10295	857.9	9127	3983
1995	56341	39538	7522	715.2	9538	5181
1996	53300	30003	5867	554.1	10817	3699
1997	52851	23403	5541	447.6	8171	4869
1998	49588	21018	6806	423.8	9148	6276
1999	46827	18306	6549	390.9	11539	9142
2000	46765	14951	5414	319.7	9120	7865
2001	46006	15008	5330	326.2	9032	8755
2002	45033	13908	5143	308.8	8252	8143
2003	44093	13834	5183	313.7	9084	9340
2004	46373	17210	6552	371.1	9047	10996
2005	47022	19734	6710	419.7	9643	10783
2006	47856	21204	7478	443.1	7581	10742
2007	49476	20644	7583	417.3	7548	9541
2008	56025	22062	7662	393.8	6554	12171

Table 8.

Abortions by the age groups, Georgia, 2008

	All ages	Age groups					
		<15	15-19	20-29	30-39	40-44	45 +
Total number	22062	6	1359	11052	8080	1349	216
Abortion rate per 100,000 women in the age group	1878,1	2,1	376,6	1596,0	1323,5	446,4	64,5
Including:							
Spontaneous abortions	2958	2	239	1575	911	181	50
Induced abortions	19100	4	1120	9475	7167	1168	166
Gestational age less than 12 weeks)	19018	4	1117	9431	7136	1164	166
Mini abortions (Gestational age less than 5 weeks)	7662	1	401	3770	2956	468	66
Gestational age 12-22 weeks	82	0	3	44	31	4	0
Number of abortions at the first pregnancy	468	1	87	306	66	8	0

Table 9.

Essential data on reproductive health*, Georgia, 2008

	Inspections			From the total number of encounters				
	Both sexes	Females	Males	Due to infertility			Due to climax	Due to abortion
				Both sexes	Females	Males		
Ajara	3567	3480	87	197	197	0	269	157
Tbilisi	9072	9072	0	586	586	0	400	143
Kakheti	1572	1370	202	28	28	0	27	23
Imereti	8460	7956	504	764	736	28	640	272
Samegrelo and Zemo Svaneti	3657	3610	47	76	76	0	140	2
Shida Kartli	1584	1584	0	185	185	0	233	77
Kvemo Kartli	3587	3052	535	292	240	52	251	119
Guria	513	510	3	36	36	0	96	80
Samtskhe – Javakheti	577	483	94	217	217	0	35	56
Mtskheta – Mtianeti	188	188	0	37	37	0	58	6
Racha – Lechkhumi and Kvemo Svaneti	745	745	0	5	5	0	47	23
Georgia	33522	32050	1472	2423	2343	80	226	958

Table 9 (continued).

Essential data on reproductive health, Georgia, 2008

	From the total number of encounters due to a contraception method selection		
	Both sexes	Females	Males
Ajara	1226	1152	74
Tbilisi	1650	1660	0
Kakheti	713	544	169
Imereti	4056	3622	434
Samegrelo and Zemo Svaneti	1582	1535	47
Shida Kartli	110	110	0
Kvemo Kartli	1519	1054	465
Guria	175	172	3
Samtskhe – Javakheti	176	82	94
Mtskheta – Mtianeti	20	20	0
Racha – Lechkhumi and Kvemo Svaneti	62	62	0
Georgia	11289	10003	1286

* Encounters to out-patient facilities due to reproductive health problems, excluding antenatal care visits

Table 10.

In-patient surgical operations on female genital organs and obstetrical-gynecological operations, Georgia, 2007 - 2008

	2007		2008	
	Total number	Case fatality rate (%)	Total number	Case fatality rate (%)
Total number of operations on the female genital organs	7770	0,06	8543	0,06
<i>Including:</i>				
Endometrectomy (excluding abortions)	1973	0	1859	0
Female sterilization	270	0	197	0
Amputation of uterus	1572	0,13	1635	0,12
Extirpation of uterus	2208	0,05	2685	0,11
Resection of ovary	524	0,19	789	0
Ovarectomy	543	0	655	0
On external genital organs with tissue extirpation	270	0	230	0
Obstetrical and gynecological surgery	27194	0,004	32159	0.003
<i>Including:</i>				
Due to ectopic pregnancy	938	0,11	1170	0
Forceps	90	0	86	0
Vacuum extraction	116	0	131	0
Cesarean section	11008	0	13870	0.007
Minor cesarean section	49	0	48	0
Operations of fetal destruction	38	0	23	0
Abortion	13061	0	12763	0

Table 11.

Caesarean sections structure, Georgia, 2007 – 2008

	2007			2008		
	Number of cases	Rate per 1000 live births	% from the total number	Number of cases	Rate per 1000 live births	% from the total number
All types of caesarean sections	11008	222.5	100	13870	246.2	100
<i>Including:</i>						
Planned	5304	--	48,2	6934	--	49,99
Urgent	5640	--	51,2	6936	--	50,01
Unspecified	64	--	0,6	0	--	--

Table 12.

Caesarean sections according to regions, Georgia, 2008

	Total number of CSs	Ratio per 1000 LB
Ajara	1385	255.4
Tbilisi	5755	236.7
Kakheti	845	259.4
Imereti	2606	326.0
Samegrelo and Zemo Svaneti	1364	330.2
Shida Kartli	490	191.1
Kvemo Kartli	964	209.0
Guria	203	212.1
Samtskhe – Javakheti	154	70.2
Mtskheta – Mtianeti	88	184.1
Racha – Lechkhumi and Kvemo Svaneti	16	155.3
Georgia	13870	247.6

Table 13.

Infant morbidity by the main classes of diseases, Georgia, 2008

	Total Number of new cases	Incidence rate per 1000 infants
All diseases	68300	1313,5
<i>Including:</i>		
Certain infectious and parasitic diseases	3953	76,0
Neoplasms	10	0,2
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2745	52,8
Endocrine, nutritional and metabolic diseases	2275	43,8
Mental and behavioural disorders	88	1,7
Diseases of the nervous system	7240	139,2
Diseases of the eye and adnexa	2454	47,2
Diseases of the ear and mastoid process	2415	46,4
Diseases of the circulatory system	195	3,8
Diseases of the respiratory system	37329	717,9
Diseases of the digestive system	2186	42,0
Diseases of the skin and subcutaneous tissue	1939	37,3
Diseases of the musculoskeletal system and connective tissue	438	8,4
Diseases of the genitourinary system	1153	22,2
Certain conditions originating in the perinatal period	1888	36,3
Congenital malformations, deformations and chromosomal abnormalities	633	12,2
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1148	22,1
Injury, poisoning and certain other consequences of external causes	211	4,1

Table 14.

Child deaths registered in health facilities by the regions, Georgia, 2008

	Children under 15 years of age				Including Children under 5 years of age							
	Total number of deaths	Mortality rate per 1000 children	% of the in-patient deaths	% of the out-patient deaths	Total number of deaths	Mortality rate per 1000 live births	% of the in-patient deaths	% of the out-patient deaths	Total number of deaths	Mortality rate per 1000 live births	% of the in-patient deaths	% of the out-patient deaths
Ajara	94	143,7	93,6	6,4	82	15,1	95,1	4,9	84	15,5	94,0	6,0
Tbilisi	616	324,4	99,4	0,6	525	21,6	99,8	0,2	599	24,6	99,5	0,5
Kakheti	26	37,7	80,8	19,2	24	7,4	87,5	12,5	24	7,4	87,5	12,5
Imereti	142	119,3	98,6	1,4	123	15,4	100,0	0	136	17,0	99,3	0,7
Samegrelo and Zemo Svaneti	17	21,2	82,4	17,6	9	2,2	88,9	11,1	11	2,7	90,9	9,1
Shida Kartli	8	14,9	75,0	25,0	8	3,1	75,0	25,0	8	3,1	75,0	25,0
Kvemo Kartli	18	20,8	77,8	22,2	13	2,8	92,3	7,7	17	3,7	76,5	23,5
Guria	3	12,6	33,3	66,7	2	2,1	50,0	50,0	3	3,1	33,3	66,7
Samtskhe – Javakheti	13	36,4	76,9	23,1	13	5,9	76,9	23,1	13	5,9	76,9	23,1
Mtskheta – Mtianeti	3	14,8	100,0	0	3	6,3	100,0	0	3	6,3	100,0	0
Racha – Lechkhumi and Kvemo Svaneti	0	0	0	0	0	0	0	0	0	0	0	0
Georgia	940	125,0	96,7	3,3	802	14,3	98,0	2,0	898	16,0	97,3	2,7

HEALTH STATUS PROFILES

The tendency of growth of **general incidence and prevalence rates** is observed in Georgia during last years, despite of the fact that in some classes of diseases incidence rates decreased.

In 2008, the total number of new cases of **certain infectious and parasitic diseases** decreased by 7.3 percent in the comparison with 2007. Major decrease is registered in group of adults and adolescents.

The 4737 new cases of **hepatitis** were registered during the reporting year. This is 27.4 percent less than in 2007. In 2008, the total number of registered cases of hepatitis A strictly decreased (52.5 percent) as well, as cases of other unspecified hepatitis (E, D and NOS). At the same time significantly increased registered cases of hepatitis B (63.4 percent) and hepatitis C (83.8 percent), this tendency was determined by going on of several new programs.

In 2008, the 1732 cases of viral **hepatitis B** were registered (incidence rate 39.51 per 100 000), including 220 acute cases (13 percent) and 1512 cases of chronic viral hepatitis B (87 percent). Growth of total numbers of viral hepatitis B caused by increase the proportion of registered cases of chronic viral hepatitis. There is base to consider, that it was determined by HB-antigen investigation of pregnant women and new report system of this data.

In 2008, 2117 cases of **hepatitis C** were registered (incidence rate 48.3 per 100 000), including 144 acute cases (6.8 percent) and 1973 cases of chronic viral hepatitis C (93.1percent). Increasing of total number of hepatitis C is due to growth cases of chronic viral hepatitis C.

In 2008, the number of cases of **diphtheria** decreased mostly in children.

Cases of **amoebiasis** strictly decreased, no case registered in children.

The number of **bacterial food born intoxications** had decreased, at the same time number of cases of botulism increased 2.5 times.

During the reporting period, the number of cases of **measles** increased in children and in adults too. To compare, incidence rate in children in 2007 was 4.3 and in 2008 - 6.2. The total number of cases of rubella decreased as well in whole population, as in children.

In 2008, the decrease tendency of **malaria** cases was prolonged. Incidence rates according to last years were as follow: 2003 - 7.3; 2004 - 5.9; 2005 - 3.5; 2006 -1.4, 2007- 0.6 and 2008 - 0.2.

In the period of 2003 - 2007, in Georgia, increasing of the cases of **leishmaniosis** was reported (in 2007 - 182 cases). In 2008 slight tendency of decrease occurs in whole population and in children.

In 2008, 7 cases of **rabies** were registered (for comparison, in 2007 - 10 cases). In 2008, 45412 patients applied for anti-rabies care, it is 19.7 percent more, than in

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previous year, out of which 97.1 percent received prescription for vaccination. A conditional course of the anti-rabies vaccination was prescribed to 66.4 percent and non-conditional to 22.1 percent of patients. 11.5 percent of patients interrupted the vaccination.

During the reporting year, 171 cases of all **meningitis** were registered (incidence rate – 3.9). In children number of registered cases decreased (incidence rate –10.2). Out of 33 cases of meningococemia (incidence rate - 0.8), 24 cases were registered in children (incidence rate – 3.2).

6 cases of **acute flaccid paralysis** were revealed in children (incidence rate - 0.8). The epidemiological surveillance rate doesn't corresponds to the WHO standards (1 case per 100 000 children, age 0 - 15).

In 2008, 213622 cases of **acute respiratory infection** and 10658 cases of **influenza** were registered. 7005 cases of hospitalization due to influenza-like disease were reported, including 5675 cases in children.

In 2008, in Georgia registered 4153 new cases of **pulmonary and extra-pulmonary tuberculosis** (incidence rate - 94.7), including 2931 new cases of pulmonary (incidence rate - 66.9) and 1222 new cases of extra-pulmonary tuberculosis (incidence rate - 27.9). Out of 2931 new cases of pulmonary tuberculosis, 63.7 percent are AFB+. In extra-pulmonary tuberculosis registered cases, the most part is coming to tuberculosis of pleura (45.3 percent), tuberculosis of lymph nodes (23.5), tuberculosis of bones and joints (11.1). Out of 44 cases of tuberculous meningitis, 9 cases are registered in children.

By the end of 2008, in Georgia, 1851 cases of **AIDS and HIV** were registered (459 females and 1392 males), including 845 cases of HIV and 1006 cases of AIDS. In 2008, 351 new cases were revealed, including 175 cases of AIDS and 176 cases of HIV. 87 patients died. Intravenous illicit drug use accounted for 56.1 percent and sexual contacts for 39.0 percent of the new cases. There were registered 17 cases of the vertical transmission (mother to baby). In 2008, HIV tests were provided to 41382 pregnant women.

In 2008, 346 new cases of **syphilis** were registered (incidence rate – 7.9) and 684 new cases of gonococcal infection (incidence rate – 15.6).14 cases of syphilis were diagnosed in 42885 pregnant women tested for syphilis.

The total number of **hospitalizations due to infectious diseases** accounted for 18103 cases, including 10213 cases in children. 68.3 percent of hospitalizations in children were caused by intestinal infections.

In infants, case fatality rates are high for **septicaemia** - 79.5 percent, compared with 2007, case fatality rate is almost 2 times more (in 2007 - 23.4 percent, in 2008 - 40.7 percent).

In 2008, in the registered structure of the **circulatory system diseases** 48.0 percent goes to hypertension and 25.3 percent - to ischemic heart disease. In children, morbidity of acute rheumatic fever is high, it is equal 21.2 percent.

An increase of the hospitalized cases of diseases of the circulatory system is registered per 16.3 percent; case fatality rate – 6.1 percent. 2108 patients, (41.5 percent of the total hospitalized cases of **acute myocardial infarction**), were admitted to a hospital in the course of the first 24 hours from the onset of the disease. Out of all hospital deaths

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due to acute myocardial infarction, 54.8 percent (265 patients) died in course of the first 24 hours after admission.

In 2008, in Georgia, number of **operations on the open heart** in whole population, including children, increased. Totally 1253 operations were performed (case fatality rate – 4.6 percent), 303 operations were performed in children under 15 (case fatality rate – 8.9 percent), 3207 operations were performed on blood vessels (case fatality rate – 0.3 percent).

In 2008, **endocrine diseases** morbidity rates slightly increased in comparison with 2007. During reporting period, 45037 persons, including 16402 children, applied for thyroid gland examination. **Thyroid gland hyperplasia** was diagnosed in 53.9 percent of cases and in 41.7 percent of examine children.

By the end of the reporting year, 64442 patients with **diabetes mellitus** were registered by health facilities (1.5 percent of whole population). Out of this number 27.6 percent are insulin-dependent; 72.4 percent – non-insulin-dependent. In 2008, tendency to decrease the number of new cases of diabetes mellitus in children (0-15years) was prolonged. This was caused by a decrease number of new registered cases of insulin-dependent diabetes mellitus.

By the end of the year, 29890 patients with **malignant neoplasms** were enrolled by health facilities (prevalence rate by the end of year 681.8). High prevalence rate was registered in three regions: Shida Kartli - 1195.3, Kakheti - 986.3, Ajara - 922.1. 5662 new cases were registered (incidence rate - 129.2), including females - 50.9 percent, males - 49.1 percent. High incidence rates were registered in Racha-Lechkhumi - 215.0, Guria - 165.0, Ajara - 160.0. According to site the following new cases of neoplasms have large shares: for females – breast (34.9 percent), genital organs (23.8 percent) and digestive organs (18.4 percent) cancers; for males – respiratory and intrathoracic organs (31.0 percent), digestive organs (26.7 percent) and genital organs (10.5 percent) cancers. During the reporting year 4148 of the enrolled patients died.

35.4 percent of patients with malignant neoplasms died in the course of the first year after they were diagnosed.

In-patient facilities reported 13033 hospital admissions due to malignant neoplasms, 775 cases out of which were in children. Case fatality rate in children decreased 3.6 times. Preventive screenings revealed 169 cases of malignant neoplasms, 86 cases out of which had I – II stage of malignancy.

In 2008, in Georgia, 362824 total numbers and 299800 new cases of diseases of the **respiratory system** were registered. Morbidity rates of diseases of the respiratory system traditionally are high, especially in children. 56.6 percent of all new cases go to children. There were registered 56649 hospital discharges due diseases of the respiratory system (case fatality rate – 0.7 percent), including 37494 cases in children (case fatality rate – 0.3 percent).

In 2008, incidence rate of **injuries, poisonings and other consequences of external causes** increased in children population in comparison with 2007. In 2008, number of hospital discharges decreased, the same time case fatality rate in children 3 times increased.

Certain Infectious and Parasitic Diseases

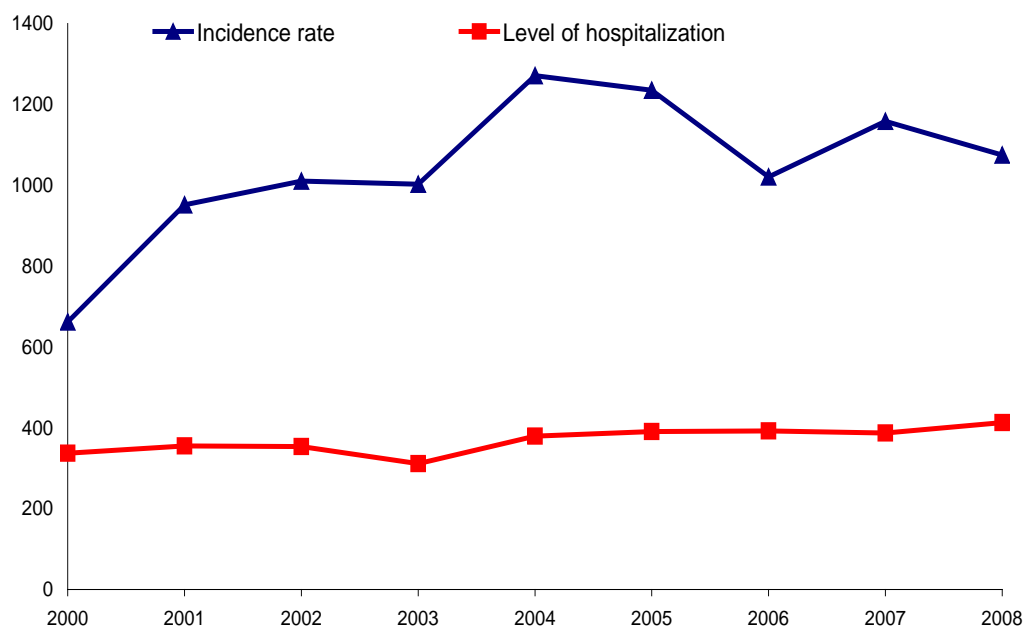


Figure 1. Certain infectious and parasitic diseases, incidence rate and level of hospitalization per 100000 population, Georgia, 2000 - 2008

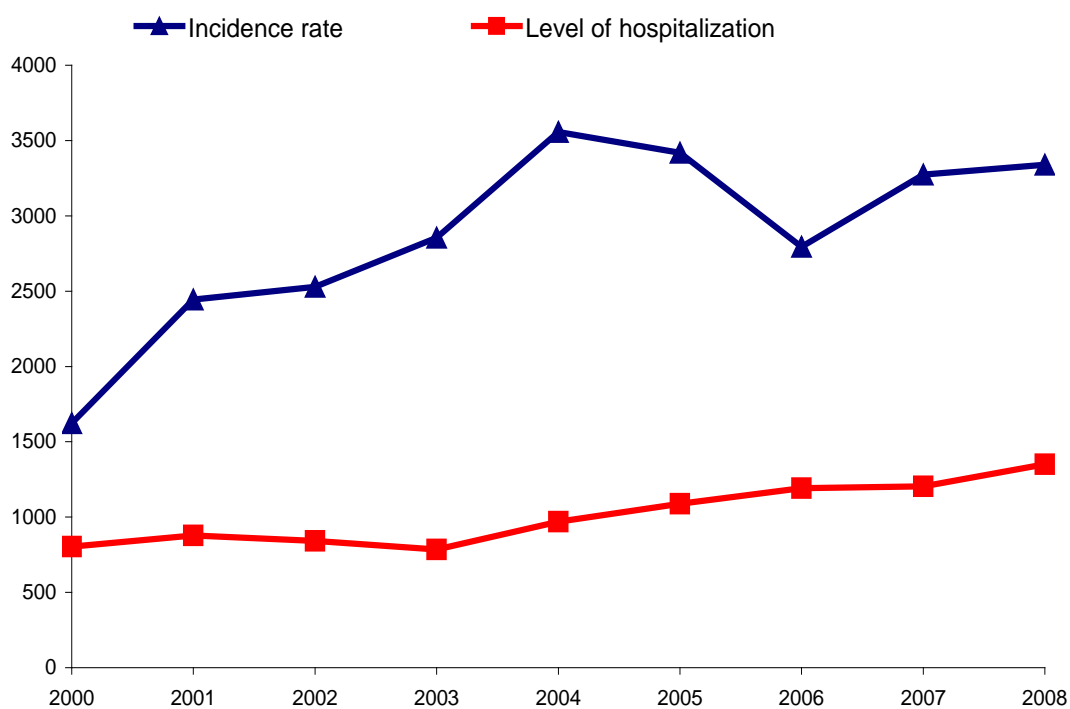


Figure 2. Certain infectious and parasitic diseases, incidence rate and level of hospitalization in children per 100000 children, Georgia, 2000 - 2008

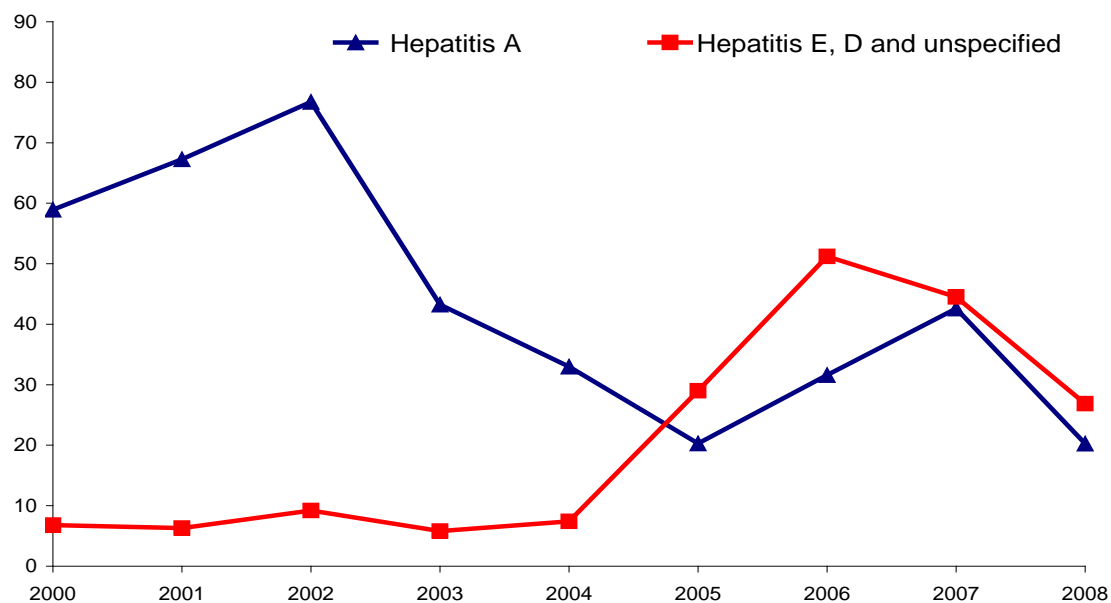


Figure 3. Incidence of viral Hepatitis A and other (E, D) and unspecified viral hepatitis, rates per 100000 population, Georgia, 2000 – 2008

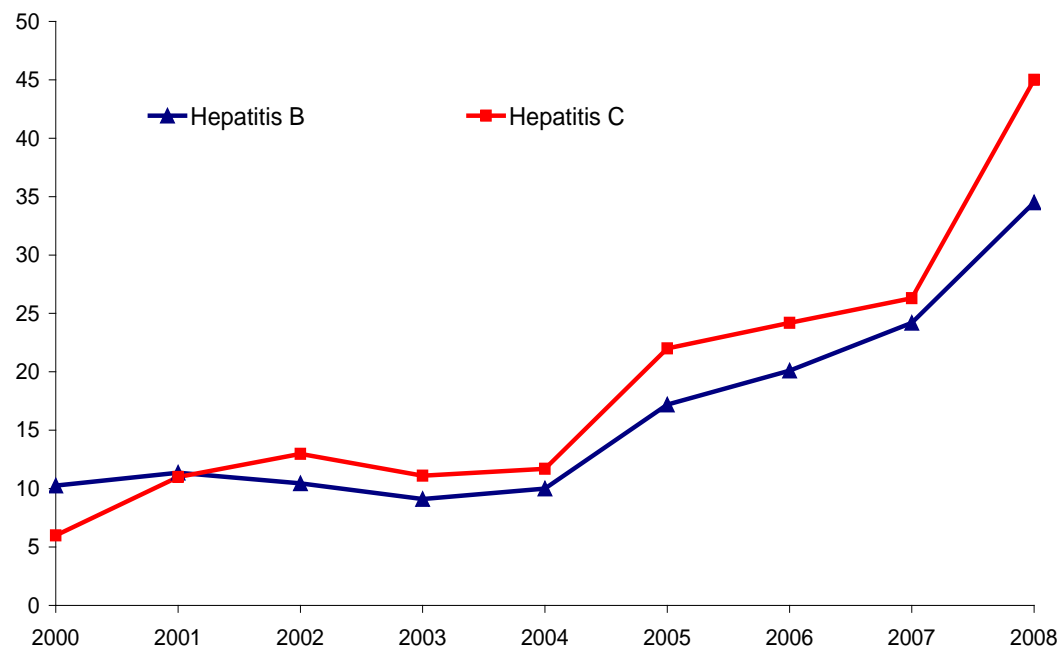


Figure 4. Incidence of viral Hepatitis B and C, rates per 100000 population, Georgia, 2000 – 2008

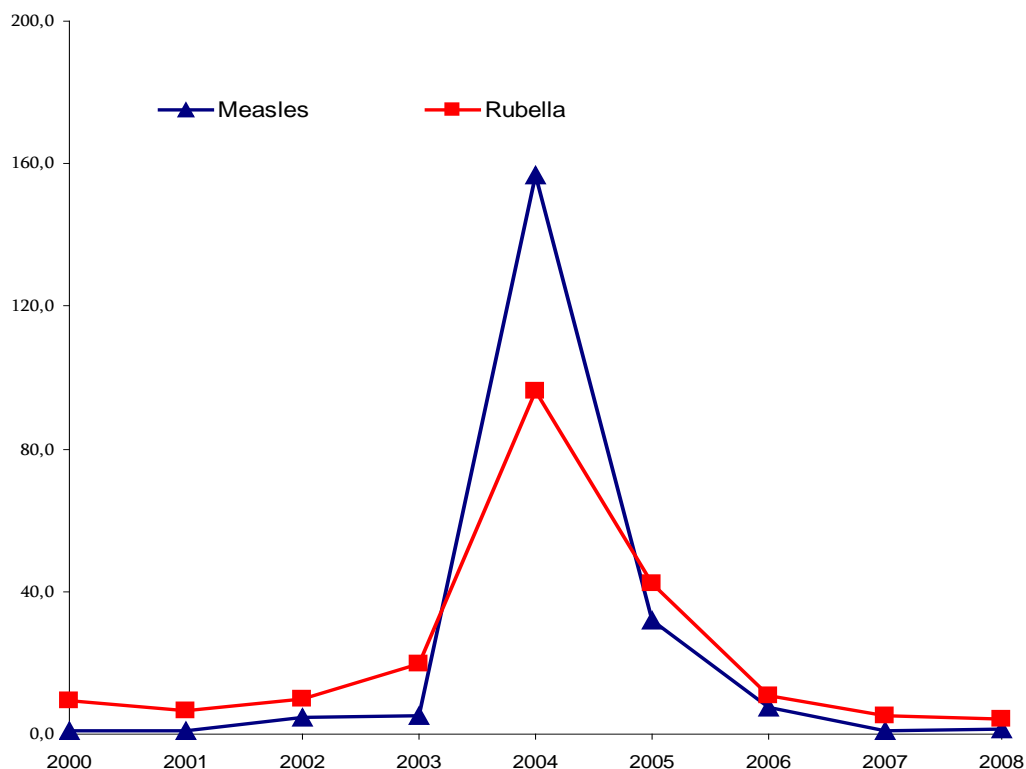


Figure 5. Incidence of measles and rubella, rates per 100000 population, Georgia, 2000 - 2008

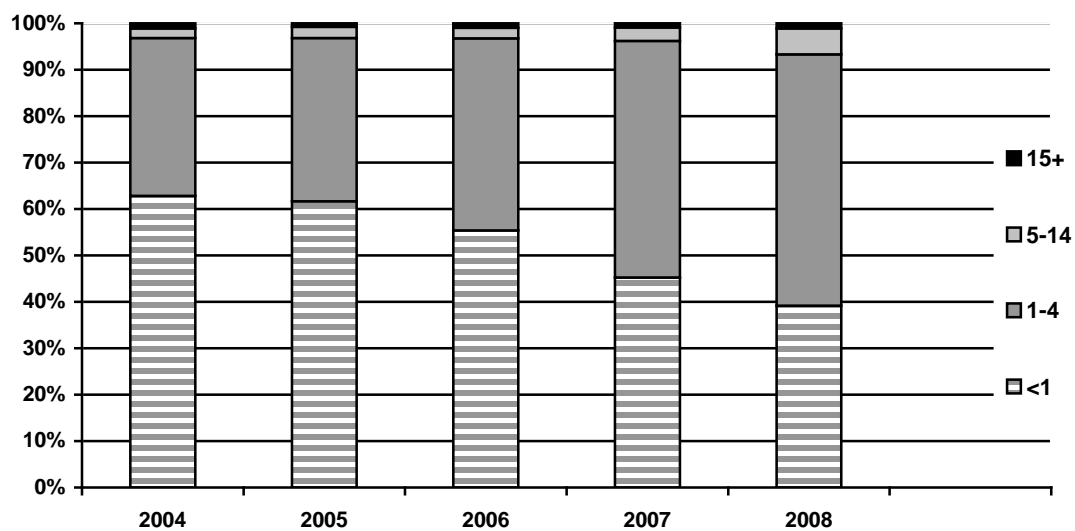


Figure 6. Incidence of visceral leishmaniasis by age groups, rates per 100000 population, Georgia, 2004 - 2008

Table 1.

Certain infectious and parasitic diseases, Georgia, 2006 - 2008*

	2007				2008			
	All ages		In children		All ages		In children	
	Number of cases	Incidence rate per 100000 population	Number of cases	Incidence rate per 100000 population	Number of cases	Incidence rate per 100000 population	Number of cases	Incidence rate per 100000 population
Shigellosis	191	4,4	144	18,8	103	2,3	74	9,8
Other salmonella infections	326	7,4	194	25,3	160	3,6	97	12,9
Other specified bacterial intestinal infections	1185	27,0	826	107,7	957	21,8	663	88,1
Including: Escherichia coli infection	842	19,2	562	73,3	747	17,0	508	67,5
Yersinia enterocolitica infection	1	0,0	1	0,1	0	0,0	0	0,0
Other bacterial foodborne intoxications	2035	46,4	486	63,3	1843	42,0	406	54,0
Including: Botulism	17	0,4	1	0,1	43	1,0	8	1,1
Amoebiasis	15	0,3	1	0,1	4	0,1	0	0,0
Diarrhoea and gastroenteritis of presumed infectious origin	11592	264,2	7 439	969,6	10987	250,6	7282	968,1
Tularemia	31	0,7	8	1,0	5	0,1	1	0,1
Anthrax	42	1,0	0	0,0	62	1,4	2	0,3
Brucellosis (new cases)	169	3,9	14	1,8	168	3,8	7	0,9
Leptospirosis	28	0,6	2	0,3	20	0,5	2	0,3
Other tetanus	7	0,2	0	0,0	4	0,1	0	0,0
Diphtheria	9	0,2	8	1,0	7	0,2	2	0,3
Whooping cough	63	1,4	54	7,0	129	2,9	109	14,5
Scarlet fever	532	12,1	523	68,2	1048	23,9	1032	137,2
Meningococccemy	29	0,7	24	3,1	33	0,8	24	3,2
Meningitis all	173	3,9	112	14,6	171	3,9	77	10,2
Acute flaccid paralysis	--	--	13	1,7	--	--	6	0,8
Rabies	10	0,2	1	0,1	7	0,2	0	0,0
Virus infections of central nervous system	7	0,2	5	0,7	4	0,1	2	0,3
Lyme disease	1	0,02	0	0,0	1	0,02	0	0,0
Influenza	10763	245,3	4 015	523,3	10658	243,1	3781	502,7
Acute upper respiratory infections	212191	4835,3	146 902	19147,8	213622	4873,0	147251	19576,0
Varicella	6100	139,0	5 489	715,5	7550	172,2	6590	876,1
Measles	44	1,0	33	4,3	56	1,3	47	6,2
Rubella	225	5,1	216	28,2	188	4,3	172	22,9
Congenital rubella syndrome	0	0,0	0	0,0	0	0,0	0	0,0
Viral hepatitis	6036	137,5	2088	272,2	4737	108,1	535	71,1
Including: A	1870	42,6	1 060	138,2	888	20,3	511	67,9
B	1060	24,2	19	2,5	1732	39,5	18	2,4
C	1152	26,3	2	0,3	2117	48,3	6	0,8
Other viral hepatitis (E, D and unspecified)	1954	44,5	1 007	131,3	1178	26,9	516	68,6
Cytomegaloviral disease	670	15,3	12	1,6	1054	24,0	0	0,0
Mumps	85	1,9	73	9,5	76	1,7	60	8,0
Infectious mononucleosis	102	2,3	72	9,4	153	3,5	111	14,8
Malaria (new cases)	25	0,6	3	0,4	8	0,2	1	0,1
Leishmaniasis	182	4,1	146	19,0	171	3,9	133	17,7
Echinococcosis	87	2,0	26	3,4	58	1,3	17	2,3
Trichinellosis	48	1,1	8	1,0	18	0,4	1	0,1
Ascariasis	5990	136,5	5 044	657,5	6239	142,3	5145	684,0
Enterobiasis	11063	252,1	9 664	1259,6	12349	281,7	10823	1438,8
Q fever	0	0,0	0	0,0	1	0,02	0	0,0
Arthropod-born viral fevers and viral haemorrhagic fevers	0	0,0	0	0,0	1	0,02	0	0,0

* In 2007-2008 there're not registered following diseases: cholera, typhoid and paratyphoid fevers A, B, C, plague, listeriosis, tetanus neonatorum, relapsing fever, typhus fever.

Table 2.

Certain infectious and parasitic diseases by age groups, Georgia, 2008*

	All ages	Including						
		<1	1-4	5-14	15-19	20-29	30-59	60+
Shigellosis	103	16	46	12	3	9	10	7
Other salmonella infections	160	40	48	9	10	6	30	17
Other specified bacterial intestinal infections	957	295	300	68	24	54	149	67
Including: Escherichia coli infection	747	214	239	55	20	47	120	52
Yersinia enterocolitica infection	0	0	0	0	0	0	0	0
Other bacterial foodborne intoxications	1843	25	154	227	160	347	659	271
Including: Botulism	43	0	1	7	5	4	22	4
Amoebiasis	4	0	0	0	0	0	3	1
Diarrhoea and gastroenteritis of presumed infectious origin	10987	2 065	3 881	1 336	384	785	1 618	918
Tularemia	5	0	0	1	0	0	4	0
Anthrax	62	0	0	2	1	2	48	9
Brucellosis (new cases)	168	0	0	7	31	40	76	14
Leptospirosis	20	0	0	2	1	2	11	4
Other tetanus	4	0	1	0	0	0	2	1
Diphtheria	7	0	0	2	1	3	1	0
Whooping cough	129	57	27	25	6	9	3	2
Scarlet fever	1048	19	406	607	11	3	2	0
Meningococce my	33	8	7	9	2	2	3	2
Meningitis all	171	9	20	48	11	23	49	11
Acute flaccid paralysis	6	0	3	3	0	0	0	0
Rabies	7	0	0	0	1	0	4	2
Virus infections of central nervous system	4	0	1	1	2	0	0	0
Lyme disease	1	0	0	0	1	0	0	0
Influenza	10658	594	1 273	1 914	1 003	1 489	2 683	1 702
Acute upper respiratory infections	213622	31190	54262	61799	11371	14437	24187	16356
Varicella	7550	281	1590	4719	504	326	127	3
Measles	56	10	20	17	5	3	1	0
Rubella	188	33	75	64	7	8	1	0
Viral hepatitis	4737	3	50	482	314	1462	2098	328
Including: A	888	1	49	461	153	144	74	6
B	1732	0	0	18	127	884	623	80
C	2117	2	1	3	34	434	1401	242
Other viral hepatitis (E, D and unspecified)	1178	2	52	462	198	213	194	57
Cytomegaloviral disease	1054	0	0	0	274	498	278	4
Mumps	76	0	23	37	8	4	4	0
Infectious mononucleosis	153	2	38	71	18	18	5	1
Malaria (new cases)	8	0	0	1	0	2	5	0
Leishmaniasis	171	18	90	25	3	10	21	4
Echinococcosis	58	0	7	10	9	10	14	8
Trichinellosis	18	0	0	1	3	3	10	1
Ascariasis	6239	103	1843	3199	455	305	240	94
Enterobiasis	12349	206	4627	5990	654	377	356	139
Q fever	1	0	0	0	0	0	1	0
Arthropod-born viral fevers and viral haemorrhagic fevers	1	0	0	0	0	0	1	0

* In 2008 there're not registered following diseases: cholera, typhoid and paratyphoid fevers A, B, C, plague, listeriosis, tetanus neonatorum, relapsing fever, typhus fever.

Table 3.

Certain infectious and parasitic diseases, incidence rate per 100000 population by the regions, Georgia, 2007 – 2008

	2007				2008			
	All ages		In children		All ages		In children	
	Number of cases	Incidence rate	Number of cases	Incidence rate	Number of cases	Incidence rate	Number of cases	Incidence rate
Abkhazia	1486	--	761	--	1455	--	764	--
Ajara	3820	1006,6	2161	3257,0	3586	940,5	2206	3371,5
Tbilisi	20313	1832,3	7966	4110,2	16576	1497,8	7524	3961,9
Kakheti	1926	478,3	1216	1727,3	2109	525,0	1148	1665,5
Imereti	6187	889,1	3764	3093,9	6835	985,0	4490	3770,9
Samegrelo	4050	863,9	1882	2296,2	3074	657,0	1646	2050,1
Shida Kartli	2458	784,8	1403	2562,1	2693	860,7	1910	3557,5
Kvemo Kartli	4472	887,1	2577	2924,1	5015	993,5	2270	2620,6
Guria	1533	1103,7	1213	4995,9	1636	1178,7	1303	5470,2
Samtskhe – Javakheti	1544	742,3	722	1985,7	970	466,6	549	1538,7
Mtskheta – Mtianeti	2359	1992,4	1330	6425,1	2161	1829,8	1102	5436,6
Racha – Lechkumi and Kvemo Svaneti	278	574,4	126	1489,4	391	816,3	185	2250,6
Departments other than the MOLHSA	403	--	0	--	623	--	23	--
Georgia	50829	1158,3	25121	3274,4	47124	1075,0	25120	3339,5

Table 4.

Certain infectious and parasitic diseases, hospitalization and case fatality, Georgia, 2007 - 2008

	2007			2008		
	Number of discharges	Including hospital deaths	Case fatality rate %	Number of discharges	Including hospital deaths	Case fatality rate %
All cases of Infectious and parasitic diseases	16988	178	1,0	18103	194	1,1
	<i>Including:</i>					
Intestinal infections	8356	11	0,1	9018	16	0,2
Pulmonary tuberculosis	2205	31	1,4	2098	27	1,3
Sepsis	346	48	13,9	373	64	17,2
Viral hepatitis	2524	44	1,7	2039	51	2,5

Table 5.

Certain infectious and parasitic diseases in children under 15 years, hospitalization and case fatality, Georgia, 2007 - 2008

	2007				2008			
	Number of discharges		Case fatality rate %		Number of discharges		Case fatality rate %	
	Total <15	Including 0-1 years	Total <15	Including 0-1 years	Total <15	Including 0-1 years	Total <15	Including 0-1 years
All cases of Infectious and parasitic diseases	9236	2622	0,6	1,2	10213	3365	0,6	1,3
	<i>Including:</i>							
Intestinal infections	6081	1937	0,1	0,2	6943	2528	0,1	0,3
Pulmonary tuberculosis	202	4	0	0	152	6	0	0
Sepsis	155	107	20,6	23,4	140	86	32,9	40,7
Viral hepatitis	696	13	0,6	7,7	328	1	0	0

Table 6.

Certain infectious and parasitic diseases, hospitalization and case fatality rates by the regions, Georgia, 2006 - 2008

	2006		2007		2008	
	Number of discharges	Case fatality rate %	Number of discharges	Case fatality rate %	Number of discharges	Case fatality rate %
Ajara	1942	1.3	1818	1.5	1645	1,6
Tbilisi	7634	1.8	7740	1,3	9037	1,5
Kakheti	451	0.2	322	0,3	384	0,5
Imereti	3125	0.8	3418	1,0	2866	1,0
Samegrelo	709	0.6	681	1,2	920	0,4
Shida Kartli	478	0.2	520	0,6	707	0,1
Kvemo Kartli	1347	0	943	0,1	847	0
Guria	480	0.6	379	0,5	470	0
Samtskhe-Javakheti	863	0.7	757	0	799	0,1
Mtskheta-Mtianeti	15	0	1	0	0	--
Racha-Lechkhumi and Kvemo Svaneti	210	0.5	158	0	216	0
Departments other than the MOLHSA	0	0	251	0	212	0,5
Georgia	17254	1.2	16988	1,0	18103	1,1

Pulmonary and Extra-Pulmonary Tuberculosis

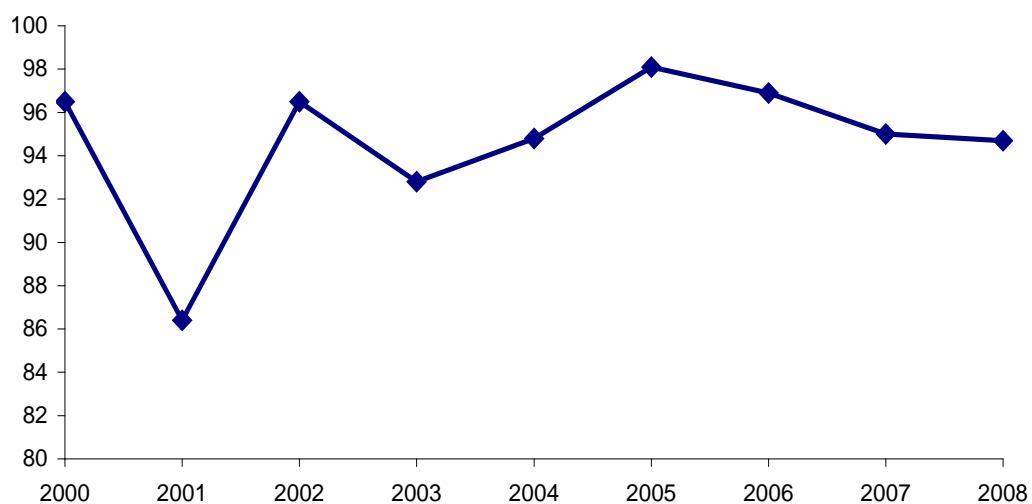


Figure 1. New TB notification rate (per 100,000 population), Georgia, 2000 – 2008

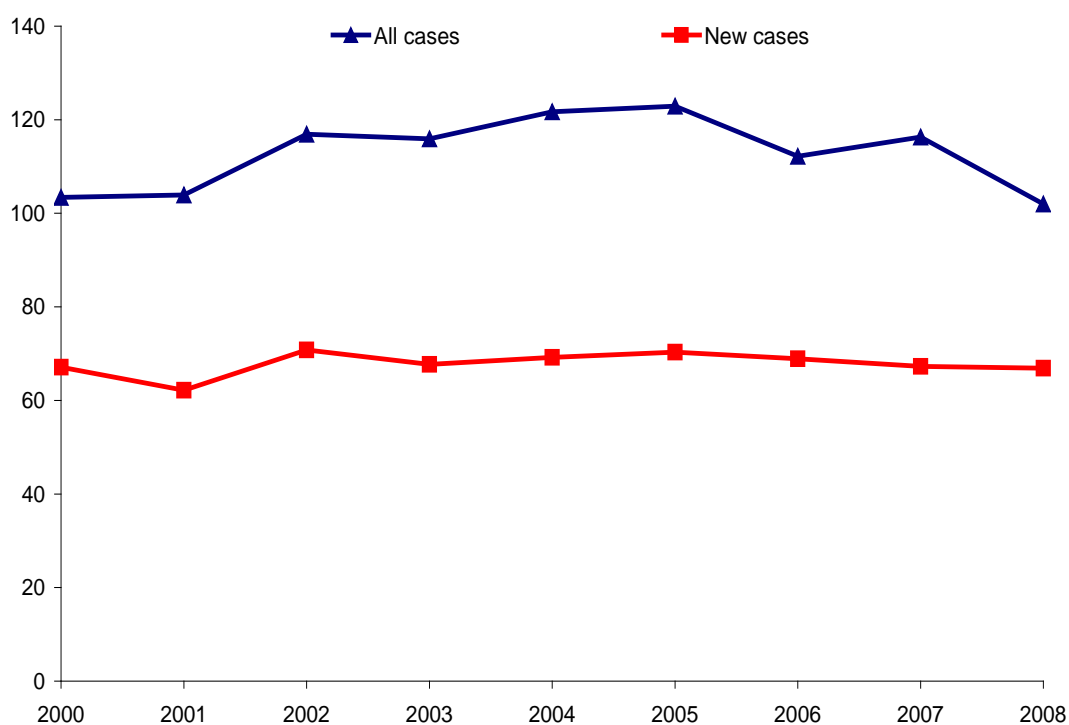


Figure 2. Pulmonary TB notification rates (per 100,000 population), Georgia, 2000 - 2008

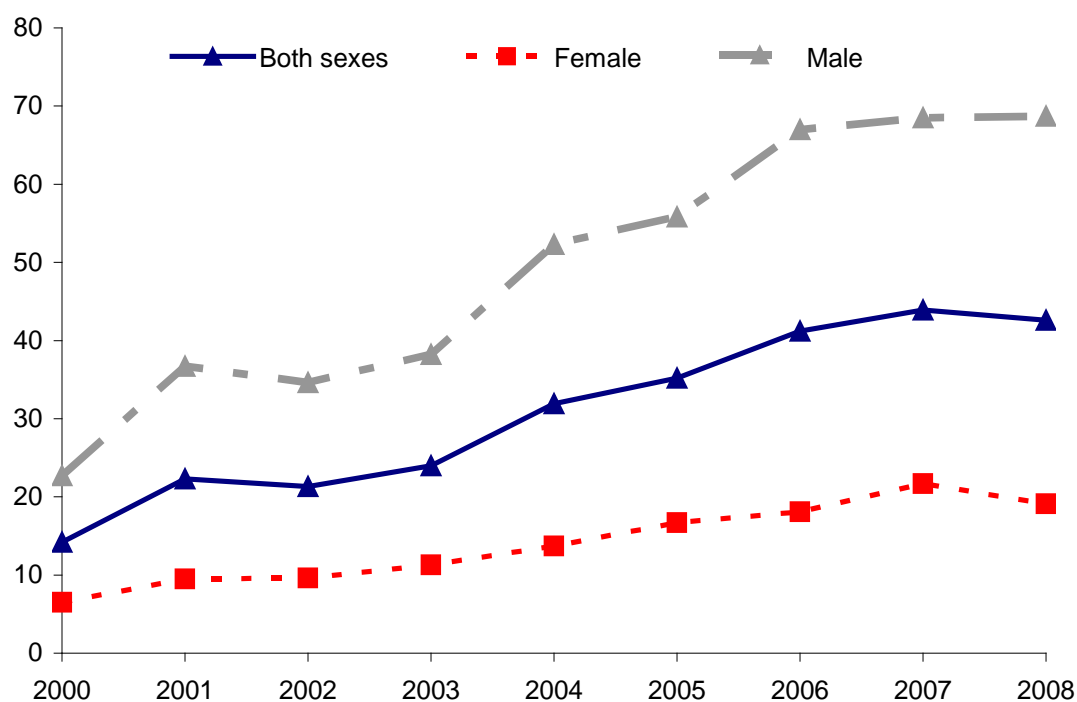


Figure 3. Distribution of AFB+ new TB notification rates by sex, Georgia, 2000 – 2008

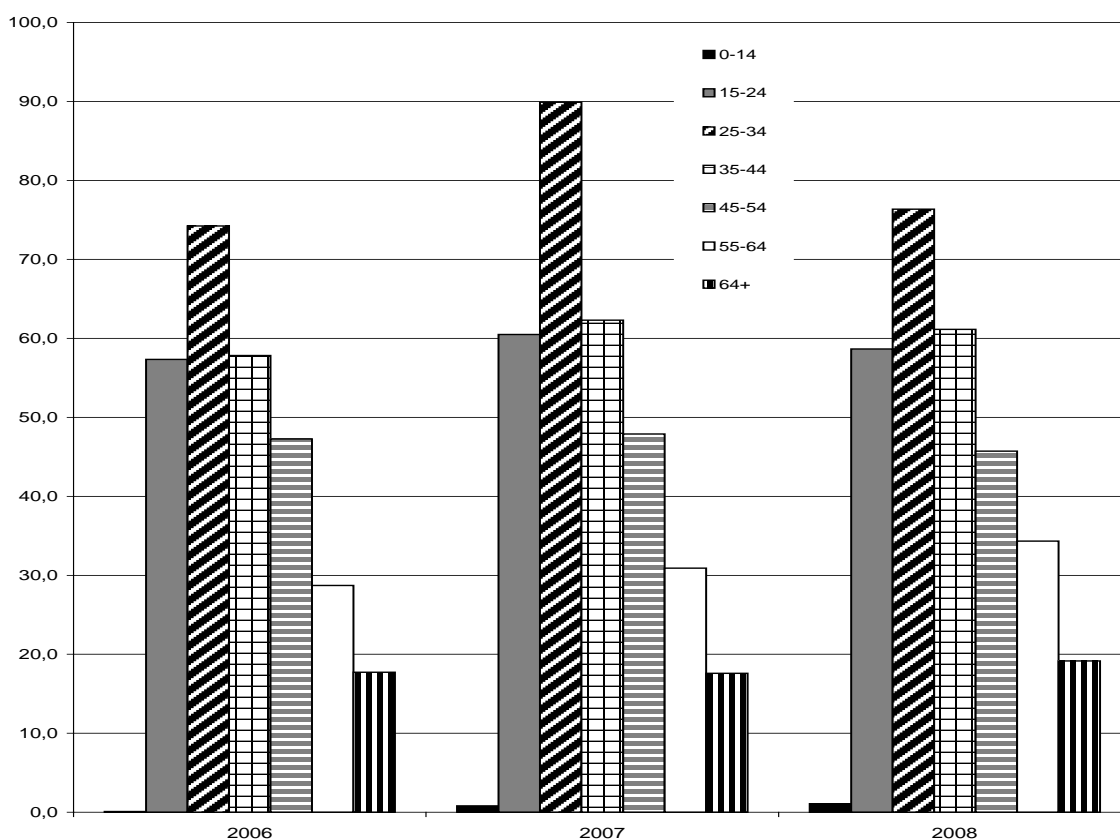


Figure 4. Distribution of AFB+ new TB notification cases by age groups (%), Georgia, 2006 – 2008



Figure 5. The number of TB meningitis in children, Georgia, 2000 – 2008

Table 1.

Distribution of notified TB cases by the regions, Georgia, 2007 – 2008

	2007				2008			
	All notified cases		New cases		All notified cases		New cases	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Ajara	772	203,4	538	141,8	687	180,2	492	129,0
Tbilisi	1688	152,3	1182	106,6	1820	164,5	1372	124,0
Kakheti	392	97,3	273	67,8	281	70,0	220	54,8
Imereti	623	89,5	413	59,4	574	82,7	400	57,6
Samegrelo	828	176,6	447	95,4	607	129,7	418	89,3
Shida Kartli	344	109,8	215	68,7	283	90,4	194	62,0
Kvemo Kartli	577	114,5	346	68,6	518	102,6	350	69,3
Guria	152	109,4	106	76,3	142	102,3	115	82,9
Samtskhe – Javakheti	191	91,8	116	55,8	146	70,2	97	46,7
Mtskheta – Mtianeti	150	126,7	109	92,1	106	89,8	86	72,8
Racha – Lechkhumi and Kvemo Svaneti	19	39,3	9	18,6	20	41,8	14	29,2
Departments other than the MOLHSA	714	--	416	--	647	--	395	--
Georgia	6450	147,0	4170	95,0	5831	133,0	4153	94,7

Table 2.

Distribution of notified Pulmonary TB cases by the regions, Georgia, 2007 – 2008

	2007				2008			
	All notified cases		New cases		All notified cases		New cases	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Ajara	565	148,9	336	88,5	485	127,2	300	78,7
Tbilisi	1325	119,5	855	77,1	1331	120,3	936	84,6
Kakheti	300	74,5	189	46,9	223	55,5	165	41,1
Imereti	489	70,3	292	42,0	455	65,6	290	41,8
Samegrelo	672	143,3	305	65,1	467	99,8	289	61,8
Shida Kartli	263	84,0	143	45,7	235	75,1	150	47,9
Kvemo Kartli	448	88,9	229	45,4	369	73,1	226	44,8
Guria	124	89,3	79	56,9	117	84,3	90	64,8
Samtskhe – Javakheti	150	72,1	86	41,3	114	54,8	70	33,7
Mtskheta – Mtianeti	118	99,7	81	68,4	91	77,1	72	61,0
Racha – Lechkhumi and Kvemo Svaneti	16	33,1	6	12,4	16	33,4	10	20,9
Departments other than the MOLHSA	634	--	351	--	568	--	333	--
Georgia	5104	116,3	2952	67,3	4471	102,0	2931	66,9

Table 3.

Distribution of new Pulmonary TB cases confirmed by the sputum smear microscopy, Georgia, 2007 – 2008

	2007			2008		
	AFB+	AFB-	Without smear microscopy	AFB+	AFB-	Without smear microscopy
Ajara	180	140	16	177	108	15
Tbilisi	561	281	13	546	367	23
Kakheti	131	58	0	110	53	2
Imereti	185	104	3	209	76	5
Samegrelo	196	100	9	171	113	5
Shida Kartli	96	45	2	96	51	3
Kvemo Kartli	162	62	5	148	73	5
Guria	42	37	0	45	45	0
Samtskhe – Javakheti	17	69	0	29	40	1
Mtskheta – Mtianeti	56	24	1	49	23	0
Racha – Lechkhumi and Kvemo Svaneti	2	4	0	8	2	0
Departments other than the MOLHSA	298	49	4	280	50	3
Georgia	1926	973	53	1868	1001	62

Table 4.

Distribution of notified new Extra-Pulmonary TB cases by the regions, Georgia, 2007 – 2008

	2007			2008		
	Number of new cases	Rate per 100000 population	Percent out of all new TB cases (pulmonary + extra pulmonary)	Number of new cases	Rate per 100000 population	Percent out of all new TB cases (pulmonary + extra pulmonary)
Ajara	202	53,2	37,5	192	50,4	39,0
Tbilisi	327	29,5	27,7	436	39,4	31,8
Kakheti	84	20,9	30,8	55	13,7	25,0
Imereti	121	17,4	29,3	110	15,9	27,5
Samegrelo	142	30,3	31,8	129	27,6	30,9
Shida Kartli	72	23,0	33,5	44	14,1	22,7
Kvemo Kartli	117	23,2	33,8	124	24,6	35,4
Guria	27	19,4	25,5	25	18,0	21,7
Samtskhe – Javakheti	30	14,4	25,9	27	13,0	27,8
Mtskheta – Mtianeti	28	23,6	25,7	14	11,9	16,3
Racha – Lechkhumi and Kvemo Svaneti	3	6,2	33,3	4	8,4	28,6
Departments other than the MOLHSA	65	--	15,6	62	--	15,7
Georgia	1218	27,8	29,2	1222	27,9	29,4

Table 5.

Clinical manifestation (forms) of Extra-Pulmonary TB, Georgia, 2003 - 2008

	2003	2004	2005	2006	2007	2008
Total number of new cases	1196	1188	1323	1360	1346	1360
<i>Including:</i>						
TB Meningitis	60	26	44	28	24	44
TB of Bones and Joints	75	128	131	138	149	151
TB of Urogenital system	63	81	66	96	115	91
TB Pleurisy	535	534	649	652	649	616
TB of Lymph Nodes	414	364	397	189	330	320
TB of Other Organs	49	55	36	257	79	138

Table 6.

Treatment outcomes of AFB+ TB cases registered 12 months ago, Georgia, 2005 - 2008

	2005	2006	2007	2008
Registered number	1300	1606	1580	1860
	<i>% from all cases:</i>			
Cured	59,5	49,7	63,9	63,2
Treatment completed	11,2	13,0	11,6	13,9
Failed	5,5	6,0	6,1	6,2
Died	2,8	2,6	3,0	2,5
Default	14,6	11,6	8,9	8,8
Transferred	5,7	16,3	5,5	3,1
Not Evaluated	0,7	0,7	1,0	2,4

Sexually Transmitted Infections

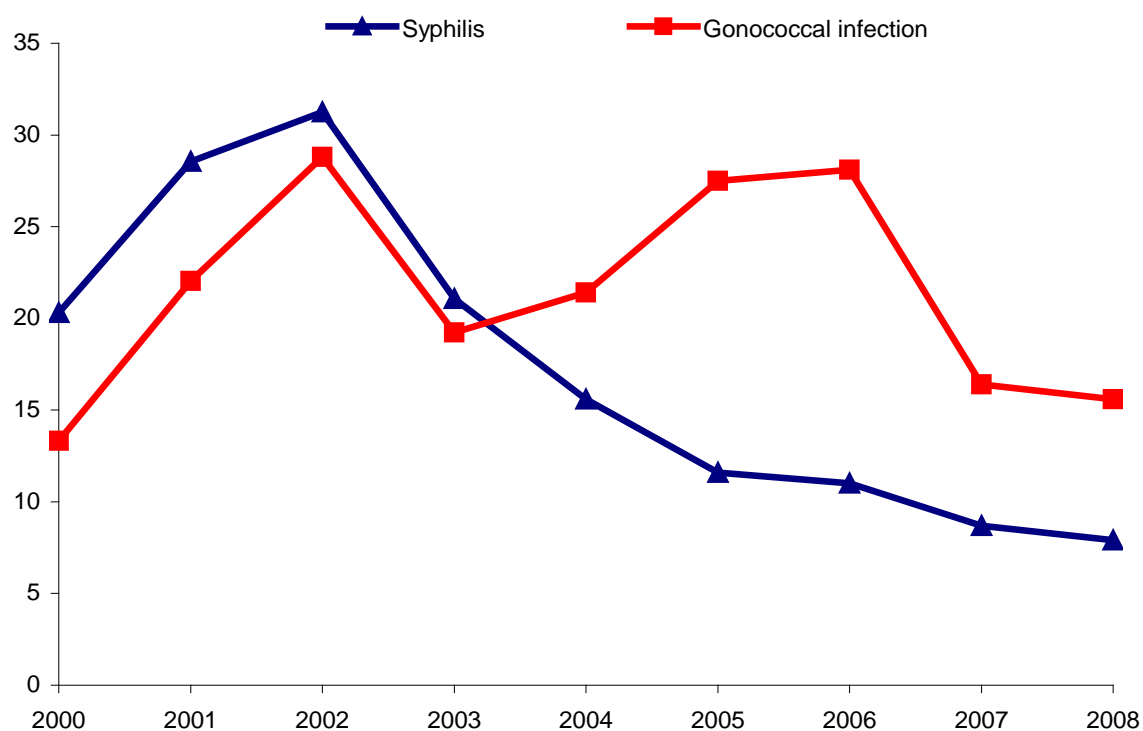


Figure 1. Incidence rates of syphilis and gonococcal infection, Georgia, 2000 – 2008

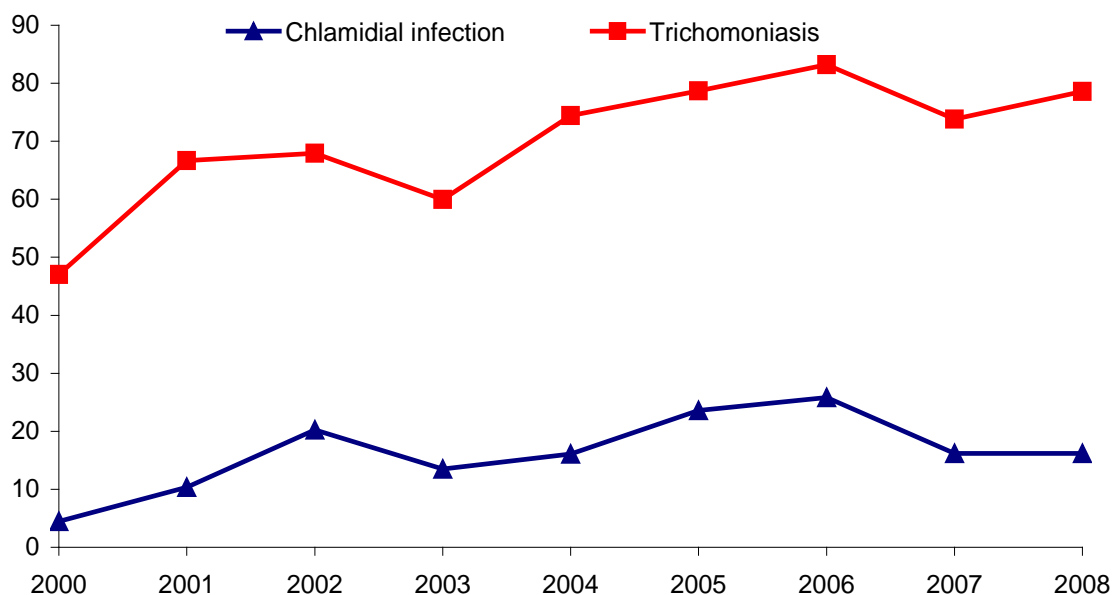


Figure 2. Incidence rates of chlamydial infection and trichomoniasis, Georgia, 2000 – 2008

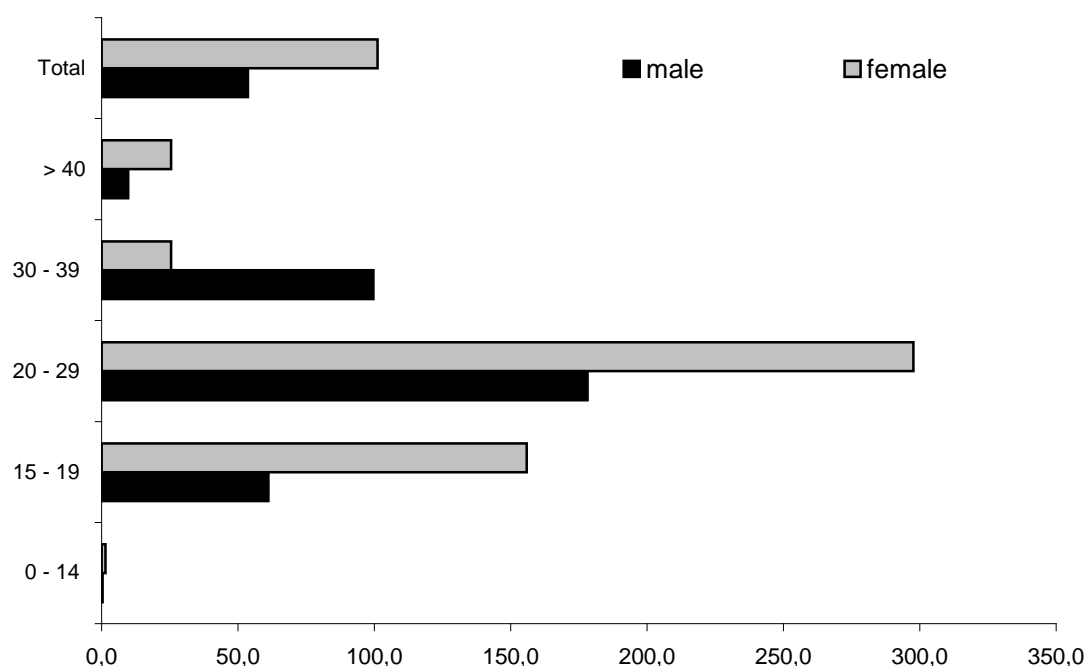


Figure 3. Trichomoniasis incidence rates according to the sex and age groups, Georgia, 2008

Table 1.
Sexually transmitted infections incidence rates by the regions, Georgia, 2008

	Syphilis		Gonococcal infection	
	Number of cases	Incidence	Number of cases	Incidence
Tbilisi	186	16.8	319	28.8
Ajara	47	12.3	64	16.8
Abkhazia	0	0	0	0
Guria	6	4.3	0	0
Samegrelo and Zemo Svaneti	24	5.1	50	10.7
Imereti	40	5.8	38	5.5
Kakheti	4	1.0	94	23.4
Mtskheta-Mtianeti	0	0	2	1.7
Samtskhe-Javakheti	0	0	23	11.1
Kvemo Kartli	26	5.2	73	14.5
Shida Kartli	13	4.2	6	1.9
Racha-Lechkhumi and Kvemo Svaneti	0	0	0	0
Departments other than the MOLHSA	0	0	15	0
Georgia	346	7.9	684	15.6

Table 2.
Sexually transmitted infections incidence rates according to the certain diseases, Georgia, 2006 – 2008

	2006		2007		2008	
	Number of cases	Incidence	Number of cases	Incidence	Number of cases	Incidence
Syphilis	485	11.0	381	8.7	346	7.9
Gonococcal infection	1235	28.1	720	16.4	684	15.6
Chlamydial infection	1135	25.8	712	16.2	709	16.2
Trichomoniasis	3659	83.2	3241	73.9	3946	78.6

Table 3.

Sexually transmitted infections, distribution according to the sex and age groups, Georgia, 2008

	Sex	Total		Age groups				
		Number of cases	Incidence	0 - 14 Number of cases	15 - 19 Number of cases	20 - 29 Number of cases	30 - 39 Number of cases	40 + Number of cases
Syphilis, all types	M	188	9.0	0	0.0	17	9.3	60
	F	158	6.9	0	0.0	7	3.9	60
Gonococcal infection	M	505	24.3	0	0.0	93	50.8	251
	F	179	7.8	0	0.0	25	14.1	116
Other infections with a predominantly sexual mode of transmission	M	121	5.8	0	0.0	30	16.4	55
	F	371	16.1	4	1.1	25	14.1	188
Chlamydial infection	M	310	14.9	0	0.0	55	30.0	120
	F	399	17.3	1	0.3	44	24.8	240
Trichomoniasis	M	1114	53.6	1	0.3	112	61.1	621
	F	2332	101.2	5	1.4	277	155.9	1024

Table 4.

Mycoses, Georgia, 2006 - 2008

	2006		2007		2008	
	Number of cases	Incidence	Number of cases	incidence	Number of cases	incidence
Total	8002	181.9	6455	147.1	8050	183.6
			<i>Including:</i>			
Trichophytosis	454	10.3	339	7.7	520	11.9
Microsporia	104	2.4	180	4.1	131	3.0
Candidiasis	4527	102.9	3632	82.8	5068	115.6
Other mycoses	2845	64.7	2304	52.5	2331	53.2

Table 5.

Acariasis, Georgia, 2003 - 2008

	Number of cases	Incidence
2003	1705	39.5
2004	2139	48.9
2005	2399	54.9
2006	2056	46.7
2007	1842	42.0
2008	1957	44.6

HIV/AIDS

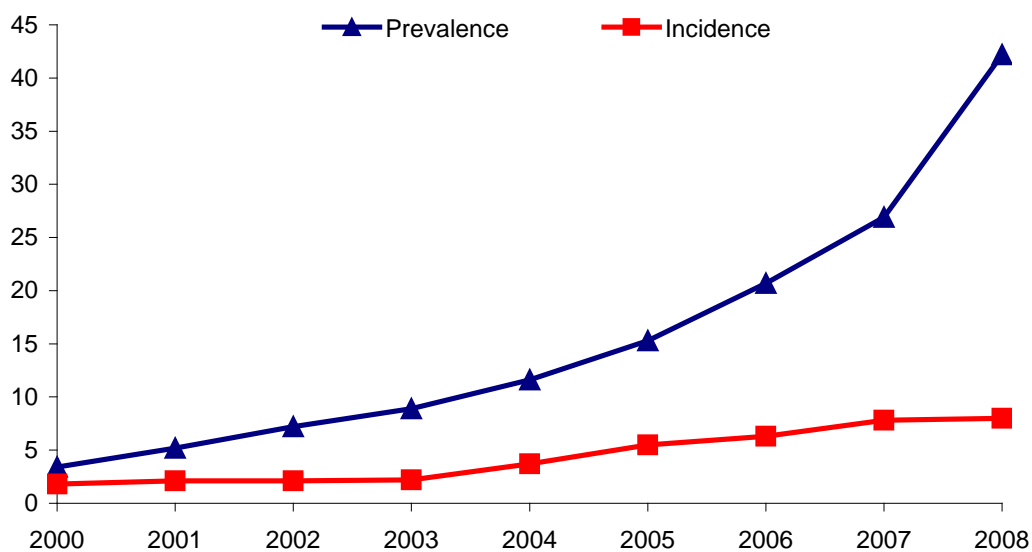


Figure 1. HIV/AIDS morbidity, Georgia, 2000 – 2008

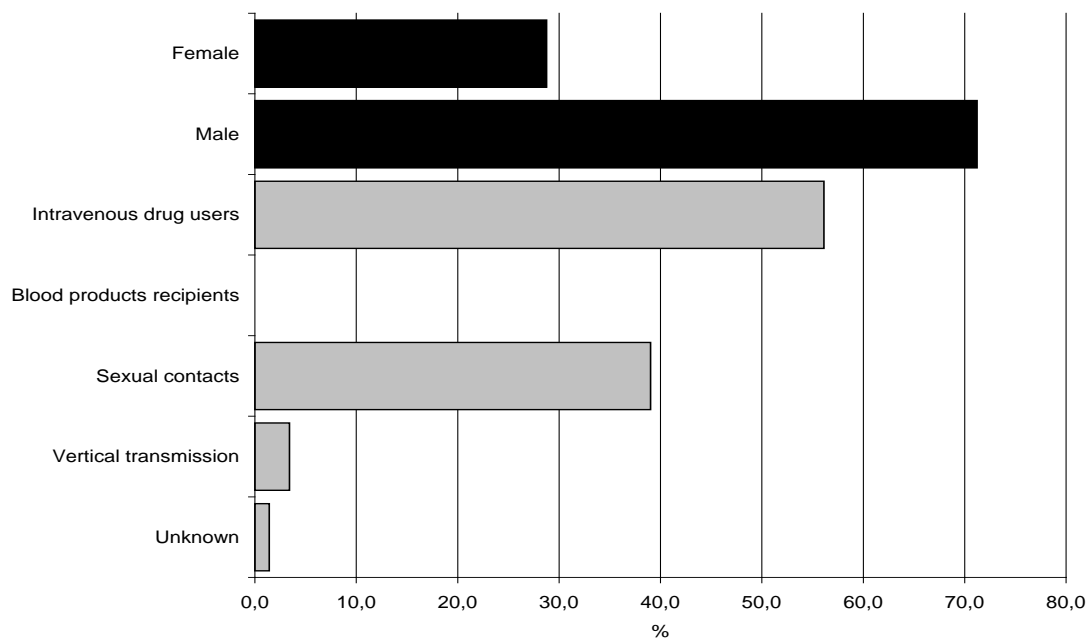


Figure 2. HIV/AIDS new cases distribution by sex and ways of the infection transmission (in percent), Georgia, 2008

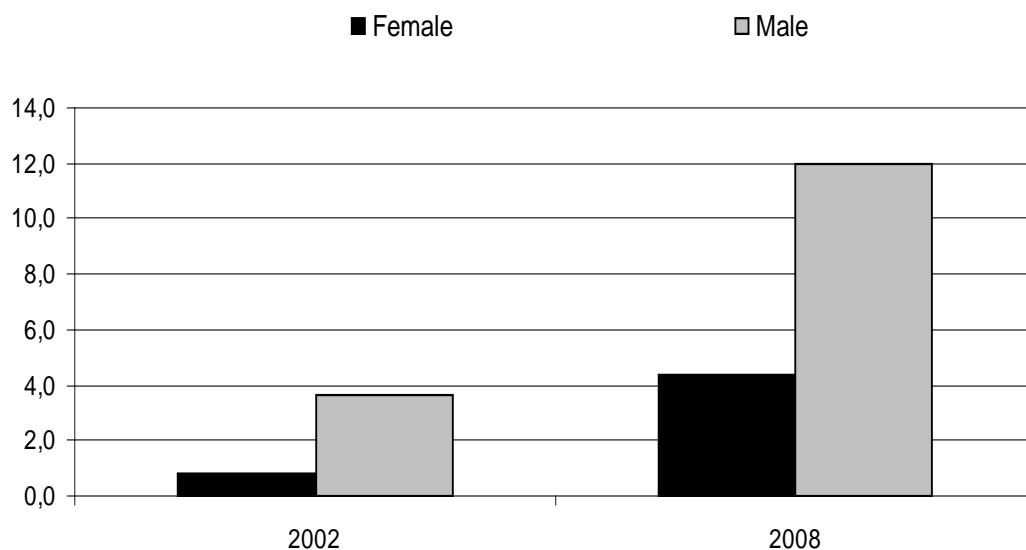


Figure 3. HIV/AIDS incidence rates by sex, Georgia, 2002 and 2008

Table 1.

HIV/AIDS morbidity rates, Georgia, 2000 – 2008

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total number of cases registered by the end of the year	153	232	314	387	508	671	912	1179	1851
Prevalence rate	3.4	5.3	7.2	8.9	11.6	15.3	20.7	26.9	42.2
Including new cases	79	93	93	94	163	242	276	344	351
Incidence rate	1.8	2.1	2.1	2.2	3.7	5.5	6.3	7.8	8.0

Table 2.

HIV/AIDS new cases distribution by sex and ways of the infection transmission, Georgia, 2008

Ways of transmission	Sex	Total number of cases registered by the beginning of the year			Number of new cases			Total number of cases registered by the end of the year			Number of death in the course of the reporting year
		Total	AIDS	HIV	Total	AIDS	HIV	Total	AIDS	HIV	
All cases		1179	415	764	351	175	176	1851	1006	845	87
		<i>Including:</i>									
Intravenous drug users	F	5	2	3	0	0	0	7	4	3	1
	M	671	251	420	197	107	90	1094	620	474	56
Blood products recipients	F	4	3	1	0	0	0	5	3	2	0
	M	4	4	0	0	0	0	6	6	0	0
Heterosexual contacts	F	291	79	212	91	31	60	413	179	234	13
	M	137	48	89	40	20	20	207	112	95	11*
Homosexual contacts	M	30	10	20	6	3	3	50	32	18	
Vertical transmission	F	9	6	3	5	2	3	17	13	4	2
	M	15	7	8	7	7	0	28	22	6	3
Unknown	F	10	5	8	5	5	0	17	12	57	1
	M	3	0	3	0	0	0	7	3	4	0
		<i>Of which:</i>									
Foreigners											47
Died											433
Total number of registered cases											1418

* Including cases, as a result of hetero- and homosexual contacts in male.

Table 3.

HIV/AIDS new cases distribution by the regions, Georgia, 2002 - 2008

	2002	2003	2004	2005	2006	2007	2008
Abkhazia	1	5	5	7	9	17	37
Ajara	12	14	27	27	42	55	34
Tbilisi	49	27	58	80	69	94	120
Kakheti	1	3	4	9	17	14	11
Imereti	9	14	17	32	45	61	44
Samegrelo and Zemo Svaneti	10	22	23	46	37	53	63
Shida Kartli	3	1	2	5	8	13	13
Kvemo Kartli	2	3	1	8	18	17	15
Guria	4	1	2	11	10	5	4
Samtskhe-Javakheti	0	0	11	3	6	2	0
Mtskheta-Mtianeti	0	0	2	5	1	3	4
Racha-Lechkhumi and Kvemo Svaneti	0	0	1	0	1	1	0
Georgia	93	94	163	242	276	344	351

Neoplasms

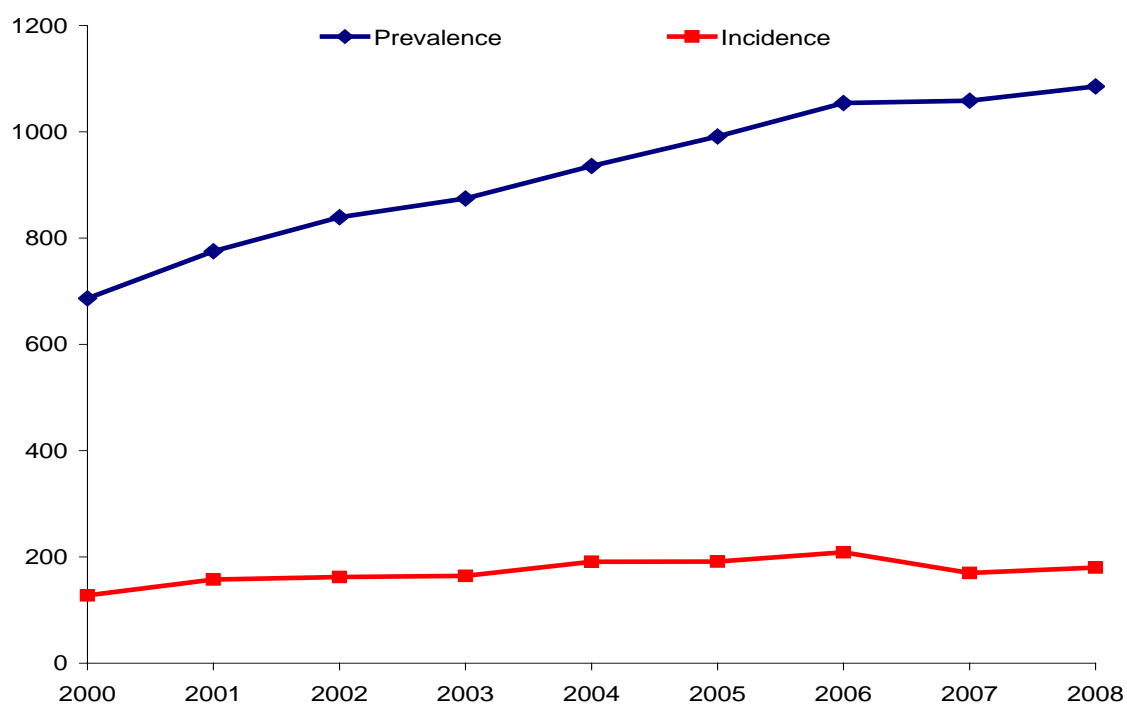


Figure 1. Neoplasms morbidity, rates per 100000 population, Georgia, 2000 – 2008

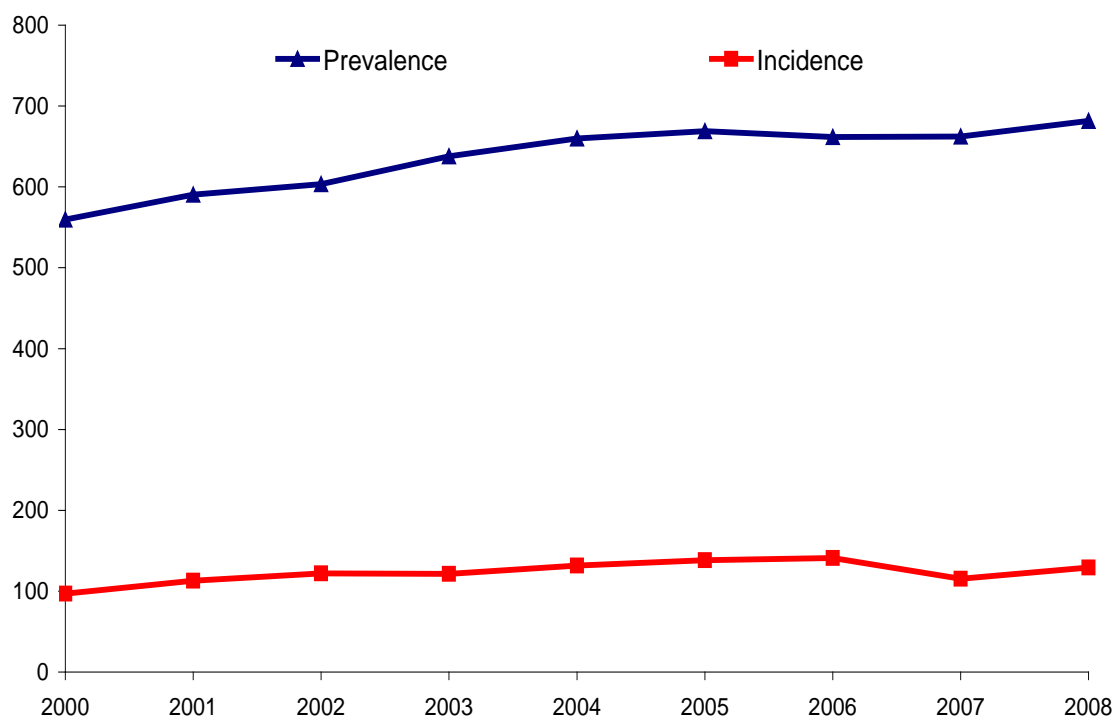


Figure 2. Malignant neoplasms morbidity, rates per 100000 population, Georgia, 2000 – 2008*

* Prevalence –rate of the number of patients enrolled by the end of the year per 100000 population

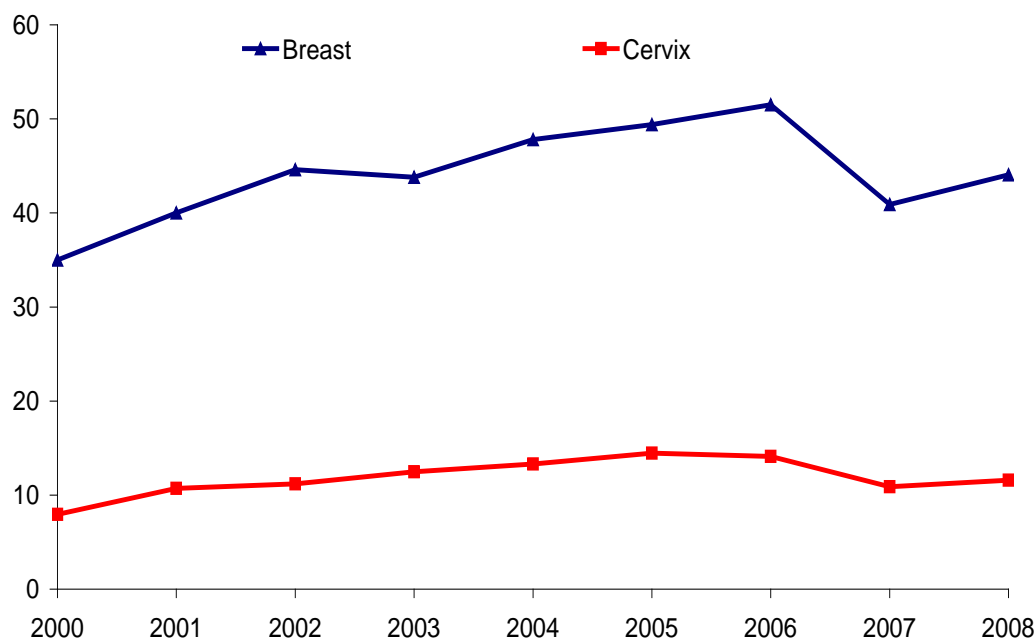


Figure 3. Malignant neoplasms of breast and cervix uteri, incidence rate per 100000 women, Georgia, 2000 – 2008

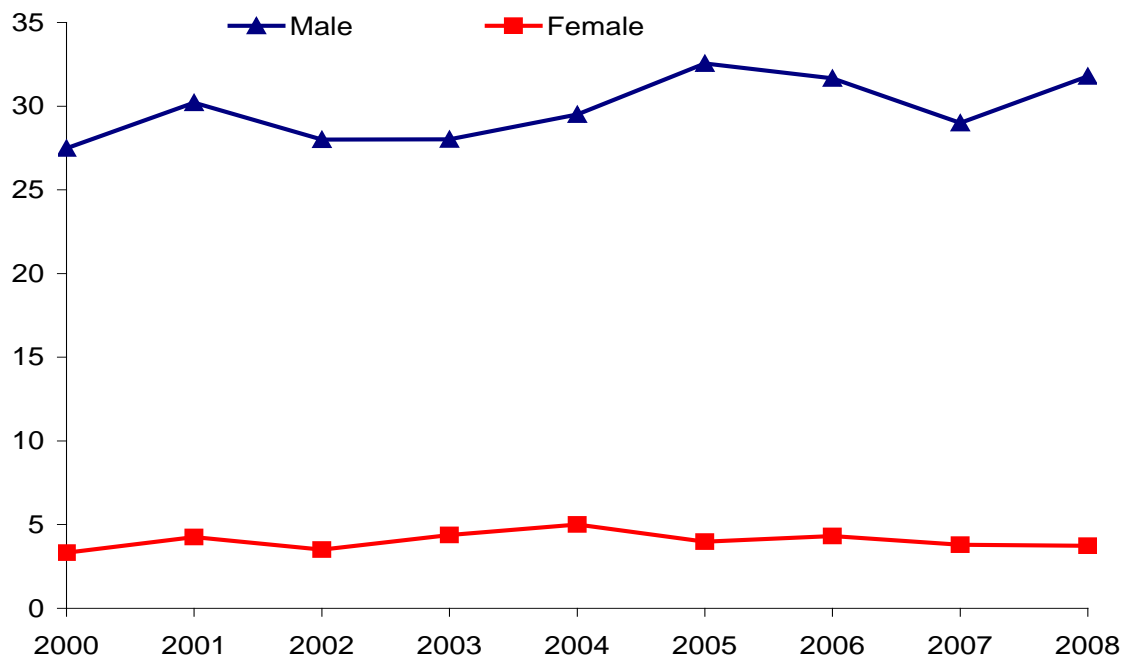


Figure 4. Malignant neoplasms of trachea, bronchus and lung, incidence rate per 100000 population, Georgia, 2000 – 2008

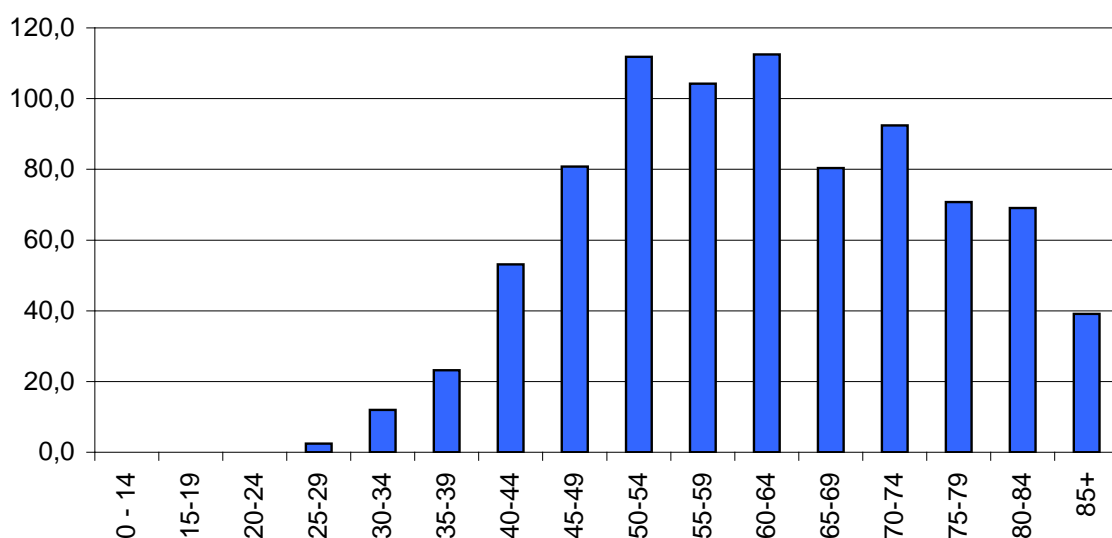


Figure 5. Age specific incidence of the breast cancer, rates per 100000 women, Georgia, 2008

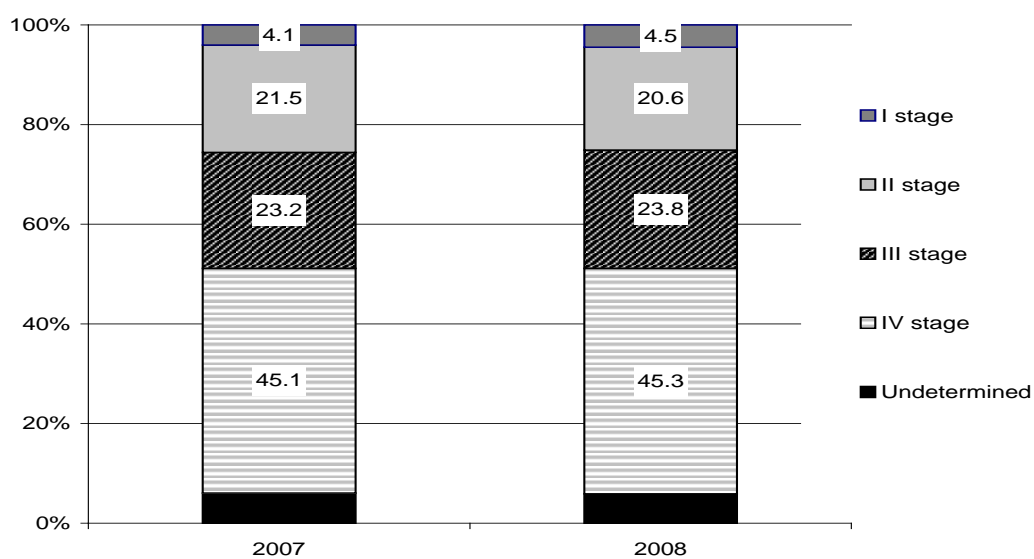


Figure 6. Distribution of new cases of malignant neoplasms by stages of the disease (%), Georgia, 2007 - 2008

Table 1.

Neoplasms morbidity, Georgia, 2001 – 2008

	2001	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases	34124	36686	37852	40902	43338	46365	46455	47580
<i>Prevalence rate per 100000 population</i>	775,3	839,2	874,4	935,6	991,4	1054,2	1058,6	1085,4
Total number of new cases	6927	7092	7117	8347	8364	9186	7445	7886
<i>Incidence rate per 100000 population</i>	157,4	162,2	164,4	190,9	191,3	208,9	169,7	179,9

Table 2.

Malignant neoplasms incidence according to site of tumor and sex of patient, Georgia, 2007 – 2008

Site of neoplasm	2007		2008		
	Total number of cases	Incidence	Total number of cases	Incidence	
All sites	Both sexes	5066	115,4	5662	129,2
	Male	2481	119,3	2781	133,7
	Female	2578	111,6	2881	124,9
Esophagus	Male	21	1,0	23	1,1
	Female	12	0,5	9	0,4
Stomach	Male	240	11,5	267	12,8
	Female	135	5,8	149	6,5
Rectum	Male	129	6,2	137	6,6
	Female	102	4,4	111	4,8
Larynx	Male	155	7,5	186	8,9
	Female	15	0,6	11	0,5
Trachea, bronchus, lung	Male	603	29,0	661	31,8
	Female	87	3,8	86	3,7
Breast	Female	945	40,9	1006	43,7
Cervix uteri	Female	252	10,9	267	11,6
Prostate	Male	186	8,9	205	9,9
Lymphoid, haematopoietic and related tissue	Male	119	5,7	130	6,3
	Female	87	3,8	115	5,0

Table 3.

Malignant neoplasms morbidity by the regions, Georgia, 2008

	Number of new cases	Incidence rate per 100000 population	Number of cases registered by the end of the year	Prevalence rate per 100000 population
Abkhazia	76	--	254	--
Ajara	610	160,0	3516	922,1
Tbilisi	1303	117,7	6475	585,1
Kakheti	503	125,2	3962	986,3
Imereti	966	139,2	4726	681,1
Samegrelo and Zemo Svaneti	604	129,1	2373	507,2
Shida Kartli	438	140,0	3740	1195,3
Kvemo Kartli	460	91,1	1982	392,6
Guria	229	165,0	922	664,3
Samtskhe-Javakheti	222	106,8	996	479,1
Mtskheta-Mtianeti	148	125,3	687	581,7
Racha-Lechkhumi and Kvemo Svaneti	103	215,0	257	536,5
Georgia	5662	129,2	29890	681,8

Table 4

Distribution of new cases of malignant neoplasms by site of tumor and patients' sex, Georgia, 2007 - 2008

Site of neoplasm	2007				2008			
	Female		Male		Female		Male	
	Number of cases	% from the total number	Number of cases	% from the total number	Number of cases	% from the total number	Number of cases	% from the total number
All sites	2580	100	2486	100	2881	100	2781	100
	<i>Including:</i>							
Lip, oral cavity and pharynx	30	1,2	88	3,5	40	1,4	117	4,2
Digestive system	440	17,1	669	26,9	530	18,4	742	26,7
Respiratory and intrathoracic organs	109	4,2	774	31,1	106	3,7	862	31,0
Bone and articular cartilage	18	0,7	41	1,6	29	1,0	51	1,8
Melanoma and other malignant neoplasms of skin	111	4,3	118	4,7	108	3,7	120	4,3
Mesothelial and soft tissue	41	1,6	27	1,1	35	1,2	32	1,2
Breast	945	36,6	7	0,3	1006	34,9	9	0,3
Genital organs	612	23,7	248	10,0	685	23,8	291	10,5
Urinary tract	55	2,1	224	9,0	64	2,2	239	8,6
Eye, brain and other parts of central nervous system	47	1,8	75	3,0	54	1,9	80	2,9
Thyroid and other endocrine glands	22	0,9	11	0,4	35	1,2	13	0,5
Lymphoid, haematopoietic and related tissue	87	3,4	119	4,8	115	4,0	95	3,4
Ill defined, secondary and unspecified sites	61	2,4	80	3,2	70	2,4	130	4,7
Malignant neoplasms of independent (primary) multiple sites	2	0,1	5	0,2	4	0,1	0	0,0

Table 5.

Distribution of the new cases of the breast cancer by stages (%), Georgia, 2006 – 2008

	I stage	II stage	III stage	IV stage	Undetermined
2006	7.8	42.0	23.5	25.8	1.0
2007	5.7	39.6	25.2	26.8	4.0
2008	7,4	39,7	25,4	24,0	3,4

Table 6.

Distribution of the new cases of the cervix uteri cancer by stages (%), Georgia, 2006 – 2008

	I stage	II stage	III stage	IV stage	Undetermined
2006	11.0	38.8	23.2	24.8	2.2
2007	11.5	34.5	27.3	24.2	2.5
2008	12.4	36.0	22.1	25.1	4.5

Table 7.

Essential data on the cervix uteri cancer, Georgia, 2001 – 2008

	2001	2002	2003	2004	2005	2006	2007	2008
Number of new cases	249	259	285	308	334	327	252	267
<i>Incidence rate per 100000 females</i>	10.7	11.2	12.5	13.3	14.5	14.1	10.9	11.6
Number of cases enrolled by the end of the year	2280	2193	2306	2388	2374	2378	2372	2398
<i>Prevalence rate per 100000 females</i>	98.4	96.2	100.7	104.6	103.2	102.7	102.7	104.1
Number of deaths	173	223	197	201	249	215	197	203
<i>Mortality rate per 100000 females</i>	7.5	9.7	8.5	8.8	10.8	9.3	8.5	8.8
<i>Per cent of deaths from the total number of cases registered during the year</i>	7.0	9.1	7.8	7.7	9.2	8.0	7.5	7.7

Table 8.

Patients with malignant neoplasm died in the first year after the setting of the diagnosis, Georgia, 2002 - 2008

	Total number of new cases	Including number of deaths	% from the total number of new cases
2002	5332	2209	41,4
2003	5251	2125	40,5
2004	5726	2177	38,0
2005	6045	2068	34,2
2006	6200	2306	37,2
2007	5066	2022	39,9
2008	5662	2007	35,4

Table 9.

Distribution of the patients with enrollment 5 and more years by the site of the tumor, Georgia, 2007 - 2008

Site of neoplasm	2007			2008		
	Total number of registered cases by the end of the year	Number of patients with enrollment 5+ years	Percentage from the total number of registered cases	Total number of registered cases by the end of the year	Number of patients with enrollment 5+ years	Percentage from the total number of registered cases
All sites	29078	13119	45,1	29890	12641	42,3
	<i>Including:</i>					
Lip, oral cavity and pharynx	1151	599	52,0	1144	554	48,4
Digestive system	2891	871	30,1	3109	833	26,8
Respiratory and intrathoracic organs	2670	1067	40,0	2720	998	36,7
Bone and articular cartilage	352	156	44,3	367	138	37,6
Melanoma and other malignant neoplasms of skin	3241	1805	55,7	3214	1611	50,1
Mesothelial and soft tissue	365	100	27,4	364	116	31,9
Breast	8448	4486	53,1	8655	4395	50,8
Females genital organs	5206	2319	44,5	5316	2291	43,1
Males genital organs	1077	423	39,3	1131	434	38,4
Urinary tract	1173	386	32,9	1222	382	31,3
Eye, brain and other parts of central nervous system	429	98	22,8	468	86	18,4
Thyroid and other endocrine glands	336	128	38,1	355	132	37,2
Lymphoid, haematopoietic and related tissue	1511	646	42,8	1566	642	41,0
Lip, oral cavity and pharynx	215	35	16,3	244	29	11,9
Malignant neoplasms of independent (primary) multiple sites	13	0	0,0	15	0	0,0

Table 10.

Types of treatment of malignant neoplasms, Georgia, 2006 - 2008

	2006	2007	2008
Number of the registered patients with II clinical group	3020	2253	2589
The course of treatment completed	2436	1684	2005
<i>Including the following methods of the treatment:</i>			
Surgical	818	571	776
Radiation	226	148	270
Chemical	240	193	252
Combined	1025	684	617

Table 11.

Neoplasms, hospitalization level and case fatality rates by the regions, Georgia, 2007 - 2008

	2007			2008		
	Number of hospital discharges	Including hospital deaths	Case fatality rate (%)	Number of hospital discharges	Including hospital deaths	Case fatality rate (%)
Abkhazia	287	0	0,0	158	0	0.0
Ajara	629	14	2,2	998	18	1,8
Tbilisi	8860	221	2,5	9960	206	2,1
Kakheti	49	3	6,1	54	3	5,6
Imereti	1198	14	1,2	1589	18	1,1
Samegrelo and Zemo Svaneti	13	2	15,4	26	0	0.0
Shida Kartli	31	1	3,2	38	2	5.2
Kvemo Kartli	62	7	11,3	103	8	7.8
Guria	14	3	21,4	11	1	9.1
Samtskhe-Javakheti	16	0	0,0	6	0	0.0
Mtskheta-Mtianeti	0	0	0,0	0	0	0,0
Racha-Lechkhumi and Kvemo Svaneti	0	0	0,0	0	0	0,0
Departments other than the MoLHSA	19	0	0,0	90	2	2.2
Georgia	11178	265	2,4	13033	258	2,0

Table 12.

Neoplasms, numbers of hospital discharges and case fatality rates in children under 15 years of age, according to the regions, Georgia, 2007 - 2008**

	2007			2008		
	Number of hospital discharges	Including hospital deaths	Case fatality rate (%)	Number of hospital discharges	Including hospital deaths	Case fatality rate (%)
Ajara	16	0	0	31	1	3,2
Tbilisi	779	13	1,9	743	3	0,4
Kakheti	1	0	0	0	0	0,0
Imereti	2	0	0	1	0	0,0
Samegrelo	1	0	0	0	0	0,0
Georgia	799	13	1,8	775	4	0.5

** There is no child admissions registered in other regions

Diseases of the Blood and Blood-forming Organs

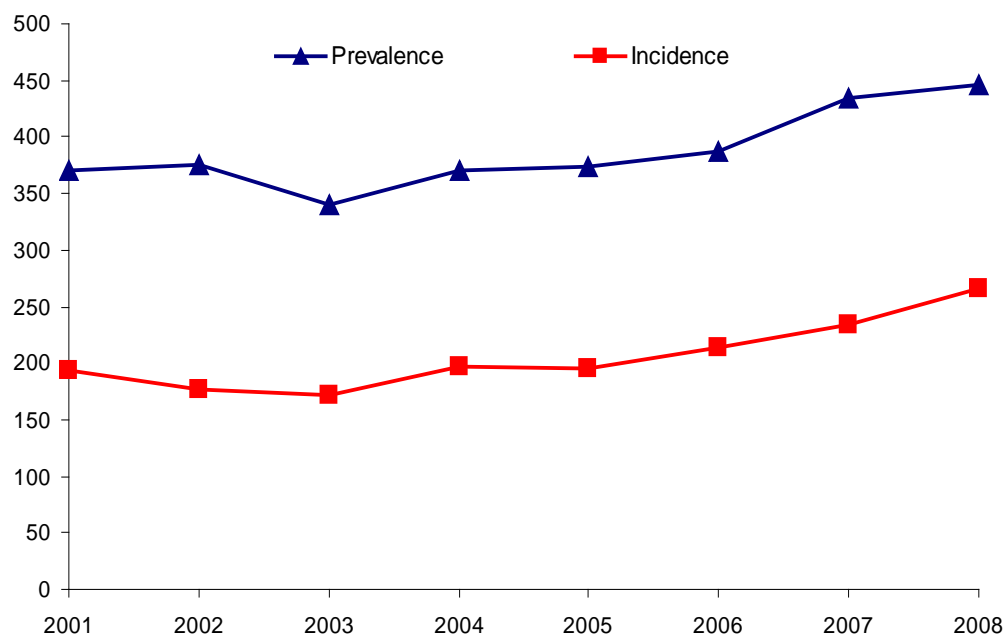


Figure 1. Diseases of the blood and blood-forming organs, incidence and prevalence rates per 100000 population, Georgia, 2001-2008

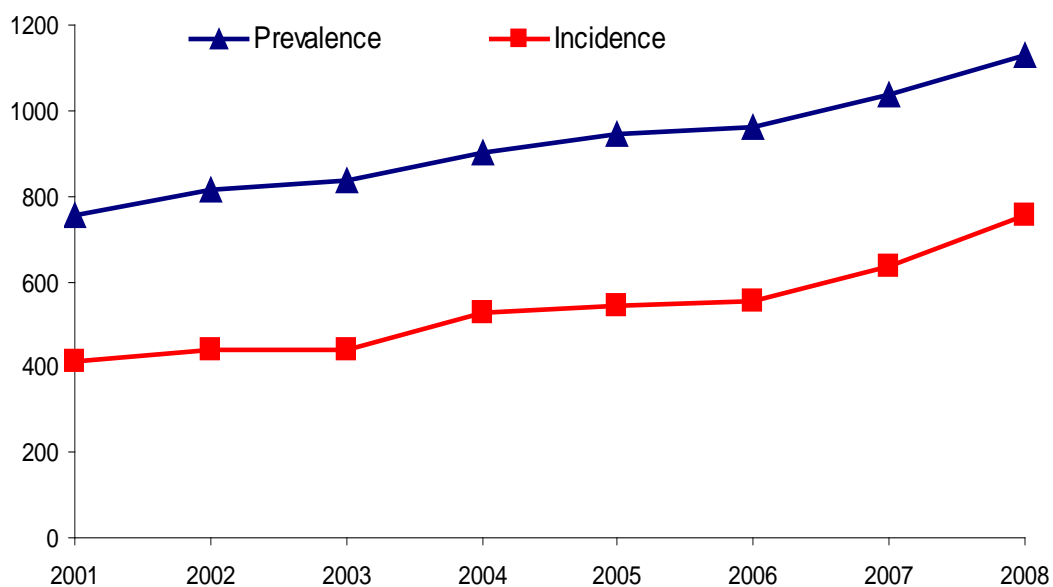


Figure 2. Diseases of the blood and blood-forming organs in children, incidence and prevalence rates per 100000 children, Georgia, 2001-2008

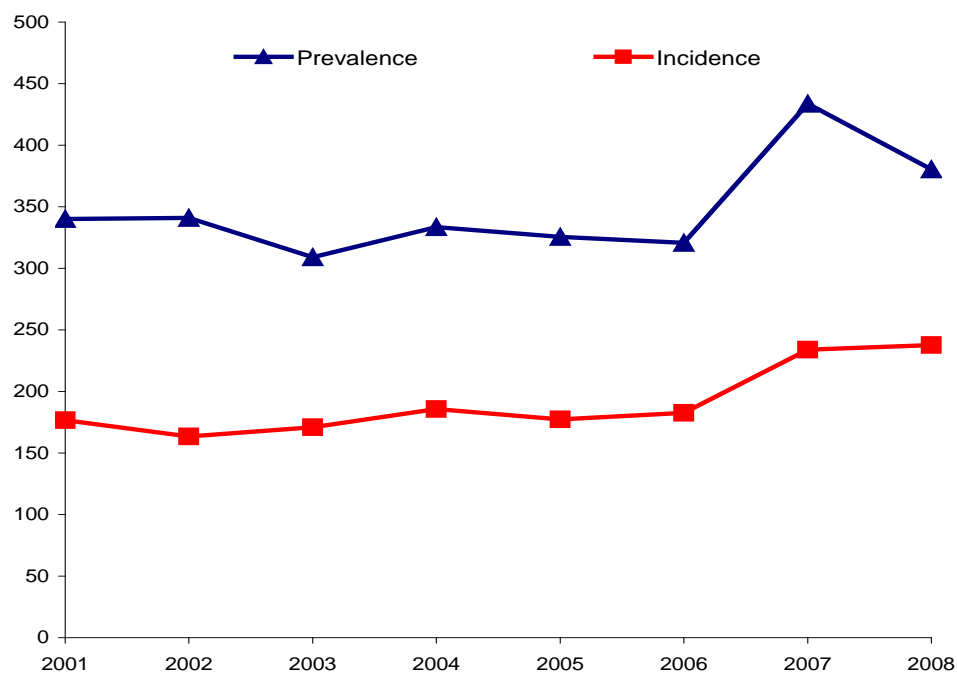


Figure 3. Anemia, rates per 100000 population, Georgia, 2001-2008

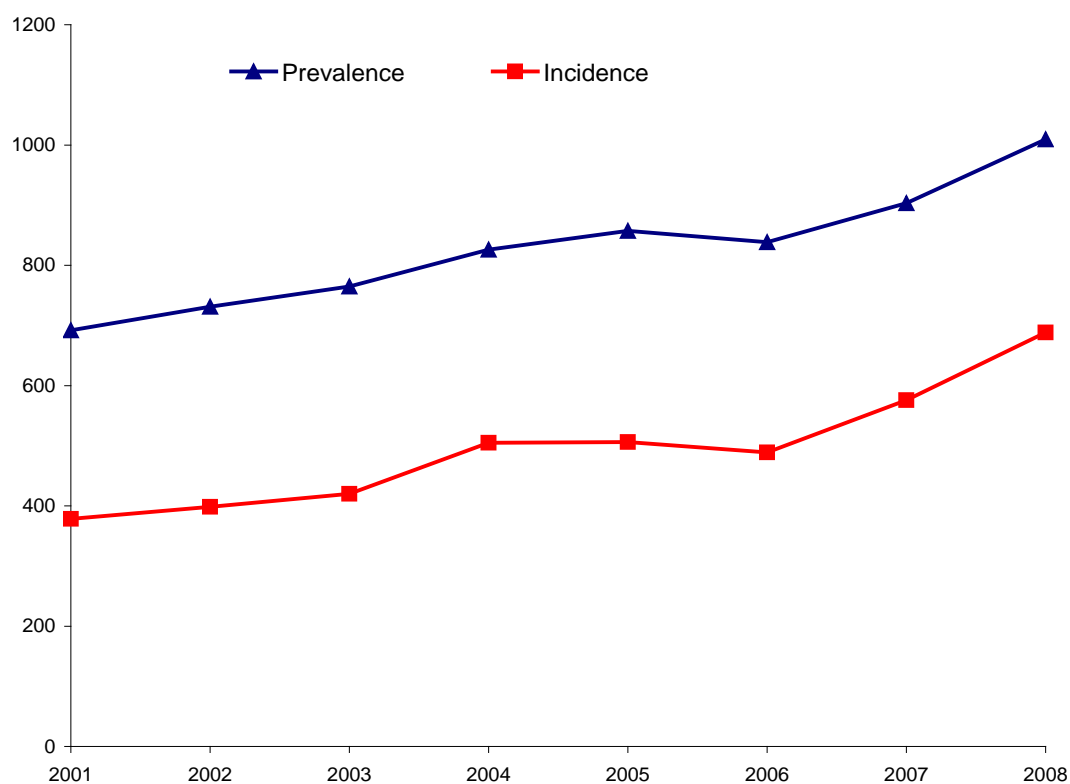


Figure 4. Anemia in children, rates per 100000 children, Georgia, 2001-2008

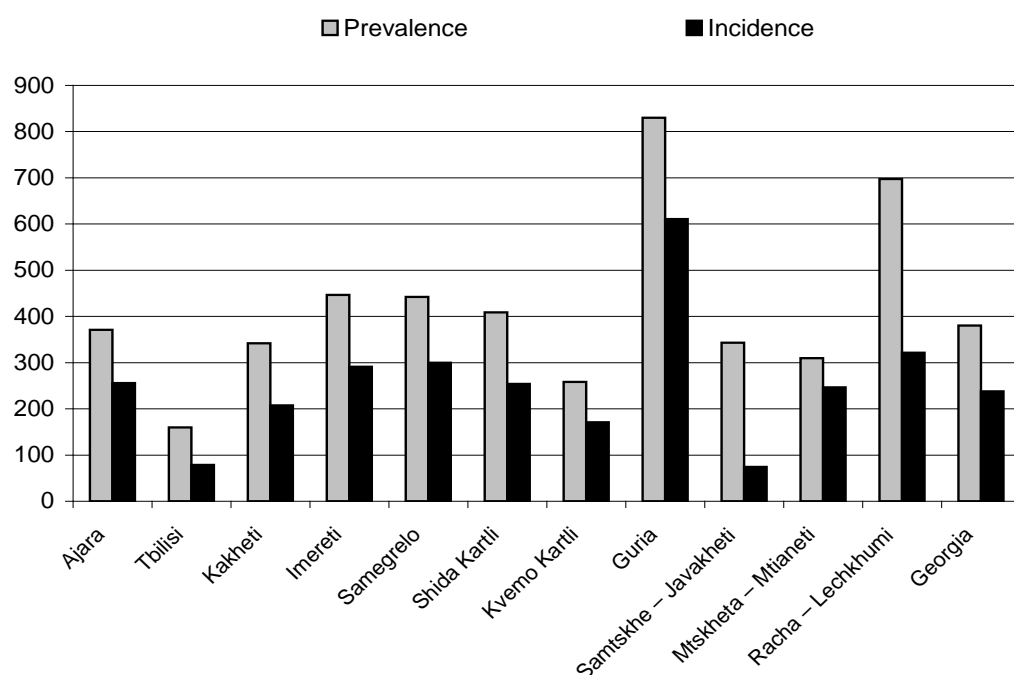


Figure 5. Anemia, incidence and prevalence by the regions, rates per 100000 population, Georgia, 2008

Table 1.
Diseases of the blood and blood-forming organs, incidence and prevalence rates, Georgia, 2002-2008

	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases	16442	14695	16175	16305	17048	19030	19546
<i>Prevalence rate per 100000 population</i>	376.1	339.5	370.0	373.0	387.6	433,64	445,9
Total number of new cases	7730	7400	8605	8505	9397	10264	11672
<i>Incidence rate per 100000 population</i>	176.8	170.9	196.8	194.6	213.7	233,8	266,3

Table 2.
Diseases of the blood and blood-forming organs, incidence and prevalence rates in children, Georgia, 2002-2008

	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases	7469	7072	8233	8651	7624	7975	8501
<i>Prevalence rate per 100000 children</i>	815.4	836.4	898.9	944.5	959.6	1039,5	1130,2
Total number of new cases	4022	3700	4848	4955	4391	4854	5686
<i>Incidence rate per 100000 children</i>	439.1	437.6	529.3	541.0	552.7	632,	755,9

Table 3.

Diseases of the blood and blood-forming organs, incidence and prevalence rates by the regions, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	Number of new cases	Incidence rate	Number of cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	1889	--	720	--	2265	--	1148	--
Ajara	1612	424,8	1000	263,5	1630	427,5	1124	294,8
Tbilisi	2470	222,8	914	82,4	2599	234,8	1246	112,6
Kakheti	1420	352,6	774	192,2	1507	375,2	881	219,3
Imereti	3020	434,0	1942	279,1	3380	487,1	2166	312,1
Samegrelo	2390	509,8	1254	267,5	2236	477,9	1485	317,4
Shida Kartli	1357	433,3	854	272,7	1421	454,1	895	286,0
Kvemo Kartli	1509	299,3	897	177,9	1490	295,2	976	193,3
Guria	1085	781,1	778	560,1	1171	843,7	857	617,4
Samtskhe – Javakheti	1467	705,3	680	326,9	1047	503,6	390	187,6
Mtskheta – Mtianeti	475	401,2	297	250,8	429	363,3	332	281,1
Racha – Lechkumi and Kvemo Svaneti	321	663,2	143	295,5	336	701,5	156	325,7
Departments other than the MOLHSA	15	--	11	--	35	--	16	--
Georgia	19030	433,6	10264	233,9	19546	445,9	11672	266,3

Table 4.

Diseases of the blood and blood-forming organs, incidence and prevalence rates in children by the regions, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	Number of new cases	Incidence rate	Number of cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	653	--	275	--	1038	--	721	--
Ajara	790	1190,7	530	798,8	895	1367,9	703	1074,4
Tbilisi	884	456,1	407	210,0	733	386,0	368	193,8
Kakheti	661	938,9	448	636,4	666	966,2	441	639,8
Imereti	1381	1135,1	824	677,3	1697	1425,2	1160	974,2
Samegrelo	838	1022,4	451	550,3	812	1011,3	484	602,8
Shida Kartli	582	1062,8	416	759,7	595	1108,2	395	735,7
Kvemo Kartli	937	1063,2	628	712,6	796	919,0	504	581,9
Guria	712	2932,5	537	2211,7	758	3182,2	577	2422,3
Samtskhe – Javakheti	312	858,1	176	484,0	244	683,9	130	364,3
Mtskheta – Mtianeti	152	734,3	116	560,4	167	823,9	138	680,8
Racha – Lechkumi and Kvemo Svaneti	73	862,9	46	543,7	98	1192,2	63	766,4
Departments other than the MOLHSA	0	--	0	--	2	--	2	--
Georgia	7975	1039,5	4854	632,7	8501	1130,2	5686	755,9

Table 5.

Diseases of blood and blood-forming organs, hospital discharges, Georgia, 2008

	Total number of discharges			Including children	
	All ages	Including hospital deaths	Case fatality rate %	All ages	Case fatality rate %
Ajara	367	2	0,5	32	0
Tbilisi	423	7	1,6	203	0
Kakheti	17	1	5,6	0	0
Imereti	98	0	0	61	0
Samegrelo	50	0	0	0	0
Shida Kartli	19	0	0	0	0
Kvemo Kartli	3	0	0	0	0
Guria	1	0	0	0	0
Samtskhe – Javakheti	3	0	0	0	0
Mtskheta – Mtianeti	0	0	0	0	0
Racha – Lechkumi and Kvemo Svaneti	0	0	0	0	0
Departments other than the MOLHSA	1	0	0	0	0
Georgia	992	10	1,0	296	0

Table 6.

Incidence and prevalence of anemia, rates per 100000 population, Georgia, 2002- 2008

	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases	14904	13378	14578	14236	14102	19030	16670
<i>Prevalence rate per 100000 population</i>	<i>340.9</i>	<i>309.0</i>	<i>333.5</i>	<i>325.6</i>	<i>320.7</i>	<i>433,6</i>	<i>380,3</i>
Total number of new cases	7146	7400	8115	7751	8024	10264	10419
<i>Incidence rate per 100000 population</i>	<i>163.5</i>	<i>170.9</i>	<i>185.6</i>	<i>177.3</i>	<i>182.5</i>	<i>233,9</i>	<i>237,7</i>

Table 7.

Incidence and prevalence of anemia in children, rates per 100000 children, Georgia, 2002- 2008

	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases	6696	6465	7665	7851	6662	7975	7594
<i>Prevalence rate per 100000 children</i>	<i>731.0</i>	<i>764.6</i>	<i>825.9</i>	<i>857.2</i>	<i>838.5</i>	<i>1039,5</i>	<i>1009,6</i>
Total number of new cases	3648	3550	4626	4636	3883	4854	5177
<i>Incidence rate per 100000 children</i>	<i>398.3</i>	<i>419.9</i>	<i>504.9</i>	<i>506.1</i>	<i>488.7</i>	<i>632,7</i>	<i>688,2</i>

Table 8.

Incidence and prevalence of anemia by the regions, rates per 100000 population, Georgia, 2007-2008

	2007				2008			
	Total number of registered cases	Prevalence	Total number of new cases	Incidence	Total number of registered cases	Prevalence	Total number of new cases	Incidence
Abkhazia	1267	--	489	--	1766	--	1045	--
Ajara	1208	318,3	775	204,2	1414	370,8	975	255,7
Tbilisi	1820	164,2	755	68,1	1766	159,6	870	78,6
Kakheti	1186	294,5	671	166,6	1374	342,0	834	207,6
Imereti	2730	392,3	1800	258,7	3097	446,3	2022	291,4
Samegrelo	2125	453,3	1161	247,7	2070	442,4	1403	299,9
Shida Kartli	1265	403,9	804	256,7	1279	408,8	794	253,8
Kvemo Kartli	1347	267,2	816	161,9	1304	258,3	864	171,2
Guria	1075	773,9	770	554,4	1152	830,0	848	611,0
Samtskhe – Javakheti	1083	520,7	530	254,8	713	343,0	154	74,1
Mtskheta – Mtianeti	401	338,7	258	217,9	366	309,9	291	246,4
Racha – Lechkhumi and Kvemo Svaneti	306	632,2	136	281,0	334	697,3	154	321,5
Departments other than the MOLHSA	15	--	11	--	35	--	0	--
Georgia	15828	360,7	8976	204,54	16670	380,3	10419	237,7

Table 9.

Cases of anemia, distribution by the types in percent, Tbilisi, 2007- 2008

Types of anemia	2007				2008			
	Total number of registered cases		Total number of new cases		Total number of registered cases		Total number of new cases	
	All cases	Including children	All cases	Including children	All cases	Including children	All cases	Including children
Total number of anemia	2010	713	764	329	2037	669	761	277
	<i>% of total number of anemia</i>							
Iron deficiency anaemia	89,5	87,2	95,2	97,0	89,7	86,8	96,6	98,2
Vitamin B ₁₂ deficiency anaemia	1,8	0,7	1,8	0	1,4	0,7	0,4	0
Folate deficiency anaemia	0,9	1,0	0,5	0,3	0,8	0,9	0,3	0
Other nutritional anaemias	3,2	7,7	0,8	1,8	3,1	7,8	0,7	0,4
Anaemia due to enzyme disorders	1,1	0,7	0,1	0,3	1,0	0,6	0	0
Thalassaemia	0,0	0,1	0	0	0,1	0,1	0,1	0
Other hereditary haemolytic anaemias	0,6	1,1	0	0	0,6	1,2	0	0
Acquired haemolytic anaemia	0,7	0,6	0,1	0,3	0,8	0,7	0,3	0,7
Acute posthaemorrhagic anaemia	0,9	0	1,0	0	1,2	0	1,2	0
Aplastic anaemias	0,2	0,6	0,3	0,3	0,1	0,4	0	0
Other anaemias	0,9	0,3	0,1	0	1,1	0,6	0,5	0,7

Table 10.

New cases of anemia, distribution by the types and sex in percent , Tbilisi, 2007- 2008

Types of anemia	Total number of new cases	2007		Total number of new cases	2008	
		% of total number males	% of total number females		% of total number males	% of total number females
Total number of anemia	764	26,3	73,7	761	22,1	77,9
	<i>Including:</i>					
Iron deficiency anaemia	727	26,7	73,3	735	22,0	78,0
Vitamin B ₁₂ deficiency anaemia	14	7,1	92,9	3	0	100,0
Folate deficiency anaemia	4	25,0	75,0	2	50,0	50,0
Acute posthaemorrhagic anaemia	8	25,0	75,0	9	0	100,0
Other anaemias	11	27,3	72,7	12	41,7	58,3

Endocrine, Nutritional and Metabolic Diseases

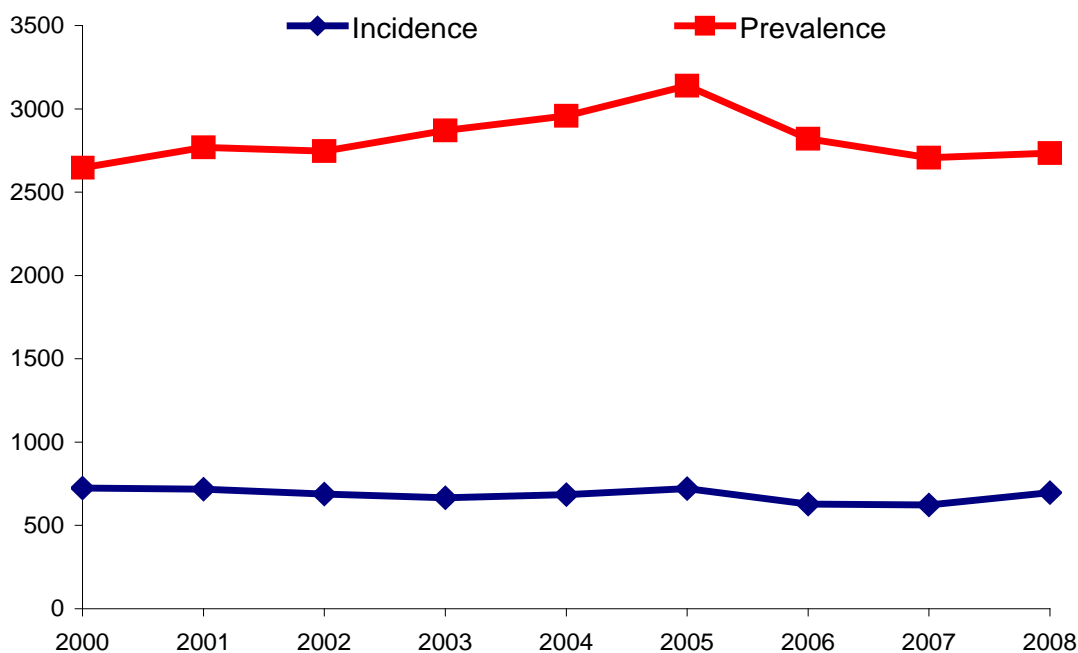


Figure 1. Endocrine, nutritional and metabolic diseases, prevalence* and incidence rates per 100000 population, Georgia, 2000 - 2008

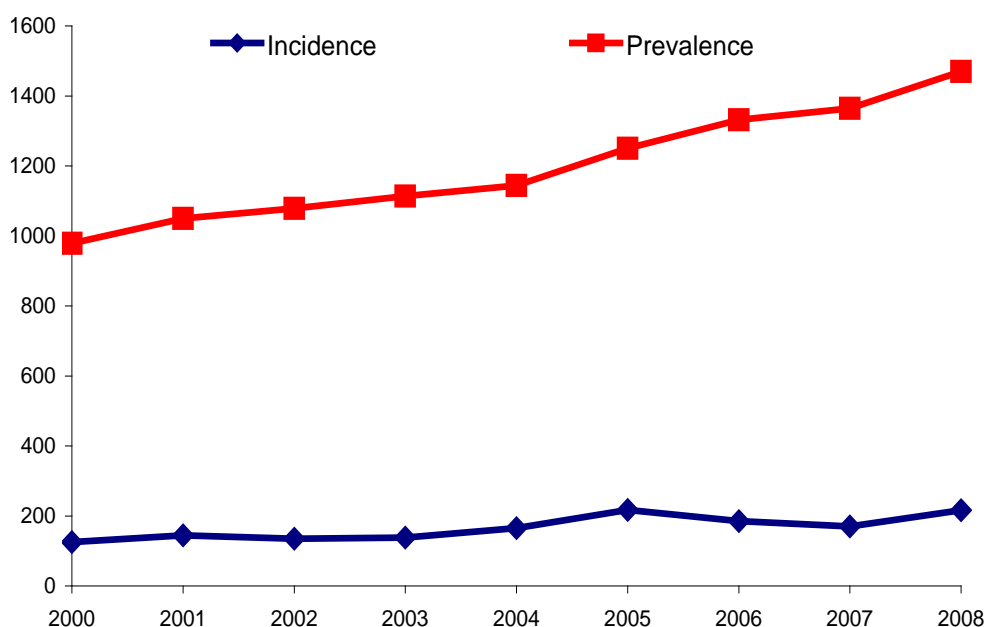


Figure 2. Diabetes mellitus morbidity, rates per 100000 population, Georgia, 2000 – 2008*

* Prevalence – total number of patients by the end of the year per 100000 population

Table 1.

Endocrine, nutritional and metabolic diseases, Georgia, 2008

	All ages		In children		All ages		In children	
	Number of patients enrolled by the end of the year	Prevalence 100000 population	Number of patients enrolled by the end of the year	Prevalence per 100000 children	New cases	Incidence per 100000 population	New cases	Incidence per 100000 children
All cases of endocrine diseases	119864	2734.2	9356	1243.8	30580	697.6	5323	707.7
	<i>Including:</i>							
Sub clinical iodine-deficiency hypothyroidism and other hypothyroidism	25864	590.0	5330	709.8	7421	169.3	2271	301.9
Other non-toxic goitre	16440	375.0	1827	242.9	5772	131.7	770	102.4
Thyrotoxicosis	5945	135.6	271	36.0	2086	47.6	172	22.9
Diabetes mellitus insulin-dependent	17817	406.4	184	24.5	2630	60.0	35	4.7
Diabetes mellitus non-insulin-dependent	46625	1063.6	50	6.7	6795	155.0	10	1.3

Table 2.

Endocrine, nutritional and metabolic diseases by the regions, Georgia, 2008

	All ages		In children		All ages		In children	
	Number of patients enrolled by the end of the year	Prevalence per 100000 population	Number of patients enrolled by the end of the year	Prevalence per 100000 children	New cases Total number	Incidence per 100000 population	New cases Total number	Incidence per 100000 children
Tbilisi	35445	3202.8	1409	741.9	4993	451.2	486	255.9
Ajara	11766	3085.8	404	617.5	3069	804.9	1175	1795.8
Guria	2054	1479.8	174	730.5	311	224.1	67	281.3
Racha – Lechkumi and Kvemo Svaneti	1484	3098.1	123	1496.4	546	1139.9	63	766.4
Samegrelo	6436	1375.5	386	480.8	1611	344.3	266	331.3
Imereti	25689	3702.1	398	334.3	8134	1172.2	907	761.7
Kakheti	14509	3611.9	2885	4185.4	2773	690.3	438	635.4
Mtskheta - Mtianeti	2542	2152.4	162	799.2	633	536.0	116	572.3
Samtskhe - Javakheti	2808	1350.6	212	594.2	1317	633.5	106	297.1
Kvemo Kartli	5037	997.8	280	323.3	2780	550.7	564	651.1
Shida Kartli	8985	2871.5	2261	4211.2	3833	1225.0	1016	1892.3
Abkhazia	2746	--	60	--	1118	--	115	--
Departments other than the MOLHSA	363	--	2	--	62	--	4	--
Georgia	119864	2734.2	9356	1243.8	30580	697.6	5323	707.7

Table 3.

Incidence and prevalence of diabetes mellitus, Georgia, 2006 - 2008

	2006		2007		2008	
	Number of cases	Incidence	Number of cases	Incidence	Number of cases	Incidence
All cases of diabetes mellitus	8151	185.3	7461	170.0	9425	215.0
Including						
Insulin-dependent diabetes mellitus	2391	54.4	2415	55.0	2630	60.0
Non-insulin-dependent diabetes mellitus	5760	131.0	5046	115.0	6795	155.0
Patients enrolled by the end of the year (contingent)						
	Number of cases	Prevalence	Number of cases	Prevalence	Number of cases	Prevalence
All cases of diabetes mellitus	58582	1332.0	59875	1364.4	64442	1470.0
Including						
Insulin-dependent diabetes mellitus	15961	362.9	16686	380.2	17817	406.4
Non-insulin-dependent diabetes mellitus	42621	969.1	43189	984.2	46625	1063.6

Table 4.

Incidence and prevalence of diabetes mellitus in children aged under 15, Georgia, 2006 - 2008

	2006		2007		2008	
	Number of cases	Incidence	Number of cases	Incidence	Number of cases	Incidence
All cases of diabetes mellitus	90	11.3	69	9.0	45	6.0
Including						
Insulin-dependent diabetes mellitus	69	8.7	59	7.7	35	4.6
Non-insulin-dependent diabetes mellitus	21	2.6	10	1.3	10	1.3
Patients enrolled by the end of the year (contingent)						
	Number of cases	Prevalence	Number of cases	Prevalence	Number of cases	Prevalence
All cases of diabetes mellitus	280	35.2	263	34.3	234	31.1
Including						
Insulin-dependent diabetes mellitus	238	30.0	208	27.1	184	24.5
Non-insulin-dependent diabetes mellitus	42	5.2	55	7.2	50	6.6

Table 5.

Incidence and prevalence of diabetes mellitus by the regions, Georgia, 2008

	Enrolled by the end of the year				New cases			
	All ages		In children		All ages		In children	
	Number of cases	Prevalence	Number of cases	Prevalence	Number of cases	Incidence	Number of cases	Incidence
Tbilisi	22529	2035.7	70	36.9	1503	135.8	6	3.2
Ajara	5883	1542.9	18	27.5	751	197.0	5	7.6
Guria	1274	917.9	6	25.2	156	112.4	1	4.2
Racha – Lechkhumi and Kvemo Svaneti	808	1686.8	2	24.3	235	490.6	0	0.0
Samegrelo	3234	691.2	20	24.9	446	95.3	4	5.0
Imereti	13342	1922.8	47	39.5	2606	375.6	15	12.6
Kakheti	5942	1479.2	19	27.6	1001	249.2	3	4.4
Mtskheta - Mtianeti	971	822.2	4	19.7	170	143.9	1	4.9
Samtskhe - Javakheti	1360	654.2	3	8.4	448	215.5	0	0.0
Kvemo Kartli	3386	670.8	6	6.9	683	135.3	5	5.8
Shida Kartli	4098	1309.7	30	55.9	1174	375.2	4	7.5
Abkhazia	1336	--	0	--	211	--	1	--
Departments other than the MOLHSA	279	--	0	--	41	--	0	--
Georgia	64442	1470.0	234	31.1	9425	215.0	45	6.0

Table 6.

Endocrine, nutritional and metabolic diseases, hospital discharges and case fatality rates, Georgia, 2007 – 2008

	2007				2008			
	Total number of hospital discharges (all ages)	Case fatality rate %	In children Total number of hospital discharges	Case fatality rate %	Total number of hospital discharges (all ages)	Case fatality rate %	In children Total number of hospital discharges	Case fatality rate %
All cases of endocrine diseases	4867	1.8	262	0.4	4487	1.8	363	0.5
	<i>Including:</i>							
Thyrotoxicosis	337	0	2	0	436	0	0	0
Diabetes mellitus	2452	3.2	194	0	2596	2.7	205	0.5

Table 7.

Hospital beds, specialized for endocrine diseases treatment, performance indicators, Georgia, 2008*

	Total number of beds	Occupancy rate (days)	Average length of stay	Bed rotation rate
Tbilisi	80	44.1	3.7	12.0
Ajara	8	54.7	2.4	23.0
Samegrelo	5	36.6	3.7	10.0
Imereti	3	94.3	2.2	42.7
Georgia	96	46.1	3.4	13.7

*In other regions there are no hospital beds specialized for the endocrine diseases

Table 8.

Thyroid gland screening, Georgia, 2006 - 2008

	2006		2007		2008	
	Total number	%	Total number	%	Total number	%
<i>Number of patients screened by health facilities (all ages)</i>						
Screened patients	54393	100	43413	100	45037	100
Total number of thyroid gland hyperplasia	28859	53.0	25690	59.2	24288	53.9
Treatment prescribed	23497	81.4	21242	82.7	20497	84.4
<i>Including children</i>						
Screened patients	19491	100	14535	100	16402	100
Total number of thyroid gland hyperplasia	8630	44.3	7333	50.4	6845	41.7
Treatment prescribed	6488	75.2	4820	65.7	5534	80.8

Table 9.

Distribution of the thyroid gland enlargements by the stages (survey data), Georgia, 2007 - 2008

			2007						2008			
			Stage						Stage			
	Number of cases	% from total number	IA	IB	II	III	Number of cases	% from total number	IA	IB	II	III
All ages	25690	59.2	41.1	26.2	22.3	10.3	24288	53.9	36.2	29.0	24.1	10.6
In children	7333	50.4	49.1	29.9	14.7	6.3	6845	41.7	51.6	28.2	14.7	5.4

Table 10.

Thyroid gland screening results by the regions (survey data), Georgia, 2007 – 2008

	2007			2008		
	Number of patients screened by health facilities (all ages)	Including thyroid gland hyperplasia revealed	Thyroid gland hyperplasia revealed in %	Number of patients screened by health facilities (all ages)	Including thyroid gland hyperplasia revealed	Thyroid gland hyperplasia revealed in %
Tbilisi	3812	2756	72.3	4599	2850	62.0
Ajara	2305	1905	82.6	3768	3011	79.9
Guria	791	640	80.9	424	318	75.0
Racha-Lechkhumi and Kvemo Svaneti	374	129	34.5	387	179	46.2
Samegrelo	6567	3435	52.3	5290	2487	47.0
Imereti	15268	8597	56.3	17482	9023	51.6
Kakheti	3787	2160	57.0	4466	1994	44.6
Mtskheta-Mtianeti	1964	661	33.6	1053	553	52.5
Samtskhe-Javakheti	1175	989	84.2	1321	1026	77.7
Kvemo Kartli	301	195	64.8	475	301	63.4
Shida Kartli	4546	3519	77.4	2550	1940	76.1
Abkhazia	2391	572	23.9	3222	606	18.8
Georgia	43413	25690	59.2	45037	24288	53.9

Table 11.

Thyroid gland screening in children, results by the regions (survey data), Georgia, 2007 – 2008

	2007			2008		
	Number of patients screened by health facilities (all ages)	Including thyroid gland hyperplasia revealed	Thyroid gland hyperplasia revealed in %	Number of patients screened by health facilities (all ages)	Including thyroid gland hyperplasia revealed	Thyroid gland hyperplasia revealed in %
Tbilisi	319	225	70.5	1155	317	27.4
Ajara	744	315	42.3	295	234	79.3
Guria	464	353	76.1	231	196	84.8
Racha-Lechkhumi and Kvemo Svaneti	110	23	20.9	190	110	57.9
Samegrelo	1570	769	49.0	1463	622	42.5
Imereti	3546	2199	62.0	4751	2686	56.5
Kakheti	2089	1163	55.7	3178	1062	33.4
Mtskheta-Mtianeti	1485	408	27.5	528	321	60.8
Samtskhe-Javakheti	704	602	85.5	815	581	71.3
Kvemo Kartli	85	43	50.6	123	94	76.4
Shida Kartli	1519	1141	75.1	2550	1105	43.3
Abkhazia	1900	92	4.8	2568	107	4.2
Georgia	14535	7333	50.4	16402	6845	41.7

Table 12.

Iodine deficiency prevention activity, number of cases, Georgia, 2004 – 2008

	2004	2005	2006	2007	2008
All ages	22065	29475	24910	25471	24805
In children	10447	14146	11205	10001	12369

Mental and Behavioural Disorders

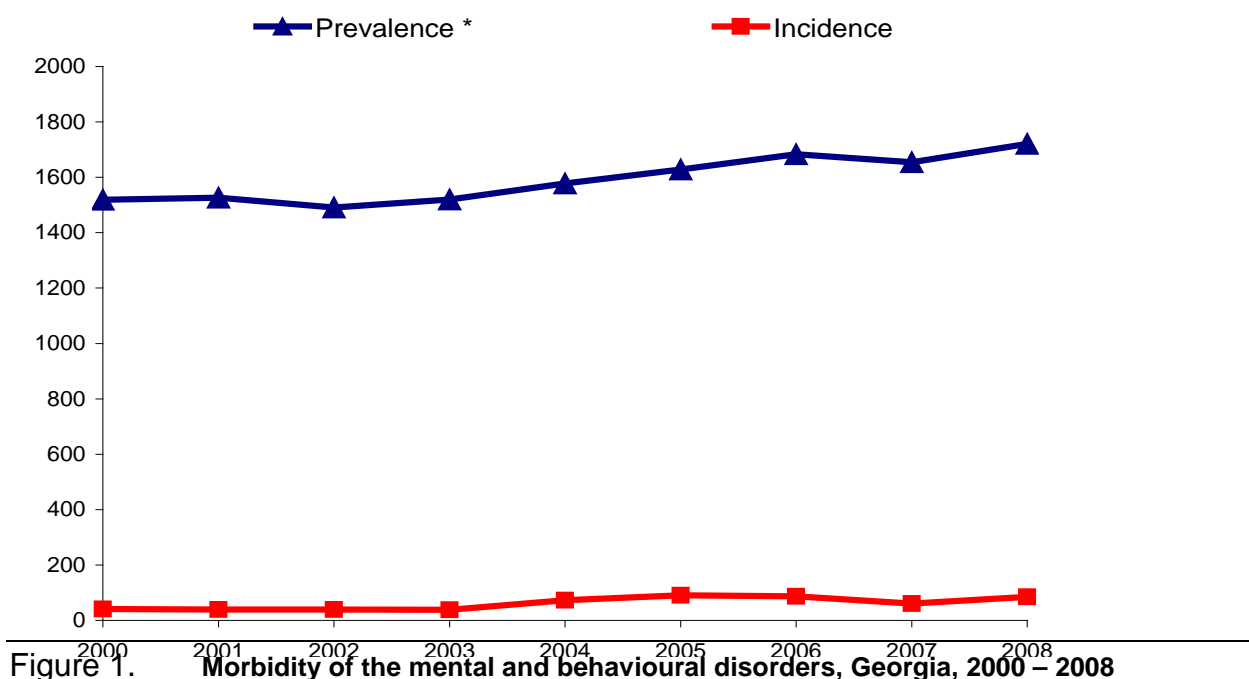


Figure 1. Morbidity of the mental and behavioural disorders, Georgia, 2000 – 2008

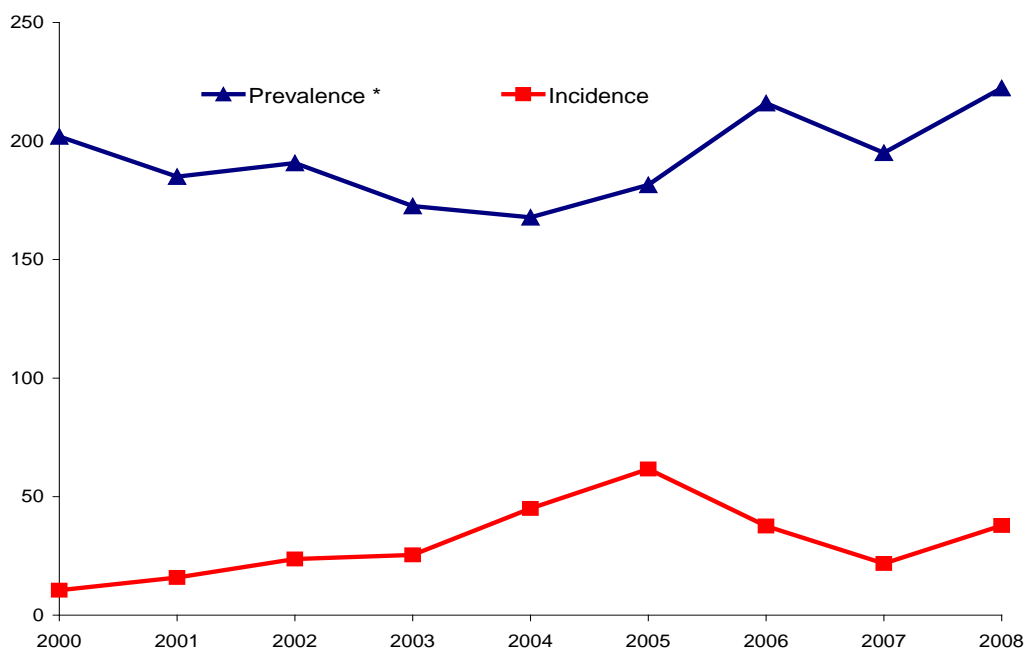


Figure 2. Morbidity of the mental and behavioural disorders in children, Georgia, 2000 – 2008

* Prevalence – total number of patients by the end of the year per 100000 population

Table 1.

Mental and behavioural disorders, total number of cases by sex and age groups,

Georgia, 2008

	All ages	Including				Females
		0-14	15-17	18-19	20-59	
Mental and behavioural disorders	75448	1672	1469	1642	59259	29464
<i>Including:</i>						
Organic, including symptomatic, mental disorders	10876	521	510	362	8092	4188
Mental and behavioural disorders due to psychoactive substance use	2187	0	15	10	1845	74
Schizophrenia, schizotipal and delusional disorders	22602	64	107	359	18787	9910
Including schizophrenia	14795	29	42	243	12221	5844
Mood (affective) disorders	5300	21	29	159	4631	2021
Neurotic, stress-related and somatoform disorders	8416	0	48	74	7071	4484
Behavioural syndromes associated with physiological disturbances and physical factors	730	0	0	1	699	291
Disorders of adult personality and behaviour	4164	0	0	42	2904	806
Mental retardation	19395	961	693	587	13696	6994
Disorders of psychological development	1351	33	40	17	1249	555
Behavioural and emotional disorders with onset usually occurring in childhood and adolescence	427	72	27	31	285	141

Table 2.

Mental and behavioural disorders, number of new cases by sex and age groups, Georgia, 2008

	All ages	Including				Females
		0-14	15-17	18-19	20-59	
Mental and behavioural disorders	3740	284	113	144	2919	1097
<i>Including:</i>						
Organic, including symptomatic, mental disorders	574	43	12	32	391	205
Mental and behavioural disorders due to psychoactive substance use	947	0	0	0	947	14
Schizophrenia, schizotipal and delusional disorders	947	0	15	35	745	419
Including schizophrenia	345	0	1	23	296	134
Mood (affective) disorders	185	0	2	5	153	101
Neurotic, stress-related and somatoform disorders	295	0	17	7	268	122
Behavioural syndromes associated with physiological disturbances and physical factors	64	0	0	2	62	4
Disorders of adult personality and behaviour	109	0	0	20	89	4
Mental retardation	530	179	60	39	249	196
Disorders of psychological development	37	27	1	2	7	16
Behavioural and emotional disorders with onset usually occurring in childhood and adolescence	52	35	6	2	8	16

Table 3.

Mental and behavioural disorders by the regions (number of cases by the end of the year per 100000 population), Georgia, 2007-2008

	2007				2008			
	All cases		Children		All cases		Children	
	Number of registered cases	Prevalence	Number of registered cases	Prevalence	Number of registered cases	Prevalence	Number of registered cases	Prevalence
Abkhazia	---	---	---	---	1138	--	0	--
Ajara	6916	1822,4	341	513,9	7080	1856,8	386	589,9
Tbilisi	10030	904,7	276	142,4	10083	911,1	268	1411,2
Kakheti	5552	1378,7	95	134,9	5638	1403,5	120	174,1
Imereti	17423	2503,7	134	110,1	17875	2576,0	224	188,1
Samegrelo	11494	2451,8	329	401,4	12216	2610,8	313	389,8
Shida Kartli	6872	2194,1	100	182,6	7053	2254,1	115	214,2
Kvemo Kartli	7093	1407,1	119	135,0	7164	1419,2	140	161,6
Guria	3061	2203,7	48	197,7	3130	2255,0	41	172,1
Samtskhe – Javakheti	1767	849,5	47	129,3	1847	888,4	57	159,8
Mtskheta – Mtianeti	2380	2010,1	7	33,8	2224	1883,2	8	39,5
Georgia	72588	1654,1	1496	195,0	75448	1721,1	1672	222,3

Table 4.

Mental and behavioural disorders by the regions (number of new cases per 100000 population), Georgia, 2007-2008

	2007				2008			
	All ages		Children		All ages		Children	
	Number of new cases	Incidence rate	Number of new cases	Incidence rate	Number of new cases	Incidence rate	Number of new cases	Incidence rate
Abkhazia	---	---	---	---	37	--	0	--
Ajara	201	53,0	16	24,1	424	111,2	46	70,3
Tbilisi	461	41,6	16	8,3	739	66,8	61	32,1
Kakheti	218	54,1	24	34,1	170	42,3	30	43,5
Imereti	820	117,8	70	57,5	577	83,2	96	80,6
Samegrelo	445	94,9	7	8,5	1076	230,0	1	1,2
Shida Kartli	149	47,6	14	25,6	316	101,0	18	33,5
Kvemo Kartli	131	26,0	18	20,4	149	29,5	21	24,2
Guria	82	59,0	0	0,0	131	94,4	0	0,0
Samtskhe – Javakheti	51	24,5	2	5,5	92	44,3	10	28,0
Mtskheta – Mtianeti	119	100,5	0	0,0	29	24,6	1	4,9
Georgia	2677	61,0	167	21,8	3740	85,3	284	37,8

Table 5.

Hospitalization in special mental clinics, Georgia, 2006 - 2008

	2006	2007	2008
Total number of discharges	4361	4377	3705
Including hospital deaths	83	65	82
Case fatality rate (%)	1.9	1.5	2.2
Number of patient treated in the day-time hospitals	1191	992	670

Table 6.

Hospitalization in special mental clinics according to certain diseases, Georgia, 2008

	Number of discharges	Including hospital deaths	Case fatality rate (%)
Mental and behavioural disorders	3705	82	2.2
<i>Including:</i>			
Organic, including symptomatic, mental disorders	472	26	5,5
Mental and behavioural disorders due to psychoactive substance use	65	1	1,5
Schizophrenia, schizotipal and delusional disorders	2831	49	1,7
Including schizophrenia	2108	43	2,0
Mood (affective) disorders	126	3	2,4
Neurotic, stress-related and somatoform disorders	80	0	0,0
Behavioural syndromes associated with physiological disturbances and physical factors	29	0	0,0
Disorders of adult personality and behaviour	22	0	0,0
Mental retardation	80	3	3,8

Diseases of the Nervous System

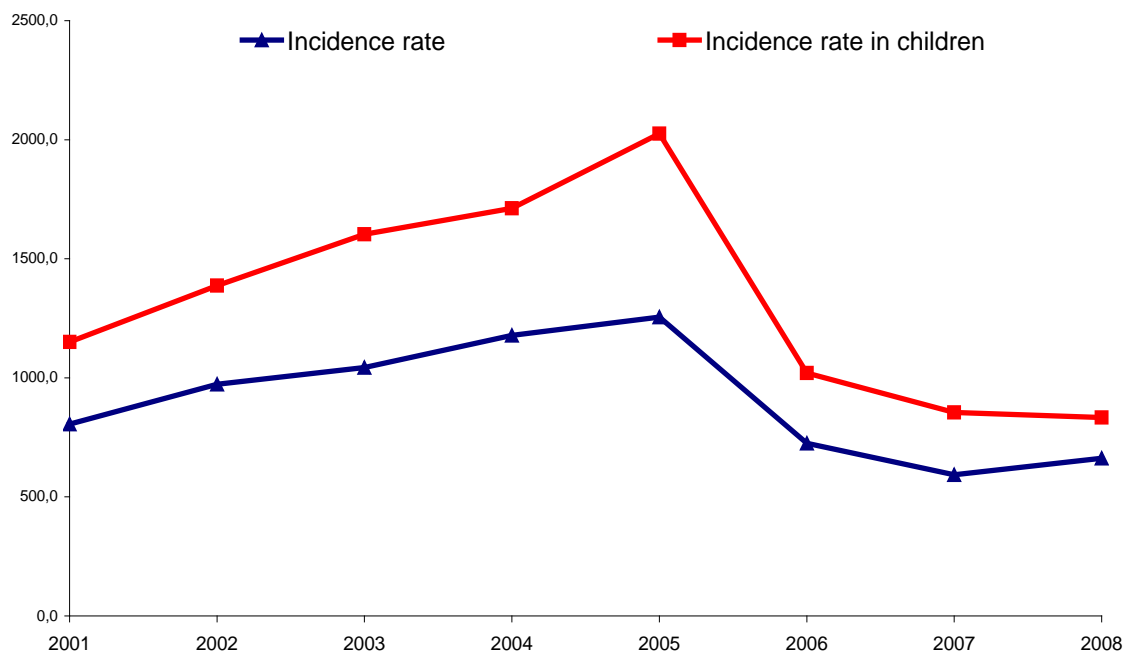


Figure 1. Diseases of the nervous system, incidence rate, Georgia, 2001 - 2008*

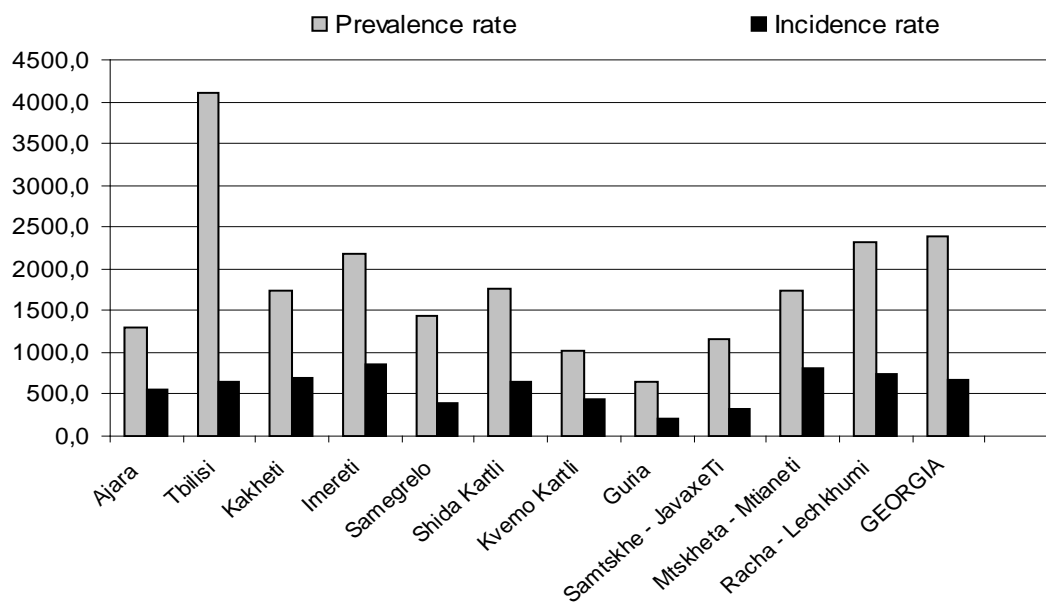


Figure 2. Diseases of the nervous system, incidence and prevalence rates by the regions, Georgia, 2008

* Diseases of the sense organs moved away from the diseases of the nervous system since 2006 according to the transfer of report forms to ICD-10.

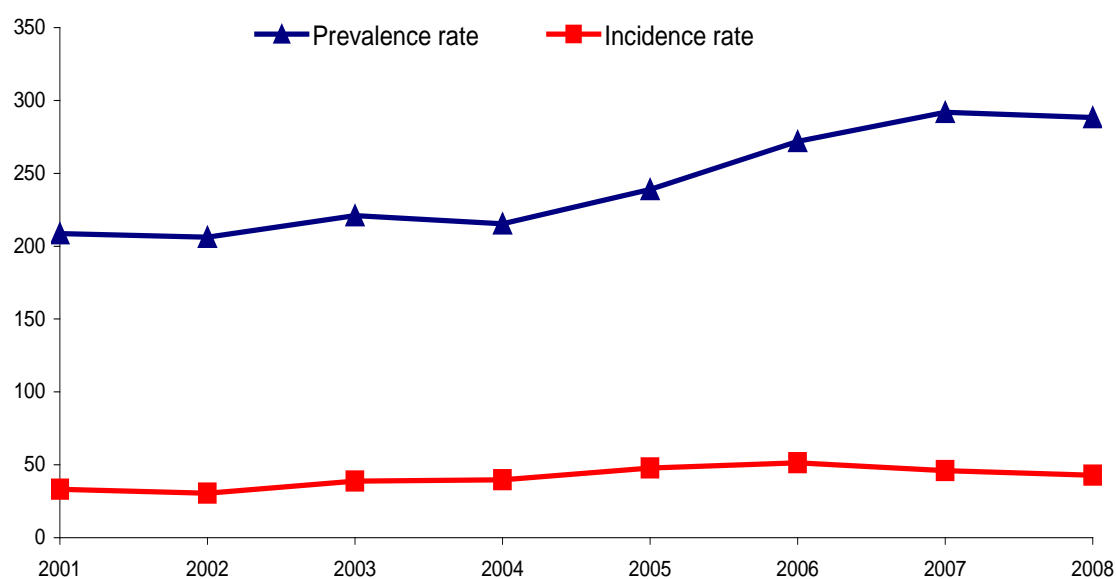


Figure 3. Epilepsy in children, incidence and prevalence rates, Georgia, 2001 - 2008

Table 1.

Certain diseases of the nervous system, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Diseases of the nervous system	93749	2136,3	26013	592,8	104523	2384,3	29049	662,6
	<i>Including:</i>							
Inflammatory diseases of the central nervous system	3682	83,9	1508	34,4	3821	87,2	1155	26,3
Systemic atrophies primarily affecting the central nervous system	1480	33,7	498	11,3	1560	35,6	433	9,9
Extrapyramidal and movement disorders	5075	115,6	1211	27,6	5624	128,3	1265	28,9
Other degenerative diseases of the nervous system	1855	42,3	828	18,9	1950	44,5	547	12,5
Episodic and paroxysmal disorders	17940	408,8	3271	74,5	19067	434,9	4119	94,0
Including:								
Epilepsy and status epilepticus	8668	197,5	1302	29,7	8559	195,2	1291	29,4
Disorders of the peripheral nervous system	33479	762,9	10606	241,7	36633	835,6	12333	281,3
Cerebral palsy and other paralytic syndromes	4742	108,1	1064	24,2	5068	115,6	1376	31,4

Table 2.

Certain diseases of the nervous system in children, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Diseases of the nervous system	22003	2868,0	6555	854,4	22224	2954,5	6267	833,2
	<i>Including:</i>							
Inflammatory diseases of the central nervous system	338	44,1	106	13,8	236	31,4	95	12,6
Systemic atrophies primarily affecting the central nervous system	71	9,2	21	2,7	67	8,9	20	2,7
Extrapyramidal and movement disorders	311	40,54	85	11,08	338	44,9	77	10,2
Other degenerative diseases of the nervous system	101	13,2	66	8,6	80	10,6	29	3,9
Episodic and paroxysmal disorders	4509	587,7	1297	169,1	4844	644,0	1582	210,3
Including:								
Epilepsy and status epilepticus	2240	292,0	353	46,0	2169	288,4	322	42,8
Disorders of the peripheral nervous system	1673	218,1	586	76,4	1639	217,9	583	77,5
Cerebral palsy and other paralytic syndromes	1797	234,2	284	37,0	1641	218,2	246	32,7

Table 3.

Diseases of the nervous system by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	6392	--	1619	--	7808	--	2273	--
Ajara	5275	1390,0	2646	697,2	4924	1291,4	2138	560,7
Tbilisi	40121	3619,1	5896	531,8	45562	4116,9	7277	657,5
Kakheti	6213	1542,8	2221	551,5	6986	1739,1	2801	697,3
Imereti	11300	1623,8	4962	713,0	15061	2170,5	5933	855,0
Samegrelo	6573	1402,1	2123	452,9	6698	1431,5	1799	384,5
Shida Kartli	5551	1772,3	2395	764,7	5519	1763,8	2060	658,4
Kvemo Kartli	4947	981,4	1447	287,0	5161	1022,4	2186	433,0
Guria	914	658,0	293	210,9	904	651,3	294	211,8
Samtskhe – Javakheti	2960	1423,1	924	444,2	2403	1155,8	695	334,3
Mtskheta – Mtianeti	2371	2002,5	1106	934,1	2057	1741,7	970	821,3
Racha – Lechkumi and Kvemo Svaneti	1007	2080,6	278	574,4	1108	2313,2	356	743,2
Departments other than the MoLHSA	125	--	103	--	332	--	267	--
Georgia	93749	2136,3	26013	592,8	104523	2384,3	29049	662,6

Table 4.

Diseases of the nervous system in children by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	569	--	356	--	742	--	410	--
Ajara	1475	2223,1	838	1263,0	1050	1604,8	604	923,1
Tbilisi	12378	6386,7	2088	1077,3	13656	7190,8	2104	1107,9
Kakheti	773	1098,0	259	367,9	936	1357,9	437	634,0
Imereti	1759	1445,8	735	604,1	1476	1239,6	556	467,0
Samegrelo	1139	1389,7	503	613,7	1102	1372,5	448	558,0
Shida Kartli	2037	3719,9	887	1619,8	1499	2792,0	830	1545,9
Kvemo Kartli	1296	1470,6	700	794,3	1329	1534,3	746	861,2
Guria	186	766,1	30	123,6	187	785,1	47	197,3
Samtskhe – Javakheti	158	434,5	28	77,0	109	305,5	11	30,8
Mtskheta – Mtianeti	161	777,8	105	507,2	105	518,0	58	286,1
Racha – Lechkhumi and Kvemo Svaneti	72	851,1	26	307,3	28	340,6	11	133,8
Departments other than the MoLHSA	0	--	0	--	5	--	5	--
Georgia	22003	2868,0	6555	854,4	22224	2954,5	6267	833,2

Table 5.

Functioning of neurological beds by the regions, Georgia, 2007 - 2008*

	2007				2008			
	Total number of beds	Average length of stay	Occupancy rate (days)	Bed rotation rate	Total number of beds	Average length of stay	Occupancy rate (days)	Bed rotation rate
Ajara	35	11,1	207,3	19,0	35	9,4	182,9	20,3
Tbilisi	190	8,5	168,8	20,1	165	8,4	186,2	22,6
Imereti	49	9,9	185,2	19,8	49	9,3	195,9	22,0
Samegrelo	10	6,5	125,5	19,2	5	5,0	354,4	70,2
Kvemo Kartli	28	5,8	90,2	15,7	28	5,5	84,3	15,6
Guria	10	4,7	74,7	16,3	10	5,7	75,4	13,3
Racha – Lechkhumi and Kvemo Svaneti	5	9,4	174,8	18,4	5	9,9	263,2	27,4
Departments other than the MoLHSA	22	14,2	187,4	13,1	22	9,3	205,6	22,1
Georgia	349	8,9	166,0	19,0	319	8,3	180,1	22,2

Table 6.

Diseases of the nervous system, hospital discharges and case fatality rates, Georgia, 2007–2008

	2007		2008	
	Number of discharges	Case fatality rate %	Number of discharges	Case fatality rate %
Diseases of the nervous system	7116	2,3	7211	3,3
<i>Including:</i>				
Infantile cerebral palsy	205	0	195	1,0
Disorders of the peripheral nervous system	1129	0,5	896	4,0

* There aren't neurological beds in other regions

Table 7.

Diseases of the nervous system, hospital discharges and case fatality rates in children, Georgia, 2007 – 2008

	2007				2008			
	Number of discharges	Case fatality rate %	Including 0-1 years		Number of discharges	Case fatality rate %	Including 0-1 years	
Number of discharges			Case fatality rate %	Number of discharges			Case fatality rate %	
Diseases of the nervous system	2386	0,8	822	1,6	2373	0,8	780	1,2
		<i>Including:</i>						
Infantile cerebral palsy	197	0	0	0	184	1,1	25	0
Disorders of the peripheral nervous system	538	0,4	188	0,5	276	1,1	214	0,5

Table 8.

Diseases of the nervous system, hospital discharges and case fatality rates by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of discharges		Case fatality rate %		Number of discharges		Case fatality rate %	
	Total number	Including children	Total number	In children	Total number	Including children	Total number	In children
Abkhazia	2	0	0	0	5	0	0	0
Ajara	552	177	2,2	0	579	167	2,9	0
Tbilisi	3981	1401	2,7	1,3	4089	1442	3,3	1,0
Kakheti	303	23	2,6	4,4	329	29	0,1	0
Imereti	1037	546	0,8	0	884	510	3,3	1,0
Samegrelo	267	34	0	0	254	29	0,02	0
Shida Kartli	193	65	6,2	0	418	94	0,1	0
Kvemo Kartli	266	66	4,9	0	253	57	0,05	0
Guria	238	71	0,8	0	50	36	0	0
Samtskhe – Javakheti	62	3	0	0	98	4	0,04	0
Mtskheta – Mtianeti	11	0	0	0	1	0	0	0
Racha – Lechkhumi and Kvemo Svaneti	23	0	0	0	33	0	0	0
Departments other than the MoLHSA	181	0	0	0	218	0	0	0
Georgia	7116	2386	2,3	0,8	7211	2373	3,3	0,8

Table 9.

Surgical operations on the nervous system organs and case fatality rates, Georgia, 2006 – 2008

	2006		2007		2008	
	Number of operations	Case fatality rate %	Number of operations	Case fatality rate %	Number of operations	Case fatality rate %
Total	2144	4,1	2649	3,8	3239	3,6
Brain	722	5,1	944	7,9	1020	7,1
Spinal cord	100	3,0	138	0	198	0
Maters	68	10,3	71	5,6	60	10,0
Peripheral nervous system	264	0	142	0	103	6,8
Intervertebral disks	882	0,1	1194	0	1742	0,1

Table 10.

Surgical operations on the nervous system organs by the regions, Georgia, 2008*

	Total	Brain	Spinal cord	Including Maters	Peripheral nervous system	Intervertebral disks
Ajara	363	40	1	0	4	314
Tbilisi	2098	771	189	53	79	928
Imereti	516	130	5	6	0	341
Samegrelo	153	52	1	1	1	98
Shida Kartli	29	8	0	0	1	20
Kvemo Kartli	1	1	0	0	0	0
Departments other than the MoLHSA	79	18	2	0	18	41
Georgia	3239	1020	198	60	103	1742

* There weren't performed surgical operations on the nervous system organs in other regions

Diseases of the Eye and Adnexa

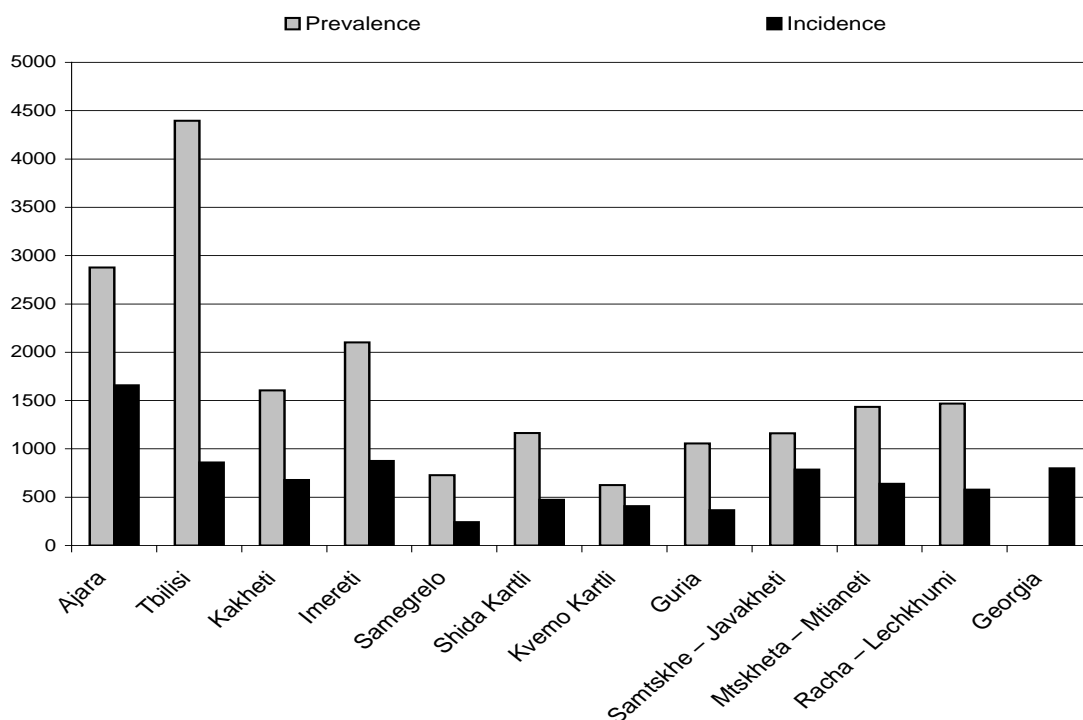


Figure 1. Diseases of the eye and adnexa, morbidity rates by the regions, Georgia, 2008

Table 1.

Diseases of the eye and adnexa, morbidity rates by certain nosologies, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Diseases of the eye and adnexa	86322	1967,1	24573	560,0	104858	2391,9	35072	800,0
	<i>Including:</i>							
Disorders of vitreous body (Cataract)	26823	611,2	6646	151,4	29394	670,5	8662	197,6
Glaucoma	9758	222,4	2459	56,0	9938	226,7	2496	56,9
Diseases of the eye musculus and adnexa	24913	567,7	8159	185,9	29595	675,1	10545	240,5

Table 2.

Diseases of the eye and adnexa, morbidity rates by certain nosologies in children, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Diseases of the eye and adnexa	14340	1869,1	7473	974.1	17102	2273,6	8648	1149,7
	<i>Including:</i>							
Disorders of vitreous body (Cataract)	235	30,6	76	9,9	208	27,7	70	9,3
Glaucoma	117	15,3	28	3,7	75	10,0	20	2,7
Diseases of the eye musculus and adnexa	8681	1131,5	3428	446,8	7809	1038,2	2448	325,4

Table 3.

Diseases of the eye and adnexa, morbidity rates by the regions, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Abkhazia	3851	--	1449	--	6531	--	2163	--
Ajara	7206	1898,8	3889	1024,8	10974	2878,0	6321	1657,7
Tbilisi	42620	3844,5	6457	582,4	48634	4394,5	9494	857,9
Kakheti	5770	1432,8	2294	569,7	6447	1604,9	2728	679,1
Imereti	11629	1671,1	4875	700,5	14580	2101,2	6073	875,2
Samegrelo	3439	733,6	1068	227,8	3403	727,3	1129	241,3
Shida Kartli	3422	1092,6	1380	440,6	3645	1164,9	1477	472,0
Kvemo Kartli	2114	419,4	792	157,1	3151	624,2	2053	406,7
Guria	1333	959,7	323	232,5	1465	1055,5	506	364,6
Samtskhe – Javakheti	1961	942,8	820	394,2	2415	1161,6	1633	785,5
Mtskheta – Mtianeti	1898	1603,0	900	760,1	1693	1433,5	754	638,4
Racha – Lechkumi and Kvemo Svaneti	675	1394,6	249	514,5	703	1467,6	277	578,3
Departments other than the MOLHSA	404	--	77	--	1217	--	464	--
Georgia	86322	1967,0	24573	560,0	104858	2391,9	35072	800,0

Table 4.

Diseases of the eye and adnexa, morbidity rates by the regions in children, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Abkhazia	764	--	322	--	705	--	388	--
Ajara	1810	2728,0	1066	1606,6	2138	3267,6	1389	2122,9
Tbilisi	6437	3321,3	2676	1380,7	8353	4398,4	4131	2175,2
Kakheti	841	1194,6	574	815,3	785	1138,8	469	680,4
Imereti	2293	1884,8	1776	1459,8	2722	2286,1	1014	851,6
Samegrelo	431	525,9	178	217,2	409	509,4	177	220,5
Shida Kartli	701	1280,1	316	577,1	831	1547,8	336	625,8
Kvemo Kartli	512	581,0	319	362,0	560	646,5	399	460,6
Guria	224	922,6	81	333,6	263	1104,1	137	575,1
Samtskhe – Javakheti	98	269,5	19	52,3	131	367,2	75	210,2
Mtskheta – Mtianeti	162	782,6	103	497,6	141	695,6	96	473,6
Racha – Lechkumi and Kvemo Svaneti	67	792,0	43	508,3	59	717,8	33	401,5
Departments other than the MOLHSA	0	--	0	--	5	--	4	--
Georgia	14340	1869,1	7473	974,1	17102	2273,6	8648	1149,7

Table 5.

Functioning of ophthalmological in-patient beds by the regions, Georgia, 2007-2008*

	2007				2008			
	Number of beds	Average length of stay	Occupancy rate (days)	Bed rotation rate	Number of beds	Average length of stay	Occupancy rate (days)	Bed rotation rate
Ajara	13	2,5	93,5	37,7	13	2,0	154,1	76,5
Tbilisi	144	4,8	63,7	13,2	149	4,2	77,4	18,5
Kakheti	5	1,0	37,0	35,0	10	1,1	43,0	39,8
Imereti	7	1,3	34,0	26,9	7	1,2	49,9	41,9
Samegrelo	2	1,0	61,5	60,0	2	1,0	109,0	109,0
Shida kartli	0	0	0	0	0	0	0	0
Kvemo kartli	0	0	0	0	0	0	0	0
Guria	3	0,0	0,0	0,0	3	0,7	3,7	5,0
Samckhe-Javakheti	0	0	0	0	0	0	0	0
Georgia	174	3,8	62,9	16,5	184	3,0	79,2	26,2

Table 6.

Diseases of the eye and adnexa, hospital discharges, Georgia, 2007-2008

	Number of discharges	2007		Number of discharges Total	2008	
		Including Total	<15 years Including <1 year		Including Total	<15 years Including <1 year
Diseases of the eye adnexa	3544	232	7	5533	227	14
		<i>Including:</i>				
Disorders of vitreous body (Cataract)	1827	28	0	3069	26	0
Glaucoma	310	10	2	518	6	2

* There are not ophthalmological hospital beds in other regions

Table 7.

Surgical operations of the diseases of eye and adnexa, Georgia, 2005-2008

	2005	2006	2007	2008
		In-patient operations		
Total	4317	3795	3634	5748
<i>Glaucoma</i>	404	316	373	603
<i>Enucleation</i>	95	152	132	149
<i>Cataract</i>	2401	2073	2077	3651
		Ambulatory operations		
Total	1916	2831	3949	5214
<i>Glaucoma</i>	323	329	415	450
<i>Cataract</i>	946	1725	2624	3297

Table 8.

In-patient surgical operations on the diseases of eye and adnexa by the regions, Georgia, 2007-2008*

	Total	2007			Total	2008		
		Glaucoma	Including Enucleation	Cataract		Glaucoma	Including Enucleation	Cataract
Ajara	467	23	1	334	967	38	1	762
Tbilisi	2039	196	95	906	2498	272	87	1131
Kakheti	350	32	9	300	238	34	5	185
Imereti	571	113	24	357	1555	232	56	1169
Samegrelo	136	4	0	131	226	5	0	206
Shida kartli	4	0	0	4	7	3	0	2
Kvemo kartli	61	5	2	45	116	14	0	93
Guria	0	0	0	0	15	0	0	0
Samckhe Javakheti	0	0	0	0	48	4	0	0
Departments other than the MOLHSA	6	0	0	0	77	1	0	0
Georgia	3634	373	132	2077	5748	603	149	3651

Table 9.

Ambulatory surgical operations on the diseases of eye and adnexa by the regions, Georgia, 2007-2008*

	Total	2007			Total	2008		
		Micro surgery	Including Glaucoma	Cataract		Micro surgery	Including Glaucoma	Cataract
Abkhazia	11	2	0	0	--	--	--	--
Ajara	119	14	9	59	183	147	14	122
Tbilisi	3238	2393	335	2148	3921	1943	356	2536
Kakheti	4	4	0	0	0	0	0	0
Imereti	550	16	70	416	796	105	80	566
Samegrelo	2	2	0	0	29	6	6	6
Shida Kartli	0	0	0	0	0	0	0	0
Kvemo Kartli	0	0	0	0	183	11	0	0
Guria	0	0	0	0	73	0	0	73
Samtskhe – Javakheti	25	0	1	1	29	0	0	0
Georgia	3949	2417	415	2624	5214	2212	450	3297

* Hospital surgical operations of the diseases of eye and adnexa in other regions were not performed

Diseases of the Ear and Mastoid Process

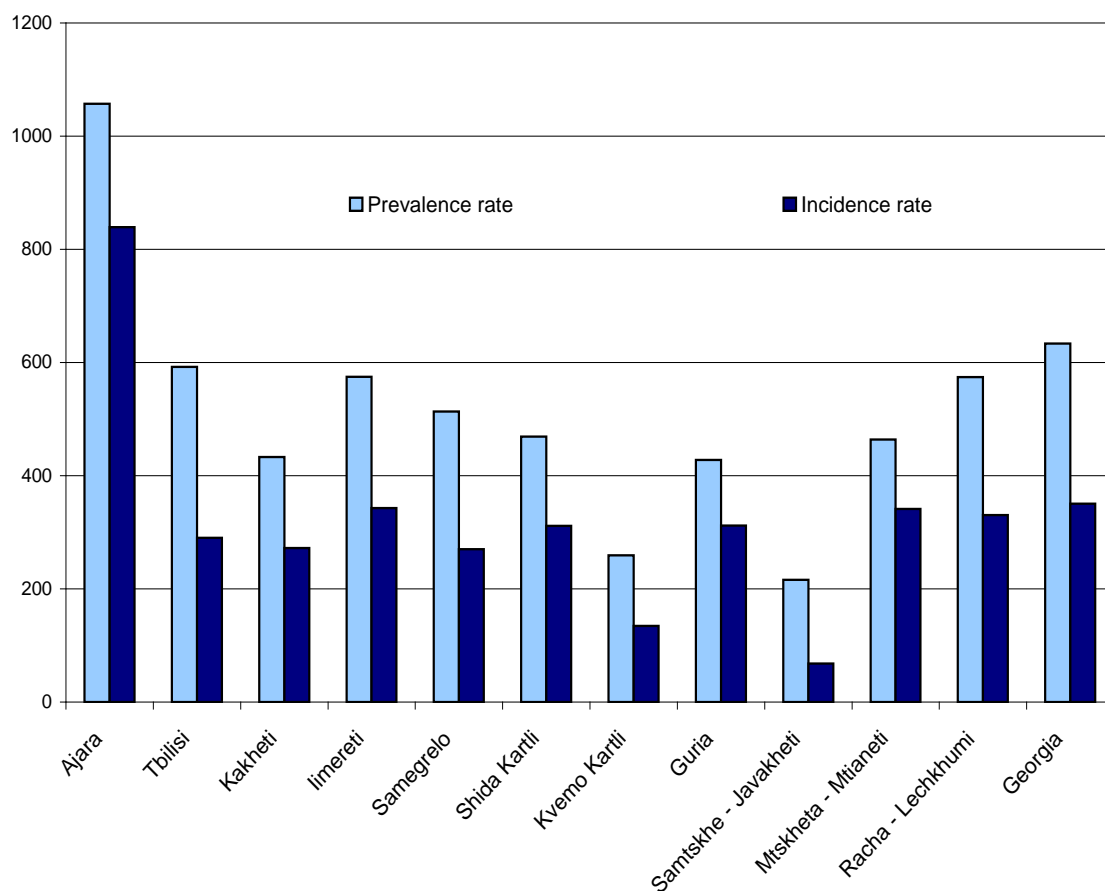


Figure 1. Diseases of the ear and mastoid process, incidence and prevalence rates by the regions, Georgia, 2008

Table 1. Certain diseases of the ear and mastoid process, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Diseases of the ear and mastoid process	27799	633,5	15382	350,5	32167	733,8	19900	453,9
	<i>Including:</i>							
Otitis media	13418	305,8	7472	170,3	15053	343,4	9000	205,3

Table 2.

Diseases of the ear and mastoid process by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	3990	--	1057	--	5166	--	1952	--
Ajara	4013	1057,4	3184	839,0	1777	466,0	1172	307,4
Tbilisi	6568	592,5	3217	290,2	8284	748,5	5297	478,6
Kakheti	1743	432,8	1097	272,4	3112	774,7	2435	606,2
Imereti	4001	574,9	2385	342,7	6062	873,6	4048	583,4
Samegrelo	2407	513,4	1267	270,3	2351	502,5	1162	248,3
Shida Kartli	1470	469,3	975	311,3	1309	418,3	891	284,8
Kvemo Kartli	1308	259,5	678	134,5	1458	288,8	1057	209,4
Guria	594	427,6	433	311,7	817	588,6	674	485,6
Samtskhe – Javakheti	449	215,9	141	67,8	467	224,6	202	97,2
Mtskheta – Mtianeti	549	463,7	404	341,2	578	489,4	319	270,1
Racha – Lechkhumi and Kvemo Svaneti	278	574,4	160	330,6	370	772,4	288	601,3
Departments other than the MoLHSA	429	--	384	--	416	--	403	--
Georgia	27799	633,5	15382	350,5	32167	733,8	19900	453,9

Table 3.

Certain diseases of the ear and mastoid process in children, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Diseases of the ear and mastoid process	8570	1117,0	6568	856,1	8859	1177,7	6872	913,6
<i>Including:</i>								
Otitis media	4736	617,3	3388	441,6	4904	652,0	3419	454,5

Table 4.

Diseases of the ear and mastoid process in children by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate	Number of registered cases	Prevalence rate	Number of new cases	Incidence rate
Abkhazia	639	--	365	--	992	--	559	--
Ajara	1689	2545,6	1387	2090,4	560	855,9	372	568,5
Tbilisi	2078	1072,2	1602	826,6	2483	1307,5	2181	1148,4
Kakheti	605	859,4	505	717,3	727	1054,7	624	905,3
Imereti	1120	920,6	880	723,3	1461	1227,0	1093	917,9
Samegrelo	857	1045,6	568	693,0	799	995,1	552	687,5
Shida Kartli	407	743,2	345	630,0	357	664,9	288	536,4
Kvemo Kartli	488	553,7	355	402,8	567	654,6	434	501,0
Guria	379	1561,0	340	1400,3	558	2342,6	516	2166,2
Samtskhe – Javakheti	80	220,0	34	93,5	73	204,6	35	98,1
Mtskheta – Mtianeti	166	801,9	139	671,5	171	843,6	122	601,9
Racha – Lechkhumi and Kvemo Svaneti	59	697,4	46	543,7	101	1228,7	89	1082,7
Departments other than the MoLHSA	3	--	2	--	10	--	7	--
Georgia	8570	1117,0	6568	856,1	8859	1177,7	6872	913,6

Table 5.

Diseases of the ear and mastoid process, hospital discharges, Georgia, 2007 – 2008

	2007		2008	
	Number of discharges	Including children	Number of discharges	Including children
Ajara	328	4	469	4
Tbilisi	159	24	122	35
Kakheti	21	16	6	0
Imereti	14	13	123	63
Samegrelo	0	0	8	0
Shida Kartli	0	0	2	0
Kvemo Kartli	0	0	76	37
Guria	0	0	6	0
Samtskhe – Javakheti	0	0	0	0
Mtskheta – Mtianeti	1	1	0	0
Racha – Lechkhumi and Kvemo Svaneti	0	0	0	0
Departments other than the MoLHSA	15	0	16	0
Georgia	538	58	828	139

Table 6.

In-patient surgical operations on the ear, Georgia, 2005 - 2008

	2005	2006	2007	2008
Total number	199	156	187	245
Including children	54	6	48	15

Table 7.

Surgical operations on the ear by the regions, Georgia, 2007 - 2008*

	2007		2008	
	Total number	Including children	Total number	Including children
Ajara	57	4	69	0
Tbilisi	114	43	146	4
Kakheti	5	0	0	0
Imereti	8	0	15	0
Samegrelo	1	1	2	1
Kvemo Kartli	0	0	13	10
Departments other than the MoLHSA	2	0	0	0
Georgia	187	48	245	15

* There weren't performed surgical operations on the ear in other regions

Diseases of the Circulatory System

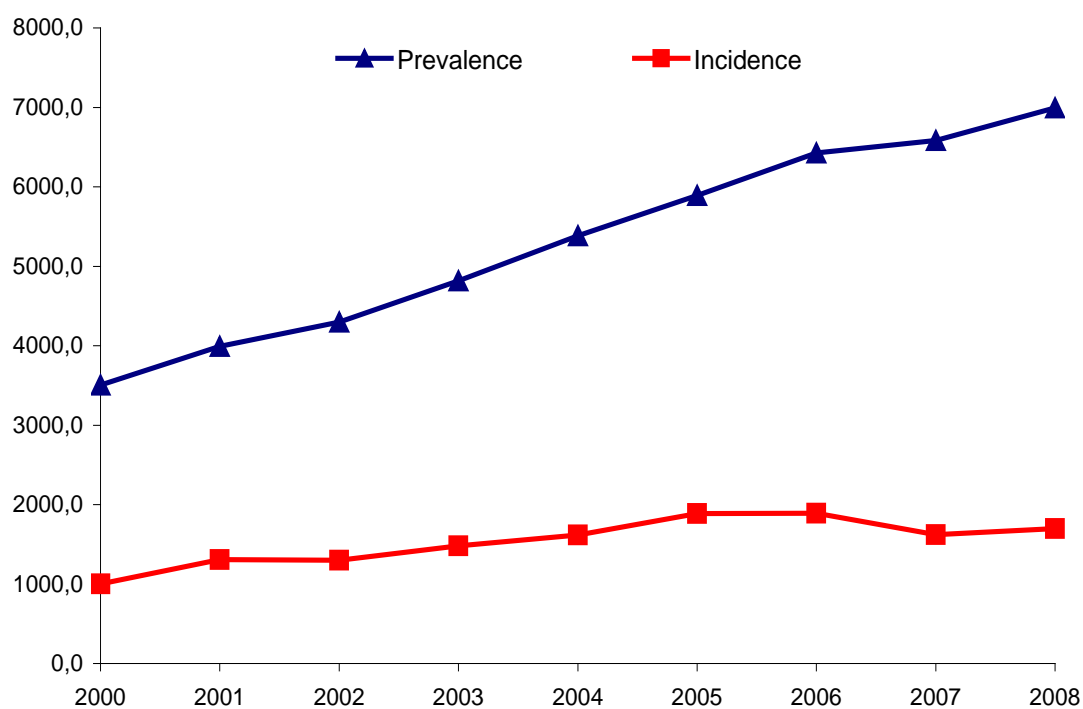


Figure 1. Diseases of the circulatory system, morbidity rates per 100000 population, Georgia, 2000 – 2008

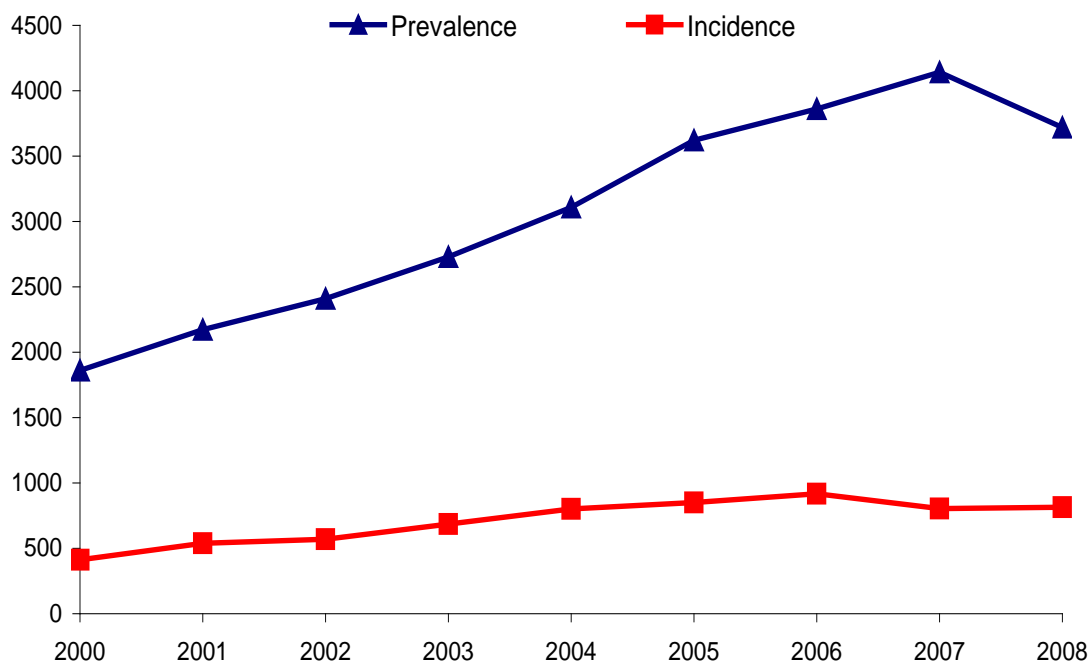


Figure 2. Hypertensive disease, morbidity rates per 100000 population, Georgia, 2000- 2008

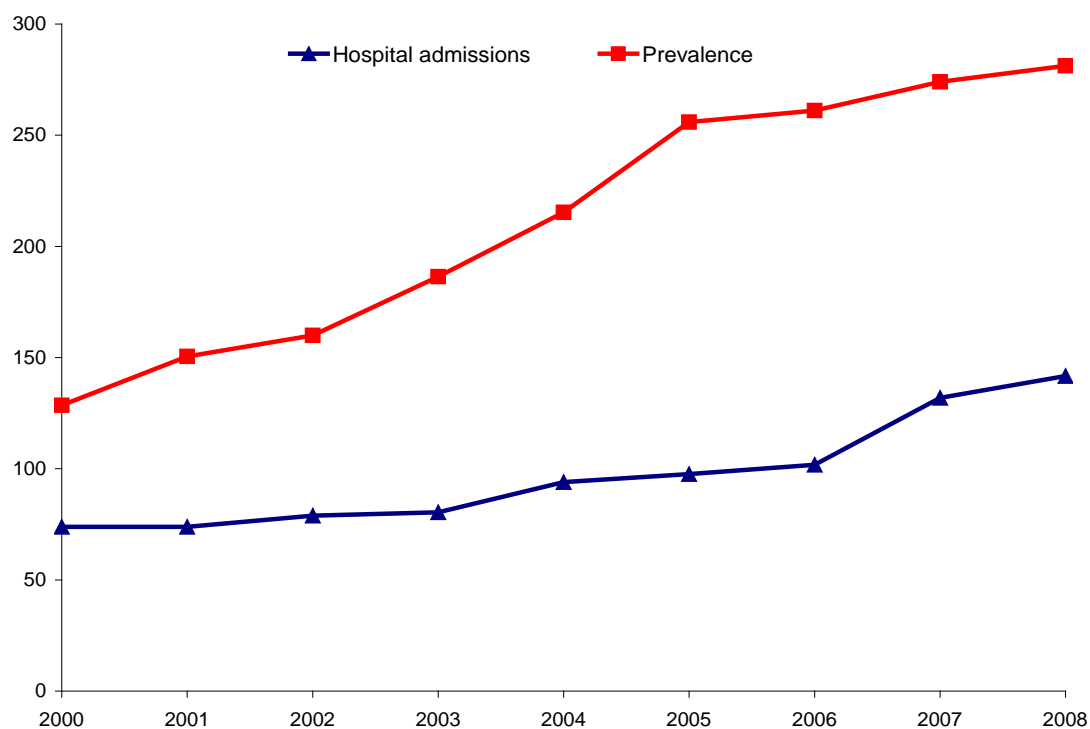


Figure 3. Cerebrovascular diseases, rates per 100000 population, Georgia, 2000 – 2008

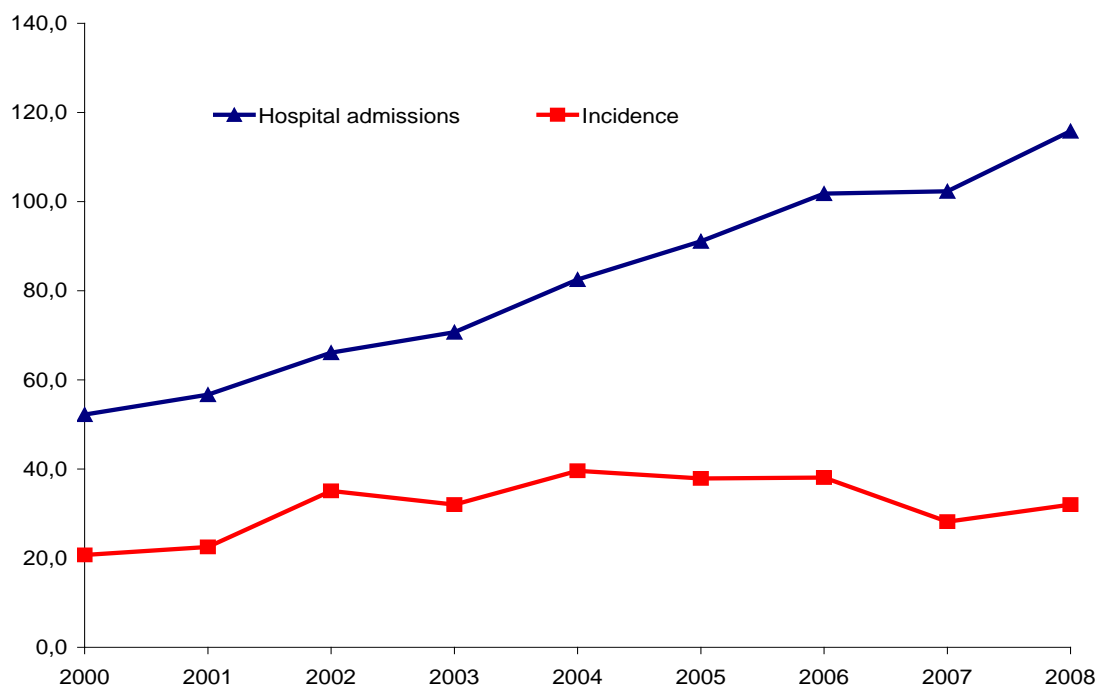


Figure 4. Acute myocardial infarction, rates per 100000 population, Georgia, 2000 – 2008

Table 1.

Diseases of the circulatory system, morbidity rates, Georgia, 2002– 2008							
Diseases of the circulatory system	2002	2003	2004	2005	2006	2007	2008
Prevalence	5322.4	5776.8	6494,8	7228.3	7720.8	8009.0	6993.3
Incidence	1299.6	1481.7	1616,1	1888.0	1891.0	1622.4	1696.7
<i>Including:</i>							
Rheumatic diseases							
Prevalence	356.3	358.8	350,6	378.8	471.2	455.8	341.7
Incidence	73.6	68.9	76,0	82.7	100.0	87.4	72.9
Hypertensive diseases							
Prevalence	2410.4	2730.6	3108,2	3620.5	3861.5	4142.9	3719,8
Incidence	569.9	686.4	801,9	950.7	917.4	803.5	814.0
Ischemic heart diseases							
Prevalence	1760.8	1875.7	1955,1	2213.2	2373.2	2239.8	1951.9
Incidence	400.1	441.0	449,8	545.7	569.9	427.5	429.8
Cerebrovascular diseases							
Prevalence	235.6	244.2	289,9	344.7	345.5	344.1	281.2
Incidence	82.8	91.3	107,8	111.3	116.9	88.2	101.3

Table 2.

Diseases of the circulatory system, morbidity rates in children, Georgia, 2002 – 2008							
Diseases of the circulatory system	2002	2003	2004	2005	2006	2007	2008
Prevalence	506.7	604.1	706,7	689.0	827.7	841.5	678.3
Incidence	144.2	204.7	176,2	174.0	218.0	156.5	166.2
<i>Including:</i>							
Rheumatic diseases							
Prevalence	229.5	262.2	236,8	263.9	403.9	387.5	308.2
Incidence	57.9	69.7	57,7	82.1	81.4	53.2	51.0
Hypertensive diseases							
Prevalence	4.3	4.6	5,5	6.1	6.3	5.9	6.5
Incidence	1.1	2.2	2,6	3.4	2.4	0.8	1.3
Cerebrovascular diseases							
Prevalence	0.0	0.1	0,7	2.4	8.1	3.6	1.7
Incidence	0.0	0.1	0,5	0.3	5.5	0.5	1.6

Table 3.

	Registered cases by the end of the year				New cases			
	All ages		In children		All ages		In children	
	Total	%	Total	%	Total	%	Total	%
	number		number		number		number	
All cases	306573	100	5102	100	74379	100	1250	100
<i>Including:</i>								
Acute rheumatic fever	4907	1.6	665	13,0	1307	1,8	265	21,2
<i>Including rheumatic fever with heart involvement</i>	2157	0.6	256	4.0	537	0.7	71	5.9
Chronic rheumatic heart diseases	10072	3.3	1653	32,4	1888	2,5	119	9,5
Hypertensive diseases	163068	52.2	49	1,0	35735	48,0	10	0,8
Ischaemic heart diseases	85569	27.9	0	0,0	18842	25,3	0	0,0
<i>Including:</i>								
<i>Angina pectoris</i>	27053	31,6	7344	39,0	27053	31,6	7344	39,0
<i>Acute myocardial infarction</i>	900	1,1	1404	7,5	900	1,1	1404	7,5
<i>Other acute ischaemic heart diseases</i>	8765	10,2	2971	15,8	8765	10,2	2971	15,8
<i>Pulmonary heart disease and diseases of pulmonary circulation</i>	1259	1,5	582	3,1	1259	1,5	582	3,1
<i>Other ischaemic heart diseases</i>	47592	55,6	6541	34,7	47592	55,6	6541	34,7
Cerebrovascular diseases	12329	4.0	13	0,3	4440	6,0	2	0,2
Diseases of arteries, arterioles and capillaries	4691	1.5	14	0,3	1498	2,0	12	1,0

Table 4.

Diseases of the circulatory system, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Number of registered cases	Prevalence	Number of new cases	Incidence	Number of registered cases	Prevalence	Number of new cases	Incidence
Tbilisi	124461	11226.9	15093	1361.4	125466	11133.9	14958	1351.6
Ajara	14498	3820.0	5376	1416.6	9728	2551.3	3806	998.2
Kakheti	32922	8175.3	6486	1610.6	27217	6775.4	8940	2225.5
Imereti	63336	9101.3	19151	2752.0	52255	7530.6	19954	2875.6
Samegrelo and Zemo Svaneti	29601	6314.2	5327	1136.3	25404	5429.4	5208	1113.1
Shida Kartli	16732	5342.3	4359	1391.8	12042	3848.5	4638	1482.3
Kvemo Kartli	15208	3016.9	3316	657.8	10783	2136.1	5386	1067.0
Guria	6134	1146.1	718	516.9	4525	3260.1	698	502.9
Samtskhe-Javakheti	11620	5586.5	3584	1725.1	6376	3066.8	3369	1620.5
Mtskheta-Mtianeti	9257	7818.4	2912	2459.5	6443	5455.5	2147	1818.0
Racha-Lechkhumi and Kvemo Svaneti	8367	17287.2	1512	3124.0	7312	15265.1	2004	4183.7
Abkhazia	18153	--	3134	--	18447	--	2887	--
Departments other than the MOLHSA	1179	--	230	--	575	--	384	--
Georgia	351468	8009.0	71198	1622.4	306573	6993.3	74379	1696.7

Table 5.

Hypertensive diseases, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Number of cases registered by the end of the year	Prevalence*	Number of new cases	Incidence	Number of cases registered by the end of the year	Prevalence*	Number of new cases	Incidence
Tbilisi	51092	4608.7	5728	516.7	55506	5015.5	5400	487.9
Ajara	5609	1478.0	3140	827.4	5652	1482.3	2226	583.8
Kakheti	13880	3446.7	2674	664.0	15276	3802.8	4810	1197.4
Imereti	29186	4194.0	9168	1317.4	30674	4420.5	8194	1180.9
Samegrelo and Zemo Svaneti	14672	3129.7	3073	655.5	15744	3364.8	2970	634.8
Shida Kartli	5263	1680.4	2461	785.8	5240	1674.7	2806	896.8
Kvemo Kartli	6207	1231.3	2313	458.8	6764	1339.9	3005	595.3
Guria	2874	2069.1	400	288.0	2535	1826.4	351	252.9
Samtskhe-Javakheti	4101	1971.6	1960	942.3	3636	1748.9	1603	771.0
Mtskheta-Mtianeti	4395	3712.0	1724	1456.1	4017	3401.4	1235	1045.7
Racha-Lechkhumi and Kvemo Svaneti	3244	6702.5	752	1553.7	4549	9496.9	1288	2688.9
Abkhazia	10125	--	1731	--	13068	--	1615	--
Departments other than the MOLHSA	376	--	137	--	407	--	182	--
Georgia	151024	3441.4	35261	803.5	163068	3719.8	35685	814.0

* Prevalence – total number of patients by the end of the year per 100000 population

Table 6.

Acute rheumatic fever and chronic rheumatic heart diseases, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Number of registered cases	Prevalence	Number of new cases	Incidence	Number of registered cases	Prevalence	Number of new cases	Incidence
Rheumatic diseases	20001	455.8	3834	87.4	14979	341.7	3195	72.9
	<i>Including:</i>							
Acute rheumatic fever	9668	219.8	2481	56.4	4907	111.9	1307	29.8
Including rheumatic fever with heart involvement	2724	61.9	462	10.5	1434	32.7	428	9.8
Chronic rheumatic heart diseases	11056	251.4	1919	43.6	10072	229.8	1888	43.1

Table 7.

Diseases of the circulatory system, hospital discharges and case fatality rates, Georgia, 2008

	Total number	Including in children	Case fatality rate (%)
All cases	42721	366	6.1
	<i>Including:</i>		
Acute rheumatic fever	294	107	0.7
Including rheumatic fever with heart involvement	205	100	1.0
Chronic rheumatic heart diseases	425	16	2.6
Hypertensive diseases	4068	0	1.9
Acute myocardial infarction	5078	0	9.5
Angina pectoris	8505	0	0.5
Other acute ischaemic heart diseases	2442	0	6.1
Chronic ischaemic heart disease	4823	0	2.5
Pulmonary heart disease and diseases of pulmonary circulation	342	0	33.6
Cerebrovascular diseases	6209	10	17.0
Including:			
Subarachnoid haemorrhage	1183	0	15.9
Intracerebral and other nontraumatic intracranial haemorrhages	1031	9	30.9
Cerebral infarction	1195	0	15.1
Occlusion and stenosis of precerebral and cerebral arteries, not resulting in cerebral infarction	270	0	8.9
Other cerebrovascular diseases	128	0	0.8

Table 8.

Diseases of the circulatory system, hospital discharges and case fatality rates by the regions, Georgia, 2008

	Total number of discharges	Including hospital deaths	Case fatality rate (%)
Ajara	3223	220	6.8
Tbilisi	22513	1394	6.2
Kakheti	2602	152	5.8
Imereti	6180	398	6.4
Samegrelo and Zemo Svaneti	2297	67	2.9
Shida Kartli	1489	83	5.6
Kvemo Kartli	1868	128	6.9
Guria	651	64	9.8
Samtskhe-Javakheti	533	55	10.3
Mtskheta-Mtianeti	585	28	4.8
Racha-Lechkhumi and Kvemo Svaneti	295	7	2.4
Abkhazia	269	6	2.2
Georgia	42721	2622	6.1

Table 9.

Surgical operations on the circulatory system, Georgia, 2005 - 2008

	2005		2006		2007		2008	
	Total	Case fatality rate (%)	Total	Case fatality rate (%)	Total	Case fatality rate (%)	Total	Case fatality rate (%)
Operations on the heart	1150	3.1	1308	2.2	831	3.6	1253	4.6
Including on open heart	232	4.3	230	4.3	428	4.2	732	5.2
due to congenital malformations	280	7.5	188	8.0	51	17.6	65	9.2
implantation of a cardio stimulator	159	0	180	0.5	183	1.1	250	0.8
endovascular balloon dilatation	366	0	614	0.3	145	0	195	1.0
Operations on the blood vessels	1518	2.2	1690	0.8	2466	1.3	3207	0.3
Including on arteries	419	6.7	334	1.5	437	0.9	315	0.6
on veins	709	0.1	557	0.3	595	0	951	0.1
On lymphatic vessel	22	0	11	0	23	4.3	76	0
endovascular	182	0.5	450	0	811	1.6	1449	0.3

Diseases of the Respiratory System

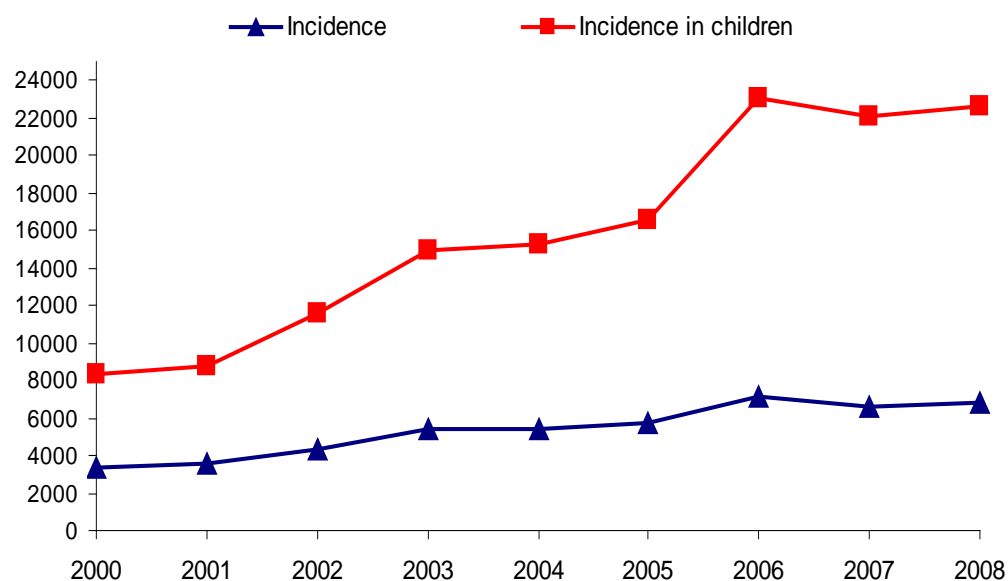


Figure 1. Incidence of diseases of the respiratory system, Georgia, 2000 - 2008

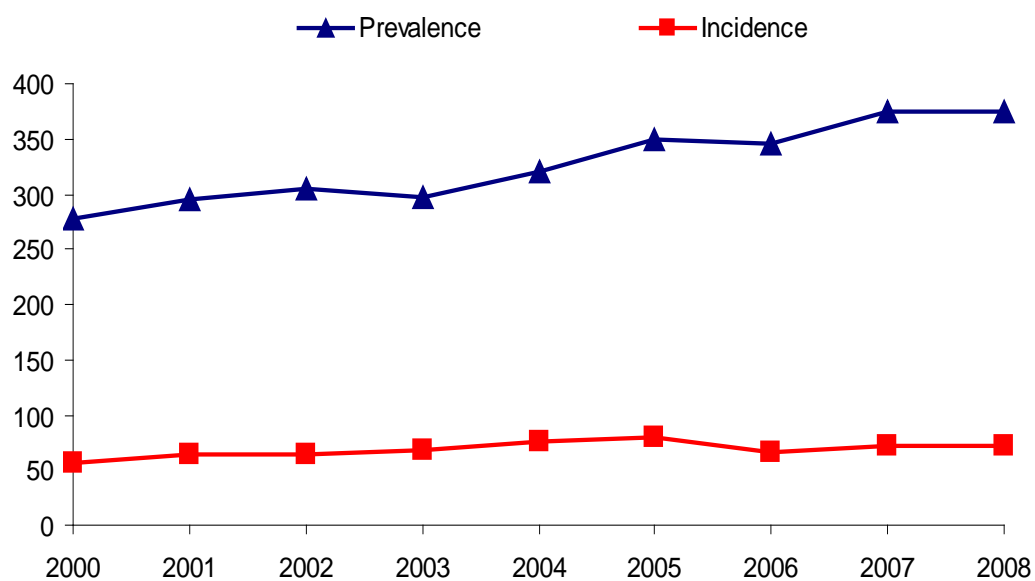


Figure 2. Bronchial asthma, morbidity rates, Georgia, 2000 - 2008

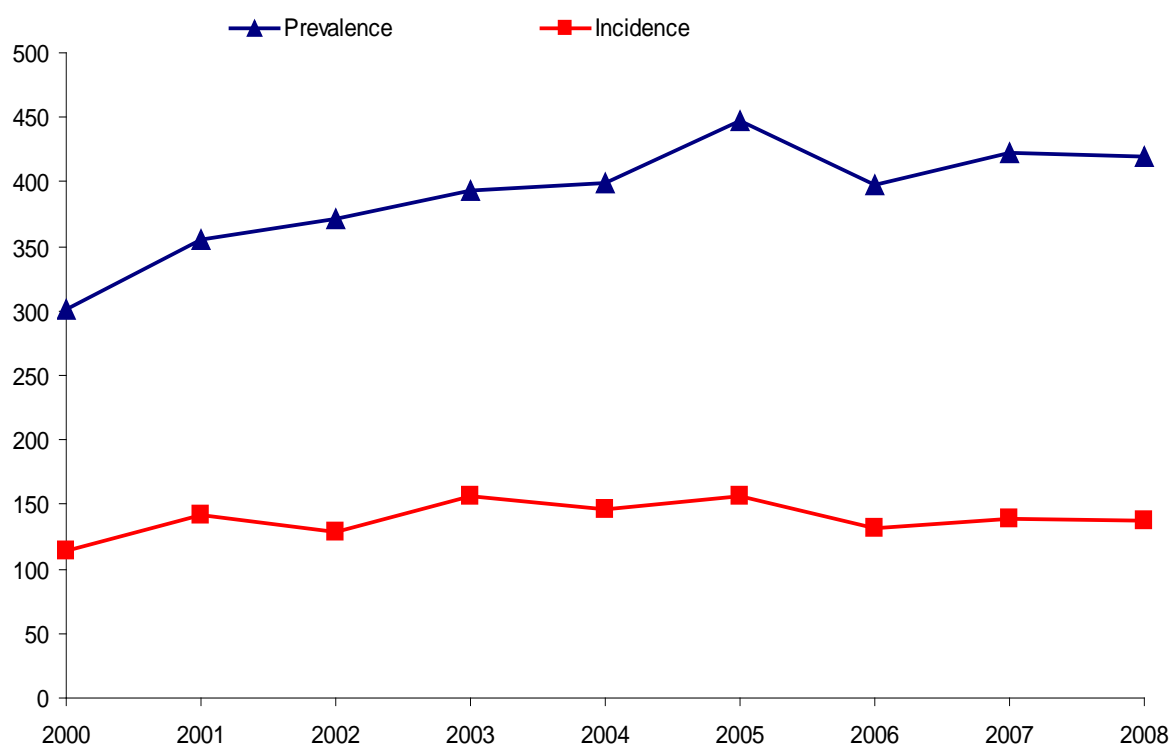


Figure 3. Chronic and unspecified bronchitis, morbidity rates, Georgia, 2000 - 2008

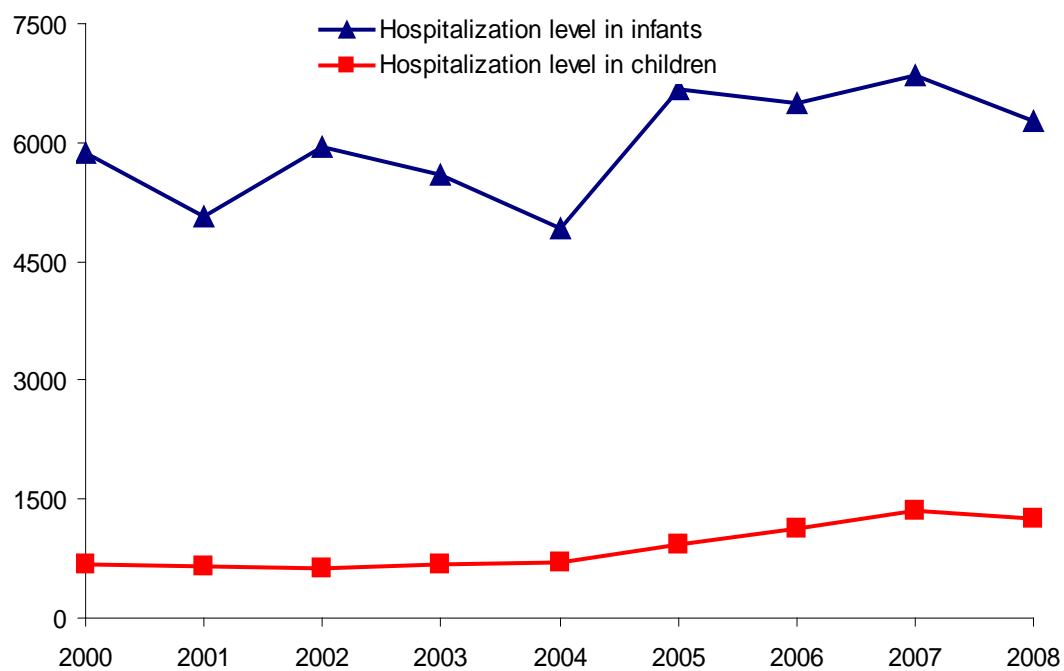


Figure 4. Pneumonia, hospitalization level per 100,000 children, Georgia, 2000 - 2008

Table 1.

Diseases of the respiratory system, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Prevalence		Incidence		Prevalence		Incidence	
	Total	In children	Total	In children	Total	In children	Total	In children
Ajara	5359,4	12750,6	4186,0	10990,2	4558,6	12213,1	3796,2	11115,7
Tbilisi	10124,2	37654,9	8693,2	34529,2	10295,5	35861,7	8590,4	32321,1
Kakheti	6818,0	18008,5	5630,2	17002,8	7634,3	20059,5	6526,5	19016,4
Imereti	7575,1	20949,0	6249,2	19174,7	8231,0	25383,4	7025,5	23709,6
Samegrelo and Zemo Svaneti	5386,5	10912,6	3654,7	8955,6	4974,6	10620,3	3440,5	8659,9
Shida Kartli	9333,3	32317,4	8417,0	30608,1	8184,1	25393,9	7418,3	24451,5
Kvemo Kartli	3698,5	11144,9	3043,4	10502,7	4275,0	12311,2	3646,8	11444,2
Guria	10126,0	29649,9	8726,4	27425,9	10803,3	31314,0	9613,1	29689,3
Samtskhe-Javakheti	7023,6	23756,9	6205,3	23289,3	6988,0	22163,7	6071,2	21538,7
Mtskheta-Mtianeti	10401,2	22004,8	9277,0	20763,3	9998,3	23098,2	9088,9	22284,2
Racha-Lechkumi and Kvemo Svaneti	9537,2	14231,7	7051,7	11264,8	8864,3	14306,6	7014,6	12554,7
Georgia	8000,3	24103,2	6580,8	22129,3	8276,5	24512,6	6838,8	22568,7

Table 2.

Diseases of the respiratory system, morbidity rates, Georgia, 2008

	All ages		In children	
	Prevalence	Incidence	Prevalence	Incidence
Diseases of the respiratory system	8276,5	6838,8	24512,6	22568,7
<i>Including:</i>				
Acute upper respiratory infections	4458,4	4384,1	16462,	16323,9
Pneumonia	463,1	434,4	923,0	854,6
Other lower respiratory infections	807,7	782,1	2362,3	2329,8
Other diseases of upper respiratory tract	1005,6	536,9	2654,9	1608,6
Including allergic rhinitis	195,8	103,6	381,4	225,6
Chronic lower respiratory diseases	965,1	268,8	750,9	306,2
Including: Chronic and not specified bronchitis	419,0	136,9	312,7	167,1
Emphysema	26,8	5,4	8,5	2,7
Asthma and status asthmaticus	375,1	72,7	60,8	78,2
Other chronic obstructive pulmonary disease	97,6	35,3	305,8	23,4
Bronchoectasis	7,2	2,4	1,5	0
Lung diseases due to external agents	10,8	2,8	11,4	4,5
Other respiratory diseases principally affecting the interstitium	14,3	5,4	10,4	3,9
Suppurative and necrotic conditions of lower respiratory tract	2,6	1,4	0,3	0
Other diseases of the respiratory system	138,0	54,6	170,8	112,9

Table 3.

Diseases of the respiratory system, distribution according to the nozologies , Georgia, 2008

	All ages				In children			
	Total number	%	New cases	%	Total number	%	New cases	%
Diseases of the respiratory system	362824		299800	100	184384	100	169762	100
			<i>Including:</i>					
Acute upper respiratory infections	195449	53,9	192192	64,1	123832	67,2	122788	72,3
Pneumonia	20300	5,6	19044	6,4	6943	3,8	6428	3,8
Other lower respiratory infections	35406	9,8	34286	11,4	17769	9,6	17525	10,3
Other diseases of upper respiratory tract	44085	12,2	23536	7,9	19970	10,8	12100	7,1
Including allergic rhinitis	8585	2,4	4540	1,5	2869	1,6	1697	1,0
Chronic lower respiratory diseases	42307	11,7	11784	3,9	5648	3,1	2303	1,4
Including: Chronic and not specified bronchitis	18370	5,1	6003	2,0	2352	1,3	1257	0,7
Emphysema	1173	0,3	236	0,1	64	0,03	20	0,0
Asthma and status asthmaticus	16443	4,5	3189	1,1	2300	1,2	588	0,3
Other chronic obstructive pulmonary disease	4278	1,2	1548	0,5	457	0,3	176	0,1
Bronchoectasis	314	0,1	106	0,04	11	0,0	0	0,0
Lung diseases due to external agents	473	0,1	124	0,04	86	0,1	34	0,0
Other respiratory diseases principally affecting the interstitium	627	0,2	238	0,1	78	0,04	29	0,0
Suppurative and necrotic conditions of lower respiratory tract	113	0,03	63	0,02	2	0,0	0	0,0
Other diseases of the respiratory system	6048	1,7	2395	0,8	1285	0,7	849	0,5

Table 4.

Asthma and status asthmatikus, morbidity rates by the regions, Georgia, 2008

	Total number		Prevalence	
	All ages	In children	All ages	In children
Ajara	1305	365	342,3	557,8
Tbilisi	4771	748	431,1	393,9
Kakheti	1217	69	303,0	100,1
Imereti	3182	524	458,6	440,1
Samegrelo	1960	283	418,9	352,5
Shida Kartli	779	23	249,0	42,8
Kvemo Kartli	877	64	173,7	73,9
Guria	733	136	528,1	570,9
Samtskhe-Javakheti	8	0	3,8	0,0
Mtskheta-Mtianeti	303	9	256,6	44,4
Racha-Lechkhumi and Kvemo Svaneti	260	14	542,8	170,3
Georgia	16443	2300	375,1	305,8

Table 5.

Diseases of the respiratory system, hospital discharges and case fatality rates, Georgia, 2008

	All ages		Including in children			
	Number of hospital discharges	Case fatality rate %	0 – 15 years of age		Infants	
			Number of hospital discharges	Case fatality rate %	Number of hospital discharges	Case fatality rate %
Diseases of the respiratory system	56649	0,7	37494	0,3	10937	0,9
<i>Including:</i>						
Acute upper respiratory infections	15365	0,2	13704	0,1	4569	0,1
Flue	2148	0,2	1896	0	372	0
Pneumonia	16240	0,8	9524	0,2	3255	0,3
Other lower respiratory infections	4518	0	4015	0	1503	0
Other diseases of upper respiratory tract	6866	0	4555	0	322	0
Including allergic rhinitis	157	0	113	0	0	0
Chronic lower respiratory diseases	3878	0,9	1058	0	217	0
Including: Chronic and not specified						
bronchitis	1483	0,2	680	0	204	0
Emphysema	15	6,7	0	0	0	0
Asthma and status asthmaticus	1160	0,6	215	0	2	0
Other chronic obstructive pulmonary disease	936	2,5	53	0	11	0
Bronchoectasis	7	0,6	1	0	0	0
Lung diseases due to external agents	23	4,3	0	0	0	0
Other respiratory diseases principally affecting the interstitium	182	15,9	0	0	0	0
Suppurative and necrotic conditions of lower respiratory tract	251	0,8	22	0	0	0
Other diseases of the respiratory system	1321	11,3	577	17,7	242	33,9

Table 6.

Surgical operations on the respiratory system, Georgia, 2008

	Number of surgeries	Including in children	Number of post-operation deaths	Case fatality rate (%)
Operations on the respiratory system organs	1564	640	11	0,7
<i>Including:</i>				
<i>on the tonsil</i>	86	0	5	5,8
<i>pulmonectomy</i>	115	6	1	0,9
<i>resection of a part of the lung</i>	87	0	0	0
<i>resection of a segment of the lung</i>	354	7	1	0,3
<i>on the larynx</i>	40	0	0	0
<i>resection of the trachea</i>	7	0	0	0
<i>resection of the pleura</i>	35	2	0	0

Diseases of the Digestive System

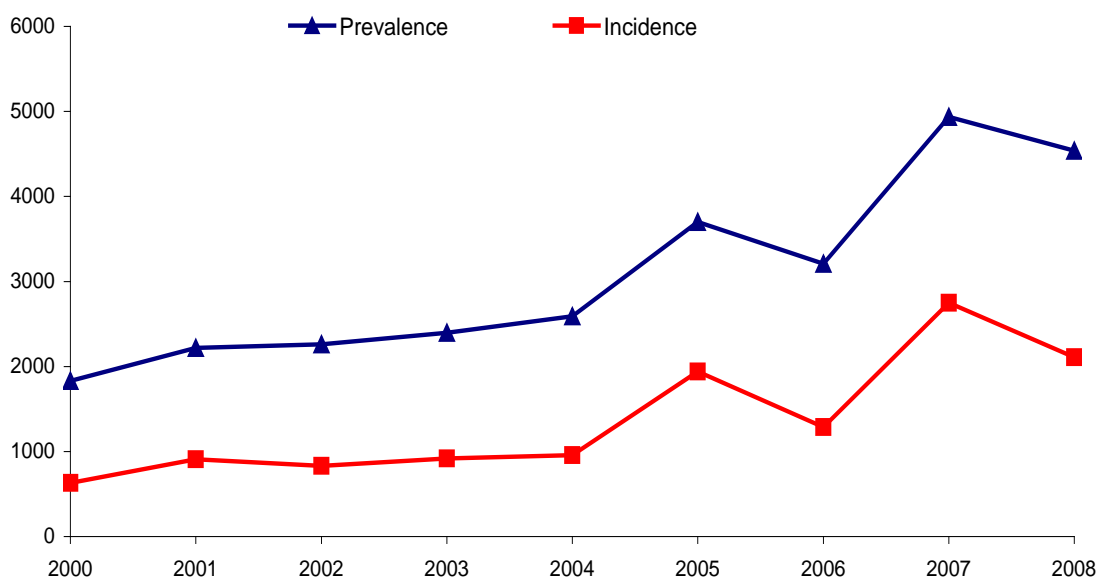


Figure 1. Diseases of the digestive system, morbidity rates, Georgia, 2000 - 2008

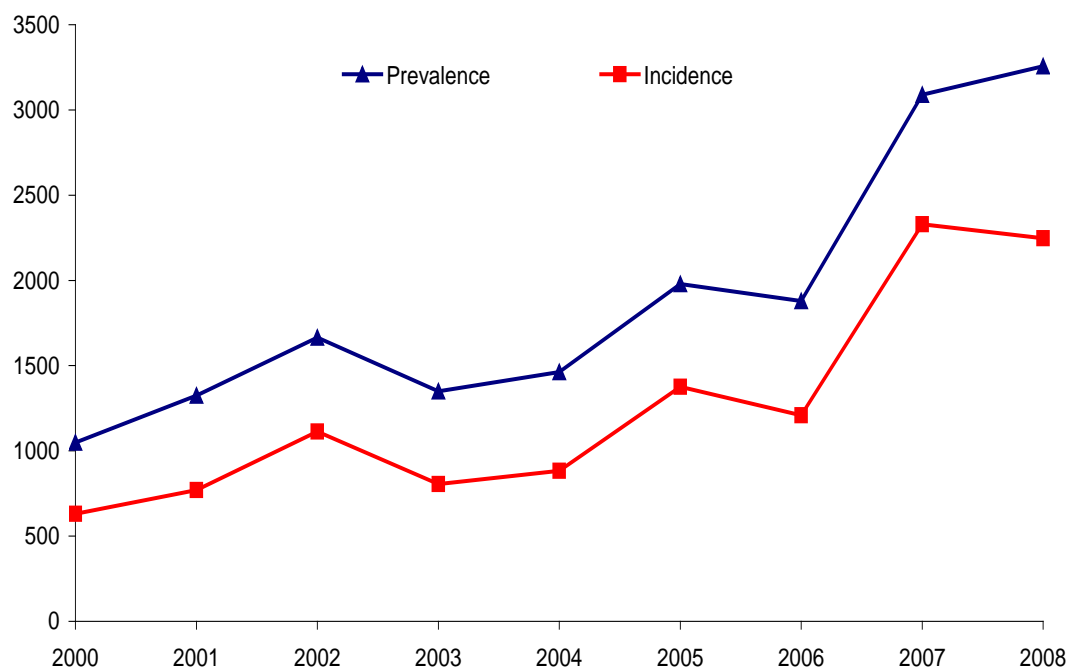


Figure 2. Diseases of the digestive system, morbidity rates in children, Georgia, 2000 - 2008

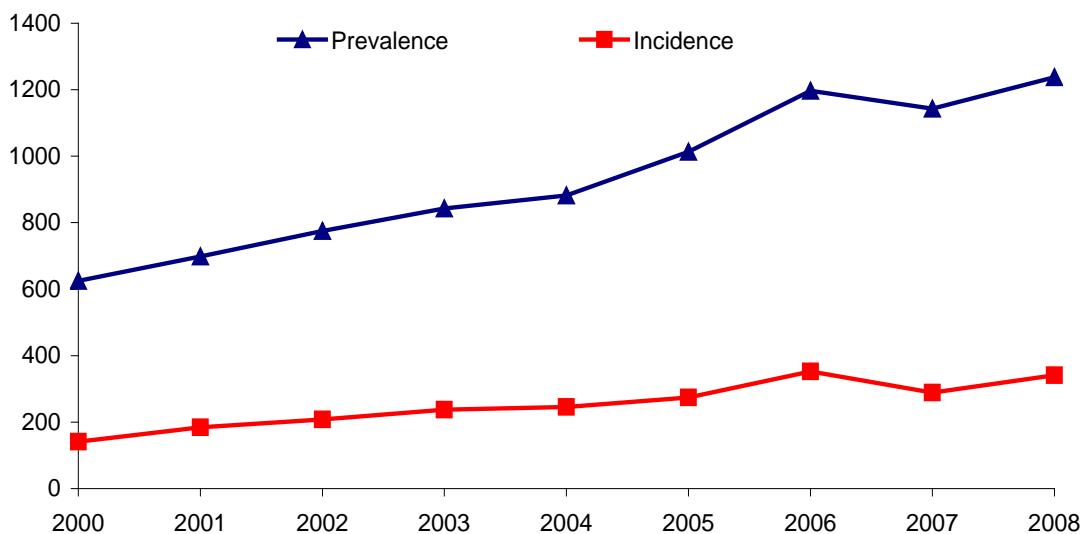


Figure 3. Diseases of gallbladder, biliary tracts and pancreas, morbidity rates, Georgia, 2000 – 2008

Table 1.

Diseases of the digestive system, morbidity rates, Georgia, 2002 - 2008

	2002	2003	2004	2005	2006	2007	2008
Number of registered cases, all ages	98854	103803	113272	161769	141047	216640	198957
Number of registered cases in children	15249	11414	13398	18123	14926	23700	24501
Prevalence rate	2261,3	2397,9	2591,1	3700,5	3207,1	4936,7	4538,5
Prevalence rate in children	1664,7	1350,0	1462,8	1978,6	1878,7	3089,2	3257,2
Number of new cases, all ages	36380	39759	41885	84876	56599	120659	92400
Number of new cases in children	10193	6813	8085	12609	9605	17872	16901
Incidence rate	832,2	918,5	958,1	1941,6	1286,9	2749,5	2107,8
Incidence rate in children	1112,8	805,8	882,7	1376,6	1208,9	2329,5	2246,9

Table 2.

Diseases of the digestive system, prevalence rates of the certain diseases, Georgia, 2008

	Total number of registered cases, all ages	Prevalence	Including in children Total number of registered cases	Prevalence
All diseases	198957	4538,5	24501	3257,2
Including:				
Diseases of oesophagus, stomach and duodenum	55805	1273,0	3949	525,0
Including gastric, duodenal, peptic and gastrojejunal ulcers	18150	414,0	208	27,7
Gastritis and duodenitis	34699	791,5	2919	388,1
Disorders of gallbladder, biliary tract and pancreas	54284	1238,3	3411	453,5
Including cholelithiasis and cholecystitis	40002	912,5	2138	284,2
Acute pancreatitis and other disorders of pancreas	2270	51,8	26	3,5

Table 3.

Diseases of the digestive system, incidence rates of the certain diseases, Georgia, 2008

	Total number of registered cases, all ages	Prevalence	Including in children	
			Total number of registered cases	Prevalence
All diseases	92400	2107,8	16901	2246,9
<i>Including:</i>				
Diseases of oesophagus, stomach and duodenum	16957	386,8	2376	315,9
Including gastric, duodenal, peptic and gastrojejunal ulcers	4146	94,6	84	11,2
Gastritis and duodenitis	11653	265,8	1792	238,2
Disorders of gallbladder, biliary tract and pancreas	14966	341,4	1671	222,1
Including cholelithiasis and cholecystitis	10749	245,2	1044	138,8
Acute pancreatitis and other disorders of pancreas	1013	23,1	17	2,3

Table 4.

Diseases of the digestive system, incidence rates by the regions, Georgia, 2007 – 2008

	2007				2008			
	Number of new cases	Incidence	Including in children		Number of new cases	Incidence	Including in children	
			Number of new cases	Incidence			Number of new cases	Incidence
Abkhazia	3902	--	610	--	4684	--	953	--
Ajara	3346	881.7	754	1136.4	2469	647,5	589	900,2
Tbilisi	85012	7668.4	11988	6185.4	55084	4977,3	10940	5760,6
Kakheti	3576	888.0	661	938.9	4548	1132,2	660	957,5
Imereti	6713	964.7	1149	944.4	7376	1063,0	1283	1077,5
Samegrelo and Zemo Svaneti	5268	1123.7	834	1017.6	5230	1117,8	909	1132,1
Shida Kartli	4081	1303.0	579	1057.3	3799	1214,1	460	856,8
Kvemo Kartli	3045	604.0	395	448.2	3166	627,2	335	386,7
Guria	712	512.6	292	1202.6	878	632,6	340	1427,4
Samtskhe-Javakheti	2342	1126.0	283	778.3	2242	1078,4	94	263,5
Mtskheta-Mtianeti	1509	1274.5	268	1294.7	1529	1294,7	258	1272,8
Racha-Lechkhumi and Kvemo Svaneti	863	1783	56	661.9	876	1828,8	75	912,4
Departments other than the MoLHSA	0	--	0	--	519	--	5	--
Georgia	120659	2749.5	17872	2329.5	92400	2107,8	16901	2246,9

Table 5.

Diseases of the digestive system, hospital discharges and case fatality rates according to the certain groups of diseases, Georgia, 2008

	Number of hospital discharges, all ages	Case fatality rate %	Number of hospital discharges, children	Case fatality rate %
<i>Including:</i>				
Gastric, duodenal, peptic and gastrojejunal ulcers	2349	3,2	7	0
Gastritis and duodenitis	1209	2,4	122	0
Disorders of gallbladder, biliary tract and pancreas	5910	0,9	118	0

Table 6.

Diseases of the digestive system, hospital discharges and case fatality rates by the regions, Georgia, 2007 – 2008

	2007				2008			
	All ages		Including in children		All ages		Including in children	
	Number of hospital discharges	Case fatality rate	Number of hospital discharges	Case fatality rate	Number of hospital discharges	Case fatality rate	Number of hospital discharges	Case fatality rate
Abkhazia	49	0	0	0	36	0	0	0
Ajara	2476	2.2	407	0	2460	2,3	315	0
Tbilisi	12791	1.6	1534	0.3	13642	2,1	1615	0,4
Kakheti	1727	1.7	198	0	1974	1,9	298	0
Imereti	5049	1.4	344	0	5040	1,5	202	0
Samegrelo and Zemo Svaneti	1417	2.1	131	0	1718	0,6	149	0
Shida Kartli	1732	1.2	154	0	2099	1,0	327	0
Kvemo Kartli	1972	1.6	394	0	2376	1,2	316	0
Guria	785	1.9	201	0	706	1,0	109	0
Samtskhe-Javakheti	591	1.3	94	0	707	0,7	121	0
Mtskheta-Mtianeti	191	1.1	12	0	723	1,1	1	0
Racha-Lechkhumi and Kvemo Svaneti	335	2.1	10	0	346	0,3	14	0
Departments other than the MoLHSA	310	0	1	0	519	1,0	0	0
Georgia	29425	1.6	3479	0.1	32346	1,7	3467	0,2

Diseases of the Genitourinary System

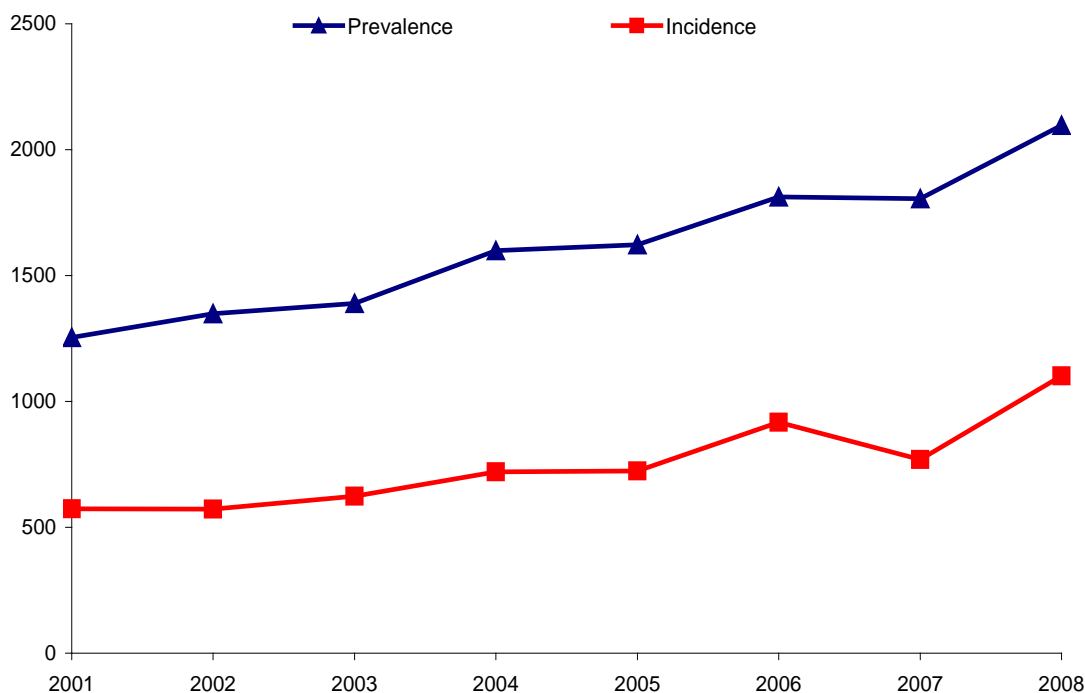


Figure 1. Diseases of the genitourinary system, prevalence and incidence rates per 100000 population, Georgia, 2001-2008

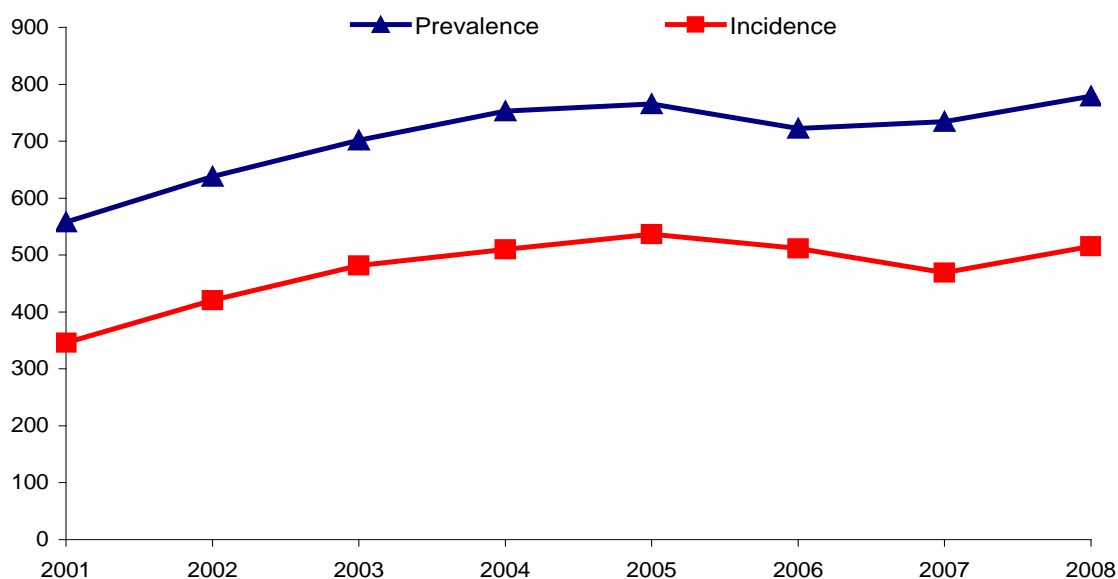


Figure 2. Diseases of the genitourinary system in children, prevalence and incidence rates per 100000 children, Georgia, 2001-2008

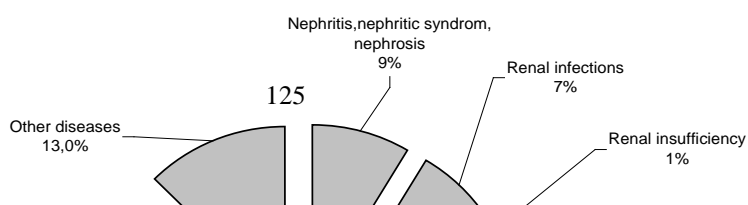


Figure 3. Diseases of the genitourinary system, distribution of registered cases according to the certain diseases, Georgia, 2008

Table 1.

Diseases of the genitourinary system, prevalence and incidence rates, Georgia, 2002-2008

	2002	2003	2004	2005	2006	2007	2008
Total number of registered cases, all ages	58945	60127	69913	70913	79722	79233	91904
Prevalence rate per 100000 population	1348.4	1389.0	1599.3	1622.2	1812,7	1805,5	2096,4
Total number of new cases, all ages	25000	27001	31485	31644	40356	33772	48298
Incidence rate per 100000 population	571.9	623.7	720,2	723.9	917,6	769,6	1101,7
	Including:						
Total number of registered cases in children	5841	5932	6895	7013	6136	5635	5861
Prevalence rate per 100000 children	637.7	701.6	752.8	765.7	772,3	734,5	779,2
Total number of new cases in children	3852	4073	4671	4914	4064	3599	3878
Incidence rate per 100000 children	420.5	481.7	510,0	536.5	511,5	469,1	515,6

Table 2.

Diseases of the genitourinary system (prevalence and incidence rates per 100000 population) by the regions, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Abkhazia	7612	--	2798	--	9618	--	4097	--
Ajara	9725	2562,6	3531	930,4	6548	1717,3	3355	879,9
Tbilisi	17488	1577,5	6884	621,0	22477	2031,0	10855	980,8
Kakheti	6348	1576,4	2777	689,6	6977	1736,9	3505	872,5
Imereti	11686	1679,3	5677	815,8	15137	2181,4	8923	1285,9
Samegrelo	9138	1949,2	3583	764,3	9348	1997,9	4533	968,8
Shida Kartli	3877	1237,9	2161	690,0	4181	1336,2	2528	807,9
Kvemo Kartli	4355	863,9	2065	409,6	6972	1381,1	4932	977,0
Guria	2037	1466,5	1000	719,9	2279	1641,9	1223	881,1
Samtskhe – Javakheti	3401	1635,1	1501	721,6	3865	1859,1	2061	991,3
Mtskheta – Mtianeti	1748	1476,4	921	777,9	1914	1620,7	1022	865,4
Racha – Lechkhumi	1319	2725,2	619	1278,9	1285	2682,7	379	791,2
Departments other than the MOLHSA	499	--	255	--	1303	--	885	--
Georgia	79233	1805,5	33772	769,6	91904	2096,4	48298	1101,7

Table 3.

Diseases of the genitourinary system in children (prevalence and incidence rates per 100000 children) by the regions, Georgia, 2007-2008

	2007				2008			
	Number of cases	Prevalence rate	New cases	Incidence rate	Number of cases	Prevalence rate	New cases	Incidence rate
Abkhazia	717	--	329	--	684	--	380	--
Ajara	432	651,1	259	390,4	442	675,5	252	385,1
Tbilisi	1860	959,7	1194	616,1	2276	1198,5	1551	816,7
Kakheti	359	509,9	255	362,2	374	542,6	231	335,1
Imereti	803	660,0	543	446,3	609	511,5	409	343,5
Samegrelo	368	449,0	165	201,3	365	454,6	172	214,2
Shida Kartli	502	916,7	433	790,7	499	929,4	426	793,4
Kvemo Kartli	167	189,5	90	102,1	182	210,1	94	108,5
Guria	307	1264,4	264	1087,3	341	1431,6	295	1238,5
Samtskhe – Javakheti	50	137,5	17	46,8	31	86,9	15	42,0
Mtskheta – Mtianeti	50	241,5	38	183,6	48	236,8	46	226,9
Racha – Lechkhumi	17	200,9	9	106,4	6	73,0	3	36,5
Departments other than the MOLHSA	3	--	3	--	4	--	4	--
Georgia	5635	734,5	3599	469,1	5861	779,2	3878	515,6

Table 4.

Certain diseases of the genitourinary system (prevalence and incidence rates per 100000 population), Georgia, 2008*

	Number of cases	Prevalence	New cases	Incidence
Total number	91904	2096,4	48298	1101,7
<i>Including:</i>				
Nephritis, nephrosis, nephritic syndrome	7989	182,2	2866	65,4
Renal infections	6444	147,0	2298	52,4
Renal insufficiency	1283	29,3	541	12,3
Renal and urethral calculi	10607	242,0	3717	84,8
Male genital organ disorders	13224	635,9	7094	341,1
<i>Including:</i> Prostate hyperplasia	4971	362,8	3717	180,9
Prostate inflammatory diseases	3924	286,4	7094	144,6
Male infertility	549	40,1	198	14,4
Female genital organs disorders	40855	1773,1	23154	1004,9
<i>Including :</i> Salpingitis, Oophoritis	7616	330,5	4511	195,8
Endometriosis	1840	79,9	1001	43,4
Cervical erosion and ectropion	7406	630,5	3902	332,2
Menstrual disorders	7049	600,1	3953	336,5
Menopause and other paramenopausal disorders	4944	420,9	2690	229,0
Female infertility	2718	231,4	1125	95,8

* Rates are calculated using target population by sex

Table 5.

Certain diseases of the genitourinary system in children (prevalence and incidence rates per 100000 children), Georgia, 2008

	Number of cases	Prevalence rate	New cases	Incidence rate
Diseases of the genitourinary system	5861	779,2	3878	515,6
Nephritis, nephrosis, nephritic syndrome	951	126,4	457	60,8
Renal infections	1084	144,1	498	66,2
Renal insufficiency	34	4,5	5	0,7
Renal and urethral calculi	97	12,9	43	5,7
Male genital organ disorders	1233	311,8	1035	261,8
<i>Including:</i>				
Prostate hyperplasia	8	2,0	4	1,0
Prostate inflammatory diseases	6	1,5	2	0,5
Female genital organs disorders	268	75,1	217	60,8
<i>Including:</i>				
Salpingitis, Oophoritis	9	2,5	6	1,7
Endometriosis	0	0	0	0
Cervical erosion and ectropion	1	0,3	0	0
Menstrual disorders	147	41,2	111	31,1

Table 6.

Diseases of the genitourinary system, hospitalization and case fatality rate by the regions, Georgia, 2008

	Number of discharges	Including hospital deaths	Case fatality rate %	Including children <15 years		
				Number of discharges	Including hospital deaths	Case fatality rate %
Abkhazia	29	0	-	0	0	0,0
Ajara	1344	8	0,6	220	0	0,0
Tbilisi	6069	76	1,3	619	1	0,2
Kakheti	770	6	0,8	27	0	0,0
Imereti	2098	18	0,9	116	1	0,9
Samegrelo	560	1	0,2	61	0	0,0
Shida Kartli	800	1	0,1	50	0	0,0
Kvemo Kartli	550	0	0,0	10	0	0,0
Guria	89	0	0,0	31	0	0,0
Samtskhe – Javakheti	95	0	0,0	4	0	0,0
Mtskheta – Mtianeti	235	3	1,3	0	0	0,0
Racha – Lechkhumi	85	0	0,0	20	0	0,0
Departments other than the MOLHSA	131	0	0,0	0	0	0,0
Georgia	12855	113	0,9	1156	2	0,2

Table 7.

Certain diseases of the genitourinary system, hospitalization and case fatality rate, Georgia, 2008

	Number of discharges	All ages		Children <15 years	
		Including hospital deaths	Case fatality rate %	Number of discharges	Case fatality rate %
All ages	12855	113	0,9	1156	0,2
<i>Including:</i>					
Nephritis, nephrosis, nephritic syndrome	997	14	1,4	226	0,4
Renal infections	375	0	0,0	48	0
Renal and urethral calculi	893	5	0,6	14	0
Prostate disorders	1441	10	0,7	13	0

Table 8.

Surgical operations of diseases of the genitourinary system, Georgia, 2008

	Total number of operations	Including children	Number of deaths	Case fatality rate %
Total number of operations	48004	782	22	0,05
Operations on kidneys and ureter	2620	291	9	0,35
<i>Including:</i>				
Kidney transplantation	7	0	1	14,3
Resection of kidney	110	0	0	0,0
Nephrectomy	358	11	2	0,6
On ureters	158	5	0	0,0
On bladder	902	67	3	0,4
On urethra	403	101	0	0,0
Operations on prostata	1097	10	1	0,1
Orchectomy	397	19	0	0,0
Operations on female genital organs	8543	16	5	0,1
<i>Including:</i>				
Uteri DNC	1859	0	0	0,0
Female sterilization	197	0	0	0,0
Amputation of uteri	1635	0	2	0,1
Extirpation of uteri	2685	0	3	0,1
Ovarian resection	789	9	0	0,0
Ovarectomia	655	4	0	0,0
Excision tissue of female external genital organs	230	0	0	0,0
Obstetrical - gynecological operations	32159	33	1	0,0

Injury, Poisoning and Certain Other Consequences of External Causes

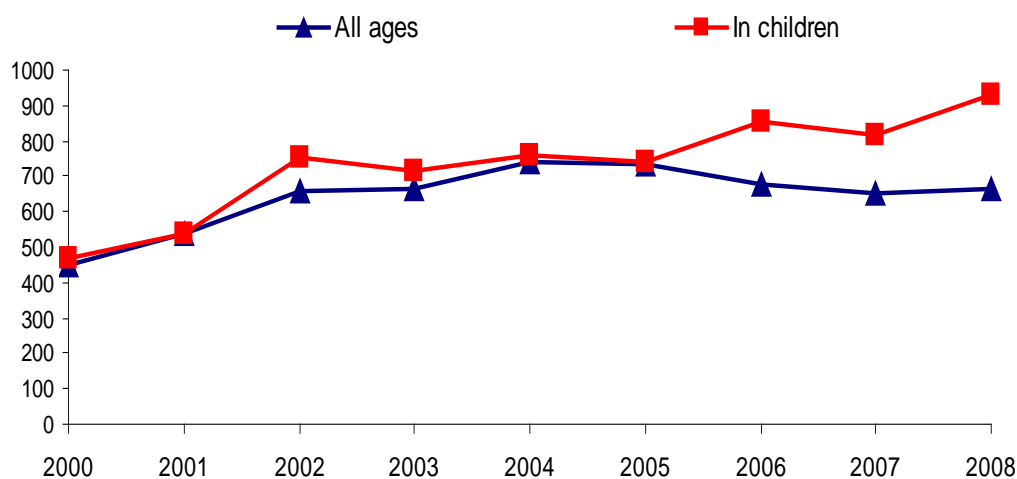


Figure 1. Injury, poisoning and certain other consequences of external causes, incidence rates, Georgia, 2000 – 2008

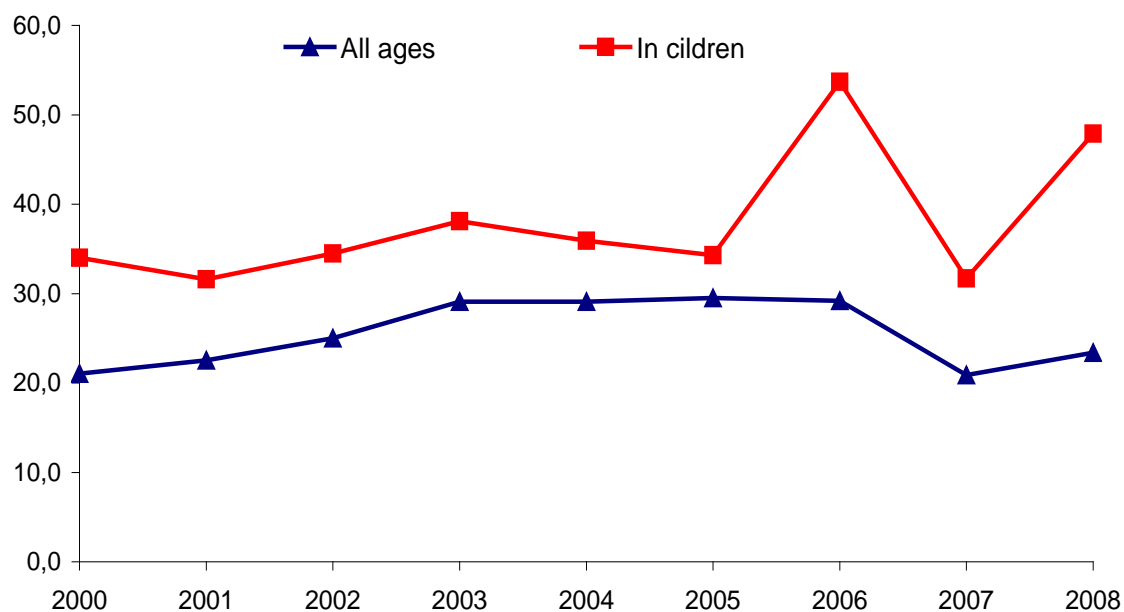


Figure 2. Burns and corrosions, incidence rates, Georgia, 2000 – 2008

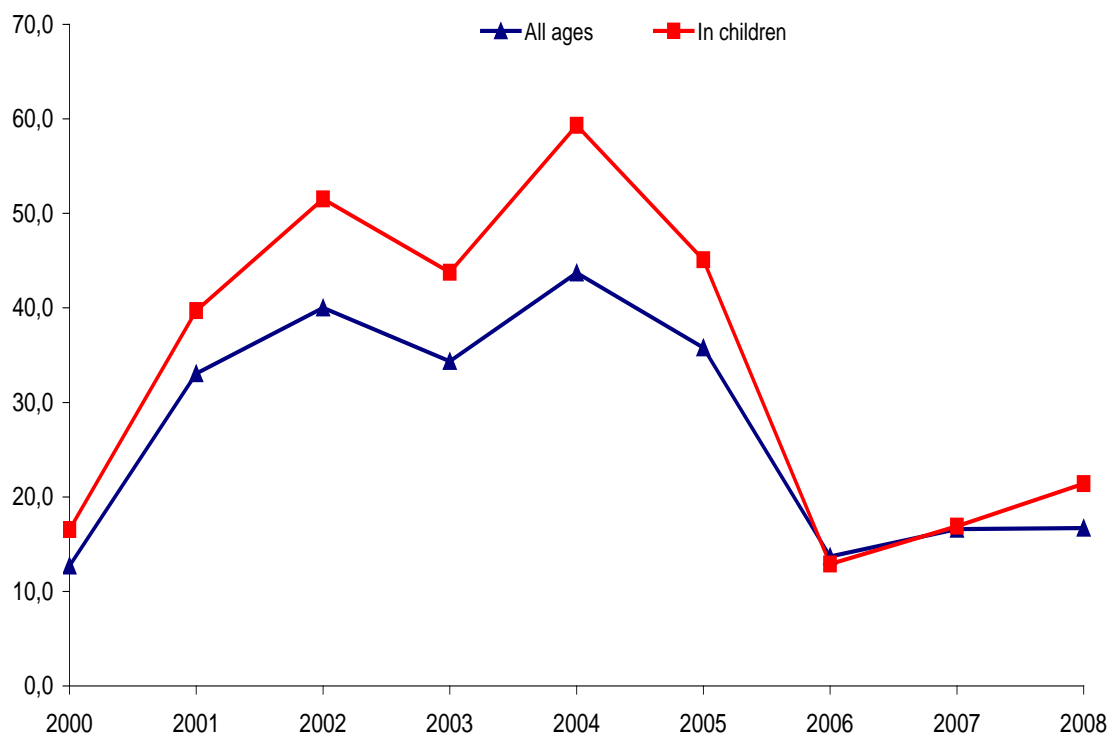


Figure 3. Poisoning by drugs, medicaments and biological substances, toxic effects of substances chiefly nonmedical as to source, incidence rates, Georgia, 2000 - 2008

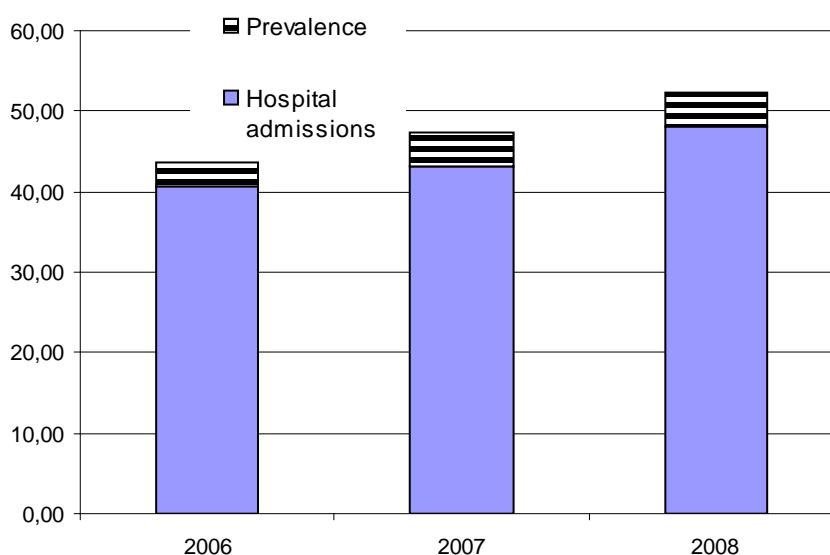


Figure 4. Toxic effects of substances chiefly nonmedicinal as to source, prevalence and hospital admissions rate, Georgia, 2006 - 2008

Table 1.

Injury, poisoning and certain other consequences of external causes, incidence rates and case distribution, Georgia, 2008

	All ages			In children		
	New cases	Incidence	%	New cases	Incidence	%
Injury, poisoning and certain other consequences of external causes	29201	666,1	100	6978	927,7	100
<i>Including:</i>						
Fracture of skull and facial bones, neck, ribs, sternum and spine	764	17,4	2,6	131	17,4	1,9
Intarcranial injury	613	14,0	2,1	46	6,1	0,7
Injuries to upper and lower limbs	3801	86,7	13,0	899	119,5	12,9
Dislocation, sprain and strain of joints and ligaments	3670	83,7	12,6	907	120,6	13,0
Injuries to the thorax, intra-abdominal and pelvic organs	523	11,9	1,8	38	5,1	0,5
Wounds, injuries of blood vessels, superficial injuries	16255	370,8	55,7	3902	518,7	55,9
Injuries of nerves and spinal cord	153	3,5	0,5	46	6,1	0,7
Burns and corrosions	1025	23,4	3,5	360	47,9	5,2
Poisoning by drugs, medicaments and biological substances, toxic effects of substances chiefly nonmedical as to source	730	16,7	2,5	161	21,4	2,3
<i>Including: Poisoning by drugs, medicaments and biological substances</i>	317	7,2	1,1	54	7,2	0,8
Toxic effects of substances chiefly nonmedical as to source	169	3,9	0,6	24	3,2	0,3

Table 2.

Injury, poisoning and certain other consequences of external causes, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Registered cases	Prevalence rate	New cases	Incidence rate	Registered cases	Prevalence rate	New cases	Incidence rate
Abkhazia	--	--	--	--	1662	--	1637	--
Ajara	3303	870,4	2754	725,7	2410	632,0	2384	625,2
Tbilisi	4042	364,6	2920	263,4	5368	485,0	4367	394,6
Kakheti	2935	728,8	2527	627,5	3121	776,9	2988	743,8
Imereti	5454	783,7	5251	754,6	5365	773,2	5193	748,4
Samegrelo and Zemo Svaneti	2958	631,0	2797	596,6	2889	617,4	2767	591,4
Shida Kartli	3468	1107,3	3132	1000,0	1930	616,8	1897	606,3
Kvemo Kartli	2402	476,5	2299	456,1	2051	406,3	1930	382,3
Guria	1716	1235,4	1683	1211,7	1909	1375,4	1866	1344,4
Samtskhe-Javakheti	1839	884,1	1612	775,0	1610	774,4	1508	725,3
Mtskheta-Mtianeti	1295	1093,8	1097	926,5	965	817,1	860	728,2
Racha-Lechkhumi and Kvemo Svaneti	850	1756,2	836	1727,3	788	1645,1	786	1640,9
Department other than MoLHA	--	--	--	--	1020	--	1018	--
Georgia	32318	736,4	28715	654,3	31088	709,2	29201	666,1

Table 3.

Injury, poisoning and certain other consequences of external causes in children, morbidity rates by the regions, Georgia, 2007 - 2008

	2007				2008			
	Registered cases	Prevalence rate	New cases	incidence	Registered cases	Prevalence rate	New cases	Incidence
Abkhazia	--	--	--	--	188	--	179	--
Ajara	1607	2422,0	1323	1994,0	1240	1895,2	1239	1893,6
Tbilisi	805	415,4	731	377,2	1232	648,7	1108	583,4
Kakheti	595	845,2	577	819,6	893	1295,5	883	1281,0
Imereti	1217	1000,3	1192	979,8	1204	1011,2	1162	975,9
Samegrelo and Zemo Svaneti	485	591,8	451	550,3	603	751,0	570	709,9
Shida Kartli	448	818,1	420	767,0	322	599,7	309	575,5
Kvemo Kartli	357	405,1	325	368,8	418	482,6	379	437,5
Guria	481	1981,1	474	1952,2	588	2468,5	584	2451,7
Samtskhe-Javakheti	359	987,3	323	888,3	323	905,3	302	846,4
Mtskheta-Mtianeti	282	1362,3	229	1106,3	166	818,9	142	700,5
Racha-Lechkhumi and Kvemo Svaneti	81	957,4	78	922,0	118	1435,5	118	1435,5
Department other than MoLHA	0	--	0	--	3	--	3	--
Georgia	6918	901,7	6279	818,4	7298	970,2	6978	927,7

Table 4.

Injury, poisoning and certain other consequences of external causes, hospital discharges and case fatality rates, Georgia, 2007- 2008

	2007				2008			
	All ages		Including children		All ages		Including children	
	Number of hospital discharges	Case fatality rate %	Number of hospital discharges	Case fatality rate %	Number of hospital discharges	Case fatality rate %	Number of hospital discharges	Case fatality rate %
Injury, poisoning and certain other consequences of external causes	22669	2,5	3061	0,4	23754	2,7	2684	1,2
	<i>Including:</i>							
Fractures	6295	2,2	819	0,5	7355	2,5	789	1,0
Burns and corrosions	502	10,0	234	0	601	6,8	247	1,2
Poisoning by drugs, medicaments and biological substances	1708	0,7	258	0	2286	0,6	217	0
Toxic effects of substances chiefly nonmedical as to source	1891	1,0	157	0	2104	0,5	281	0

Table 5.

Health and health care, Georgia, 2008

Injury, poisoning and certain other consequences of external causes, hospital discharges and case fatality rates by the regions, Georgia, 2008

	All ages			Including children			
	Number of hospital discharges	Including deaths	Case fatality rate %	Number of hospital discharges	Including deaths	Case fatality rate (%)	
						All children	In infants
Ajara	2000	42	2,1	275	4	1,5	0
Tbilisi	12339	282	2,3	1645	19	1,2	1,0
Kakheti	1215	43	3,5	112	0	0	0
Imereti	3039	117	3,9	330	4	1,2	6,7
Samegrelo and Zemo Svaneti	1580	69	4,4	104	5	4,8	0
Shida Kartli	1160	33	2,8	118	0	0	0
Kvemo Kartli	761	8	1,1	50	0	0	0
Guria	485	13	2,7	14	0	0	0
Samtskhe-Javakheti	239	8	3,4	33	0	0	0
Mtskheta-Mtianeti	85	3	3,5	0	0	0	0
Racha-Lechkhumi and Kvemo Svaneti	52	1	1,9	1	0	0	0
Department other than MoLHA	797	15	1,9	1	0	0	0
Georgia	23754	634	2,7	2683	32	1,2	1,0

SOME HEALTH AND HEALTH CARE INDICATORS ACCORDING TO THE DISTRICTS OF GEORGIA

Table 1.

Main Demographic indicators, Georgia, 2008*

	Mid year population (thousand)	Number of live births	Number of deaths	Population natural growth
Ajara	381,3	5391	2813	2578
Batumi	122,3	1599	1175	424
Keda	19,9	330	187	143
Kobuleti	89,6	1167	561	606
Shuakhevi	22,2	371	138	233
Khelvachauri	92,5	1305	560	745
Khulo	34,8	619	192	427
Tbilisi	1106,7	15105	12113	2992
Kakheti	401,7	4981	4713	268
Akhmeta	41,5	538	403	135
Gurjaani	70,0	803	1019	-216
Dedoplistskaro	30,3	344	394	-50
Telavi	69,9	875	871	4
Lagodekhi	51,2	705	489	216
Sagarejo	58,8	833	564	269
Sighnaghi	43,0	450	521	-71
Kvareli	37,0	433	452	-19
Imereti	693,9	8397	7659	738
Kutaisi	188,6	3028	2337	691
Tkibuli	30,1	263	324	-61
Tskhaltubo	73,1	606	580	26
Chiatura	55,0	625	739	-114
Bagdadi	28,5	285	321	-36
Vani	33,7	289	341	-52
Zestafoni	75,1	832	817	15
Terjola	44,8	426	460	-34
Samtredia	59,8	634	578	56
Sachkhere	46,8	855	533	322
Kharagauli	27,4	270	329	-59
Khoni	31,0	284	300	-16
Samegrelo and Zemo Svaneti	467,9	5388	3836	1552
Zugdidi	171,5	1821	897	924
Abasha	27,9	311	322	-11
Martvili	44,4	528	485	43
Senaki	51,7	662	605	57
Chkhorotskhu	29,8	372	311	61
Tsalenjikha	40,0	497	321	176
Khobi	40,8	410	372	38
Poti	47,4	595	440	155
Mestia	14,4	192	83	109

* Data provided by the State Department for Statistics of the Ministry of Economics Development of Georgia

Health and health care, Georgia, 2008

	Mid year population (thousand)	Number of live births	Number of deaths	Population natural growth
Shida Kartli	312,9	4296	3442	854
Gori	135,7	1964	1540	424
Kaspi	51,8	715	594	121
Kareli	49,5	702	423	279
Khashuri	61,4	880	841	39
Tskhinvali
Kvemo Kartli	504,8	6870	3459	3411
Rustavi	117,3	1519	1151	368
Bolnisi	76,3	1132	409	723
Gardabani	112,6	1426	752	674
Dmanisi	28,2	350	177	173
Tetritskaro	25,7	287	291	-4
Marneuli	123,0	1893	593	1300
Tsalka	21,7	263	86	177
Guria	138,8	1708	1448	260
Lanchkhuti	38,7	436	429	7
Ozurgeti	77,3	946	755	191
Chokhatauri	22,8	326	264	62
Samtskhe - Javakheti	207,9	2325	1647	978
Adigeni	20,4	297	212	85
Aspindza	12,6	173	121	52
Akhalkalaki	62,3	709	298	411
Akhaltzikhe	46,9	631	463	168
Borjomi	31,6	386	421	-35
Ninotsminda	34,1	429	132	297
Mtskheta - Mtianeti	118,1	1418	1248	170
Akhalgori	7,6	108	98	10
Dusheti	33,1	362	300	62
Tianeti	13,1	146	150	-4
Mtskheta	59,4	718	617	101
Kazbegi	4,9	84	83	1
Racha – Lechkhumi and Kvemo Svaneti	47,9	386	633	-247
Ambrolauri	14,8	118	300	-182
Lentekhi	8,9	84	28	56
Oni	8,6	69	152	-83
Tsageri	15,6	115	153	-38
Georgia	4383,8	56565	43011	13554

Table 2.

Main Demographic indicators, Georgia, 2008

	Live births rate per 1000 population	Mortality rate per 1000 population	Population natural growth per 1000 population
Tbilisi	13,6	10,9	2,7
Ajara	14,1	7,4	6,8
Batumi	13,1	9,6	3,5
Keda	16,6	9,4	7,2
Kobuleti	13,0	6,3	6,8
Shuakhevi	16,7	6,2	10,5
Khelvachauri	14,1	6,1	8,1
Khulo	17,8	5,5	12,3
Guria	12,3	10,4	1,9
Lanchkhuti	11,3	11,1	0,2
Ozurgeti	12,2	9,8	2,5
Chokhatauri	14,3	11,6	2,7
Imereti	12,1	11,0	1,1
Kutaisi	16,1	12,4	3,7
Bagdadi	10,0	11,3	-1,3
Vani	8,6	10,1	-1,5
Zestafoni	11,1	10,9	0,2
Terjola	9,5	10,3	-0,8
Samtredia	10,6	9,7	0,9
Sachkhere	18,3	11,4	6,9
Tkibuli	8,7	10,8	-2,0
Tskhaltubo	8,3	7,9	0,4
Chiatura	11,4	13,4	-2,1
Kharagauli	9,9	12,0	-2,2
Khoni	9,2	9,7	-0,5
Kakheti	12,4	11,7	0,7
Akhmeta	13,0	18,6	3,3
Gurjaani	11,5	14,6	-3,1
Dedoplistskaro	11,4	13,0	-1,7
Telavi	12,5	12,5	0,1
Lagodekhi	13,8	9,6	4,2
Sagarejo	14,2	9,6	4,6
Sighnaghi	10,5	12,1	-1,7
Kvareli	11,7	12,2	-0,5
Mtskheta - Mtianeti	12,0	10,6	1,4
Akhgori	14,2	12,9	1,3
Dusheti	10,9	9,1	1,9
Tianeti	11,1	11,5	-0,3
Mtskheta	12,1	10,4	1,7
Kazbegi	17,1	16,9	0,2
Racha – Lechkhumi and Kvemo Svaneti	8,1	13,2	-5,2
Ambrolauri	8,0	20,3	-12,3
Lentekhi	9,4	3,1	6,3
Oni	8,0	17,7	-9,7
Tsageri	7,3	9,8	-2,4

Health and health care, Georgia, 2008

	Live births rate per 1000 population	Mortality rate per 1000 population	Population natural growth per 1000 population
Samegrelo and Zemo Svaneti	11,5	8,2	3,3
Poti	12,6	9,3	3,3
Abasha	11,1	11,5	-0,4
Zugdidi	10,6	5,2	5,4
Martvili	11,9	10,9	1,0
Mestia	13,3	5,8	7,6
Senaki	12,8	11,7	1,1
Chkhorotskhu	12,5	10,4	2,0
Tsalenjikha	12,4	8,0	4,4
Khobi	10,0	9,1	0,9
Samtskhe - Javakheti	12,6	7,9	4,7
Adigeni	14,6	10,4	4,2
Aspindza	13,7	9,6	4,1
Akhalkalaki	11,4	4,8	6,6
Akhaltzikhe	13,5	9,9	3,6
Borjomi	12,2	13,3	-1,1
Ninotsminda	12,6	3,9	8,7
Kvemo Kartli	13,6	6,9	6,8
Rustavi	12,9	9,8	3,1
Bolnisi	14,8	5,4	9,5
Gardabani	12,7	6,7	6,0
Dmanisi	12,4	6,3	6,1
Tetritskaro	11,2	11,3	-0,2
Marneuli	15,4	4,8	10,6
Tsalka	12,1	4,0	8,2
Shida Kartli	13,7	11,0	2,7
Gori	14,5	11,3	3,1
Kaspi	13,8	11,5	2,3
Kareli	14,2	8,5	5,6
Khashuri	14,3	13,7	0,6
Georgia	12,9	9,8	3,1

Table 3.

Hospital beds: performance indicators, Georgia, 2008

	Total number of hospital beds at the end of the year	Number of hospital beds per 100,000 population	Bed rotation rate	Average length of stay	Bed occupancy rate (days)
Abkhazia	35	--	18,4	4,9	90,3
Ajara	1011	265,2	29,9	6,3	188,4
Batumi	753	615,7	32,7	6,4	207,9
Keda	40	201,0	16,6	4,8	79,0
Kobuleti	98	109,4	24,9	5,9	146,4
Shuakhevi	45	202,7	19,7	7,2	143,2
Khelvachauri	20	21,6	9,1	6,8	62,0
Khulo	55	158,1	27,0	5,9	158,2
Tbilisi	5796	523,7	26,2	6,6	171,7
Kakheti	653	162,6	28,2	4,5	128,3
Akhmeta	80	192,8	24,4	4,8	117,2
Gurjaani	125	178,6	22,4	3,9	88,3
Dedoplistskaro	35	115,5	48,5	4,9	235,8
Telavi	151	216,0	29,8	5,1	151,2
Lagodekhi	62	121,1	32,9	5,1	168,2
Sagarejo	78	132,7	32,1	4,2	138,7
Sighnaghi	57	132,6	26,7	4,0	107,3
Kvareli	65	175,7	21,2	3,5	74,4
Imereti	2546	366,9	18,9	9,2	173,4
Kutaisi	889	471,4	31,4	6,0	186,9
Tkibuli	60	199,3	15,5	4,6	71,9
Tskhaltubo	60	82,1	8,6	4,6	38,9
Chiatura	195	354,6	15,1	6,0	90,4
Bagdadi	60	210,5	7,2	6,6	47,5
Vani	40	118,7	13,5	3,9	52,8
Zestafoni	170	226,4	25,9	5,3	137,9
Terjola	100	223,2	15,3	4,6	70,5
Samtredia	191	319,4	9,8	5,2	51,1
Sachkhere	156	333,3	33,7	7,3	245,7
Kharagauli	45	164,2	4,5	4,7	21,2
Khoni	580	1871,0	2,4	125,4	288,5
Samegrelo	958	204,7	21,5	6,7	144,5
Zugdidi	269	156,9	32,0	6,4	205,3
Abasha	75	268,8	20,2	8,3	166,6
Martvili	59	132,9	26,6	5,8	152,9
Senaki	204	394,6	16,7	6,2	103,3
Chkhorotskhu	51	171,1	19,6	5,0	97,1
Tsalenjikha	76	190,0	13,9	6,6	92,1
Khobi	90	220,6	15,9	5,7	91,0
Poti	107	225,7	17,2	10,4	180,5
Mestia	27	187,5	17,0	6,6	112,4

Health and health care, Georgia, 2008

	Total number of hospital beds at the end of the year	Number of hospital beds per 100,000 population	Bed rotation rate	Average length of stay	Bed occupancy rate (days)
Shida Kartli	667	213,2	20,6	7,3	150,5
Gori	257	189,4	29,4	5,7	167,4
Kaspi	38	73,4	19,5	4,3	84,4
Kareli	57	115,2	42,4	3,8	160,8
Khashuri	315	513,0	9,6	15,0	142,9
Tskhinvali	--	--	--	--	--
Kvemo Kartli	922	182,7	16,8	5,1	85,2
Rustavi	296	252,3	26,4	4,8	126,5
Bolnisi	80	104,9	27,3	4,9	133,2
Gardabani	91	80,8	9,1	4,3	39,2
Dmanisi	30	106,4	11,8	4,2	49,6
Tetritskaro	45	175,1	23,7	6,6	157,5
Marneuli	229	186,2	12,3	4,3	53,3
Tsalka	151	695,9	2,7	15,0	39,7
Guria	274	197,4	21,2	5,5	116,4
Lanchkhuti	40	103,4	34,1	5,1	173,2
Ozurgeti	199	257,4	17,9	5,5	98,3
Chokhatauri	35	153,5	25,3	6,1	154,2
Samtskhe - Javakheti	675	324,7	11,9	8,7	103,3
Adigeni	255	1250,0	3,8	41,3	159,0
Aspindza	40	317,5	12,7	5,8	73,1
Akhalkalaki	101	162,1	12,1	4,7	56,8
Akhaltzikhe	76	162,1	43,3	3,0	128,7
Borjomi	98	310,1	13,8	4,4	60,6
Ninotsminda	105	307,9	6,2	7,3	45,5
Mtskheta - Mtianeti	141	119,4	23,0	3,6	81,2
Akhalgori	--	--	--	--	--
Dusheti	25	190,8	16,9	5,2	87,0
Tianeti	43	72,4	50,8	2,6	131,2
Mtskheta	18	367,4	5,1	4,3	22,1
Kazbegi	55	166,2	10,4	5,6	58,4
Racha – Lechkhumi and Kvemo Svaneti	215	448,9	12,7	7,2	91,4
Ambrolauri	65	439,2	5,9	6,1	36,1
Lentekhi	60	674,2	11,9	9,2	108,9
Oni	35	407,0	12,6	6,0	76,0
Tsageri	55	352,6	21,6	6,9	147,5
Georgia	14069	320,9	22,9	6,8	156,1

Health network: performance indicators, Georgia, 2008

	Total number of hospital discharges	Hospitalization level per 100,000 population	Total number of hospital beds per 1 hospital physician	Total number of encounters with the primary health care	Number of encounters per person per year
Abkhazia	514	--	1,3	213611	-
Ajara	30245	7932,1	1,8	773236	2,0
Batumi	24593	20108,8	1,8	218474	1,8
Keda	662	3326,6	2,7	43432	2,2
Kobuleti	2435	2717,6	1,9	82228	0,9
Shuakhevi	888	4000,0	2,4	29853	1,3
Khelvachauri	181	195,7	2,2	349965	3,8
Khulo	1486	4270,1	2,2	49284	1,4
Tbilisi	150341	13584,6	1,1	2133359	1,9
Kakheti	18544	4616,4	1,3	539259	1,3
Akhmeta	1951	4701,2	1,4	62332	1,5
Gurjaani	2800	4000,0	1,9	93179	1,3
Dedoplistskaro	1698	5604,0	1,3	97762	3,2
Telavi	4649	6650,9	1,4	110966	1,6
Lagodekhi	2041	3986,3	1,1	40630	0,8
Sagarejo	2504	4258,5	0,9	38423	0,7
Sighnaghi	1524	3544,2	1,1	57580	1,3
Kvareli	1377	3721,6	1,1	38387	1,0
Imereti	47918	6905,6	2,1	1022353	1,5
Kutaisi	27894	14790,0	1,3	346544	1,8
Tkibuli	932	3096,4	1,7	15755	0,5
Tskhaltubo	514	703,2	1,7	106075	1,5
Chiatura	2944	5352,7	1,7	67487	1,2
Bagdadi	431	1512,3	2,3	40062	1,4
Vani	538	1596,4	1,9	34813	1,0
Zestafoni	4408	5869,5	2,2	127627	1,7
Terjola	1532	3419,6	2,6	96865	2,2
Samtredia	1875	3135,5	3,1	87250	1,5
Sachkhere	5251	11220,1	1,6	39449	0,8
Kharagauli	203	740,9	2,5	37884	1,4
Khoni	1396	4503,2	11,4	22542	0,7
Samegrelo	19916	4256,5	1,6	563128	1,2
Zugdidi	7636	4452,5	1,0	168332	1,0
Abasha	1518	5440,9	1,6	71175	2,6
Martvili	1570	3536,0	1,5	63537	1,4
Senaki	3407	6589,9	2,9	53406	1,0
Chkhorotskhu	998	3349,0	1,8	31546	1,1
Tsalenjikha	1058	2645,0	1,9	48491	1,2
Khobi	1430	3504,9	1,8	51663	1,3
Poti	1841	3884,0	1,8	56173	1,2
Mestia	458	3180,6	2,3	18805	1,3
Shida Kartli	13727	4387,0	1,9	425318	1,4
Gori	7562	5572,6	1,3	199608	1,5
Kaspi	739	1426,6	1,2	51837	1,0
Kareli	2414	4876,8	1,4	65601	1,3
Khashuri	3012	4905,5	3,8	108272	1,8
Tskhinvali	--	--	--	--	--

Health and health care, Georgia, 2008

	Total number of hospital discharges	Hospitalization level per 100,000 population	Total number of hospital beds per 1 hospital physician	Total number of encounters with the primary health care	Number of encounters per person per year
Kvemo Kartli	15536	3077,7	1,9	356756	0,7
Rustavi	7893	6728,9	1,2	187226	1,6
Bolnisi	2183	2861,1	2,4	37224	0,5
Gardabani	828	735,4	1,9	82281	0,7
Dmanisi	353	1251,8	1,9	5589	0,2
Tetritskaro	1067	4151,8	1,4	11075	0,4
Marneuli	2808	2282,9	2,7	30955	0,3
Tsalka	404	1861,8	6,0	2406	0,1
Guria	5806	4183,0	2,2	199158	1,4
Lanchkhuti	1364	3524,6	1,7	41473	1,1
Ozurgeti	3557	4601,6	2,4	133382	1,7
Chokhatauri	885	3881,6	1,9	24303	1,1
Samtskhe - Javakheti	8001	3848,5	3,5	317685	1,5
Adigeni	964	4725,5	8,5	27120	1,3
Aspindza	508	4031,8	4,4	0	0,0
Akhalkalaki	1226	1967,9	4,0	105229	1,7
Akhaltzikhe	3293	7021,3	1,4	110756	2,4
Borjomi	1355	4288,0	1,7	55355	1,8
Ninotsminda	655	1920,8	5,8	19225	0,6
Mtskheta - Mtianeti	3355	2840,8	1,6	115282	1,0
Akhalgori	--	--	--	1775	0,2
Dusheti	571	3870,2	1,4	18075	0,5
Tianeti	507	3678,5	3,8	8099	0,6
Mtskheta	2185	1877,6	1,1	76641	1,3
Kazbegi	92	1725,1	2,6	10692	2,2
Racha - Lechkumi and Kvemo Svaneti	2730	5699,4	3,0	50188	1,0
Ambrolauri	385	2601,4	3,6	17300	1,2
Lentekhi	713	8011,2	4,3	3725	0,4
Oni	442	5139,5	2,3	11832	1,4
Tsageri	1190	7628,2	2,2	17331	1,1
Georgia	320596	7313,2	1,4	6709333	1,5

Table 5.

Case fatality rates, Georgia, 2008

	Case fatality (%)		
	All ages	Including children under 15	Including children under 1 year
Abkhazia	1,2	0,0	0,0
Ajara	1,7	1,4	3,8
Batumi	1,9	1,7	4,4
Keda	1,5	0,2	0,8
Kobuleti	0,6	2,0	0,0
Shuakhevi	0,0	0,0	0,0
Khelvachauri	0,3	0,6	2,1
Khulo	1,9	1,7	4,4
Tbilisi	2,4	2,1	5,6
Kakheti	1,7	0,4	1,3
Akhmeta	0,3	0,6	2,1
Gurjaani	0,4	0,5	1,6
Dedoplistskaro	2,1	0,3	1,0
Telavi	1,2	0,0	0,0
Lagodekhi	2,2	0,6	1,5
Sagarejo	2,8	1,5	3,4
Sighnaghi	0,7	0,3	1,4
Kvareli	1,5	0,7	1,8
Imereti	2,0	1,2	2,6
Kutaisi	2,5	1,8	3,8
Tkibuli	0,1	0,3	1,6
Tskhaltubo	0,7	0,0	0,0
Chiatura	0,8	0,2	0,3
Bagdadi	0,5	0,0	0,0
Vani	0,8	0,0	0,0
Zestafoni	0,5	0,9	2,0
Terjola	0,4	0,0	0,0
Samtredia	2,8	0,1	0,0
Sachkhere	2,0	0,1	0,2
Kharagauli	1,5	0,0	0,0
Khoni	1,4	0,0	0,0
Samegrelo	0,9	0,2	0,5
Zugdidi	1,6	0,6	0,8
Abasha	0,0	0,0	0,0
Martvili	0,2	0,0	0,0
Senaki	0,9	0,3	0,8
Chkhorotskhu	0,2	0,2	1,0
Tsalenjikha	0,2	0,0	0,0
Khobi	0,1	0,0	0,0
Poti	1,0	0,0	0,0
Mestia	0,7	0,6	0,0
Shida Kartli	1,5	0,2	0,7
Gori	1,3	0,2	0,9
Kaspi	1,6	0,0	0,0
Kareli	0,4	0,4	1,0
Khashuri	2,5	0,1	0,5
Tskhinvali	--	--	--

Health and health care, Georgia, 2008

	Case fatality (%)		
	All ages	Including children under 15	Including children under 1 year
Kvemo Kartli	1,4	0,4	0,8
Rustavi	1,9	0,3	0,6
Bolnisi	1,0	1,0	1,9
Gardabani	0,0	0,0	0,0
Dmanisi	0,5	0,0	0,0
Tetritskaro	0,6	0,0	0,0
Marneuli	1,2	0,6	4,6
Tsalka	1,2	0,0	0,0
Guria	1,6	0,0	0,2
Lanchkhuti	1,0	0,0	0,0
Ozurgeti	2,2	0,1	0,2
Chokhatauri	0,0	0,0	0,0
Samtskhe - Javakheti	1,2	0,5	1,3
Adigeni	0,4	2,2	3,7
Aspindza	0,4	0,0	0,0
Akhalkalaki	0,4	0,0	0,0
Akhaltzikhe	1,8	0,9	2,5
Borjomi	1,7	0,0	0,0
Ninotsminda	0,0	0,0	0,0
Mtskheta - Mtianeti	1,5	1,7	4,1
Akhalgori	--	--	--
Dusheti	1,6	0,0	0,0
Tianeti	1,4	0,0	0,0
Mtskheta	1,5	2,8	6,8
Kazbegi	1,1	0,0	0,0
Racha - Lechkumi and Kvemo Svaneti	0,4	0,0	0,0
Ambrolauri	0,5	0,0	0,0
Lentekhi	0,0	0,0	0,0
Oni	0,2	0,0	0,0
Tsageri	0,7	0,0	0,0
Georgia	1,9	1,3	3,4

Table 6.

Medical personnel: performance indicators, Georgia, 2008

	Total number of physicians (physical persons)	Total number of physicians per 100,000 population	Total number of the medium-level medical staff	Total number of the medium-level medical staff per 100,000 population	Nurses to physicians ratio
Abkhazia	250	--	190	--	0,8
Ajara	1060	278,0	1818	476,8	1,7
Batumi	750	613,2	1102	901,1	1,5
Keda	32	160,8	87	437,2	2,7
Kobuleti	125	139,5	260	290,2	2,1
Shuakhevi	24	108,1	97	436,9	4,0
Khelvachauri	85	91,9	145	156,8	1,7
Khulo	44	126,4	127	364,9	2,9
Tbilisi	8760	791,5	6972	630,0	0,8
Kakheti	1183	294,5	1064	264,9	0,9
Akhmeta	101	243,4	121	291,6	1,2
Gurjaani	176	251,4	149	212,9	0,8
Dedoplistskaro	71	234,3	66	217,8	0,9
Telavi	303	433,5	225	321,9	0,7
Lagodekhi	151	294,9	158	308,6	1,0
Sagarejo	150	255,1	126	214,3	0,8
Sighnaghi	109	253,5	98	227,9	0,9
Kvareli	122	329,7	121	327,0	1,0
Imereti	2444	352,2	2970	428,0	1,2
Kutaisi	1240	657,5	1269	672,9	1,0
Tkibuli	62	206,0	77	255,8	1,2
Tskhaltubo	101	138,2	110	150,5	1,1
Chiatura	156	283,6	230	418,2	1,5
Bagdadi	77	270,2	94	329,8	1,2
Vani	56	166,2	67	198,8	1,2
Zestafoni	196	261,0	240	319,6	1,2
Terjola	73	162,9	122	272,3	1,7
Samtredia	202	337,8	268	448,2	1,3
Sachkhere	144	307,7	260	555,6	1,8
Kharagauli	44	160,6	63	229,9	1,4
Khoni	93	300,0	170	548,4	1,8
Samegrelo	1204	257,3	1609	343,9	1,3
Zugdidi	449	261,8	591	344,6	1,3
Abasha	92	329,7	110	394,3	1,2
Martvili	88	198,2	98	220,7	1,1
Senaki	134	259,2	171	330,8	1,3
Chkhorotskhu	67	224,8	111	372,5	1,7
Tsalenjikha	87	217,5	158	395,0	1,8
Khobi	98	240,2	147	360,3	1,5
Poti	160	337,6	160	337,6	1,0
Mestia	29	201,4	63	437,5	2,2
Shida Kartli	759	242,6	928	296,6	1,2
Gori	377	277,8	444	327,2	1,2
Kaspi	103	198,8	119	229,7	1,2
Kareli	92	185,9	105	212,1	1,1
Khashuri	187	304,6	260	423,5	1,4
Tskhinvali	--	--	--	--	--

Health and health care, Georgia, 2008

	Total number of physicians (physical persons)	Total number of physicians per 100,000 population	Total number of the medium-level medical staff	Total number of the medium-level medical staff per 100,000 population	Nurses to physicians ratio
Kvemo Kartli	1185	234,7	1354	268,2	1,1
Rustavi	487	415,2	506	431,4	1,0
Bolnisi	96	125,8	134	175,6	1,4
Gardabani	229	203,4	176	156,3	0,8
Dmanisi	30	106,4	36	127,7	1,2
Tetritskaro	61	237,4	70	272,4	1,1
Marneuli	228	185,4	350	284,6	1,5
Tsalka	54	248,8	82	377,9	1,5
Guria	309	222,6	447	322,0	1,4
Lanchkhuti	82	211,9	116	299,7	1,4
Ozurgeti	173	223,8	240	310,5	1,4
Chokhatauri	54	236,8	91	399,1	1,7
Samtskhe - Javakheti	412	198,2	672	323,2	1,6
Adigeni	47	230,4	79	387,3	1,7
Aspindza	28	222,2	44	349,2	1,6
Akhalkalaki	64	102,7	96	154,1	1,5
Akhalsikhe	139	296,4	177	377,4	1,3
Borjomi	109	344,9	166	525,3	1,5
Ninotsminda	25	73,3	110	322,6	4,4
Mtskheta - Mtianeti	270	228,6	316	267,6	1,2
Akhalgori	1	13,2	4	52,6	4,0
Dusheti	88	265,9	92	277,9	1,0
Tianeti	37	282,4	60	458,0	1,6
Mtskheta	125	210,4	145	244,1	1,2
Kazbegi	19	387,8	15	306,1	0,8
Racha - Lechkhumi and Kvemo Svaneti	173	361,2	277	578,3	1,6
Ambrolauri	54	364,9	92	621,6	1,7
Lentekhi	26	292,1	41	460,7	1,6
Oni	36	418,6	59	686,0	1,6
Tsageri	57	365,4	85	544,9	1,5
Georgia	18197	415,1	18763	428,0	1,0

Table 7.

General incidence according to the primary health care reports, Georgia, 2008

	Total number of new cases, all ages	Incidence rate per 100,000 population	Change compared with 2007 (%)	Total number of new cases in children	Incidence rate per 100,000 children	Change compared with 2007 (%)
Abkhazia	42145	--	30,3	14723	34,9	42,6
Ajara	53149	13938,9	-6,6	17980	33,8	2,4
Batumi	32329	26434,2	8,2	11456	35,4	12,0
Keda	1883	9462,3	12,8	510	27,1	19,2
Kobuleti	5534	6176,3	-1,0	2871	51,9	13,8
Shuakhevi	1183	5328,8	72,7	471	39,8	80,5
Khelvachauri	7840	8475,7	-27,9	1827	23,3	-17,9
Khulo	4380	12586,2	-46,7	845	19,3	-55,3
Tbilisi	262940	23758,9	-4,6	102364	38,9	-3,2
Kakheti	65840	16390,3	21,9	20732	31,5	8,2
Akhmeta	1647	3968,7	-4,0	262	15,9	12,4
Gurjaani	6765	9664,3	29,7	2107	31,1	31,1
Dedoplistskaro	6150	20297,0	2,3	1493	24,3	3,3
Telavi	24154	34555,1	35,4	8523	35,3	5,9
Lagodekhi	5220	10195,3	9,3	1852	35,5	18,1
Sagarejo	7785	13239,8	43,7	2358	30,3	8,2
Signaghi	7528	17507,0	6,5	3017	40,1	-0,5
Kvareli	6591	17813,5	10,1	1120	17,0	6,7
Imereti	132493	19094,0	14,6	42517	32,1	14,7
Kutaisi	47209	25031,3	30,2	12428	26,3	16,7
Tkibuli	3642	12099,7	84,0	1477	40,6	238,0
Tskhaltubo	6582	9004,1	29,7	2951	44,8	80,0
Chiatura	17486	31792,7	15,3	3944	22,6	1,7
Bagdadi	9760	34245,6	16,3	3069	31,4	59,9
Vani	1129	3350,1	15,7	173	15,3	41,8
Zestafoni	8073	10749,7	-5,4	5240	64,9	2,6
Terjola	6395	14274,6	-2,2	1538	24,1	0,1
Samtredia	8353	13968,2	4,5	3696	44,2	-7,7
Sachkhere	10026	21423,1	-15,0	5838	58,2	3,5
Kharagauli	7822	28547,4	34,4	1060	13,6	11,2
Khoni	6016	19406,5	-15,5	1103	18,3	-7,2
Samegrelo	50355	10761,9	0,5	12908	25,6	-4,9
Zugdidi	17463	10182,5	25,7	4069	23,3	-1,7
Abasha	2289	8204,3	-34,0	691	30,2	-25,5
Martvili	6412	14441,4	26,9	1135	17,7	3,7
Senaki	4931	9537,7	-28,7	670	13,6	-29,9
Chkhorotskhu	663	2224,8	-2,4	48	7,2	-25,0
Tsalenjikha	3492	8730,0	-29,6	1111	31,8	-34,8
Khobi	4962	12161,8	-5,1	530	10,7	32,5
Poti	7439	15694,1	-0,9	3576	48,1	3,1
Mestia	2704	18777,8	12,9	1078	39,9	32,8
Shida Kartli	50850	16251,2	-6,9	19933	39,2	-16,8
Gori	26572	19581,4	5,7	10903	41,0	-19,7
Kaspi	6619	12778,0	36,7	2417	36,5	38,6
Kareli	6623	13379,8	20,0	1568	23,7	16,2
Khashuri	11036	17973,9	-0,5	5045	45,7	-16,9
Tskhinvali	--	--	--	--	--	--

Health and health care, Georgia, 2008

	Total number of new cases, all ages	Incidence rate per 100,000 population	Change compared with 2007 (%)	Total number of new cases in children	Incidence rate per 100,000 children	Change compared with 2007 (%)
Kvemo Kartli	54557	10807,6	40,7	16173	29,6	1,3
Rustavi	11336	9664,1	23,1	6756	59,6	11,5
Bolnisi	5239	6866,3	14,2	2402	45,8	6,3
Gardabani	12418	11028,4	-2,1	5158	41,5	-1,7
Dmanisi	2693	9549,6	-10,9	457	17,0	40,6
Tetritskaro	5820	22645,9	28,9	500	8,6	-34,2
Marneuli	15373	12498,4	615,7	552	3,6	-36,0
Tsalka	1678	7732,7	-35,2	348	20,7	-23,2
Guria	24161	17407,1	12,7	11370	47,1	9,3
Lanchkhuti	4837	12498,7	0,1	1741	36,0	5,6
Ozurgeti	16093	20818,9	20,1	8523	53,0	11,8
Chokhatauri	3231	14171,1	1,0	1106	34,2	-1,6
Samtskhe - Javakheti	28784	13845,1	-1,3	9345	32,5	-11,4
Adigeni	1498	7343,1	9,3	167	11,1	-58,4
Aspindza	1667	13230,2	-1,0	445	26,7	68,6
Akhalkalaki	5900	9470,3	-10,4	1006	17,1	0,8
Akhaltzikhe	13720	29253,7	2,2	3864	28,2	-23,4
Borjomi	5527	17490,5	-2,4	3863	69,9	0,4
Ninotsminda	472	1384,2	4,9	0	0,0	0,0
Mtskheta - Mtianeti	23524	19918,7	-7,0	6919	29,4	-2,4
Akhalgori	282	3710,5	-79,7	98	34,8	-76,9
Dusheti	6578	19873,1	-11,9	1607	24,4	-4,9
Tianeti	3588	27389,3	15,1	1091	30,4	12,9
Mtskheta	11738	19760,9	-1,1	3807	32,4	3,8
Kazbegi	1338	27306,1	-9,1	316	23,6	-7,6
Racha - Lechkhumi and Kvemo Svaneti	10096	21077,2	4,0	1776	17,6	14,5
Ambrolauri	3148	21270,3	-2,7	367	11,7	-22,6
Lentekhi	2031	22820,2	25,4	712	35,1	22,1
Oni	1567	18220,9	20,5	322	20,5	218,8
Tsageri	3350	21474,4	-5,8	375	11,2	-4,6
Georgia	807497	18420,0	5,2	276872	34,3	1,4

Table 8.

Asthma and status asthmaticus, incidence rates according to the primary health care reports, Georgia, 2007 - 2008

	2007			2008		
	Total number of new cases		Incidence rate	Total number of new cases		Incidence rate
	All ages	In children		All ages	In children	
Abkhazia	45	8	--	91	10	--
Ajara	320	73	84,3	190	64	49,8
Batumi	171	41	139,9	100	38	81,77
Keda	12	2	60,3	12	1	60,30
Kobuleti	24	4	26,9	13	5	14,51
Shuakhevi	14	4	63,9	8	4	36,04
Khelvachauri	69	7	75,0	39	11	42,16
Khulo	30	15	87,7	18	5	51,72
Tbilisi	822	229	74,2	1143	214	103,3
Kakheti	184	13	45,7	228	14	56,8
Akhmeta	22	6	52,9	5	3	12,05
Gurjaani	20	2	28,5	26	4	37,14
Dedoplistskaro	17	0	55,7	12	0	39,60
Telavi	38	0	54,1	100	0	143,06
Lagodekhi	19	3	37,2	18	4	35,16
Sagarejo	12	0	20,4	24	0	40,82
Sighnaghi	32	2	73,9	13	2	30,23
Kvareli	24	0	64,9	30	1	81,08
Imereti	977	196	140,4	741	170	106,8
Kutaisi	454	60	240,1	266	59	141,04
Tkibuli	30	10	99,0	18	2	59,80
Tskhaltubo	24	2	32,7	28	0	38,30
Chiatura	57	6	103,3	73	17	132,73
Bagdadi	102	36	355,4	94	26	329,82
Vani	5	0	14,8	16	5	47,48
Zestafoni	35	3	46,5	17	7	22,64
Terjola	43	2	95,6	35	6	78,13
Samtredia	62	6	103,3	30	9	50,17
Sachkhere	89	67	191,0	122	36	260,68
Kharagauli	48	1	175,2	31	3	113,14
Khoni	28	3	90,0	11	0	35,48
Samegrelo	296	55	63,1	196	47	41,9
Zugdidi	37	5	21,6	57	5	33,24
Abasha	62	15	221,4	26	9	93,19
Martvili	52	6	116,9	35	5	78,83
Senaki	5	1	9,6	2	0	3,87
Chkhorotskhu	8	3	26,7	10	3	33,56
Tsalenjikha	41	8	102,2	15	7	37,50
Khobi	64	2	156,1	22	1	53,92
Poti	25	15	52,9	25	16	52,74
Mestia	2	0	14,0	4	1	27,78

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	2007			2008		
	Total number of new cases		Incidence rate	Total number of new cases		Incidence rate
	All ages	In children		All ages	In children	
Shida Kartli	127	8	40,6	168	4	53,7
Gori	49	5	36,1	55	1	40,53
Kaspi	9	0	17,3	10	0	19,31
Kareli	5	0	10,1	2	0	4,04
Khashuri	46	3	74,8	101	3	164,50
Tskhinvali	18	0	--	--	--	--
Kvemo Kartli	138	23	27,4	160	16	31,7
Rustavi	16	11	13,6	4	1	3,41
Bolnisi	13	0	17,2	42	3	55,05
Gardabani	51	11	45,4	19	1	16,87
Dmanisi	1	0	3,5	31	11	109,93
Tetritskaro	47	0	180,8	53	0	206,23
Marneuli	2	1	1,6	9	0	7,32
Tsalka	8	0	36,5	2	0	9,22
Guria	41	6	29,5	84	44	60,5
Lanchkhuti	7	1	18,1	15	7	38,76
Ozurgeti	26	3	33,6	57	36	73,74
Chokhatauri	8	2	35,1	12	1	52,63
Samtskhe - Javakheti	63	2	30,3	70	0	33,7
Adigeni	4	0	19,6	6	0	29,41
Aspindza	4	0	31,5	6	0	47,62
Akhalkalaki	5	0	8,0	14	0	22,47
Akhaltsikhe	34	1	72,7	32	0	68,23
Borjomi	3	1	9,4	7	0	22,15
Ninotsminda	13	0	38,4	5	0	14,66
Mtskheta - Mtianeti	50	2	42,2	58	3	49,1
Akhalgori	0	0	0,0	0	0,0	0,0
Dusheti	15	0	45,2	14	0	42,30
Tianeti	2	0	15,2	8	0	61,07
Mtskheta	21	2	35,3	29	3	48,82
Kazbegi	12	0	244,9	7	0	142,86
Racha - Lechkhumi and Kvemo Svaneti	48	3	99,2	57	2	119,0
Ambrolauri	16	1	106,7	12	1	81,08
Lentekhi	0	0	0,0	0	0	0,0
Oni	3	0	34,1	27	0	313,95
Tsageri	29	2	184,7	18	1	115,38
Georgia	3114	618	71,0	3189	588	72,8

Table 9.

Insulin-dependent diabetes mellitus, incidence rates according to the primary health care reports, Georgia, 2007 - 2008

	2007			2008		
	Total number of new cases		Incidence rate	Total number of new cases		Incidence rate
	All ages	In children		All ages	In children	
Abkhazia	97	0	--	77	1	--
Ajara	203	4	53,5	248	4	65,0
Batumi	134	1	109,7	102	0	83,40
Keda	4	0	20,1	6	1	30,15
Kobuleti	18	3	20,2	87	2	97,10
Shuakhevi	1	0	4,6	2	0	9,01
Khelvachauri	32	0	34,8	41	0	44,32
Khulo	14	0	40,9	10	1	28,74
Tbilisi	448	1	40,4	370	3	33,4
Kakheti	383	4	95,1	374	3	93,1
Akhmeta	6	0	14,4	16	0	38,55
Gurjaani	21	0	29,9	22	0	31,43
Dedoplistskaro	14	0	45,9	12	0	39,60
Telavi	174	1	247,9	119	1	170,24
Lagodekhi	80	1	156,6	121	0	236,33
Sagarejo	23	1	39,2	26	0	44,22
Sighnaghi	47	0	108,6	32	0	74,42
Kvareli	18	1	48,7	26	2	70,27
Imereti	469	20	67,4	560	15	80,7
Kutaisi	148	14	78,3	202	5	107,10
Tkibuli	14	0	46,2	16	0	53,16
Tskhaltubo	4	0	5,5	20	0	27,36
Chiatura	54	3	97,8	76	4	138,18
Bagdadi	58	0	202,1	37	0	129,82
Vani	8	0	23,7	8	0	23,74
Zestafoni	58	1	77,0	36	0	47,94
Terjola	29	1	64,4	31	1	69,20
Samtredia	31	0	51,7	25	0	41,81
Sachkhere	14	1	30,0	66	5	141,03
Kharagauli	33	0	120,4	22	0	80,29
Khoni	18	0	57,9	21	0	67,74
Samegrelo	137	3	29,2	147	1	31,4
Zugdidi	30	0	17,5	18	0	10,50
Abasha	3	0	10,7	14	0	50,18
Martvili	6	0	13,5	9	0	20,27
Senaki	5	0	9,6	14	0	27,08
Chkhorotskhu	3	0	10,0	9	0	30,20
Tsalenjikha	27	0	67,3	16	0	40,00
Khobi	23	0	56,1	34	0	83,33
Poti	36	2	76,1	33	1	69,62
Mestia	4	1	28,0	0	0	--

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	2007			2008		
	Total number of new cases		Incidence rate	Total number of new cases		Incidence rate
	All ages	In children		All ages	In children	
Shida Kartli	124	13	39,6	279	4	89,2
Gori	52	11	38,3	59	1	43,48
Kaspi	14	0	27,0	127	1	245,17
Kareli	14	0	28,2	28	0	56,57
Khashuri	36	2	58,5	65	2	105,86
Tskhinvali	8	0	--	--	--	--
Kvemo Kartli	179	1	35,5	203	4	40,2
Rustavi	11	0	9,4	35	0	29,84
Bolnisi	28	0	36,9	15	1	19,66
Gardabani	62	1	55,2	35	3	31,08
Dmanisi	3	0	10,6	4	0	14,18
Tetritskaro	12	0	46,2	24	0	93,39
Marneuli	55	0	45,1	90	0	73,17
Tsalka	8	0	36,5	0	0	--
Guria	40	0	28,8	57	0	41,1
Lanchkhuti	7	0	18,1	2	0	5,17
Ozurgeti	18	0	23,3	32	0	41,40
Chokhatauri	15	0	65,8	23	0	100,88
Samtskhe - Javakheti	207	10	99,5	182	0	87,5
Adigeni	8	1	39,2	6	0	29,41
Aspindza	14	0	110,2	9	0	71,43
Akhalkalaki	117	9	187,5	46	0	73,84
Akhaltzikhe	42	0	89,7	102	0	217,48
Borjomi	24	0	75,5	4	0	12,66
Ninotsminda	2	0	5,9	15	0	43,99
Mtskheta - Mtianeti	58	3	49,0	57	0	48,3
Akhalgori	1	0	13,2	0	0	0,0
Dusheti	11	0	33,1	8	0	24,17
Tianeti	1	0	7,6	5	0	38,17
Mtskheta	45	3	75,6	43	0	72,39
Kazbegi	0	0	0,0	1	0	20,41
Racha - Lechkhumi and Kvemo Svaneti	65	0	134,3	68	0	142,0
Ambrolauri	56	0	373,3	57	0	385,14
Lentekhi	3	0	33,7	0	0	--
Oni	0	0	0,0	1	0	11,63
Tsageri	6	0	38,2	10	0	64,10
Georgia	2415	59	55,0	2630	35	60,0

Table 10.

Ambulance: performance indicators, Georgia, 2007 - 2008

	2007			2008		
	Total number of calls to patients of all ages	to children	Number of calls per person	Total number of calls to patients of all ages	to children	Number of calls per person
Ajara	69033	10827	0,2	67924	11116	0,2
Batumi	37598	1095	0,3	34749	1098	0,3
Keda	2612	210	0,1	3033	216	0,2
Kobuleti	12342	5236	0,1	13284	4276	0,1
Shuakhevi	2291	246	0,1	2203	1143	0,1
Khelvachauri	10359	3671	0,1	11253	4021	0,1
Khulo	3831	369	0,1	3402	362	0,1
Tbilisi	277818	21514	0,3	320354	13648	0,3
Kakheti	58960	4296	0,2	59469	3445	0,1
Akhmeta	6829	492	0,2	7047	585	0,2
Gurjaani	7664	271	0,1	8182	374	0,1
Dedoplistskaro	4728	956	0,2	5063	412	0,2
Telavi	14297	1692	0,2	14038	1362	0,2
Lagodekhi	5375	49	0,1	4506	195	0,1
Sagarejo	7361	240	0,1	7073	144	0,1
Sighnaghi	7443	253	0,2	7106	276	0,2
Kvareli	5263	343	0,1	6454	97	0,2
Imereti	93190	9233	0,1	94154	11775	0,1
Kutaisi	30730	1980	0,2	32244	3046	0,2
Tkibuli	3764	194	0,1	3235	158	0,1
Tskhaltubo	8125	539	0,1	8601	517	0,1
Chiatura	6204	461	0,1	6435	478	0,1
Bagdadi	5035	586	0,2	4960	1123	0,2
Vani	4165	807	0,1	3920	1550	0,1
Zestafoni	8090	97	0,1	7600	132	0,1
Terjola	3937	817	0,1	3658	790	0,1
Samtredia	7022	1420	0,1	7059	1100	0,1
Sachkhere	7173	768	0,2	7285	774	0,2
Kharagauli	3150	1100	0,1	3187	1750	0,1
Khoni	5795	464	0,2	5970	357	0,2
Samegrelo	50470	2246	0,1	49342	3454	0,1
Zugdidi	13336	658	0,1	12818	770	0,1
Abasha	7483	278	0,3	7075	306	0,3
Martvili	3721	0	0,1	3913	889	0,1
Senaki	6572	237	0,1	6671	168	0,1
Chkhorotskhu	4128	215	0,1	4344	296	0,1
Tsalenjikha	9272	510	0,2	8553	629	0,2
Khobi	4548	216	0,1	4528	245	0,1
Poti	--	--	--	--	--	--
Mestia	1410	132	0,1	1440	151	0,1

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	2007			2008		
	Total number of calls to patients of all ages	to children	Number of calls per person	Total number of calls to patients of all ages	to children	Number of calls per person
Shida Kartli	38138	1856	0,1	40851	1733	0,1
Gori	17324	842	0,1	22902	825	0,2
Kaspi	4758	72	0,1	4620	89	0,1
Kareli	4148	206	0,1	4312	324	0,1
Khashuri	9283	458	0,2	9017	495	0,1
Tskhinvali	2625	278	--	--	--	--
Kvemo Kartli	56755	5242	0,1	59314	3287	0,1
Rustavi	17537	1095	0,2	18910	1393	0,2
Bolnisi	6927	598	0,1	6854	511	0,1
Gardabani	10675	2672	0,1	10619	0	0,1
Dmanisi	3192	0	0,1	3667	196	0,1
Tetritskaro	4628	714	0,2	4661	309	0,2
Marneuli	11435	163	0,1	11480	183	0,1
Tsalka	2361	0	0,1	3123	695	0,1
Guria	22636	2096	0,2	24182	1575	0,2
Lanchkhuti	6232	1513	0,2	6412	712	0,2
Ozurgeti	10383	304	0,1	12238	358	0,2
Chokhatauri	6021	279	0,3	5532	505	0,2
Samtskhe - Javakheti	29191	1473	0,1	25657	2275	0,1
Adigeni	3529	469	0,2	3367	386	0,2
Aspindza	3880	76	0,3	3192	375	0,3
Akhalkalaki	3718	0	0,1	3666	47	0,1
Akhaltzikhe	5600	424	0,1	5630	407	0,1
Borjomi	9169	200	0,3	6506	740	0,2
Ninotsminda	3295	304	0,1	3296	320	0,1
Mtskheta - Mtianeti	17395	1378	0,2	17282	887	0,1
Akhalgori	--	--	--	--	--	--
Dusheti	4075	877	0,1	4307	219	0,1
Tianeti	4958	436	0,4	4343	459	0,3
Mtskheta	5208	65	0,1	5445	209	0,1
Kazbegi	3154	0	0,6	3187	0	0,7
Racha - Lechkhumi and Kvemo Svaneti	13193	1196	0,3	9638	1424	0,2
Ambrolauri	3748	264	0,3	2982	852	0,2
Lentekhi	2732	360	0,3	3513	250	0,4
Oni	3045	150	0,4	3143	322	0,4
Tsageri	3668	422	0,2	2982	852	0,2
Georgia	726779	61357	0,2	768167	54619	0,2

INSTITUTIONALIZATION OF NATIONAL HEALTH ACCOUNTS IN GEORGIA

National Health Accounts (NHA) is a specialized tool, developed for description and analysis of financing of a health care system, is annually prepared in more than 50 countries. The Government uses NHA for the assessment of different sources of financing, for planning of the resources necessary for the development of the health system, and for the monitoring of the activities performed in the health sector. NHA system is developed and provided by the World Health Organization in cooperation with the World Bank and the US Agency for International Development, and is presented as a unity of standard two-dimensional tables, which implements standard classifications to describe health financial systems. It qualifies financial flows development, finances mobilization according to the sources, finances accumulation, managing facilities, sums paid to health care providers and for services.

In Georgia, the NHA implementation process started in 2003. MOLHSA formed a working group of 5 people, composed of the representatives from different governmental and private organizations working in the health sector. The group got familiar with the NHA and translated “Health accounts system guideline” into Georgian.

In 2004, to support the implementation of the main directions of the health care reform, the Cooperation in Health Care Systems Transformation Project (CoReform) was initiated with funding provided by the USAID Mission. With overarching ownership from the (MOLHSA), the project was led by Abt Associates (Abt) and implemented in partnership with CARE International and the Georgian non-governmental organization Curatio International Foundation (CIF). One of the activities of the project was implementation and institutionalization of NHA as a tool for the evidence based decision making process.

In 2005 with the financial support of World Bank (Primary Health Care Development Project -PHCDP) Health Policy Unit (HPU) was established within the NIHSA, The unit was responsible for providing analytical assistance to the MOLHSA in revision and implementation of the Health Reform Strategy. Initially HPU focused on such issues as improvements in the mobilization, management and allocation of public/private finances for health. One of the HPU responsibilities was producing of the NHA. For the benefit of NHA development and institutionalization process, two people were included from HPU staff (local consultants) and one local expert (health economist) employed by World Bank was added.

HPU and CIF team prepared NHA preliminary estimates for 2001-2003. The purpose of this work was to present the results of the initial analysis and identify major problems, such as: logistical, methodological, and data quality issues, emerged during the NHA preparation, in order to define those areas that will need to be addressed during the NHA institutionalization process. The concepts, definitions, data and estimation procedures used to produce the country’s NHA tables were included in the methodological document.

The methodology given in the “Guide to producing national health accounts: with special applications for low-income and middle-income countries” was used for preparing 2001 - 2003 NHA. Required adjustments were made in the classification schemes to bring them in line with the national specifications (additional subcategories were added to the

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categories in the International classifications) and the first draft of a classification and methodology documents were elaborated.

During the grouping of the transactions International standards and agreements maximally were taken into account to reach conformity of Georgian data with international indicators. Due to this an existing structure of the NHA can be compared with similar data for other countries.

The same time tools / software for data management were developed, which facilitate the process of the NHA preparing.

In 2005, with the support of the Health Policy Unit inter sectoral NHA working group was formed from the representatives of the following agencies: MOLHSA, NIHSA, Public Health Department, National Center for Diseases control and medical Statistics, State United Social Insurance Fund (SUSIF), Ministry of Economy, Ministry of Finance, State Department of Statistics (SDS), Insurance state supervision board, Insurance association (Private Company).

The working group performed the following: assessment of the module of the quarterly household survey done by the State Department of Statistics and definition of the indicators, which must be added to the module; check-up of the draft of the NHA for 2001 – 2003 and preparation of the NHA for 2004 – 2005, adjustment of the NHA classification and NHA methodology document.

Health policy unit and the working group in cooperation with Curatio International foundation developed a project of the “Resolution #11 of the government of Georgia”, on institutionalization of national health accounts in Georgia, which was adopted on January 18, 2006. This was done for the identifying of institutional home for NHA and human resources needed. The resolution identified NHA goals, tasks, periodicity, executives and necessary data sources.

The government resolution committed annual production of NHA to the National Institute of Health and Social Affairs. Pursuant to the same resolution the main aims of keeping the National Health Account are:

1. Recording fund flows in the health sector nationwide and analyzing them in different dimensions;
2. Monitoring the economic results of the Health Policy;
3. Determining and adjusting the Health Financing Policy based on the results of National Health Accounts;
4. Determining the share of the health service in the Gross Domestic Product of Georgia;
5. Taking a comparative analysis in relation to the health costs of other countries.

In 2006, after reorganization of the health care structure, the production of NHA was committed to the Health Policy Union of the Health Care Department of the MOLHSA. State, private and international financial flows are described in the NHA. NHA use accrual accounting method, which implies that that not financed health care events but consumed during the reporting period ones are taken into account. The following four basic tables and one additional are produced:

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- Financial sources X financial agents;
- Financial agents X health care providers;
- Financial agents X types of health care;
- Health care providers X types of health care;
- Financial agents X regions.

Different sources of information existing in the country are used for filling the NHA tables. Those are:

- Results of the special household survey “GEORGIA HEALTH UTILIZATION AND EXPENDITURE SURVEY (HUES)” organized by MOLHSA, World Bank, Curatio International and the Statistics Department of the Ministry of Economics;
- Data coming from the Ministry of finance on finances spent on health care from the state and territorial budgets according to the economical, functional and organizational classifications;
- Data coming from the Health and Social Programs Agency on the finances paid in the frame of the state programs to the health care providers;
- Data coming from the National Center for Disease Control and Public Health on the grants and humanitarian health received and finances spent on prevention programs.

Annual reports on assessments of the situation existing in the private insurance market produced by the Insurance state supervision board;

Data coming from the international agencies operating in the country about the volume of the aid provided by the agencies;

Data coming from enforcing departments on the finances received and spent for the health care activities.

By the current time the following has been prepared:

- 2001 – 2007 NHA;
- 2008 NHA is in the process of development (<http://www.moh.gov.ge/page.php?117>);
- 2001 – 2006 and 2007 NHA methodology;
- 2001 – 2005 NHA sub-analysis with reproductive health methodology document;
- 2001-2006 TB Sub analysis with methodological document for data collection and calculations.

2007 UNGASS report regarding HIV/AIDS spending in the country (prepared according to NASA classification).

Table 1 contains essential data from NHA tables, which describes tendencies in financing of the health care in the country.

NHA are widely used in studying of different issues of the health care. Medium Term Expenditure Framework 2006-2010 was developed based on 2001 – 2003 NHA estimations. Program budgeting process oriented on the results of 2010-2013 uses 2007 NHA results as a basis for evaluation and monitoring of annual outcomes. Technical documents of State Health Programs use NHA findings for describing existing situation and pricing the services.

Report on Distribution of Health Payments and Catastrophic Expenditures in Georgia uses 2002-2007 NHA data (HH expenditure on health and distribution of HH expenditure on health by functions and providers).

Georgia Health System Performance Assessment Report. In 2008 Georgia Health System Performance Assessment Report was prepared, where from selected 42 indicators 7 were developed on the basis of NHA Results.

NHA findings were used by actuary organization in calculation of government state programs premiums and by insurance companies and actuary organizations for calculation of insurance premiums.

World Health statistics report 2008 - 2009 prepared by WHO used 2001 - 2006 NHA findings. Tables are allocated in the WHO WEB page (<http://www.who.int/nha/country/geo/en/>).

The results of TB sub-analysis were used by MOLHSA and donor organizations in evaluation of National Strategy plan for TB. TB NHA Sub-analysis results were taken as a basis for assessment of the current TB expenditure in the country. In the result of the functional analysis of TB expenditures (out-patient and hospital treatment, prevention, purchasing of drugs and medical supplies, administration costs) the future actions were developed and priced.

Based on the results of RH sub-analysis and Reproductive health surveys findings (2000, 2005) Country RH Strategy was developed.

Preparation of 2008 NHA will be finished by the end of 2009. The analytical document of the 2001 – 2007 NHA accounts is in the final stage; it will help policy makers in easier understanding of what is happening in the country's health sector in comparison with other countries.

Standardized NHA analysis will be included in the MOLHSA annual National Health Report., this will combine NHA with sources of non financial data (epidemiology and population based surveys, health care resources), because investments in the health care represent the most important determinant of the population health status indicators, such as life expectancy, maternal and child mortality, etc. Health care accessibility partially depends on the social – economic development level and resources allocated for the health care.

Health care financing tendency, Georgia, 2001 – 2007

	2001	2002	2003	2004	2005	2006	2007
Total health expenditure as a share of the GDP	7,8%	8,7%	8,5%	8,5%	8,6%	8,4%	8,2%
Public health expenditure as a share of the GDP	1,1%	1,2%	1,3%	1,3%	1,7%	1,8%	1,5%
Public health care expenditure as a share of the total public expenditures	6,1%	6,3%	6,7%	5,4%	6,0%	5,7%	4,2%
Public health expenditures as a share of the total health expenditures	14,4 %	13,5 %	15,0 %	15,5 %	19,6 %	21,9 %	18,4 %
Private health expenditures as a share of the total health expenditures	76,7 %	74,3 %	77,6 %	78,4 %	77,7 %	73,0 %	72,4 %
Health expenditures from the international sources as a share of the total health expenditures	8,9%	12,1 %	7,4%	6,1%	2,7%	5,1%	9,2%
Total health expenditures, mln GEL	521.5	650.7	724.8	835.9	998.3	1159.6	1386.6
Public health expenditures, mln GEL	75.3	88.1	108.5	129.9	195.7	254.5	255.5
Local municipal health expenditure, mln GEL	23.5	21.2	20	26.7	41.4	17.7	15.6
Private health expenditures, mln GEL	399.9	483.6	562.5	655.3	775.2	846.3	1003.4
Including using prepaid health schemes, mln GEL	2.4	2.6	2.8	6.7	7.5	9.8	20.8
International financing of health, mln GEL	46.3	78.9	53.8	50.7	27.4	58.8	127.7
Total health expenditures per 1 population, GEL	115	149	168	194	229	264	316
Public health expenditures per 1 population, GEL	17	20	25	30	45	58	58
Private health expenditures per 1 population, GEL	88	111	130	152	178	192	229
International financing of health per 1 population, GEL	10	18	12	12	6	13	29

NHA (2001-2007)

Article prepared by the Health Policy Department of the MOLHSA

PREVENTING MOTHER-TO-CHILD TRANSMISSION OF HIV IN GEORGIA

Tengiz Asatiani, Zaza Bokhua, Lela Shengelia, Dali Chitaishvili

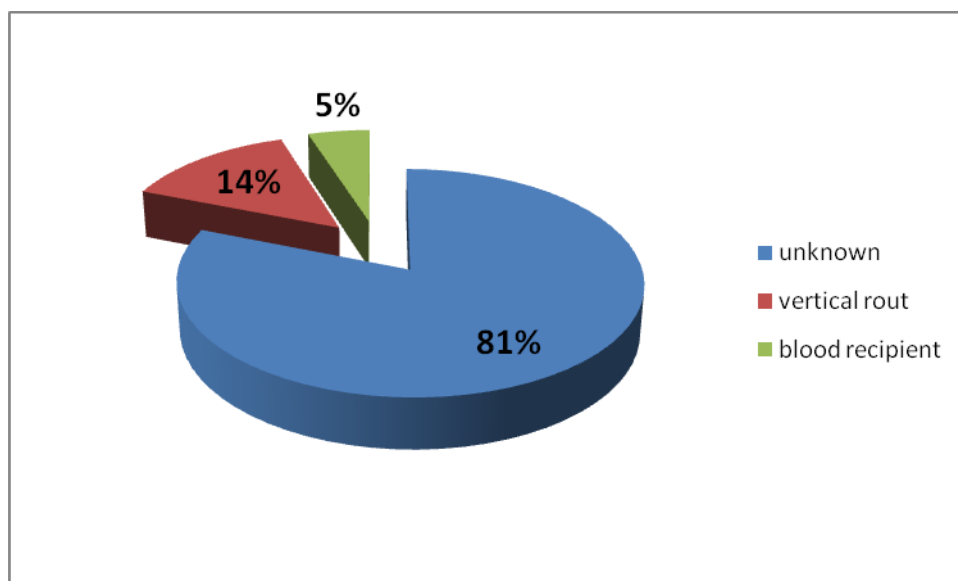
Georgian Obstetrics and Gynecologists Association

Millennium Development Goal 6 is to fight HIV/AIDS and malaria, since AIDS is not epidemic but it is already pandemic as it is spread in all continents. According to 2007 data 30 million people live with HIV worldwide, among them 2,7 million people were newly infected with HIV, 2,0 million people died from HIV, among them were 27 000 children. Currently 7 million people need therapy worldwide.

By September 14, 2009 a total of 2110 HIV/AIDS cases have been registered in the Infectious Diseases, AIDS and Clinical Immunology Research centre, including 1585 men and 526 women. The majority of patients are within the age group of 29-40. 1125 patients developed AIDS. 459 patients have died. 556 patients receive antiretroviral therapy, 26 of them are children. 259 newly infected cases are revealed. HIV infection can be transmitted sexually or by blood, and vertically i.e. from mother to child- during pregnancy(25), birth(3) or through breastfeeding (75%).

The Global Fund to Fight AIDS, Tuberculosis and Malaria is actively collaborates with Georgia as with many countries worldwide. It carries out several programs in our country; one of them is “Preventing Mother-to-Child Transmission of HIV”. The program has been implementing by Georgian Obstetrics and Gynecologists Association and Georgian Infectious Diseases, AIDS and Clinical Immunology Research Center. The main objective is to prevent mother-to-child transmission of HIV. By Septemeber 14, 2009 a total of 50 children infected with HIV were registered including 31 boys and 19 girls. Among them 16 have died and 3 left the country. Currently 30 children are under surveillance of AIDS centre, 24 of which recieve antiretroviral therapy, while the others do not need any therapy.

Prevelance of HIV cases in children by routes of transmission, Georgia 1999-2008



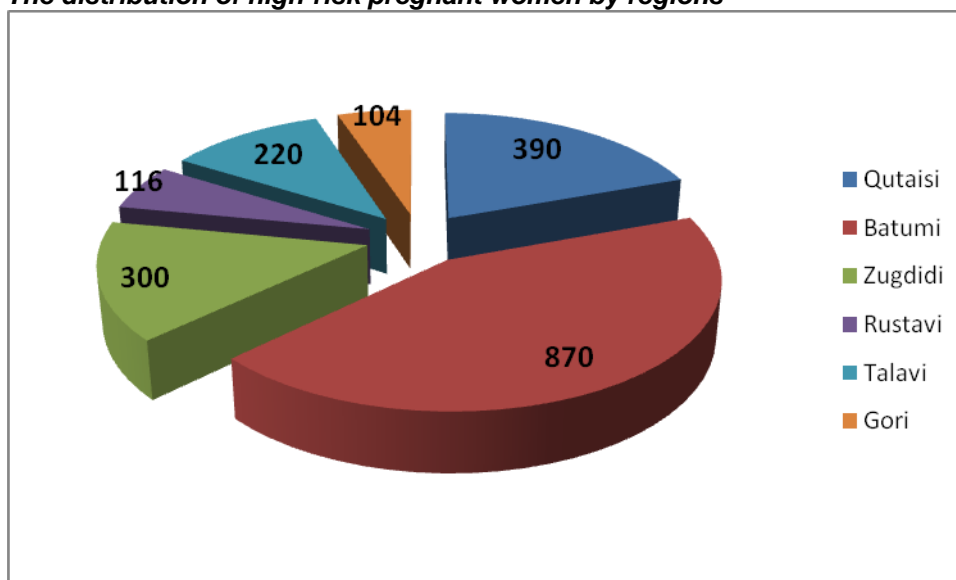
In the absence of antiretroviral therapy the rates of mother-to-child vertical transmission of HIV was reported to occur in 16-25%, the risk of HIV perinatal transmission from mother to child can be reduced to 1% by using the following methods: effective antiretroviral therapy; elective Caesarean Section; avoidance of breastfeeding.

1. Effective preventive therapy includes treatment of HIV infected pregnant women from 24 weeks of gestation with antiretroviral drugs, in particular to use combination of 4 drugs (zidovudine+lamivudine+saquinavir+ritonavir). The therapy has preventive character and is carried out according to HIV status of pregnant woman.
2. Elective C/S delivery must be planned on 38 weeks of gestation, as pregnant women with HIV trend to preterm delivery.
3. HIV infection can be transmitted from mother to child through breastfeeding, so pregnant women with HIV are recommended to use artificial feeding of infants.

The program implementation began in September 15, 2004.

During 2004-2005 program was conducted in pilot way in six big cities of Georgia: Batumi, Zugdidi, Qutaisi Gori, Rustavi, Telavi. During this period within the framework of the project the following activities were carried out: 20 trainings were held, 307 ob-gyns and neonatologists were trained, voluntary counseling on HIV/AIDS were carried out for 12 187 pregnant women, voluntary testing for HIV/AIDS of 5 888 pregnant women were conducted; 3 HIV positive pregnant woman were revealed. At the same time the epidemiological trial was conducted – 2000 high-risk pregnant woman were involved to study the prevalence of high-risk behaviour and HIV infection in pregnant women (participants were within the age group of 15-44).

The distribution of high-risk pregnant women by regions



As a result of the study the level of knowledge on preventing mother to child transmission of HIV/AIDS was evaluated. The study analysis revealed that it is important to expand the education-information company in the country.

While evaluating the pilot project the following objectives have been put: to promote the project in all regions of Georgia, to develop the communicative strategy on preventing mother to child transmission of HIV/AIDS and to implement theme media-company, and preventive therapy of all pregnant women and child with HIV.

Health and health care, Georgia, 2008

From 2006 the program covers the whole Georgia, all women consultation centres and maternity houses of country are involved.

The program tightly collaborates with The Ministry of Labor, Health and Social Affairs of Georgia, with support of the latter The State Program - screening of pregnant women on HIV/AIDS- has been implementing. Within the program the HIV infected women are evaluated, who were detected by above mentioned program.

From 2006 up nowadays the following activities had been carried out within the framework of the program: trainings of ob-gyns and neonatologists were held across the whole country, 1085 ob-gyns and neonatologists were prepared; Video and radio clips have been shown on 1st channel of Georgian Television and 1st channel of Georgian Radio; articles and messages were prepared and published in popular female magazine "Tbiliselebi"; the protocol on preventing mother to child transmission of HIV items was developed; the guide for pregnant women with HIV and newborn care "Preventing Mother-to-child Transmission of HIV" were prepared and published; 65 pregnant woman with HIV received preventive antiretroviral therapy, they were under surveillance of AIDS center physicians from 28 weeks of gestation; The treatment included combination of four drugs: (zidovudine+lamivudine+saquinavir+ritonavir) .

61 pregnant women delivered, additional intravenous zidovudine was used during the labour. 51 women delivered through Cesarean sSection in #4, #5 Maternity Houses, M. Sharashidze Medical Centre, also in Zugdidi and Batumi Maternity Houses. 10 of which went through labour, 4 of them because of induction, the others status was determined after delivery. 61 infants received preventive therapy with syrups of zidovudine and nevirapine. The needed artificial feeding products were purchased for 48 infants.

During this period only one pregnant woman with HIV gave birth to HIV infected infant, because the mother began antiretroviral treatment late in pregnancy, at the same time patient had severe clinical stage of the disease.

The repeated epidemiological study was conducted in 2008 within program – the prevalence of high risk behaviour and HIV infection in pregnant women was assessed. 2000 high risk pregnant women of reproductive age were studied. The research was carried out under the same scheme.

According to 2005 and 2008 epidemiological study – evaluating the prevalence of HIV infection and high risk behaviour comparative analysis revealed that:

- Access to information on prevention of mother-to child HIV/AIDS transmission items is increased by 18%.
- Access to information on sexually transmitted infectious and how to prevent them is increased by 22%

GLOSSARY

Indicator	Calculation formula
1. Total number of population	$(\text{Total number of the male population}) + (\text{Total number of the female population})$
2. Birth rate per 1000 population	$(\text{Total number of live births}) / (\text{Total number of population}) * 1000$
3. Death rate per 1000 population	$(\text{Total number of deaths, all causes}) / (\text{Total number of population}) * 1000$
4. Natural increase per 1000 population	$(\text{Total number of live births} - \text{Total number of deaths, all causes}) / (\text{Total number of population}) * 1000$
5. Still birth ratio per 1000 births	$(\text{Total number of still births}) / (\text{Total number of live births} + \text{Total number of still births}) * 1000$
6. Infant mortality rate	$(\text{Total number of infant deaths}) / (\text{Total number of live births}) * 1000$
7. Early neonatal death rate per 1000 births	$(\text{Total number of early neonatal deaths}) / (\text{Total number of live births}) * 1000$
8. Late neonatal death rate per 1000 births	$(\text{Total number of late neonatal deaths}) / (\text{Total number of live births}) * 1000$
9. Post neonatal death rate	$(\text{Total number of infant deaths} - \text{Total number of early neonatal deaths} - \text{Total number of late neonatal deaths}) / (\text{Total number of live births}) * 1000$
10. Perinatal mortality ratio per 1000 births	$(\text{Total number of early neonatal deaths} + \text{Total number of still births}) / (\text{Total number of live births} + \text{Total number of still births}) * 1000$
11. Maternal deaths ratio per 100000 live births	$(\text{Total number of maternal deaths, all causes}) / (\text{Total number of live births}) * 100000$
12. Prevalence rate per 100000 population	$(\text{Total number of all registered cases of the diseases}) / (\text{Total number of population}) * 100000$
13. Incidence rate per 100000 population	$(\text{Total number of new cases of a diseases}) / (\text{Total number of population}) * 100000$

Health and health care, Georgia, 2008

14. Total number of physicians, full time equivalent, per 100000 population	$(\text{Total number of physicians, full time equivalent}) / (\text{Total number of population}) * 100000$
15. Total number of physicians, physical persons, per 100000 population	$(\text{Total number of physicians, physical persons}) / (\text{Total number of population}) * 100000$
16. Total number of the medium-level medical staff	$(\text{Total number of medium-level medical staff}) / (\text{Total number of population}) * 100000$
17. Total number of paramedics	$(\text{Total number of paramedics}) / (\text{Total number of population}) * 100000$
18. Total number of hospitals per 100000 population	$(\text{Total number of the in-patient clinics}) / (\text{Total number of population}) * 100000$
19. Total number of primary health care facilities per 100000 population	$(\text{Total number of primary health care facilities}) / (\text{Total number of population}) * 100000$
20. Total number of ambulance stations per 100000 population	$(\text{Total number of ambulance stations}) / (\text{Total number of population}) * 100000$
21. Total number of hospital beds	$(\text{Total number of hospital beds}) / (\text{Total number of population}) * 100000$
22. Hospitalization level	$(\text{Total number of hospital discharges, live and dead}) / (\text{Total number of population}) * 1000 \text{ or } 100000$
23. Average length of stay	$(\text{Total number of bed / days spent by patients in a hospital}) / (\text{Total number of all hospital discharges in the given hospital})$
24. Hospital bed rotation rate	$(\text{Total number of hospital discharges}) / (\text{Total number of hospital beds})$
25. Bed occupancy rate	$(\text{Total number of bed / days spent by patients in a hospital}) / (\text{Total number of hospital beds})$
26. Hospital case fatality rate	$(\text{Total number of deaths in the hospital}) / (\text{Total number of discharges from the given hospital}) * 100$
27. Surgical activity per 100000 population	$(\text{Total number of surgical operations}) / (\text{Total number of population}) * 100000$

Health and health care, Georgia, 2008

28. Post operation case fatality rate	$(\text{Total number of post operation deaths}) / (\text{Total number of operations in the given hospital}) * 100$
29. Total number of encounters with the primary health care system per 1 person per year	$(\text{Total number of encounters with the primary health care}) / (\text{Total number of population})$
30. Abortions ratio per 1000 live births	$(\text{Total number of abortions}) / (\text{Total number of live births}) * 1000$
31. Percent of caesarean sections from the total number of deliveries	$(\text{Total number of caesarean sections}) / (\text{Total number of deliveries}) * 100$
32. Caesarean sections ratio per 1000 live births	$(\text{Total number of caesarean sections}) / (\text{Total number of live births}) * 1000$
33. Tuberculosis vaccination coverage	$(\text{Total number of infants vaccinated against TB}) / (\text{Total number of population under 1 year of the age}) * 100$
34. DPT3 vaccination coverage	$(\text{Total number of infants vaccinated with DPT3}) / (\text{Total number of population under 1 year of the age}) * 100$
35. Measles vaccination coverage	$(\text{Total number of children vaccinated with measles vaccine under 2 years of age}) / (\text{Total number of children under 2 years of age}) * 100$
36. Polio vaccination coverage	$(\text{Total number of infants vaccinated with Polio3 vaccine}) / (\text{Total number of population under 1 year of the age}) * 100$

CERTAIN DEFINITIONS

Burden of disease

The burden of disease can be viewed as the gap between current health status and an ideal situation in which everyone lives into old age free of disease and disability. Causing the gap are premature mortality, disability and certain risk factors that contribute to illness. Disability adjusted life years (DALY) is an indicator, which cumulatively assesses a disease, disability and mortality influence upon the population health status.

DALYs for a disease are the sum of the years of life lost due to premature mortality (YLL) in the population and the years lost due to disability (YLD) for incident cases of the health condition. The DALY is a health gap measure that extends the concept of potential years of life lost due to premature death (PYLL) to include equivalent years of 'healthy' life lost in states of less than full health, broadly termed disability. One DALY represents the loss of one year of equivalent full health.

Health Adjusted Life Expectancy (HALE) is an indicator of overall population health. It combines measures of both age- and sex-specific health status, and age- and sex-specific mortality into a single statistic. HALE represents the number of expected years of life equivalent to years lived in full health, based on the average experience in a population.

HALE and DALY are indicators, which comprise mortality data and outcomes of non-fatal cases and produce cumulative measures of the population health. These indicators calculate the sum of the years of life lost due to premature mortality in the population and the years lost due to disability (YLD) for incident cases of the health condition.

DALYs are based on the mortality information, which comprises causes of death for each WHO region and regional epidemiologic assessments of disadvantage circumstances.

HALE national assessments are based upon the life tables and population surveys, which reveal influence of factors upon the general health status and mental health, and upon the detailed and formation about the main conditions causing disability.