

## مقدمة

مع الإهتمام المتزايد بالبيانات الصحية كركيزة اساسية للأنظمة الصحية المعاصرة، للسنة الثالثة على التوالي تساهم وزارة الصحة العامة بتوفير قاعدة بيانات صلبة تتضمن معلومات احصائية مستخرجة بمعظمها من قواعد بيانات الوزارة والتقديمات الصحية التي توفرها الوزارة على كافة الأراضي اللبنانية.

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د. محمد جواد خليفة



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*Head of Statistics Department*

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Table 1: Selected Health Indicators of Lebanon, 2004-2008

	Unit	2004	2005	2006	2007	2008	Latest figures (year)
Demographic Indicators							
Population Estimate*	1000 citizens	3755	3811	3867	3928	3993	3993 (2008)
Number of Births		73673	73770	76464	81552	85261	85261 (2008)
Number of Deaths		17774	18012	19965	21033	20288	20288 (2008)
Crude Birth Rate	per 1000 mid year pop	16.9	19.4	19.8	20.8	21.35	20.8 (2008)
Crude Death Rate	per 1000 mid year pop	4.1	4.7	5.2	5.3	5.08	5.3 (2008)
Population Growth Rate		1.58	1.47	1.46	1.54	1.63	1.63 (2008)
Population by Age							
< 15	percent	27.3		27.2	27.2	24.6	24.6 (2007)
65+	percent	7.4		7.7	7.7	9.6	9.6 (2007)
Dependency ratio		53.3		53.6	53.6	52	52 (2007)
Unemployment Ratio		9.2					9.2 (2004)
Total Fertility Rate		1.9					1.9 (2004)
Budgetary Resources Indicators							
Allocated to MOH from Total Gov Budget	percent	3.67	3.6	3.12	3.05	3.26	3.26 (2008)
Annual Budget of MOH	Billion Leb. Pounds	344.1	360.3	348.8	361.6	373.9	373.9 (2008)
Annual Budget of MOH per capita	in \$US	52.5	63.3	60.1	61.1	62.1	62.1 (2008)
National Health Expenditure per capita	in \$US	456	460				460 (2005)
National Health Expenditure as % GDP	percent	8.8	8.3				8.3 (2005)
Manpower and Physical Resource Indicators							
per 10,000 population							
Physicians		27.5	27.4	28.4	28.5		n=11186 (2007)
Dentists		10.2	10.1	9.8	10.9		n=4200 (2007)
Pharmacists		9.8	11.5	13.8	12.1		n=4667 (2007)
Nursing and Midwifery Personnel			16.1	13.2	17.9		n=6931 (2007)
Hospital Beds			36	36	35		n= 13500 (2007)
Coverage with Primary Health Care Indicators							
Infants Fully Immunized-DPT	Percent Immunized	45.3		46	52	93	93 (2008)
Infants Fully Immunized-OPV	Percent Immunized	45.3		46	52	94	94 (2008)
Infants Fully Immunized-Measles	Percent Immunized	63.3		48.5	55	89	89 (2008)
Infants Fully Immunized-Hepatitis B	Percent Immunized	50.6		46	52	93	94 (2008)
Population with Access to Safe Drinking Water	percent	100					100 (2004)
Married Women Using Contraceptives	percent	58					58 (2004)
Health Status Indicators							
Infant Mortality Rate	per 1000 LB	18.6					18.6 (2004)
Less than five mortality rate	per 1000 LB	19.1					19.1(2004)
Maternal Mortality Ratio	per 100,000 LB	86.3					86.3 (2004)
Selected Morbidity Indicators							
Number of Notified Cases							
Cholera		0	0	0	0	0	0
Polio		0	0	0	0	0	0
Measles		261	644	905	374	24	374
Pulmonary TB		238	131	120	264	199	264
Diphtheria		0	0	0	0	0	0
Tetanus		1	3	0	3	2	3
Neonatal Tetanus		0	0	0	2	0	2
Malaria		68	57	23	40	39	40
AIDS		23	24	12	50	35	50
Sources of Information							
Household Survey 2004, MOSA/CAS				PapFam 2004, MOSA/CAS			
Household Survey, 2007, MOSA/CAS							
MOPH figures, *Only in public sector				National Vaccination figures (Public and private)			
Estimated Population from the 2004 Household survey(CAS)in addition to Registered Births and Deaths at Dept of Statistics							
Baseline Growth Rate taken From CAS 1997 with a decrement every 5 years					NHA 2004-2005		
Epidemiological Surveillance Unit	NAP (National AIDS Program)	TB Prevention Program		Syndicates' figures			
TB Prevention Programme				Government Budget ارقام الموازنة العامة			

\* Excluding Palestinian Camps.



Table 2: MOPH Itemized Budget for the Past Three Years (Thousands LBP\*)

	2008	2007	2006	موزانية وزارة الصحة العامة بحسب بنودها الثلاث سنوات الأخيرة (الآلاف الليرات اللبنانية)
Hospitalization in private sector	256,000,000	250,000,000	238,875,000	نقلات استشفاء في القطاع الخاص
Public Hospitals	15,000,000	15,000,000	12,054,000	مستشفيات حكومية
Drugs	52,500,000	50,000,000	48,000,000	لوية
Contributions to NGOs	12,817,770	12,617,770	13,417,770	مساهمات للقطاع غير الحكومي
Salaries and other employees' benefits	24,052,860	24,173,000	24,535,092	المخصصات والرواتب والأجور
Other Expenses	11,047,403	7,950,800	9,189,638	نقلات أخرى
Central Laboratory (Part One)	992,192	990,100	1,145,500	المختبر المركزي جزء أول
Part Two (Central Lab+MOPH)	1,507,000	900,000	1,572,000	الجزء الثاني (وزارة الصحة + المختبر المركزي)
Total MOPH Budget	373,917,225	361,631,670	348,789,000	مجموع موزانية وزارة الصحة العامة
Total Government Budget	11,475,000,000	11,840,000,000	11,195,000,000	مجموع الموزانية العامة
Government Debt	4,650,000,000	4,900,000,000	4,653,000,000	ديون متوجبة الاداء
Total Government Budget Excluding Debt	6,825,000,000	6,940,000,000	6,542,000,000	مجموع الموزانية العامة بدون الديون المتوجبة
MOPH Budget out of Total Government Budget (with debt)	3.26	3.05	3.12	نسبة موزانية وزارة الصحة الى الموزانية العامة/مع خدمة الدين
MOPH Budget out of Total Government Budget (without debt)	5.48	5.21	5.33	نسبة موزانية وزارة الصحة الى الموزانية العامة/ بدون خدمة الدين

Source: Government Budget 2006, 2007, 2008

\* One USD = 1,507.5 LBP

المصدر: الموزانية العامة، 2006-2007-2008

The MOPH budget continues to be around 3% of the Total Government Budget with its being partitioned majorly between hospital medical care of more than 72% and drug procurement of 14% with a slight increase of 1% from last year's budget.

There was registered and reported 85,261 births in Lebanon during the year 2008, with the highest number of births being reported in Beirut (8674) followed by Akkar (8608), Saïda (8553) then Baalback (7710) and the lowest number being reported in Bcharri (655). It is worth mentioning that from the 85,261 births registered in 2008, only 68,613 occurred in 2008, with a delay in reporting of around 19% which might be mostly caused by births occurring outside Lebanon.

Table 3: Number of Registered Births By Month and Qada, 2008

Qadaa	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	908	732	805	686	699	635	744	684	536	877	750	552	8608
Aley	179	162	132	159	136	195	271	226	164	192	118	179	2113
Baabda	168	146	190	157	144	162	187	256	158	170	164	152	2054
Baalback	635	641	677	671	625	650	692	753	650	628	590	498	7710
batroun	62	53	60	55	73	58	71	79	66	81	57	55	770
Bcharri	57	49	57	44	42	34	63	94	70	47	48	50	655
Begaa gharbi	176	149	179	208	183	159	161	180	178	172	199	154	2098
bint jbeil	332	344	401	276	281	337	372	441	326	413	298	268	4089
Chouf	308	299	278	291	329	351	371	330	352	349	321	264	3843
Hasbaya	85	80	96	73	75	96	83	118	80	96	82	83	1047
Hermel	164	165	141	133	139	117	185	143	158	170	169	127	1811
Jbeil	134	107	124	108	118	137	130	146	118	156	128	105	1511
Jezzine	61	77	87	74	97	72	82	113	79	93	85	68	988
Kesseronan	102	105	98	110	112	117	142	132	126	128	95	114	1381
Koura	48	53	39	69	59	58	84	85	59	73	62	46	735
Marjeyon	263	213	278	277	209	271	280	368	288	271	750	192	3660
menieh-dennieh	371	257	345	265	249	252	279	313	316	328	242	233	3450
Metn	213	168	193	177	144	160	164	183	183	199	136	119	2039
Nabatieh	290	375	287	181	266	214	290	303	253	96	220	246	3021
Rachaya	75	54	53	85	86	99	70	83	68	97	58	67	895
Saïda	696	696	741	577	630	715	750	880	744	918	689	517	8553
Sour	434	387	456	420	434	354	454	569	633	412	493	383	5429
Tripoli	562	466	414	472	375	391	427	527	491	495	488	332	5440
Zahle	320	320	284	267	280	296	378	385	345	303	295	216	3689
Zgharta	71	62	83	49	93	46	118	94	145	92	81	64	998
Beirut	737	612	684	627	696	597	955	915	661	810	715	665	8674
Total	7451	6772	7182	6511	6574	6573	7803	8400	7247	7666	7333	5749	85261



Table 4: Number of Registered Deaths By Month and Qada, 2008

Qada	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	154	127	134	97	154	85	146	109	108	152	150	81	1497
Aley	67	92	73	58	71	71	72	69	73	65	84	64	859
Baabda	64	61	73	79	54	66	47	56	66	64	48	59	737
Baalback	25	0	0	25	21	29	9	28	32	118	108	105	500
batroun	46	39	41	26	28	31	24	33	32	22	29	26	377
Beharri	23	29	18	27	27	34	14	20	25	21	21	17	276
Begaa gharbi	39	42	49	54	39	21	36	36	39	31	43	36	465
bint jbeil	59	68	61	61	43	65	59	70	41	63	70	57	717
Chouf	102	128	91	105	101	93	95	99	81	93	97	118	1203
Hasbaya	22	28	26	13	17	15	18	19	12	19	19	24	232
Hermel	27	18	21	19	13	20	12	8	8	16	16	10	188
Jbeil	55	54	46	46	40	41	42	33	42	40	37	41	517
Jezzine	23	43	39	34	35	32	33	39	36	25	34	35	408
Kesserouan	75	62	43	57	51	57	61	40	69	57	50	69	691
Koura	29	28	25	36	31	27	22	23	30	24	30	21	326
Marje3yon	35	53	33	40	40	53	37	50	44	45	150	40	620
menieh-dennieh	68	48	61	49	49	56	60	45	31	54	35	49	605
Metn	103	116	114	102	93	70	99	90	89	89	99	103	1167
Nabatieh	33	46	52	44	47	37	6	42	5	19	10	45	386
Rachaya	23	17	13	20	11	13	22	22	13	28	20	14	216
Saida	202	202	163	134	148	150	133	150	113	164	132	126	1817
Sour	63	103	100	75	64	69	83	79	74	76	73	77	936
Tripoli	122	114	56	81	75	86	76	100	99	74	84	80	1047
Zahle	87	97	88	86	86	73	82	98	76	94	82	79	1028
Zgharta	38	26	36	31	26	27	23	18	29	30	31	25	340
Beirut	298	257	274	218	206	206	225	243	210	360	340	296	3133
Total	1882	1898	1730	1617	1570	1527	1536	1619	1477	1843	1892	1697	20288

There was registered and reported 85,261 births in Lebanon during the year 2008, with the highest number of births being reported in Beirut (8674) followed by Akkar (8608), Saïda (8553) then Baalback (7710) and the lowest number being reported in Bcharri (655). It is worth mentioning that from the 85,261 births registered in 2008, only 68,613 occurred in 2008, with a delay in reporting of around 19% which might be mostly caused by births occurring outside Lebanon.

This is the estimated number of children less than two years of age which might be used as baseline for calculating vaccination coverage rate. It is a direct estimate based on the actual reported numbers of births and deaths in each Qada, and assuming that they reside as per their qada of origin and experience the national infant and child mortality rates prevailing in that same period.

Table 5: Estimated Number of Children Less-Than-Two-Years of Age By Qada of Origin

Qada	Births 2006	surviving till beginning 2007*	Births 2007	Estimated number of Children <2 at beginning 2008**	Births 2008	Estimated Number of Children less than 2 years mid-year 2008	Estimated Number of Children less than 2 years at Beginning of 2009
Akkar	2250	2,208	7744	9766	8608	13803	16044
Aley	2049	2,011	2124	4057	2113	5016	4157
Baabda	1890	1,855	1908	3692	2054	4629	3887
Baalback	7679	7,536	7045	14306	7710	17816	14477
Batroun	989	971	815	1752	770	2096	1555
Behari	654	642	630	1248	655	1545	1261
Begaa gharbi	2190	2,149	2057	4127	2098	5078	4077
Bint jbeil	3821	3,750	3854	7461	4089	9325	7793
Chouf	3704	3,635	3777	7272	3843	9019	7476
Haabaya	1044	1,025	1016	2002	1047	2478	2024
Hermel	1656	1,625	1527	3093	1811	3922	3275
Jbeil	1489	1,461	1521	2926	1511	3612	2975
Jezzine	990	972	982	1917	988	2365	1933
Kesseronan	2067	2,029	1150	3118	1381	3737	2483
Koura	941	923	830	1720	735	2048	1535
Marja'yon	2798	2,746	3183	5817	3660	7502	6714
Menieh-dennieh	3609	3,542	3443	6853	3450	8415	6763
Metn	2155	2,115	2226	4259	2039	5178	4185
Nabatieh	3945	3,872	3918	7643	3021	8979	6808
Rachaya	4025	3,950	1047	4902	895	5248	1905
Saïda	7016	6,886	8269	14869	8553	18782	16505
Sour	1621	1,591	5097	6563	5429	9101	10328
Tripoli	5755	5,648	5067	10513	5440	12981	10309
Zahle	3676	3,608	3401	6876	3689	8555	6956
Zgharta	916	899	932	1796	988	2252	1894
Beirut	7535	7,395	7989	15094	8674	19062	16349
Total	76464	75,042	81552	153644	85261	192547	163670

\*Births after experiencing the Prevailing Infant Mortality Rate of that period (18.6 per 1000)

\*\*After experiencing the Child Mortality Rate (19.1 per 1000) and Infant Mortality Rate (18.6 per 1000) of that period.



Table 6: Resident Population\* Distribution By Mhafaza and Qada, 2004-2008

Mhafaza	Qaza	Population 2004	Population 2005	Population 2006	Population 2007	Population 2008	% Qada out of total population 2008
North	Akkar	226,752	230,119	233,546	240,044	247,155	6.19
	Minieh Darnieh	112,303	113,971	115,668	118,490	121,335	3.04
	Tripoli	256,360	260,166	264,040	267,922	272,315	6.82
	Zgharta	56,868	57,712	58,572	59,141	59,799	1.50
	Koura	55,583	56,408	57,248	57,754	58,163	1.46
	Behireh	19,872	20,167	20,468	20,839	21,218	0.53
	Barroun	40,964	41,572	42,191	42,634	43,027	1.08
	Total	768,702	780,116	791,732	806,823	823,011	21
	Begaa	47,189	47,890	48,693	49,886	51,509	1.29
	Baalbeck	187,992	190,783	193,624	199,311	206,521	5.17
Nabatieh	Zahleh	141,358	143,457	145,593	147,837	150,498	3.77
	Rachaya	28,805	29,233	29,668	30,467	31,146	0.78
	West Begaa	65,860	66,838	67,833	69,470	71,103	1.78
	Total	471,205	478,202	485,322	496,972	510,778	12.79
	Nabatieh	99,487	100,964	102,468	105,787	108,422	2.72
	Hasbaya	21,000	21,312	21,629	22,387	23,202	0.58
	Marjayoun	44,239	44,895	45,564	46,172	46,812	1.18
	Bint Jbeil	57,119	57,967	58,830	60,019	61,391	1.54
	Total	221,844	225,138	228,490	238,364	248,226	6.22
	South	183,881	186,612	189,390	195,820	202,556	5.07
Total	Sour	194,622	197,512	200,453	204,635	209,128	5.24
	Jezzine	22,690	23,027	23,370	23,998	24,578	0.62
	Total	401,193	407,151	413,213	424,453	436,262	10.93
	Mount Lebanon	84,039	85,287	86,556	87,511	88,505	2.22
	Kesrouan	164,808	167,255	169,745	170,173	170,863	4.28
	Mein	483,783	490,967	498,278	499,333	500,205	12.53
	Baabda	483,973	491,159	498,472	499,667	500,984	12.55
	Aley	129,053	130,970	132,920	134,240	135,494	3.39
	Chouf	155,901	158,216	160,571	163,119	165,759	4.15
	Total	1,501,556	1,523,853	1,546,543	1,554,044	1,561,811	39.11
Beirut	Beirut	390,499	396,298	402,199	407,362	412,903	10.34
	Total	390,499	396,298	402,199	407,362	412,903	10.34
TOTAL		3,755,000	3,810,758	3,867,500	3,928,019	3,992,992	100.00

\*Excluding Palestinian camps which count, according to UNRWA 2008 report, 422,188 persons

In 2008, there were estimated to be 3,992,992 persons residing in Lebanon. The highest percent of people reside in Mount Lebanon followed by the North, and the lowest percent in Nabatieh (6.22%). In addition to this number, the latest UNRWA statistics (Annual Report, 2008), report the number of Palestinians residing in the camps of Lebanon to be 422,188, which will make the total population estimated for 2008 to be around 4,415,180 residents all over the Lebanese territories.

Table 7: Resident Population\* Distribution by Age Group and Gender, 2008

Age groups	Percent			Population 2008		
	M	F	T	M	F	T
0-4	4.2	3.7	7.9	167,706	147,741	315,446
5-9	4.7	4.3	9.0	187,671	171,699	359,369
10-14	5.3	5.0	10.3	211,629	199,650	411,278
15-19	5.1	4.8	9.9	203,643	191,664	395,306
20-24	5.1	4.8	9.9	203,643	191,664	395,306
25-29	3.8	4.1	7.9	151,734	163,713	315,446
30-34	3.6	3.8	7.4	143,748	151,734	295,481
35-39	3.1	3.7	6.8	123,783	147,741	271,523
40-44	3.0	3.7	6.7	119,790	147,741	267,530
45-49	2.4	2.7	5.1	95,832	107,811	203,643
50-54	2.2	2.2	4.4	87,846	87,846	175,692
55-59	1.7	1.9	3.6	67,881	75,867	143,748
60-64	1.6	1.8	3.4	63,888	71,874	135,762
65-69	1.5	1.5	3.0	59,895	59,895	119,790
70-74	1.2	1.1	2.3	47,916	43,923	91,839
75-79	0.7	0.7	1.4	27,951	27,951	55,902
80-84	0.4	0.4	0.8	15,972	15,972	31,944
85+	0.1	0.1	0.2	3,993	3,993	7,986
Total	49.7	50.3	100.0	1,984,517	2,008,475	3,992,992

\*Excluding Palestinian camps which count, according to UNRWA 2008 report, 422,188 persons





Table 8: Resident Population\* Distribution by Age Group and Qada, 2008

Qada	%	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Akkr	6.19	19,525	22,244	25,457	24,468	24,468	19,525	18,289	16,807	16,559	12,605	10,875	8,898	8,403	7,415	5,685	3,460	1,977	494	247,155
Minieh Danteh	3.04	9,585	10,920	12,497	12,012	12,012	9,585	8,799	8,251	8,129	6,188	5,339	4,368	4,125	3,409	2,791	1,699	971	243	121,335
Tripoli	6.82	21,513	24,308	28,048	26,059	26,059	21,513	20,151	18,517	18,245	13,888	11,982	9,803	9,259	8,169	6,263	3,812	2,179	545	272,315
Zagharra	1.50	4,724	5,382	6,159	5,920	5,920	4,724	4,425	4,066	4,007	3,050	2,631	2,153	2,033	1,794	1,375	837	478	120	59,799
Koura	1.46	4,595	5,235	5,991	5,738	5,738	4,595	4,304	3,955	3,897	2,966	2,559	2,094	1,978	1,745	1,338	814	465	116	58,163
Beitreh	0.53	1,676	1,910	2,185	2,101	2,101	1,676	1,570	1,443	1,422	1,082	934	764	721	637	488	297	170	42	21,218
Batroun	1.08	3,399	3,872	4,432	4,260	4,260	3,399	3,184	2,926	2,883	2,194	1,893	1,549	1,463	1,291	990	602	344	86	43,027
Hamel	1.29	4,069	4,636	5,305	5,099	5,099	4,069	3,812	3,503	3,451	2,627	2,266	1,854	1,751	1,545	1,185	721	412	103	51,509
Baalbeck	5.17	16,315	18,587	21,272	20,446	20,446	16,315	15,283	14,043	13,837	10,533	9,087	7,435	7,022	6,196	4,750	2,891	1,652	413	206,521
Zahleh	3.77	11,889	13,545	15,301	14,899	14,899	11,889	11,137	10,234	10,083	7,675	6,622	5,418	5,117	4,515	3,461	2,107	1,204	301	150,498
Rachaya	0.78	2,461	2,803	3,208	3,083	3,083	2,461	2,305	2,118	2,087	1,588	1,370	1,121	1,059	934	716	436	249	62	31,146
West Beqaa	1.78	5,617	6,399	7,324	7,039	7,039	5,617	5,262	4,835	4,764	3,626	3,129	2,560	2,418	2,133	1,635	995	569	142	71,103
Nabatieh	12.79	8,565	9,738	11,167	10,734	10,734	8,565	8,023	7,373	7,264	5,529	4,771	3,903	3,686	3,253	2,494	1,518	867	217	108,422
Harajug	0.88	1,833	2,088	2,390	2,297	2,297	1,833	1,717	1,578	1,555	1,183	1,021	835	789	696	534	325	186	46	23,202
Marjayoun	1.28	4,046	4,609	5,275	5,070	5,070	4,046	3,790	3,482	3,431	2,612	2,253	1,844	1,741	1,536	1,178	717	410	102	51,212
Bint Jbeil	1.64	5,166	5,885	6,735	6,474	6,474	5,166	4,839	4,447	4,381	3,335	2,877	2,354	2,223	1,962	1,504	915	523	131	65,391
	6.22																			
Saida	16.002	18,230	20,863	20,053	20,053	20,053	16,002	14,989	13,774	13,571	10,330	8,912	7,292	6,887	6,077	4,659	2,836	1,620	405	202,556
Sour	5.24	16,521	18,822	21,540	20,704	20,704	16,521	15,475	14,221	14,012	10,666	9,202	7,529	7,110	6,274	4,810	2,928	1,673	418	209,128
Jezzine	0.62	1,942	2,212	2,532	2,433	2,433	1,942	1,819	1,671	1,647	1,253	1,081	885	836	737	565	344	197	49	24,578
	10.93																			
Jbeil	2.22	6,992	7,965	9,116	8,762	8,762	6,992	6,549	6,018	5,930	4,514	3,894	3,186	3,009	2,655	2,036	1,239	708	177	88,505
Kesrouan	4.28	13,498	15,378	17,599	16,915	16,915	13,498	12,644	11,619	11,448	8,714	7,518	6,151	5,809	5,126	3,930	2,392	1,367	342	170,863
Mein	12.55	39,516	45,018	51,521	49,520	49,520	39,516	37,015	34,014	33,514	25,510	22,009	18,007	17,007	15,006	11,505	7,003	4,002	1,000	500,205
Baalda	12.55	40,589	51,601	49,597	49,597	49,597	40,589	37,073	34,067	33,566	25,550	22,043	18,035	17,033	15,030	11,523	7,014	4,008	1,002	500,284
Alay	3.39	10,704	12,194	13,956	13,414	13,414	10,704	10,027	9,214	9,078	6,910	5,962	4,878	4,607	4,065	3,116	1,897	1,084	271	135,494
Chouf	4.15	13,095	14,918	17,073	16,410	16,410	13,095	12,266	11,272	11,106	8,454	7,293	5,967	5,636	4,973	3,812	2,321	1,326	332	165,759
	39.11																			
Beitrit	10.34	32,619	37,161	42,529	40,877	40,877	32,619	30,555	28,077	27,664	21,058	18,168	14,865	14,039	12,287	9,497	5,781	3,303	826	412,203
	10.34																			
TOTAL	100.00	315,446	359,360	411,278	395,306	395,306	315,446	293,481	271,523	267,530	203,643	175,692	143,748	135,762	119,790	91,839	55,902	31,944	7,986	3,592,992

\*Excluding Palestinian camps which count, according to UNRWA 2008 report, 422,188 persons



The Crude Birth Rate in 2008 was 21.35 per 1000 mid year population, and the Crude Death Rate was 5.08 per 1000 mid year population. The Natural Growth Rate was 1.63. In addition, 2,599,438 people were of the active age group without considering the unemployment among those.

Table 9: Resident Population\* Distribution by Age Group, Qada and Some Basic Indicators, 2008

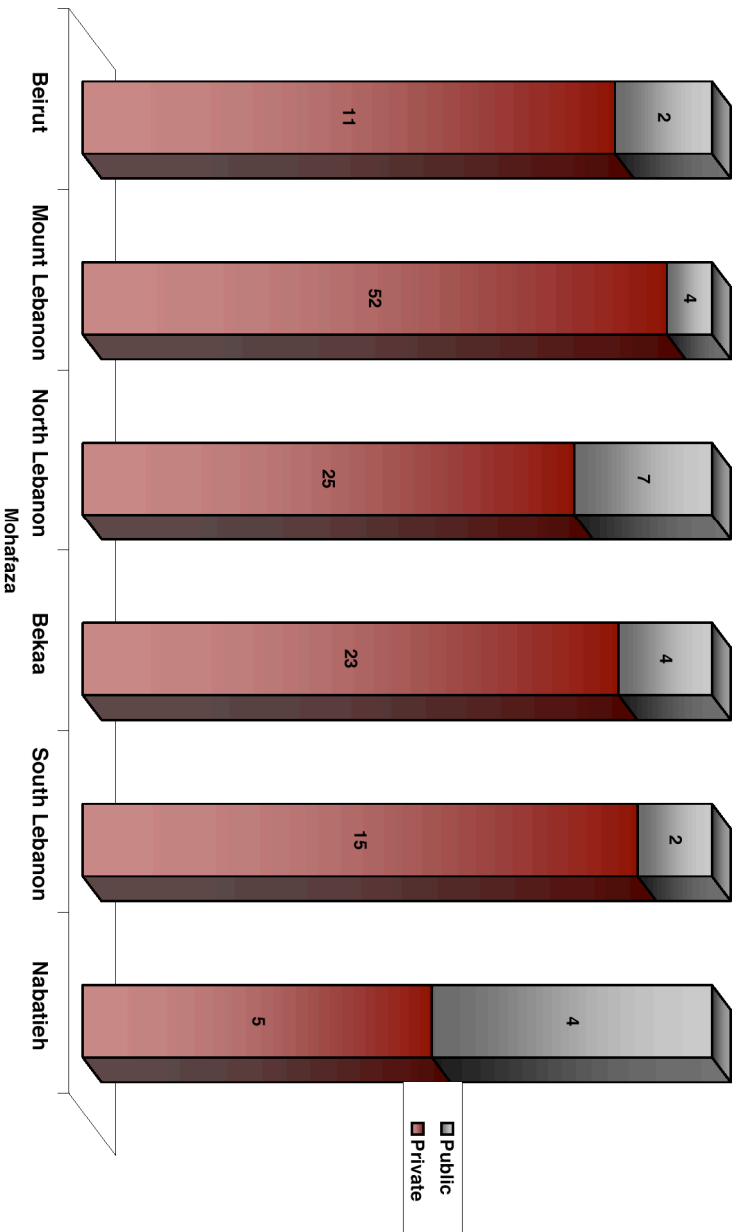
Qada	0-4	5-9	10-14	<15 years	>65 years	Active Population**	Total Population	Births	Deaths	CBR	CDR	NGR
<b>Akkar</b>	19,525	22,244	25,457	67,226	19,031	160,898	247,155	8668	1497	34.83	6.06	2.88
<b>Minieh Danieh</b>	9,585	10,920	12,497	33,003	9,343	78,899	121,335	3450	605	28.43	4.99	2.34
<b>Tripoli</b>	21,513	24,508	28,048	74,070	20,968	177,277	272,315	5440	1047	19.98	3.84	1.61
<b>Zgharta</b>	4,724	5,382	6,159	16,265	4,604	38,929	59,799	998	340	16.69	5.69	1.10
<b>Koura</b>	4,595	5,235	5,991	15,820	4,479	37,864	58,163	735	326	12.64	5.60	0.70
<b>Beitreh</b>	1,676	1,910	2,185	5,771	1,634	13,813	21,218	655	276	30.87	13.01	1.79
<b>Batroun</b>	3,399	3,872	4,432	11,703	3,313	28,011	43,027	770	377	17.90	8.76	0.91
<b>Hermel</b>	4,069	4,636	5,305	14,011	3,966	33,533	51,509	1811	188	35.16	3.65	3.15
<b>Baalbeck</b>	16,315	18,587	21,272	56,174	15,902	134,445	206,521	7710	500	37.33	2.42	3.49
<b>Zahleh</b>	11,889	13,545	15,501	40,936	11,588	97,974	150,498	3689	1028	24.51	6.83	1.77
<b>Rachaya</b>	2,461	2,803	3,208	8,472	2,398	20,276	31,146	895	216	28.74	6.94	2.18
<b>West Beqaa</b>	5,617	6,399	7,324	19,340	5,475	46,288	71,103	2098	465	29.51	6.54	2.30
<b>Nabatieh</b>	8,565	9,758	11,167	29,491	8,348	70,582	108,422	3021	386	27.86	3.56	2.43
<b>Hasbaya</b>	1,833	2,088	2,390	6,311	1,787	15,105	23,202	1047	232	45.13	10.00	3.51
<b>Marjayoun</b>	4,046	4,609	5,275	13,930	3,943	33,339	51,212	3660	620	71.47	12.11	5.94
<b>Bint Jbeil</b>	5,166	5,885	6,735	17,786	5,035	42,570	65,391	4089	717	62.53	10.96	5.16
<b>Saida</b>	16,002	18,230	20,863	55,095	15,597	131,864	202,556	8553	1817	42.23	8.97	3.33
<b>Sour</b>	16,521	18,822	21,540	56,883	16,103	136,142	209,128	5429	936	25.96	4.48	2.15
<b>Jezeine</b>	1,942	2,212	2,532	6,685	1,892	16,000	24,578	988	408	40.20	16.60	2.36
<b>Jbeil</b>	6,992	7,965	9,116	24,073	6,815	57,617	88,505	1511	517	17.07	5.84	1.12
<b>Kesrouan</b>	13,498	15,378	17,599	46,475	13,156	111,232	170,863	1381	691	8.08	4.04	0.40
<b>Metn</b>	39,516	45,018	51,521	136,056	38,516	325,633	500,205	2039	1167	4.08	2.33	0.17
<b>Baabda</b>	39,578	45,089	51,601	136,268	38,576	326,141	500,984	2054	737	4.10	1.47	0.26
<b>Aley</b>	10,704	12,194	13,956	36,854	10,433	88,206	135,494	2113	859	15.59	6.34	0.93
<b>Chouf</b>	13,095	14,918	17,073	45,087	12,763	107,909	165,759	3843	1203	23.18	7.26	1.59
<b>Beirut</b>	32,619	37,161	42,529	112,310	31,794	268,800	412,903	8674	3133	21.01	7.59	1.34
<b>TOTAL</b>	<b>315,446</b>	<b>359,369</b>	<b>411,278</b>	<b>1,086,094</b>	<b>307,460</b>	<b>2,599,438</b>	<b>3,992,992</b>	<b>85,261</b>	<b>20,288</b>	<b>21.35</b>	<b>5.08</b>	<b>1.63</b>

\*Excluding Palestinian camps which count, according to UNRWA 2008 report, 422,188 persons

\*\*Active Population: Population between 15-65 years of age regardless of their employment status.



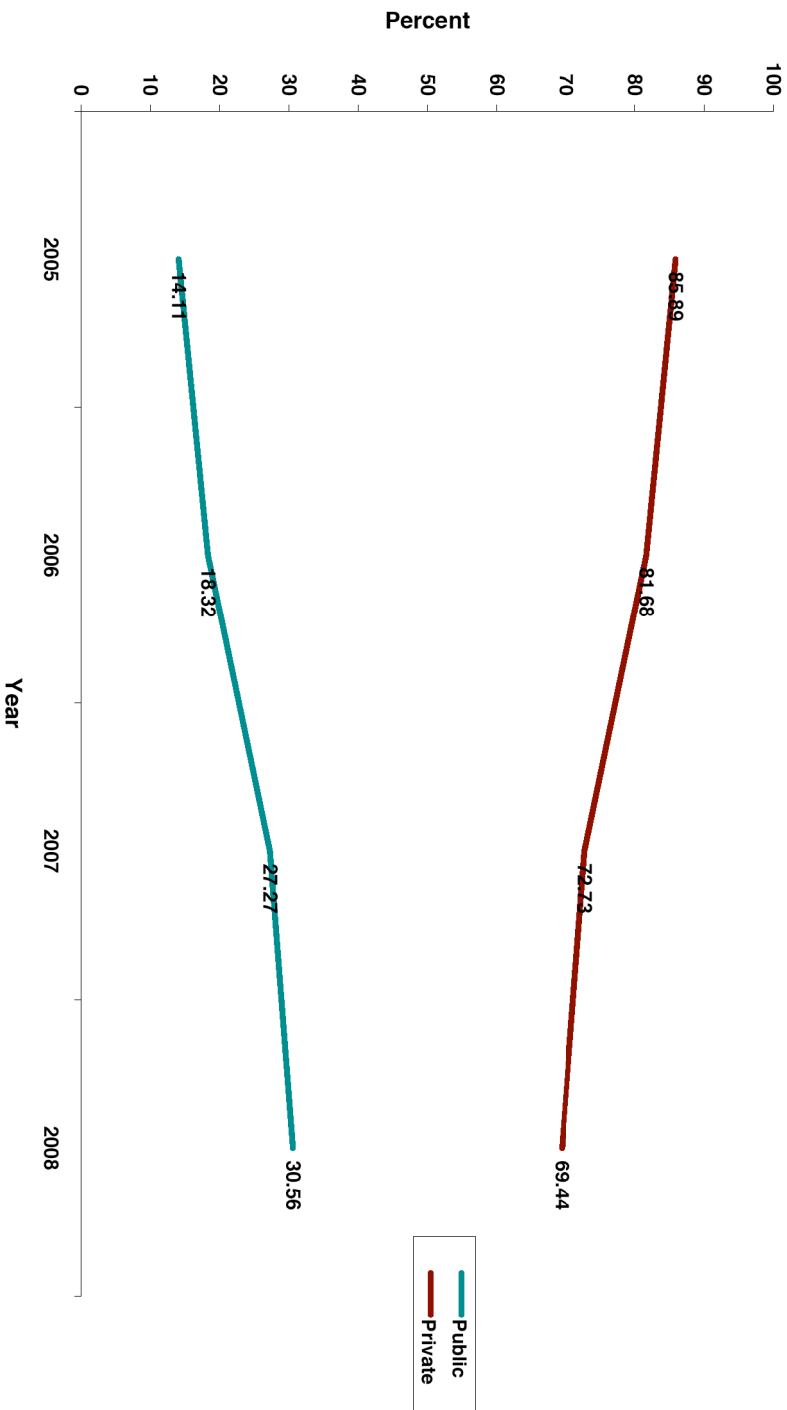
Graph 1 : Number of Hospitals Contracting With The MOPH By Mohafaza and Type, 2008



During 2008, there were 23 public hospitals and 131 private hospitals contracting with the Ministry of Health all over Lebanon. These hospitals were covering patients at a rate of 85% of the bill in the private hospitals, and 5% in the public hospitals. It is worth mentioning here that, according to the Household Survey 2007 (CAS, MOSA), 51.7% of the population had reported having no medical coverage, which makes them eligible for MOPH coverage (i.e. around 2,064,300 persons).

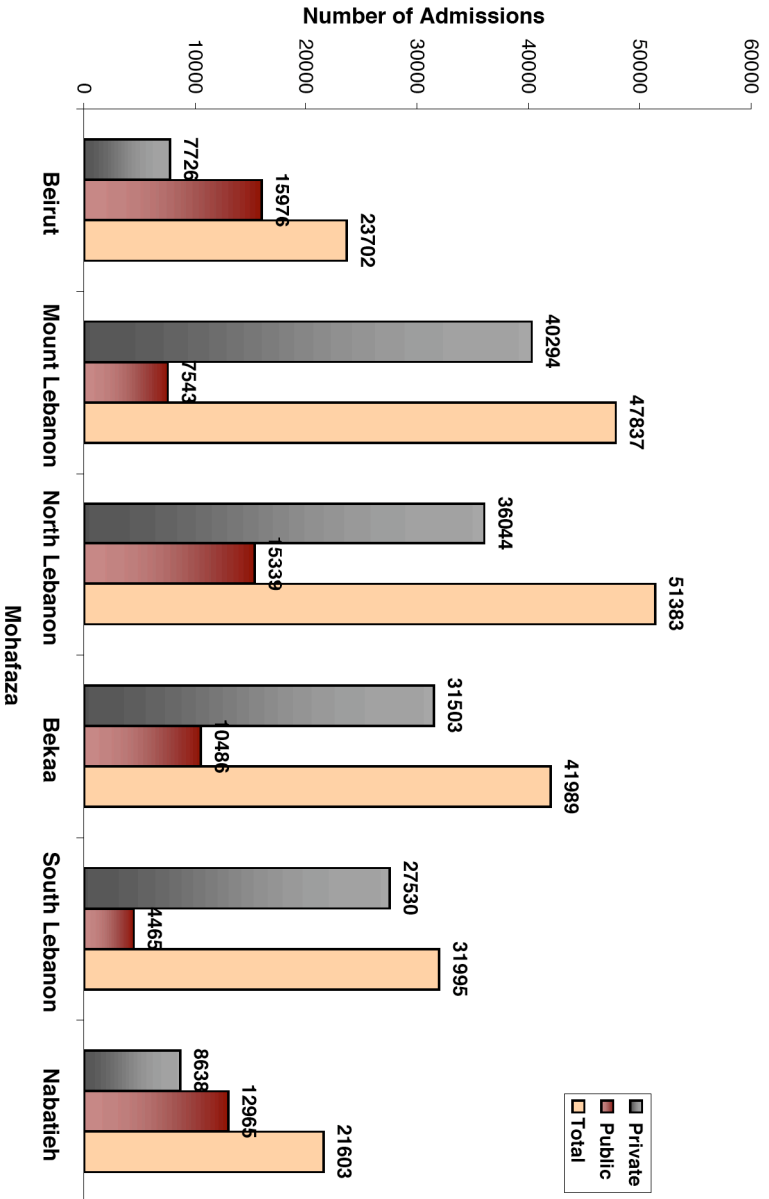
Year after year, the public hospitals are continuing to offer an improving quality services shown clearly by the increase in the number of subsidized admissions over the years as compared to the private hospitals. In 2008, around a third of the MOPH subsidized admissions were in public hospitals as compared to only 14% in 2005. It is a huge jump considering that there are only 23 public hospitals contracting with the ministry as compared to 131 private hospitals.

Graph 2: The Evolution of MOPH Subsidized Admissions in Public and Private Hospitals Between 2005 and 2008





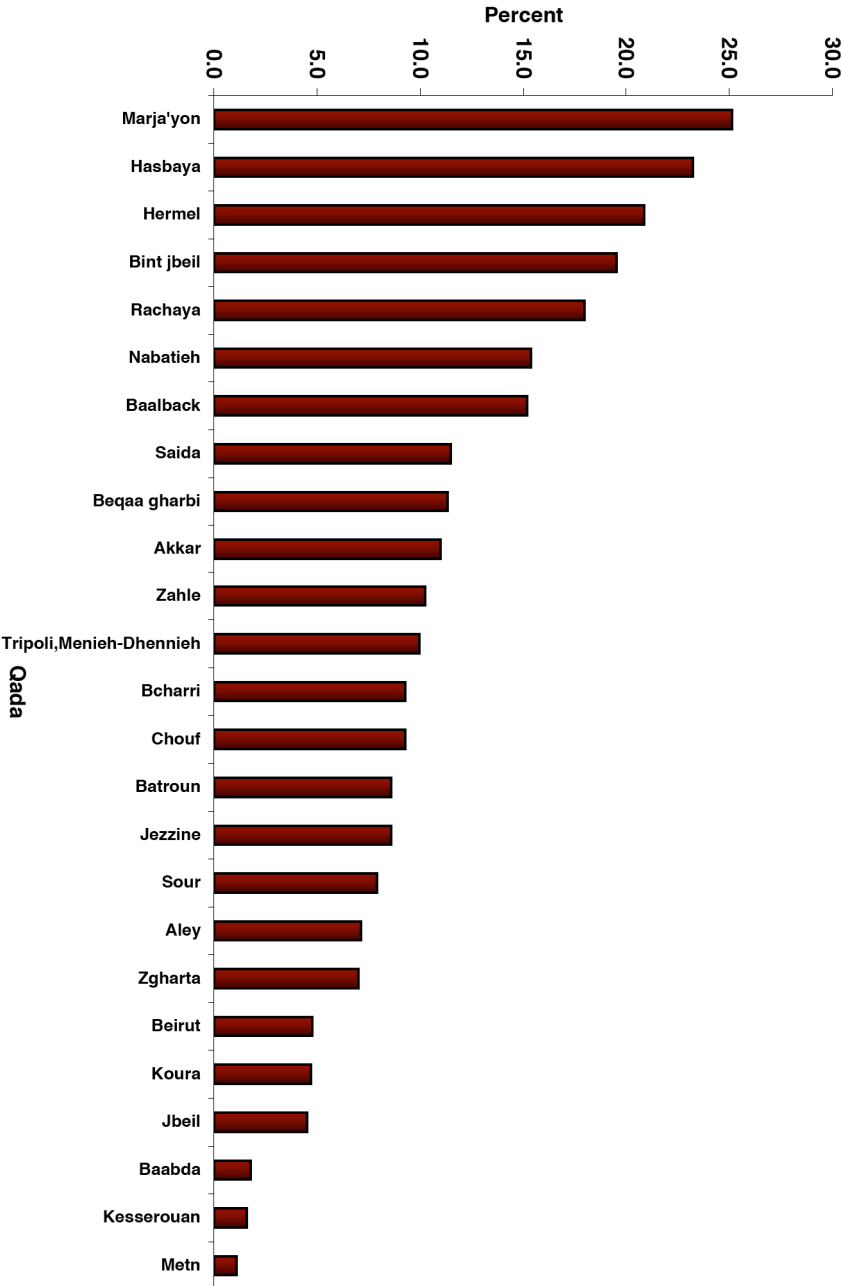
Graph 3: Number of MOPH Subsidized Admissions By Mohafaza and Type of Hospital, 2008



In 2008, 2,18,509 hospitalization approvals (public hospitals= 66,774, private hospitals=151,735) were issued to 157,755 patients all over Lebanon with an average ratio of 1.38 admissions per patient. The highest number of admissions was in North Lebanon and the lowest in Nabatieh. Among the private hospital admissions, Mount Lebanon ranked highest in number, while Beirut ranked lowest. In public hospitals' admissions, however, Beirut ranked highest followed by North Lebanon and Nabatieh, and this is due to the hospital load of the major public hospitals in the named Mohafazats, namely Rafik Hariri Governmental Hospital, Tannourine Governmental Hospital and Nabatieh Governmental Hospital.

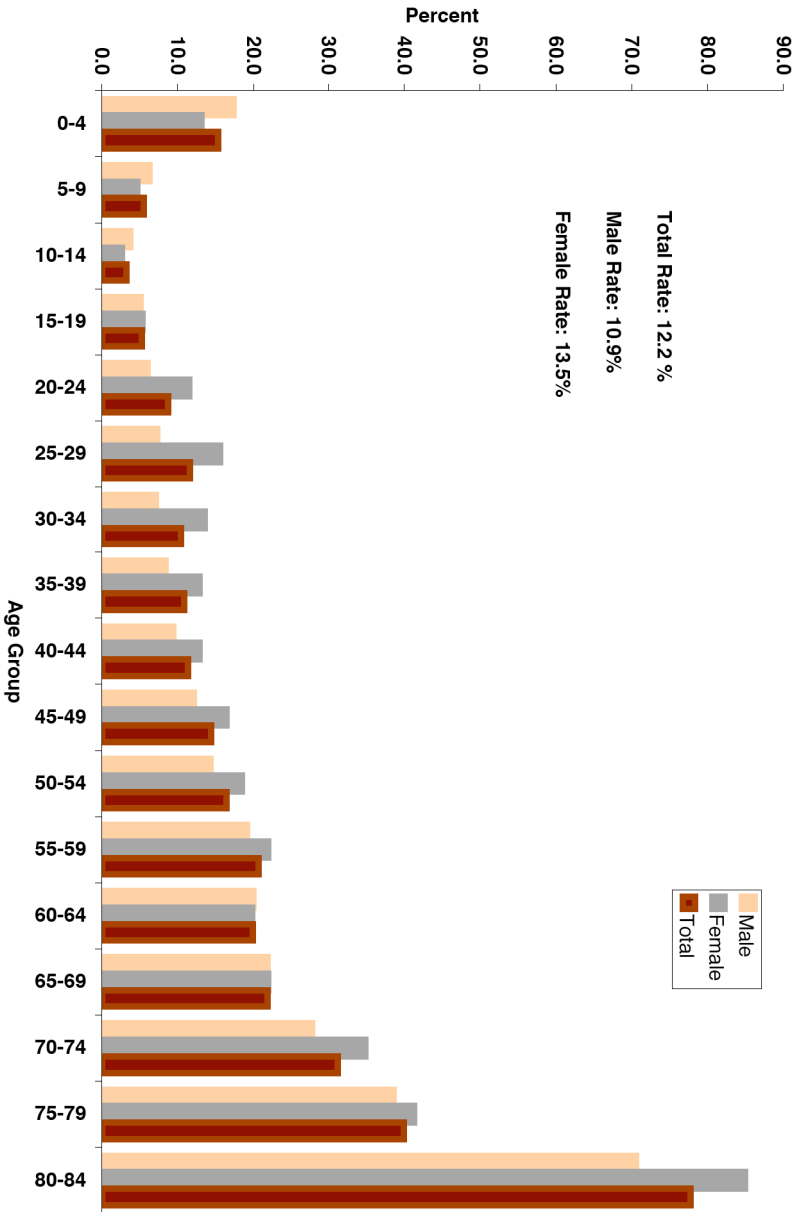
If we consider that 51.7% of the population is eligible for MOPH coverage (i.e. having no coverage as per Household Survey 2007), and knowing the number of covered patients in each Qada; when we plot the percent hospitalized patients, Marjeyoun showed the highest percent using the hospital services of MOPH with around 25% utilization rate, while the Metn showed the lowest with around 2%.

Graph 4: Percent Population Hospitalized Among Eligible Population By Qada, 2008





Graph 5: Percent Hospital Utilization Among Eligibles By Age Group and Gender, 2008



The Total Hospital Utilization rate among the eligible population was 12.2% (Males=10.9%, Females= 13.5%) considering that there are 2,064,377 eligibles (M= 1,025,995, F=1,038,382). When checked across age groups, it was shown that the males less than 15 years of age utilize hospital services more than females in those age groups. However, the female utilization rates in the age groups 15 and higher were higher than males across all categories of age.

Table 10: MOPH Subsidized Hospital Admissions By Categories of Diagnosis and Gender, 2008

ICD10	Codes	Description	M	F	T
<b>Chapter 1</b>	<b>A00-B99</b>	<b>Certain Infectious and Parasitic Diseases</b>	<b>M</b>	<b>F</b>	<b>T</b>
	A00-A09	Intestinal Infectious Diseases	4,699	4,141	8,840
	A15-A19	Tuberculosis	19	20	39
	A20-A28	Certain zoonotic bacterial diseases	28	40	68
	A30-A49	Other bacterial diseases	320	312	632
	A50-A64	Infections with a predominantly sexual mode of transmission	7	7	14
	A65-A69	Other spirochaetal diseases	5	2	7
	A70-A74	Other diseases caused by chlamydiae	0	1	1
	A75-A79	Rickettsioses	0	4	4
	A80-A89	Viral Infections of the CNS	15	6	21
	A90-A99	Arthropod-borne viral fevers and viral hemorrhagic fevers	3	1	4
	B00-B09	Viral Infections characterized by skin and mucous membrane lesions	36	48	84
	B15-B19	Viral hepatitis	66	50	116
	B20-B24	Human immunodeficiency virus[HIV] disease	13	2	15
	B25-B34	Other viral diseases	18	9	27
	B35-B49	Mycoses	3	5	8
	B50-B64	Protozoal diseases	21	5	26
	B65-B83	Helminthiases	7	19	26
	B85-B89	Pediculosis, acariasis and other infestations	2	2	4
	B90-B94	Sequelae of infectious and parasitic diseases	0	2	2
	B95-B97	Bacterial, viral and other infectious agents	4	1	5
	B99	Other infectious diseases	28	36	64
<b>Total</b>			<b>5,294</b>	<b>4,713</b>	<b>10,007</b>
<b>Chapter 2</b>	<b>C00-D48</b>	<b>Neoplasms</b>	<b>M</b>	<b>F</b>	<b>T</b>
	C00-C97	Malignant Neoplasms	8,420	12,225	20,645
		lip oral cavity and pharynx	261	175	436
		digestive organs	1,334	1,377	2,711
		respiratory and intrathoracic organs	1,823	705	2,528
		bone and articular cartilage	154	177	331
		melanoma and other malignant neoplasms of skin	72	66	138
		mesothelial and soft tissue	182	129	311
		breast	0	5,671	5,671
		female genital organs	0	1,170	1,170
		male genital organs	764	0	764
		urinary tract	760	280	1,040
		eye, brain, and other parts of CNS	207	187	394
		thyroid and other endocrine glands	31	91	122
		ill-defined, secondary, and unspecified sites	384	370	754
		lymphoid, haematopoietic and related tissue	2,446	1,808	4,254
		independent (primary) multiple sites	2	19	21
	D00-D09	In situ neoplasms	56	85	141
	D10-D36	Benign neoplasms	743	1,626	2,369
	D37-D48	Neoplasms of uncertain and unknown behavior	203	252	455
<b>Total</b>			<b>9,422</b>	<b>14,188</b>	<b>23,610</b>

The MOPH visa issuance system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2008, there were recorded 251,703 diagnoses among the eligible population with a higher overall utilization in females (F/M=1.265).



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ICD10	Codes	Description	M	F	T
<b>Chapter 3</b>	<b>D50-D53</b>	<b>Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism</b>	<b>M</b>	<b>F</b>	<b>T</b>
	D50-D53	Nutritional anaemias	232	381	613
	D55-D59	Haemolytic anaemias	505	308	813
	D60-D64	Aplastic and other anaemias	664	700	1,364
	D65-D69	Coagulation defects, purpura and other haemorrhagic conditions	179	184	363
	D70-D77	Other diseases of the blood and blood forming organs	31	48	79
	D80-D89	Certain Disorders involving the immune mechanism	41	47	88
<b>Total</b>			<b>1,652</b>	<b>1,668</b>	<b>3,320</b>
<b>Chapter 4</b>	<b>E00-E90</b>	<b>Endocrine, Nutritional and metabolic diseases</b>	<b>M</b>	<b>F</b>	<b>T</b>
	E00-E07	Disorders of thyroid gland	167	843	1,010
	E10-E14	Diabetes mellitus	1,217	1,689	2,906
	E15-E16	Other disorders of glucose regulation and pancreatic internal secretion	35	33	68
	E20-E35	Disorders of other endocrine glands	85	106	191
	E40-E46	Malnutrition	9	12	21
	E50-E64	Other nutritional deficiencies	4	4	8
	E65-E68	Obesity and other hyperalimentation	60	95	155
	E70-E90	Metabolic disorders	210	231	441
<b>Total</b>			<b>1,787</b>	<b>3,013</b>	<b>4,800</b>
<b>Chapter 5</b>	<b>F00-F99</b>	<b>Mental and Behavioral disorders</b>	<b>M</b>	<b>F</b>	<b>T</b>
	F00-F09	Organic, including symptomatic, mental disorders	19	23	42
	F10-F19	Mental and Behavioral disorders due to psychoactive substance abuse	134	32	166
	F20-F29	Schizophrenia, schizotypal and delusional disorders	199	148	347
	F30-F39	Mood [affective] disorders	74	89	163
	F40-F48	Neurotic, stress-related and somatoform disorders	61	79	140
	F50-F59	Behavioral syndromes associated with physiological disturbances and physical factors	5	5	10
	F60-F69	Disorders of adult personality and behaviour	4	10	14
	F70-F79	Mental retardation	21	25	46
	F80-F89	Disorders of psychological development	2	5	7
	F90-F98	Behavioral and emotional disorders with onset usually occurring in childhood and adolescence	4	4	8
	F99	Unspecified mental disorder	3	1	4
<b>Total</b>			<b>526</b>	<b>421</b>	<b>947</b>
<b>Chapter 6</b>	<b>G00-G99</b>	<b>Diseases of the nervous system</b>	<b>M</b>	<b>F</b>	<b>T</b>
	G00-G09	Inflammatory diseases of the central nervous system	141	108	249
	G10-G13	Systemic atrophies primarily affecting the nervous system	31	17	48
	G20-G26	Extrapyramidal and mood disorders	47	39	86
	G30-G32	Other degenerative diseases of the nervous system	31	31	62
	G35-G37	Demyelinating diseases of the CNS	74	109	183
	G40-G47	Episodic and paroxysmal disorders	796	798	1,594
	G50-G59	Nerve, nerve root and plexus disorders	211	521	732
	G60-G64	polyneuropathies and other disorders of the peripheral NS	32	22	54
	G70-G73	Diseases of myoneural junction and muscle	33	46	79
	G80-G83	Cerebral palsy and other paralytic syndromes	386	368	754
	G90-G99	Others disorders of the nervous system	200	150	350
<b>Total</b>			<b>1,982</b>	<b>2,209</b>	<b>4,191</b>



ICD10	Codes	Description	M	F	T
<b>Chapter 7</b>	<b>H00-H59</b>	<b>Diseases of the eye and adnexa</b>	<b>M</b>	<b>F</b>	<b>T</b>
	H00-H06	Disorders of eyelid, lachrymal system and orbit	103	157	260
	H10-H13	Disorders of conjunctiva	53	59	112
	H15-H22	Disorders of sclera, cornea, iris, and ciliary body	115	108	223
	H25-H28	Disorders of lens	2,578	3,198	5,776
	H30-H36	Disorders of choroid and retina	110	72	182
	H40-H42	Glaucoma	190	201	391
	H43-H45	Disorders of vitreous body and globe	120	87	207
	H46-H48	Disorders of optic nerve and visual pathways	3	2	5
	H49-H52	Disorders of ocular muscles, binocular movement accommodation and refraction	113	111	224
	H53-H54	Visual disturbances and blindness	70	62	132
	H55-H59	Other disorders of eye and adnexa	129	139	268
<b>Total</b>			<b>3,584</b>	<b>4,196</b>	<b>7,780</b>
<b>Chapter 8</b>	<b>H60-H95</b>	<b>Diseases of the ear and mastoid process</b>	<b>M</b>	<b>F</b>	<b>T</b>
	H60-H62	Diseases of the external ear	145	127	272
	H65-H75	Diseases of the middle ear and mastoid	496	521	1,017
	H80-H83	Diseases of the inner ear	97	172	269
	H90-H95	Other disorders of ear	38	47	85
<b>Total</b>			<b>776</b>	<b>867</b>	<b>1,643</b>
<b>Chapter 9</b>	<b>I00-I99</b>	<b>Diseases of the circulatory system</b>	<b>M</b>	<b>F</b>	<b>T</b>
	I00-I02	Acute Rheumatic fever	30	35	65
	I05-I09	Chronic rheumatic heart disease	101	105	206
	I10-I15	Hypertensive diseases	2,524	3,991	6,515
	I20-I25	Ischemic heart diseases	9,431	6,924	16,355
	I26-I28	circulation	39	48	87
	I30-I52	Other forms of heart disease	2,567	2,899	5,466
	I60-I69	Cerebrovascular diseases	1,109	1,155	2,264
	I70-I79	Diseases of arteries arterioles and capillaries	506	350	856
	I80-I89	Diseases of veins, lymphatic vessels and lymph nodes NEC	1,512	787	2,299
	I95-I99	Other and unspecified disorders of the circulatory system	149	182	331
<b>Total</b>			<b>17,968</b>	<b>16,476</b>	<b>34,444</b>
<b>Chapter 10</b>	<b>J00-J99</b>	<b>Diseases of the respiratory system</b>	<b>M</b>	<b>F</b>	<b>T</b>
	J00-J06	Acute upper respiratory infections	1,071	908	1,979
	J10-J18	Influenza and pneumonia	5,184	4,345	9,529
	J20-J22	Other acute lower respiratory infections	1,356	1,175	2,531
	J30-J39	Other diseases of upper respiratory tract	4,079	3,634	7,713
	J40-J47	Chronic lower respiratory diseases	1,652	1,523	3,175
	J60-J70	Lung diseases due to external agents	70	51	121
	J80-J84	Other respiratory diseases principally affecting the interstitium	734	817	1,551
	J85-J86	Suppurative and necrotic conditions of lower respiratory tract	32	5	37
	J90-J94	Other diseases of plura	198	127	325
	J95-J99	Other diseases of the respiratory system	245	201	446
<b>Total</b>			<b>14,621</b>	<b>12,786</b>	<b>27,407</b>



The MOPH visa issuance system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2008, there were recorded 251,703 diagnoses among the eligible population with a higher overall utilization in females (F/M = 1.265).

ICD10	Codes	Description	M	F	T
<b>Chapter 11</b>	<b>K00-K93</b>	<b>Diseases of the digestive system</b>	<b>M</b>	<b>F</b>	<b>T</b>
	K00-K14	Diseases of oral cavity salivary glands and jaws	189	192	381
	K20-K31	Diseases of oesophagus, stomach and duodenum	1,479	1,813	3,292
	K35-K38	Diseases of appendix	851	873	1,724
	K40-K46	Hernia	4,424	1,436	5,860
	K50-K52	Noninfective enteritis and colitis	696	750	1,446
	K55-K63	Other diseases of intestines	1,388	997	2,385
	K65-K67	Diseases of peritoneum	149	179	328
	K70-K77	Diseases of liver	339	253	592
	K80-K87	Disorders of gallbladder, biliary tract and pancreas	1,300	3,118	4,418
	K90-K93	Other diseases of the digestive system	288	278	566
<b>Total</b>			<b>11,103</b>	<b>9,889</b>	<b>20,992</b>
<b>Chapter 12</b>	<b>L00-L99</b>	<b>Diseases of the skin and subcutaneous tissue</b>	<b>M</b>	<b>F</b>	<b>T</b>
	L00-L08	Infections of the skin and subcutaneous tissue	792	456	1,248
	L10-L14	Bullous disorders	2	2	4
	L20-L30	Dermatitis and eczema	6	16	22
	L40-L45	Papulosquamous disorders	2	5	7
	L50-L54	Urticaria and erythema	41	46	87
	L55-L59	tissue	2	3	5
	L60-L75	Disorders of skin appendages	30	18	48
	L80-L99	Other disorders of the skin and subcutaneous tissue	266	191	457
<b>Total</b>			<b>1,141</b>	<b>737</b>	<b>1,878</b>
<b>Chapter 13</b>	<b>M00-M99</b>	<b>Diseases of the musculoskeletal system and connective tissue</b>	<b>M</b>	<b>F</b>	<b>T</b>
	M00-M25	Arthropathies	1,243	1,741	2,984
		<i>infectious arthropathies</i>	18	15	33
		<i>inflammatory polyarthropathies</i>	297	493	790
		<i>arthrosis</i>	361	666	1,027
		<i>other joint disorders</i>	567	567	1,134
	M30-M36	Systemic connective tissue disorders	69	69	138
	M40-M54	Dorsopathies	1,254	1,727	2,981
		<i>deforming dorsopathies</i>	32	73	105
		<i>spondylopathies</i>	103	132	235
		<i>other dorsopathies</i>	1,119	1,522	2,641
	M60-M79	Soft tissue disorders	473	683	1,156
		<i>disorders of muscles</i>	65	67	132
		<i>disorders of synovium and tendon</i>	170	309	479
		<i>other soft tissue disorders</i>	238	307	545
	M80-M94	Osteopathies and chondropathies	457	273	730
		<i>disorders of bonedensity and structure</i>	161	93	254
		<i>other osteopathies</i>	264	153	417
		<i>chondropathies</i>	32	27	59
	M95-M99	Other disorders of the musculoskeletal system and connective tissue	15	18	33
<b>Total</b>			<b>3,511</b>	<b>4,511</b>	<b>8,022</b>

ICD10	Codes	Description	M	F	T
<b>Chapter 14</b>	<b>N00-N99</b>	<b>Diseases of the genitourinary system</b>	<b>M</b>	<b>F</b>	<b>T</b>
	N00-N08	Glomerular diseases	141	150	291
	N10-N16	Renal tubulo-interstitial diseases	461	739	1,200
	N17-N19	Renal failure	928	842	1,770
	N20-N23	Urolithiasis	3,714	2,864	6,578
	N25-N29	Other disorders of kidney and ureter	51	72	123
	N30-N39	Other diseases of the urinary system	1,255	1,760	3,015
	N40-N51	Diseases of male genital organs	2,265	0	2,265
	N60-N64	Disorders of breast	0	522	522
	N70-N77	Inflammatory diseases of female pelvic organs	0	397	397
	N80-N98	Noninflammatory disorders of female genital tract	0	4,635	4,635
	N99	Other disorders of the genitourinary system	4	8	12
<b>Total</b>			<b>8,819</b>	<b>11,989</b>	<b>20,808</b>
<b>Chapter 15</b>	<b>O00-O99</b>	<b>Pregnancy, Childbirth and puerperium</b>	<b>M</b>	<b>F</b>	<b>T</b>
	O00-O08	Pregnancy with abortive outcome	0	1,679	1,679
	O10-O16	Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium	0	44	44
	O20-O29	Other maternal disorders predominantly related to pregnancy	0	272	272
	O30-O48	Maternal care related to the fetus and amniotic cavity and possible delivery problems	0	276	276
	O60-O75	Complications of labor and delivery	0	375	375
	O80-O84	Delivery	0	22,228	22,228
	O85-O92	Complications predominantly related to the puerperium	0	36	36
	O95-O99	Other obstetric conditions NEC	0	16	16
<b>Total</b>			<b>0</b>	<b>24,926</b>	<b>24,926</b>
<b>Chapter 16</b>	<b>P00-P96</b>	<b>Certain conditions originating in the perinatal period</b>	<b>M</b>	<b>F</b>	<b>T</b>
	P00-P04	Fetus and newborn affected by maternal factors and by complications of pregnancy labour and delivery	28	109	137
	P05-P08	Disorders related to length of gestation and fetal growth	262	198	460
	P10-P15	Birth trauma	7	7	14
	P20-P29	Respiratory and cardiovascular disorders specific to the perinatal period	961	600	1,561
	P35-P39	Infections specific to the perinatal period	247	143	390
	P50-P61	Haemorrhagic and haematological disorders of fetus and newborn	265	232	497
	P70-P74	Transitory endocrine and metabolic disorders specific to fetus and newborn	52	41	93
	P75-P78	Digestive system disorders of fetus and newborn	10	2	12
	P80-P83	Conditions involving the integument and temperature regulation of fetus and newborn	25	11	36
	P90-P96	Other disorders originating in the perinatal period	27	17	44
<b>Total</b>			<b>1,884</b>	<b>1,360</b>	<b>3,244</b>



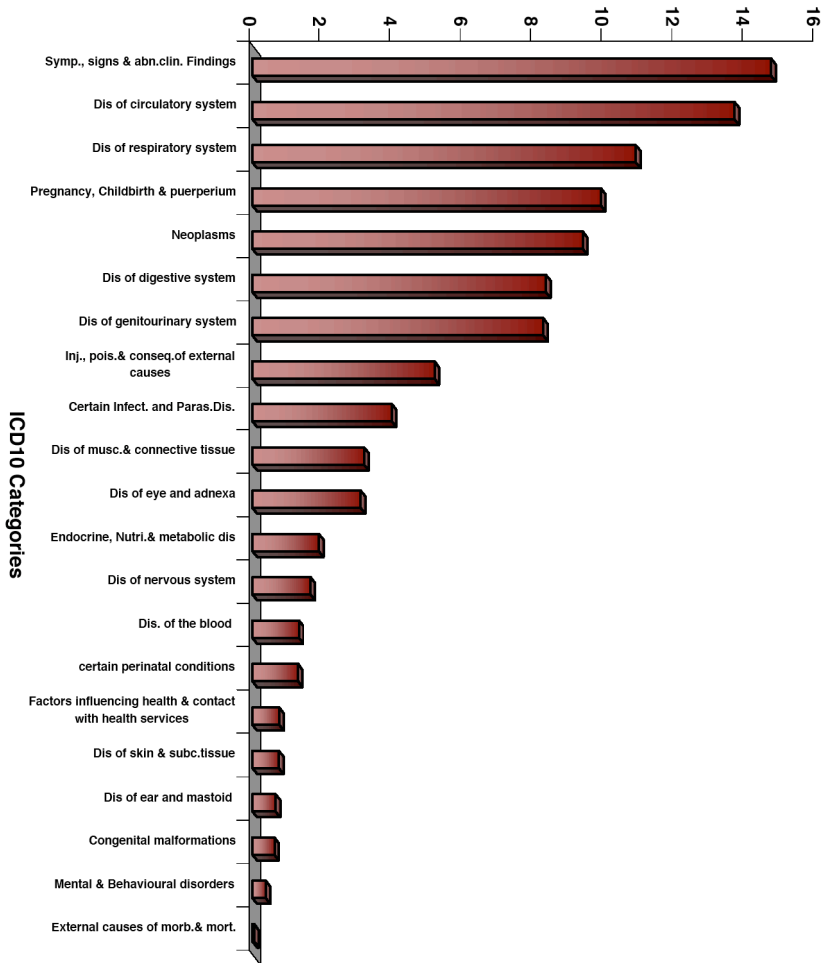
The MOPH visa issuance system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2008, there were recorded 251,703 diagnoses among the eligible population with a higher overall utilization in females (F/M=1.265).

ICD10	Codes	Description	M	F	T
<b>Chapter 17</b>	<b>Q00-Q99</b>	<b>Congenital malformations, deformations and chromosomal abnormalities</b>	<b>M</b>	<b>F</b>	<b>T</b>
	Q00-Q07	Congenital malformations of the nervous system	33	39	72
	Q10-Q18	Congenital malformations of eye, ear, face and neck	17	24	41
	Q20-Q28	Congenital malformations of the circulatory system	89	104	193
	Q30-Q34	Congenital malformations of the respiratory system	13	13	26
	Q35-Q37	Cleft lip and cleft palate	31	29	60
	Q38-Q45	Other congenital malformations of the digestive system	62	55	117
	Q50-Q56	Congenital malformations of the genital organs	491	44	535
	Q60-Q64	Congenital malformations of the urinary system	103	47	150
	Q65-Q79	Congenital malformations and deformations of the musculoskeletal system	130	116	246
	Q80-Q89	Other congenital malformations	19	22	41
	Q90-Q99	Chromosomal abnormalities, NEC	26	42	68
<b>Total</b>			<b>1,014</b>	<b>535</b>	<b>1,549</b>
<b>Chapter 18</b>	<b>R00-R99</b>	<b>Symptoms, signs and abnormal clinical and laboratory findings NEC</b>	<b>M</b>	<b>F</b>	<b>T</b>
	R00-R09	Symptoms and signs involving the circulatory and respiratory systems	3,846	4,070	7,916
	R10-R19	Symptoms and signs involving the digestive system and abdomen	6,460	10,078	16,538
	R20-R23	Symptoms and signs involving the skin and subcutaneous tissue	126	141	267
	R25-R29	Symptoms and signs involving the nervous and musculoskeletal systems	48	44	92
	R30-R39	Symptoms and signs involving the urinary system	908	477	1,385
	R40-R46	Symptoms and signs involving cognition, perception, emotional state and behaviour	476	680	1,156
	R47-R49	Symptoms and signs involving speech and voice	17	19	36
	R50-R69	General symptoms and signs	4,732	4,735	9,467
	R70-R79	Abnormal findings on examination of blood, without diagnosis	58	74	132
	R80-R82	Abnormal findings on examination of urine, without diagnosis	11	16	27
	R83-R89	Abnormal findings on examination of other body fluids substances and tissues, without diagnosis	5	6	11
	R90-R94	Abnormal findings on diagnostic imaging and in function studies, without diagnosis	13	8	21
	R95-R99	Ill-defined and unknown causes of mortality	4	5	9
<b>Total</b>			<b>16,704</b>	<b>20,353</b>	<b>37,057</b>
<b>Chapter 19</b>	<b>S00-T98</b>	<b>Injury, poisoning and certain other consequences of external causes</b>	<b>M</b>	<b>F</b>	<b>T</b>
	S00-S09	Injuries to the head	1,165	542	1,707
	S10-S19	Injuries to the neck	47	44	91
	S20-S29	Injuries to the thorax	136	60	196
	S30-S39	Injuries to the abdomen, lower back, lumbar spine and pelvis	188	100	288
	S40-S49	Injuries to the shoulder and upper arm	596	375	971

ICD10	Codes	Description	M	F	T
	S50-S59	Injuries to the elbow and forearm	963	523	1,486
	S60-S69	Injuries to the wrist and hand	1,028	429	1,457
	S70-S79	Injuries to the hip and thigh	919	924	1,843
	S80-S89	Injuries to the knee and lower leg	1,032	508	1,540
	S90-S99	Injuries to the ankle and foot	349	188	537
	T00-T07	Injuries involving multiple body regions	1,077	554	1,631
	T08-T14	Injuries to unspecified part of trunk, limb or body region	190	88	278
	T15-T19	Effects of foreign body entering through natural orifice	45	14	59
	T20-T32	Burns and corrosions	125	77	202
	T33-T35	Frostbite	7	3	10
	T36-T50	Poisoning by drugs, medicaments and biological substances	21	12	33
	T51-T65	Toxic effects of substances chiefly nonmedicinal as to source	143	121	264
	T66-T78	Other and unspecified effects of external causes	85	49	134
	T79	Certain early complications of trauma	2	7	9
	T80-T88	Complications of surgical and medical care NEC	116	86	202
	T90-T98	Sequelae of injuries, of poisoning and of other consequences of external causes	78	39	117
<b>Total</b>			<b>8,312</b>	<b>4,743</b>	<b>13,055</b>
<b>Chapter 20</b>	<b>V01-Y98</b>	<b>External causes of morbidity and mortality</b>	<b>M</b>	<b>F</b>	<b>T</b>
<b>Total</b>			<b>85</b>	<b>32</b>	<b>117</b>
<b>Chapter 21</b>	<b>Z00-Z99</b>	<b>Factors influencing health status and contact with health services</b>	<b>M</b>	<b>F</b>	<b>T</b>
	Z00-Z13	Persons encountering health services for examination and investigation	73	46	119
	Z20-Z29	Persons with potential health hazards related to communicable diseases	8	6	14
	Z30-Z39	Persons encountering health services in circumstances related to reproduction	21	440	461
	Z40-Z54	Persons encountering health services for specific procedures and health care	629	403	1,032
	Z55-Z65	Persons with potential health hazards related to socioeconomic and psychosocial circumstances	0	0	0
	Z70-Z76	Persons encountering health services in other circumstances	5	7	12
	Z80-Z99	Persons with potential health hazards related to family and personal history and certain conditions influencing health status	177	91	268
<b>Total</b>			<b>913</b>	<b>993</b>	<b>1,906</b>
<b>Total Number of Hospitalized Diagnoses</b>			<b>111,098</b>	<b>140,605</b>	<b>251,703</b>



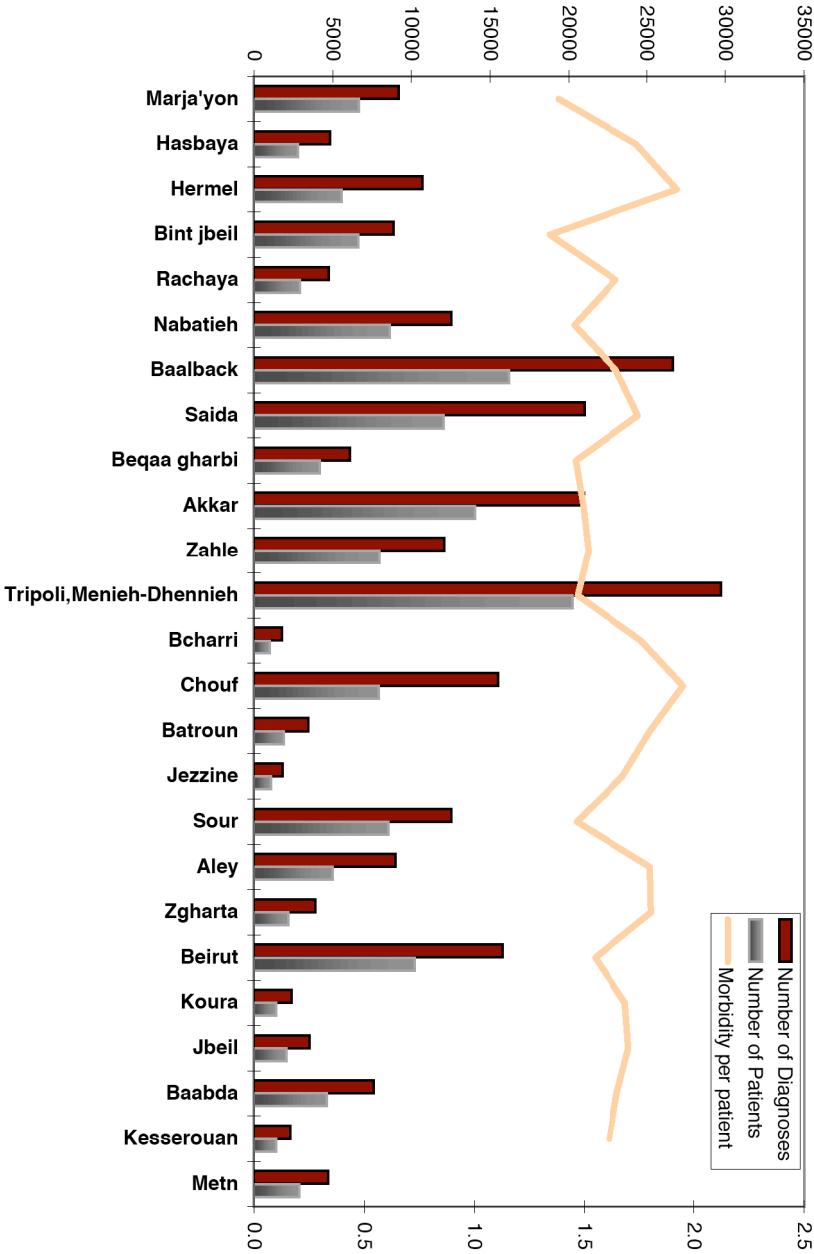
Graph 6: MOPH Subsidized Admissions By Category of Diagnosis, 2008



The highest number of diagnoses fell in the circulatory system (34,444), and the respiratory system (27,407), with more than two thirds of the "signs and symptoms of abnormal clinical findings" category pertaining to the circulatory, respiratory and digestive systems.

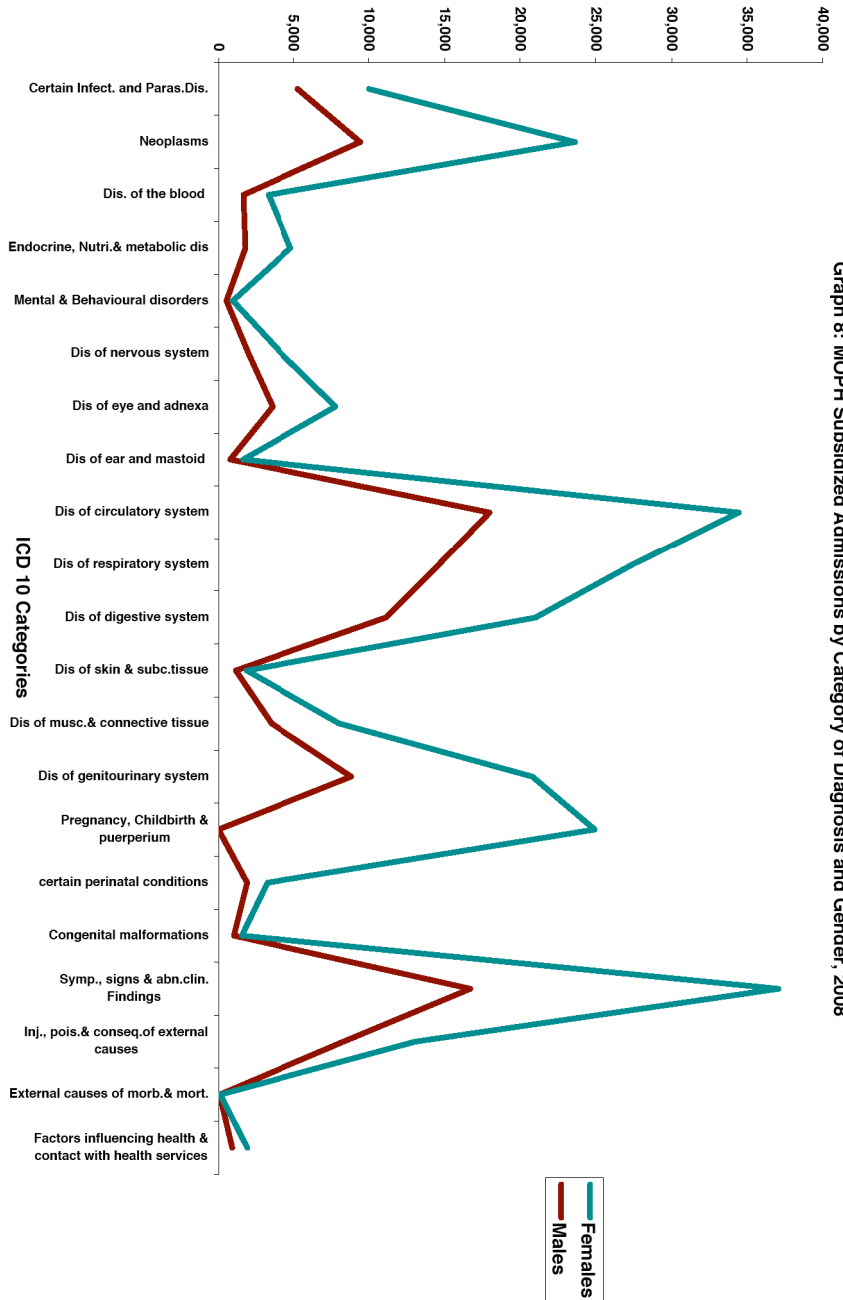
When considering the number of patients utilizing services in each Qada, Tripoli (together with Minieh-Dhennieh) showed the highest number of patients and highest number of diagnoses. But, considering the eligible population at the level of Qada, Chouf and Hermel had the highest morbidity levels (2 diagnoses per patient).

Graph 7: Number of Diagnoses, Number of Patients, and Morbidity per Patient By Qada, 2008



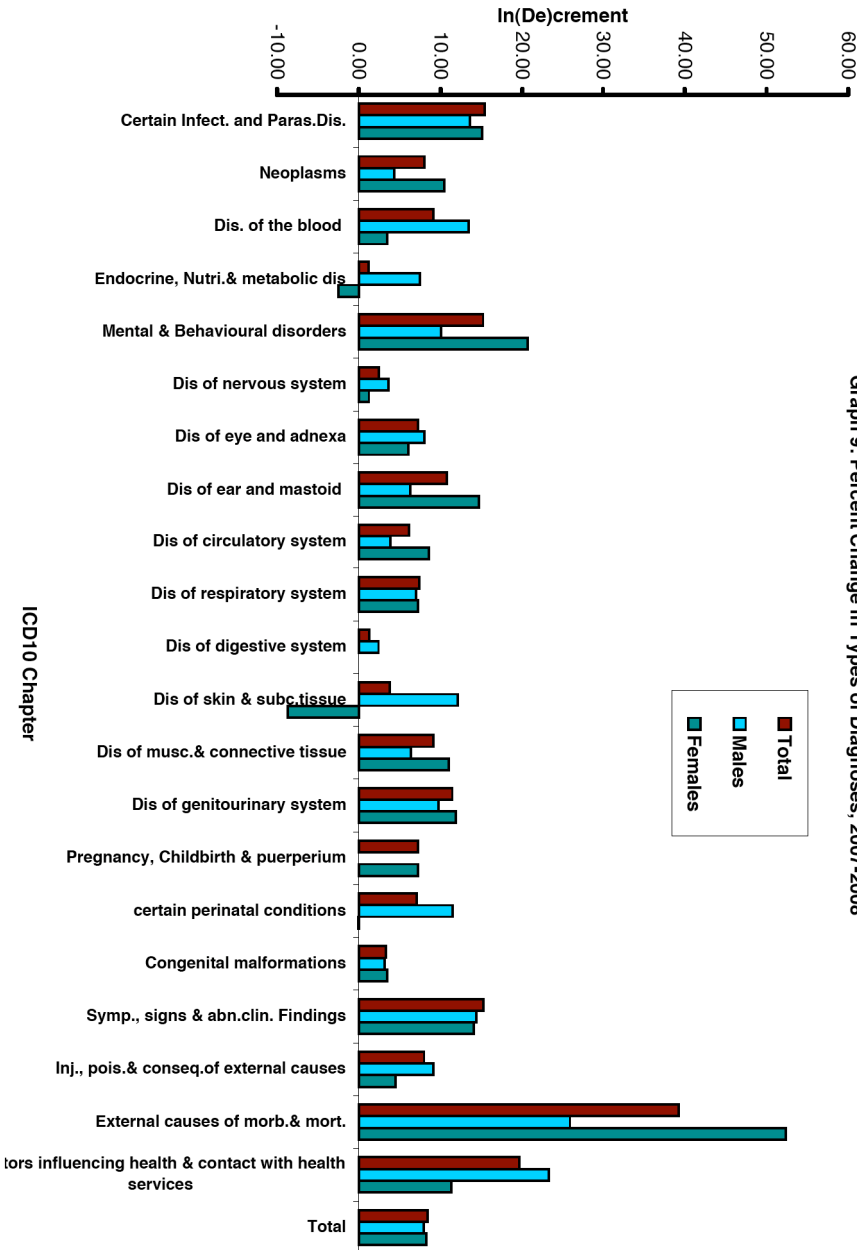


Graph 8: MOPH Subsidized Admissions by Category of Diagnosis and Gender, 2008



In absolute numbers, females are higher than males in all categories of diagnoses, which could mean either those females are more morbid, or they tend to utilize services more than males.

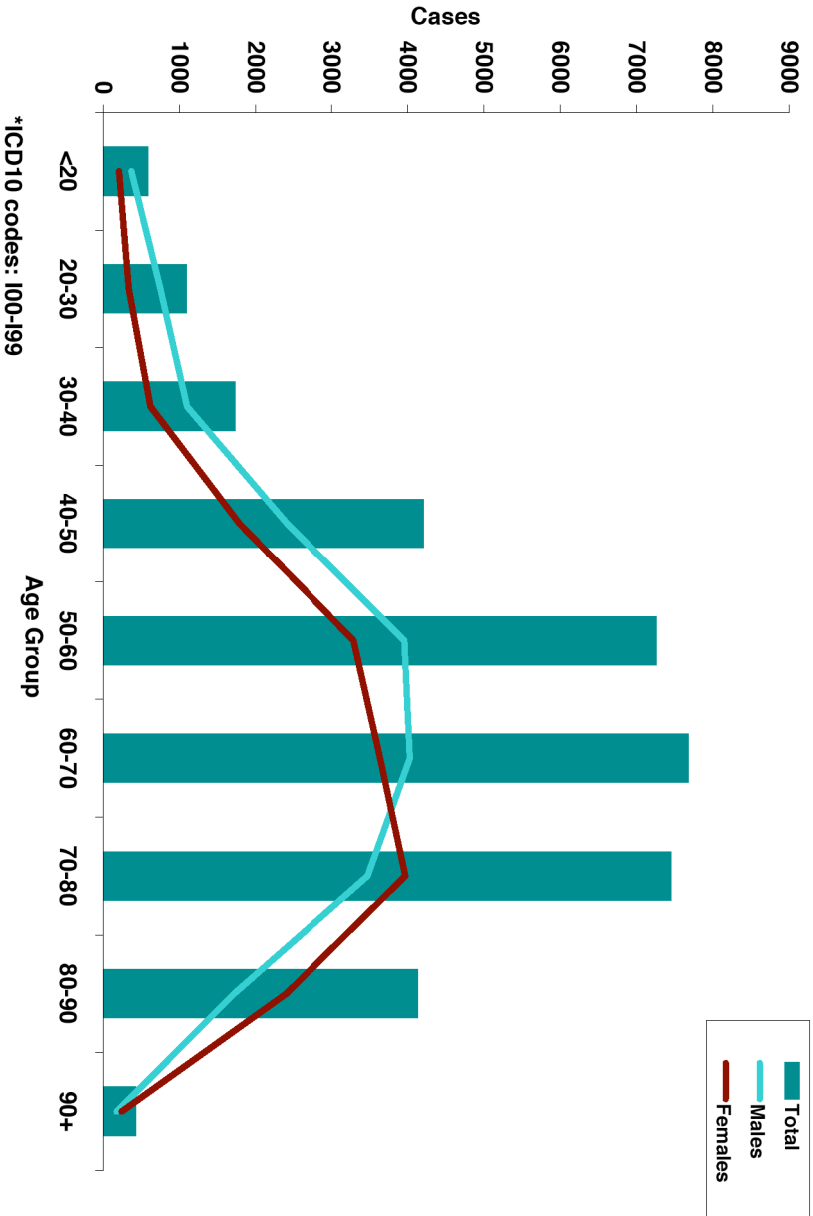




When comparing the years 2007 and 2008, there was an increase in the number of diagnoses across all categories, except for females in the diseases of the skin and subcutaneous tissues, as well as females in the endocrine and metabolic disorders whereby there was a drop in number between 2007 and 2008.

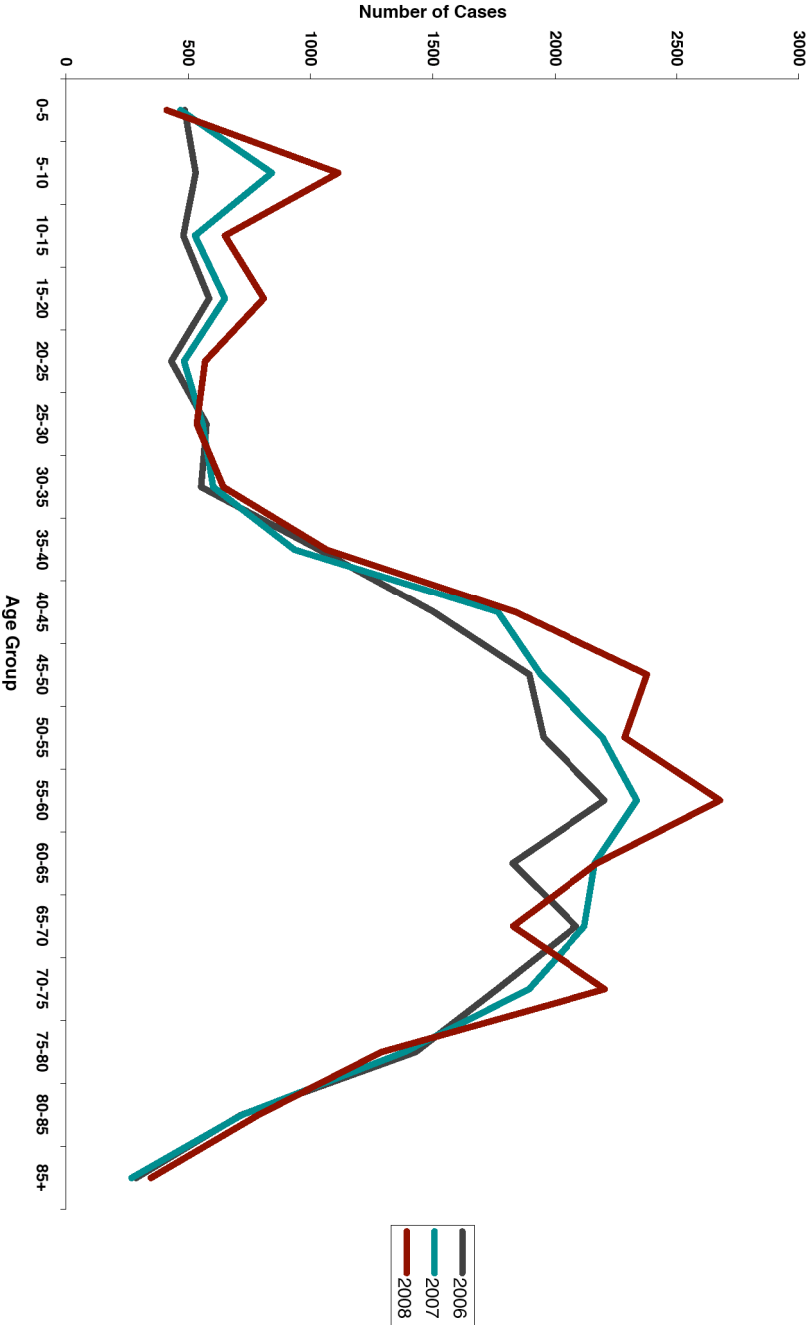


Graph 10: MOPH Subsidized Hospitalized Cardiovascular\* Cases By Gender and Age Group, 2008



When looking at cardiovascular hospitalized cases across age groups, the highest number of cases were clustered in the 60-70 year old category. For males the peak number of cases was in the 60-70 age category, while for females it was reached at a later age (70-80 years old).

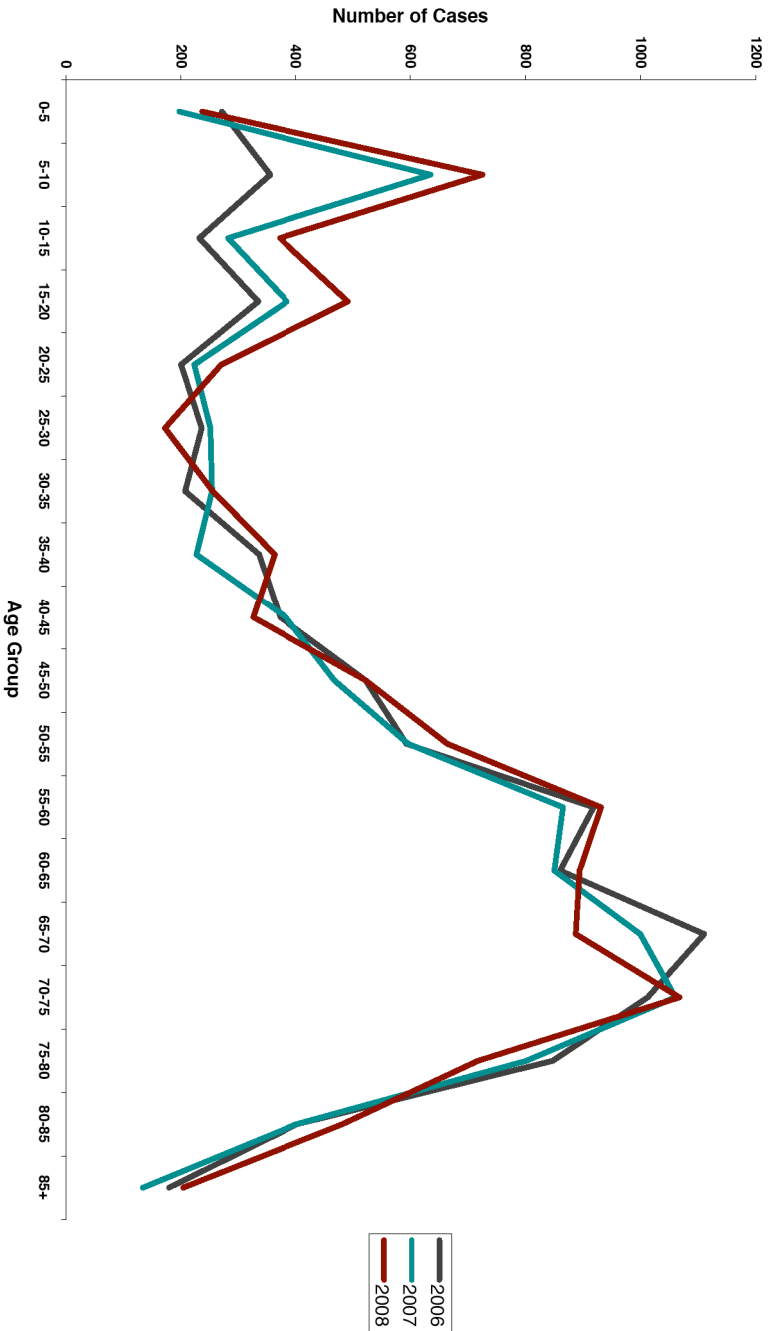
Graph 11: The Trend in MOPH Subsidized Hospitalized Cases of Neoplasms By Age Group, 2006-2008



The trend in the number of hospitalized neoplasms in the eligible population was consistently increasing over the years between 2006 and 2008 over all age groups except in the age group 65-70 years old. But, the major peaks in 2008 were observed in the age groups 5-10, 15-20, 45-50, 55-60 and 70-75 years of age.

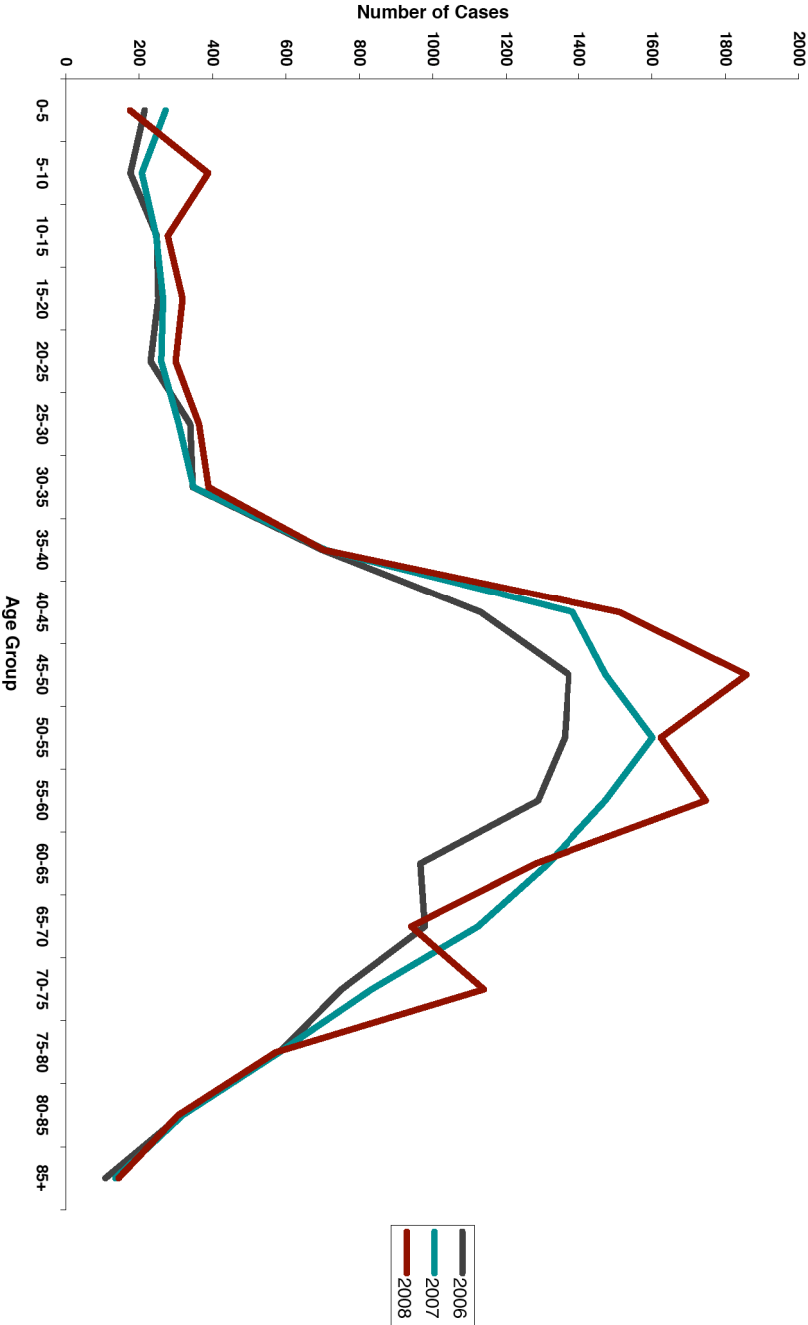


Graph 12: The Trend in MOPH Subsidized Hospitalized Male Cases of Neoplasms By Age Group, 2006-2008



Male cases of cancer showed an increase in the 5-10 years category, while it showed a significant drop in the age groups 25-30 and 65-70 years of age.

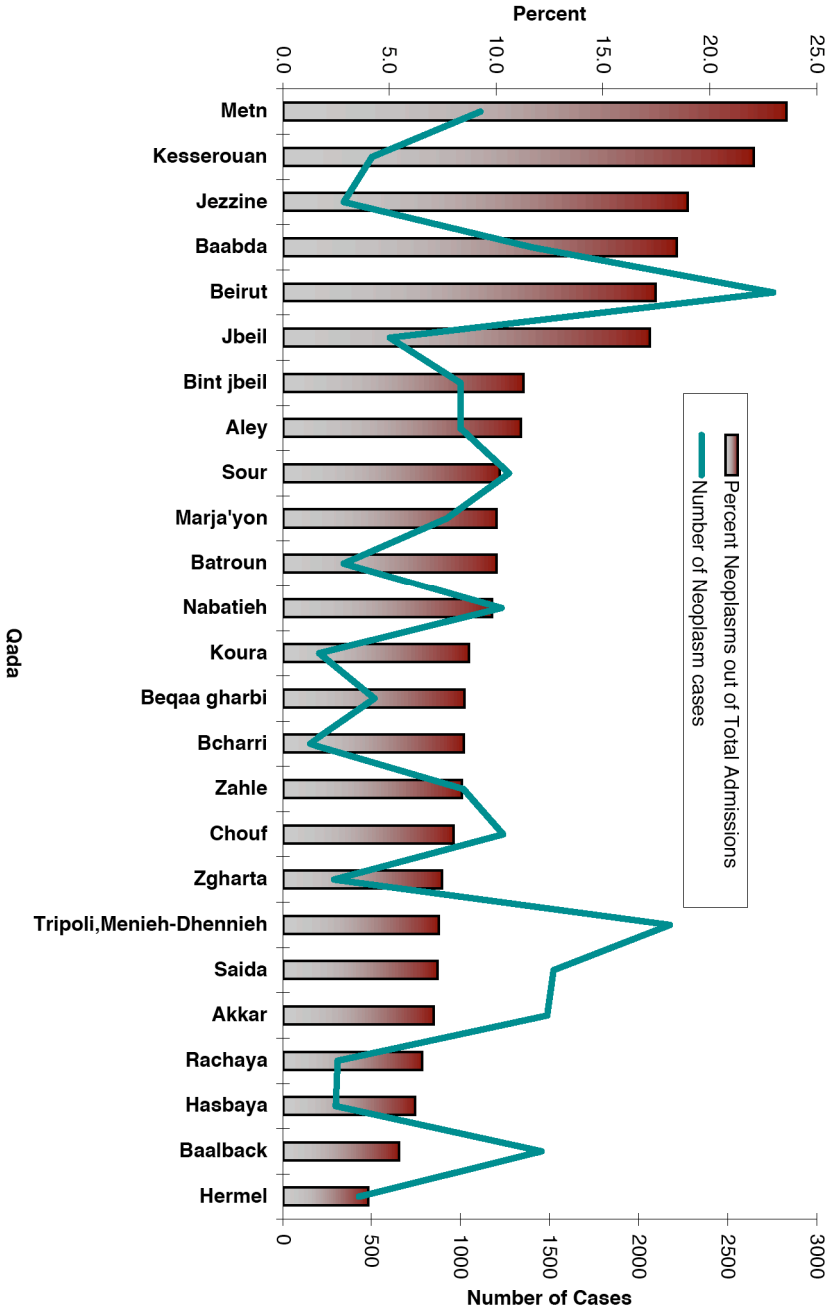
Graph 13: The Trend in MOPH Subsidized Hospitalized Female Cases of Neoplasms By Age Group, 2006-2008



Female cases of cancer showed an overall increase especially in the age groups, 5-10 years, 45-50 and 55-60 years of age, which might be related to the treatment of certain types of cancer that require hospitalization.



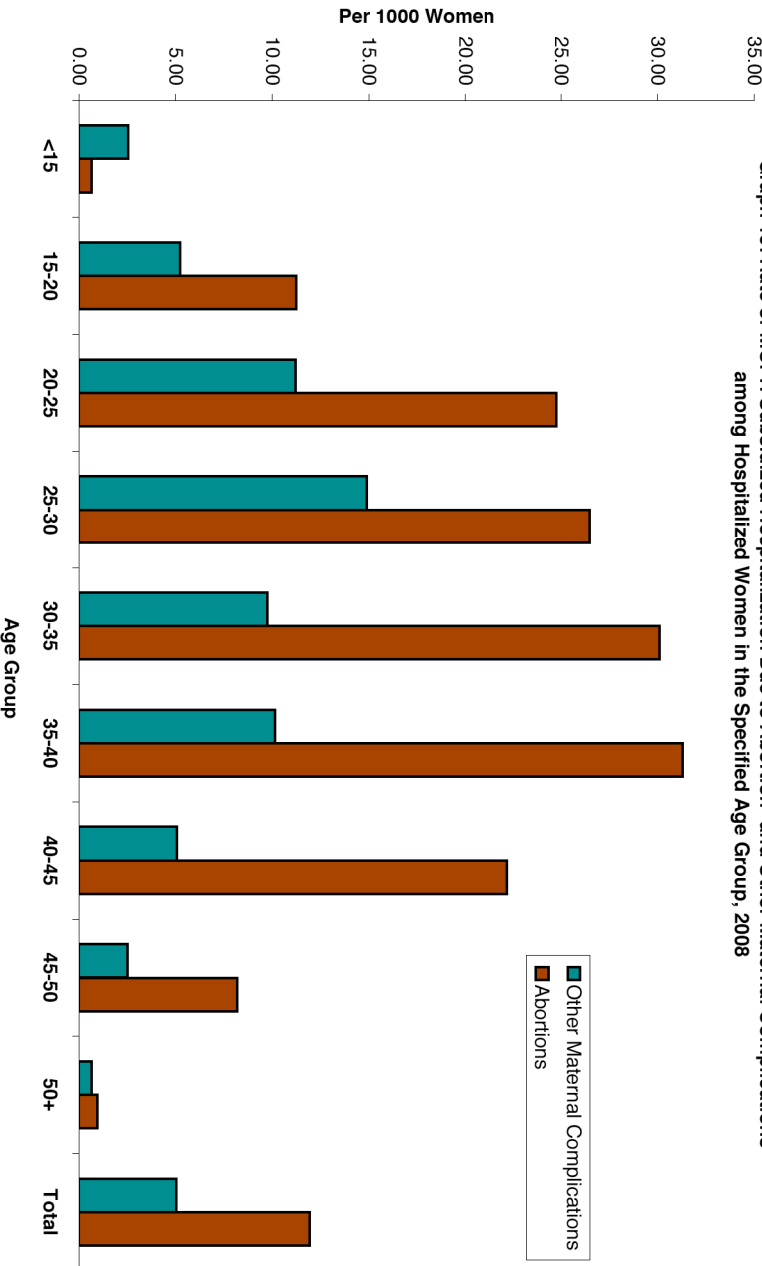
Graph 14: Total Hospitalized Neoplasm Cases and Percent out of Total Admissions By Qada, 2008



When analyzed by Qada of origin, and in an attempt to show the probable etiology of cancer, the highest number of cases was reported from Beirut, followed by Tripoli (including Minieh-Dhennieh) then by Akkar and Baalback, with the lowest number of cases being reported from Bcharri. However, Cancer presented the highest diagnoses (around 24%) among patients from Metn and the lowest diagnosis among patients from Hermel. In order to assess the exposure to carcinogens, however, both the place of origin (genetic predisposition, and somehow the lifestyle) as well as the place of residence over a period of time (environmental exposure, and lifestyle) should be analyzed.

The percent of maternal complications and abortions were analyzed across age groups of utilizing women. Among all treated women, 12 per 1000 had abortions and 5 per 1000 have experienced other maternal complications. More than 30% of women aged 35-40 presenting to the health services, had done so for abortions, while around 15% of utilizing women aged 25-30 years old, had done so for other maternal complications. On the other hand, both maternal complications and abortions were highest for the age group 25-30 with 28% and 21% of all presenting cases, respectively.

Graph 15: Rate of MOPH Subsidized Hospitalization Due to Abortion\* and Other Maternal Complications\*\* among Hospitalized Women in the Specified Age Group, 2008

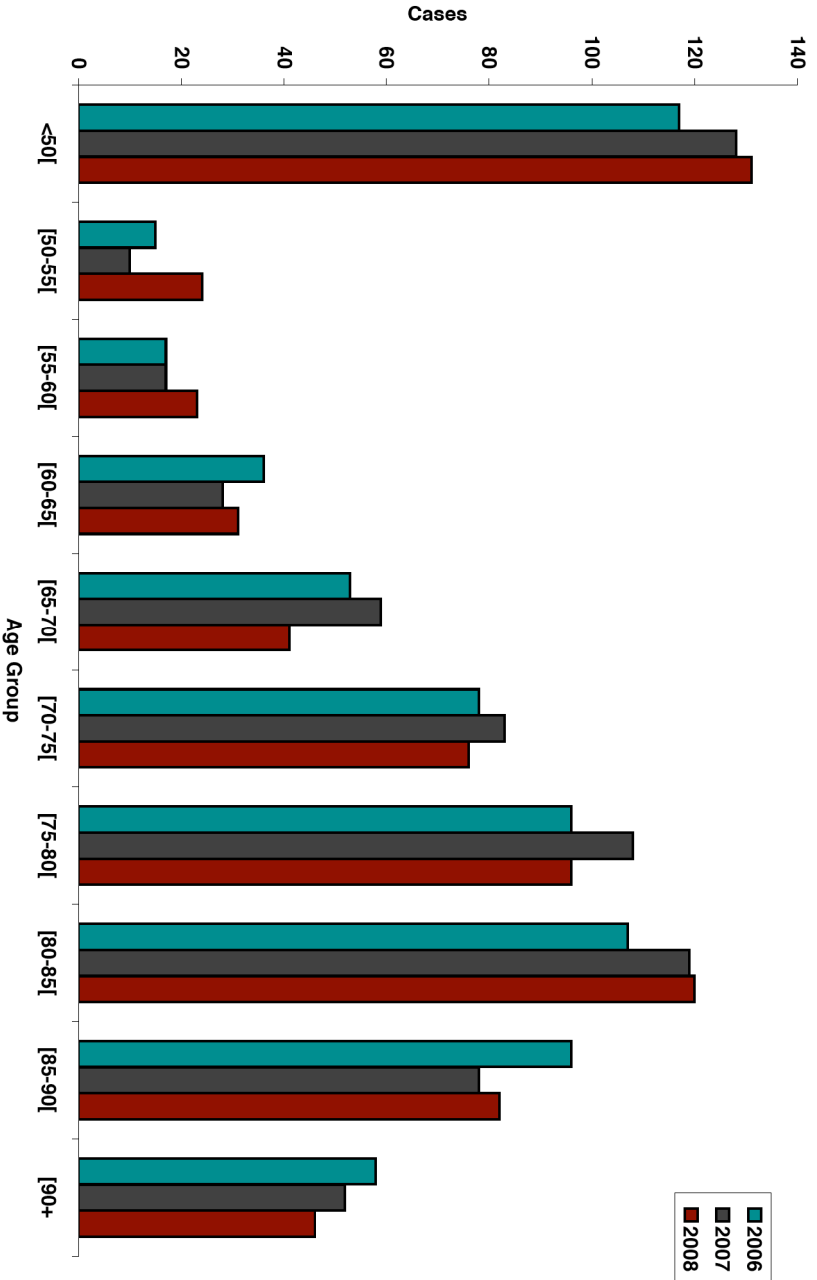


\* ICD10 categories: O00-O08

\*\* ICD10 categories: O10-O16, O20-O29, O60-O75, O85-O92, and O95-O99.



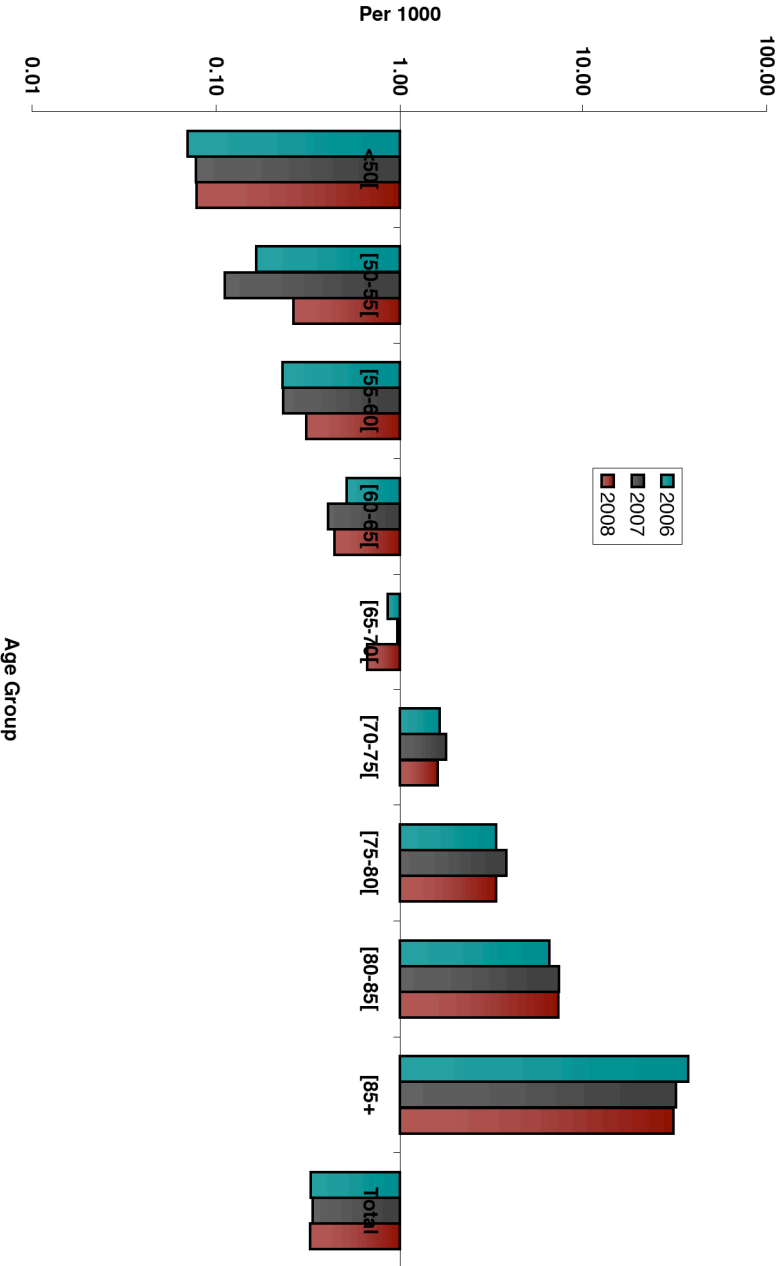
Graph 16: MOPH Subsidized Hip Fracture Cases By Age Group, 2006-2008



Cases of hip fracture hospitalized at the expense of the MOPH have increased in absolute numbers between 2006 and 2008 for those aged less than 50 years of age, while they have decreased for the age groups above 85.



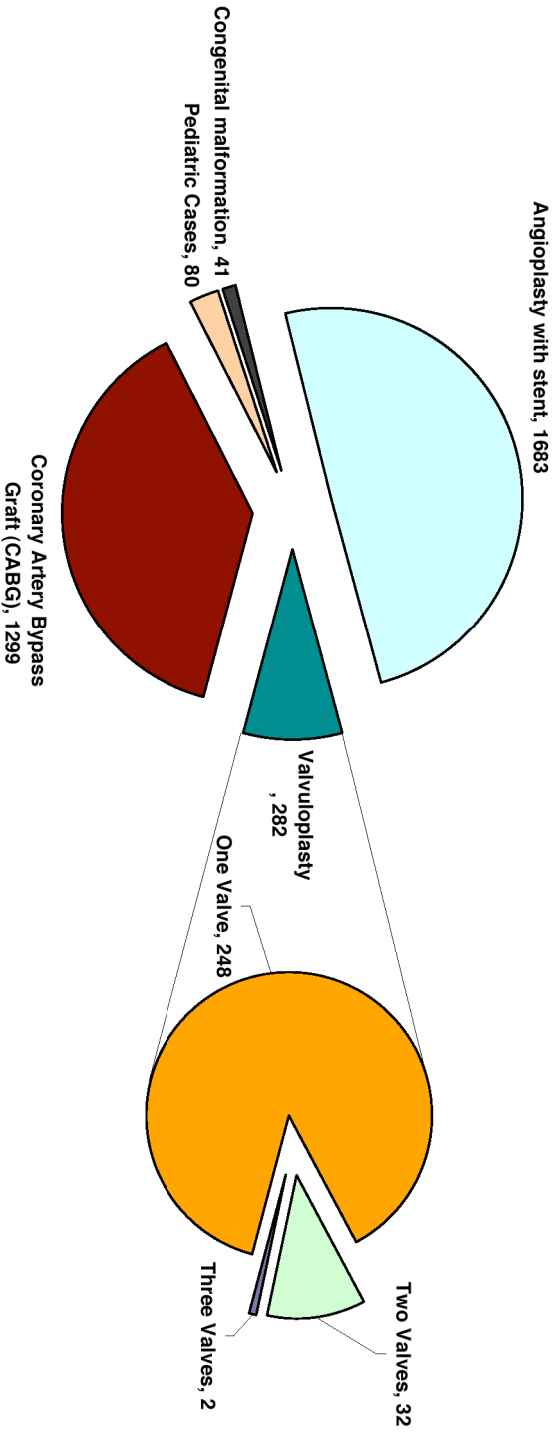
Graph 17: Rate of Hospitalization Due to Hip Fracture Among MOPH Eligible Population By Age Group, 2006-2008



When analyzed considering the eligible population for MOPH coverage, the risk for hospitalization due to hip fracture was less than one all over age groups, with no significant change over the years. Moreover, while it was highest for those more than 85 years of age, it was lowest for those less than 50, as expected.



Graph 18: Number of MOPH Subsidized Open Heart Surgeries By Category, 2008



3525 applications for open heart surgeries were presented to the open heart committee at the MOPH during 2008. 140 operations were refused and 3385 were accepted for coverage and they costed the MOPH around 22 billion LBP. The 3385 cases were partitioned as 80 pediatric cases, 41 congenital malformations, 282 valvuloplasty, 1683 angioplasty with stent and 1299 Coronary Artery Bypass Graft (CABG).

Table 11: HIV/AIDS Incidence and Prevalence, 2008

Frequency Percent			
Number of New Cases 2008	116	عدد الحالات المبلغ عنها للعام 2008	
HIV	30	25.90	حامل الفيروس
AIDS	35	30.20	مصاب بالآيدز
Unspecified	51	43.90	غير محدد
Gender (incident cases)		الجنس (للحالات الجديدة)	
Male	98	84.50	ذكر
Female	16	13.80	انثى
Unspecified	2	1.70	غير محدد
Age Structure		توزيع المرضى بحسب العمر	
< 31 years	41	35.3	دون 31 عاما
31-50	53	45.7	31-50
> 50 years	10	8.6	فوق 50 عاما
unspecified	12	10.4	غير محدد
Cumulative Number of Cases till November 2008		عدد الحالات التراكمية حتى تشرين الثاني 2008	
HIV		40.4	حامل الفيروس
AIDS		39.9	مصاب بالآيدز
Unspecified		19.7	غير محدد
Gender (cumulative cases)		الجنس (للحالات التراكمية)	
Male		81.9	ذكر
Female		17.9	انثى
Unspecified		0.2	غير محدد
Age Structure		توزيع المرضى بحسب العمر	
< 31 years		16.9	دون 31 عاما
31-50		51.5	31-50
> 50 years		26.0	فوق 50 عاما
unspecified		5.6	غير محدد
Mode of Transmission		طريقة انتقال العدوى	
Sexual relationship	67.6		جنسية
Blood transfusion	0.3		نقل دم
Intra venous drug usage	5.3		عن طريق تعاطي المخدرات
Mother to fetus	2.0		من الأم إلى الجنين
Infected utensils	2.2		أدوات ملوثة
Unspecified	22.6		غير محدد
Sexual Behavior		التصرف الجنسي	
Heterosexual-Normal	54.7		مختلط عادي
Bisexual	4.8		مختلط
Homosexual	17.6		متلي
Unspecified	22.9		غير محدد
Travel behavior of cases		توزيع الحالات بالنسبة لاعدادات السفر	
Non- traveler	46.3		غير مسافر
traveler	39.8		مسافر
Unspecified	13.9		غير محدد

There were 30 new cases of HIV and 35 new cases of AIDS reported during 2008, and the cumulative number of HIV/AIDS till November 2008 was 1172. More than 35% of the new cases were less than 31 years of age, as compared to 17% in the cumulative cases which could mean that there is a shift in age of diagnosis towards the lowest age groups. Moreover, the mode of transmission was sexual in more than two-thirds of the cumulative cases.



The national coverage rate of immunization for target children was 89% for measles containing vaccine, 94% for Oral Polio Vaccine and 93% for DPT, with some variations across Qada ranging from a low of 68% to a high of 99% in all children immunized, irrespective whether the vaccine was administered in the public or the private sector.

Table 12: Routine Immunization Coverage Rates by Qada, 2008

Qada	OPV3	DPT3	MCV1	القضاء
West beqaa	94%	94%	92%	البقاع الغربي
Hermel	90%	90%	82%	الهرمل
Baalbak	92%	90%	87%	بعلبك
Rashaya	98%	94%	93%	راشيا
Zahleh	95%	93%	93%	زحلة
Jezzine	92%	90%	92%	جزين
Sour	93%	90%	91%	صور
Saida	94%	92%	91%	صيدا
Batroun	89%	90%	89%	البترون
Koura	94%	94%	93%	الكورة
Bcharreh	96%	97%	94%	بشري
Zgharta	92%	92%	94%	زغرتا
Tripoli	96%	95%	84%	طرابلس
Dhennieh	80%	80%	68%	الضنية
Akkar	86%	86%	81%	عكار
Nabatieh	99%	98%	96%	النبطية
Bint Jbeil	99%	97%	91%	بنت جبيل
Hasbaya	93%	93%	81%	حاصبيا
Marjayoun	96%	95%	91%	مرجعيون
Chouf	95%	94%	94%	الشوف
Metn	95%	95%	93%	المتن
Baabda	97%	95%	92%	بعبدا
Jbeil	96%	95%	94%	جبيل
Aley	94%	91%	93%	عاليه
Kesserouan	95%	92%	94%	كسروان
Beirut	92%	87%	84%	بيروت
Total	94%	93%	89%	المجموع



**Table 13: Table Showing The Cases of Notifiable Diseases Reported to The MOPH By Month, 2008**

	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Vaccine Preventable Diseases</b>													
Acute Flaccid Paralysis	30	4	4	4	1	3	1	1	3	3	3	0	3
Acute Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	24	0	1	3	5	5	2	2	0	1	1	2	2
Mumps	229	26	35	66	32	32	17	9	2	2	3	2	3
Pertussis	50	4	4	3	4	5	7	7	5	7	1	1	2
Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	18	0	3	3	0	3	2	0	3	0	4	0	0
Tetanus	2	0	0	0	0	0	0	1	0	0	1	0	0
tetanus neonatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis B	241	12	21	28	26	11	20	15	16	28	18	28	18
<b>Food &amp; Water Borne Diseases</b>													
Brucellosis	157	12	9	16	13	11	13	23	22	11	14	11	2
Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0
Dysentery	168	8	8	10	15	7	11	28	25	13	20	13	10
Food Poisoning	387	2	11	1	6	3	65	51	49	70	120	2	7
Hydatid Cyst	20	2	6	1	3	4	0	1	2	1	0	0	0
Parasitic Worms	41	2	6	3	8	4	4	3	1	5	4	1	0
Trichinosis	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	567	18	26	42	33	37	79	86	79	49	57	32	29
Viral Hepatitis A	648	70	63	47	48	49	48	38	54	50	53	61	67
<b>Other Diseases</b>													
Bilharziasis	0	0	0	0	0	0	0	0	0	0	0	0	0
Creutzfeldt Jakob Disease	1	0	0	0	0	0	1	0	0	0	0	0	0
Ebola	0	0	0	0	0	0	0	0	0	0	0	0	0
Gonorrhea	7	1	1	0	1	0	0	2	1	1	0	0	0
Leishmaniasis	0	0	0	0	0	0	0	0	0	0	0	0	0
Leprosy	1	0	0	0	0	0	0	0	0	0	0	1	0
Malaria	39	3	3	2	1	0	3	3	8	4	6	3	3
Meningitis	237	9	18	17	13	10	21	28	39	35	18	23	6
Plague	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis	4	0	0	0	0	1	0	1	0	1	0	1	0
Typhus	4	0	0	0	0	0	0	4	0	0	0	0	0
Viral Hepatitis C	67	6	11	5	6	3	7	9	5	2	4	5	4
Yellow Fever	0	0	0	0	0	0	0	0	0	0	0	0	0

The Epidemiological Surveillance Unit at the Ministry of Health receives notifications about vaccine preventable diseases, food and water borne diseases as well as other diseases. 241 Hepatitis B cases were reported during 2008, and 648 cases of Hepatitis A, while meningitis had 237 reported cases.



**Table 14: Table Showing The Cases of Notifiable Diseases Reported to The MOPH By Age and Gender, 2008**

	TOTAL	0-4 years	5-9 years	10-19 years	20-39 years	40-59 years	60+ years	Unknown age	Male	Female	Sex unknown
<b>Vaccine Preventable Diseases</b>											
Acute Flaccid Paralysis	30	8	4	7	3	5	3	0	17	13	0
Acute Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0
Diphtheria	0	0	0	0	0	0	0	0	0	0	0
Measles	24	15	3	3	2	0	0	1	17	7	0
Mumps	229	28	71	113	12	1	1	3	140	89	0
Pertussis	50	41	6	3	0	0	0	0	20	30	0
Rabies	0	0	0	0	0	0	0	0	0	0	0
Rubella	18	12	3	2	0	0	0	1	9	9	0
Tetanus	2	0	0	1	0	1	0	0	1	1	0
tetanus neonatal	0	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis B	241	0	2	20	119	65	24	11	168	70	3
<b>Food &amp; Water Borne Diseases</b>											
Brucellosis	157	6	15	20	46	37	32	1	81	76	0
Cholera	0	0	0	0	0	0	0	0	0	0	0
Dysentery	168	49	31	14	22	21	22	9	88	79	1
Food Poisoning	387	17	47	122	101	36	18	46	215	172	0
Hydatid Cyst	20	0	0	0	6	8	4	2	7	13	0
Parasitic Worms	41	4	2	5	7	7	12	4	17	24	0
Trichinosis	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	567	76	63	116	162	81	53	16	278	288	1
Viral Hepatitis A	648	85	190	219	120	9	2	23	379	269	0
<b>Other Diseases</b>											
Bilharziasis	0	0	0	0	0	0	0	0	0	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	0	1	0	1	0	0
Ebola	0	0	0	0	0	0	0	0	0	0	0
Gonorrhea	7	0	0	0	6	1	0	0	7	0	0
Leishmaniasis	0	0	0	0	0	0	0	0	0	0	0
Leprosy	1	0	0	0	0	1	0	0	1	0	0
Malaria	39	0	2	1	21	10	2	3	31	8	0
Meningitis	237	93	46	39	31	16	8	4	152	85	0
Plague	0	0	0	0	0	0	0	0	0	0	0
Syphilis	4	0	0	0	3	0	0	1	1	3	0
Typhus	4	0	0	0	1	0	2	1	3	1	0
Viral Hepatitis C	67	1	1	2	26	14	19	4	51	16	0
Yellow Fever	0	0	0	0	0	0	0	0	0	0	0

When reported diseases were analyzed by gender, it was shown that males had higher number of cases than females except in few diseases (pertussis, hydatid cyst, parasitic worms, typhoid fever and syphilis) whereby female cases were higher although it was not significantly so.

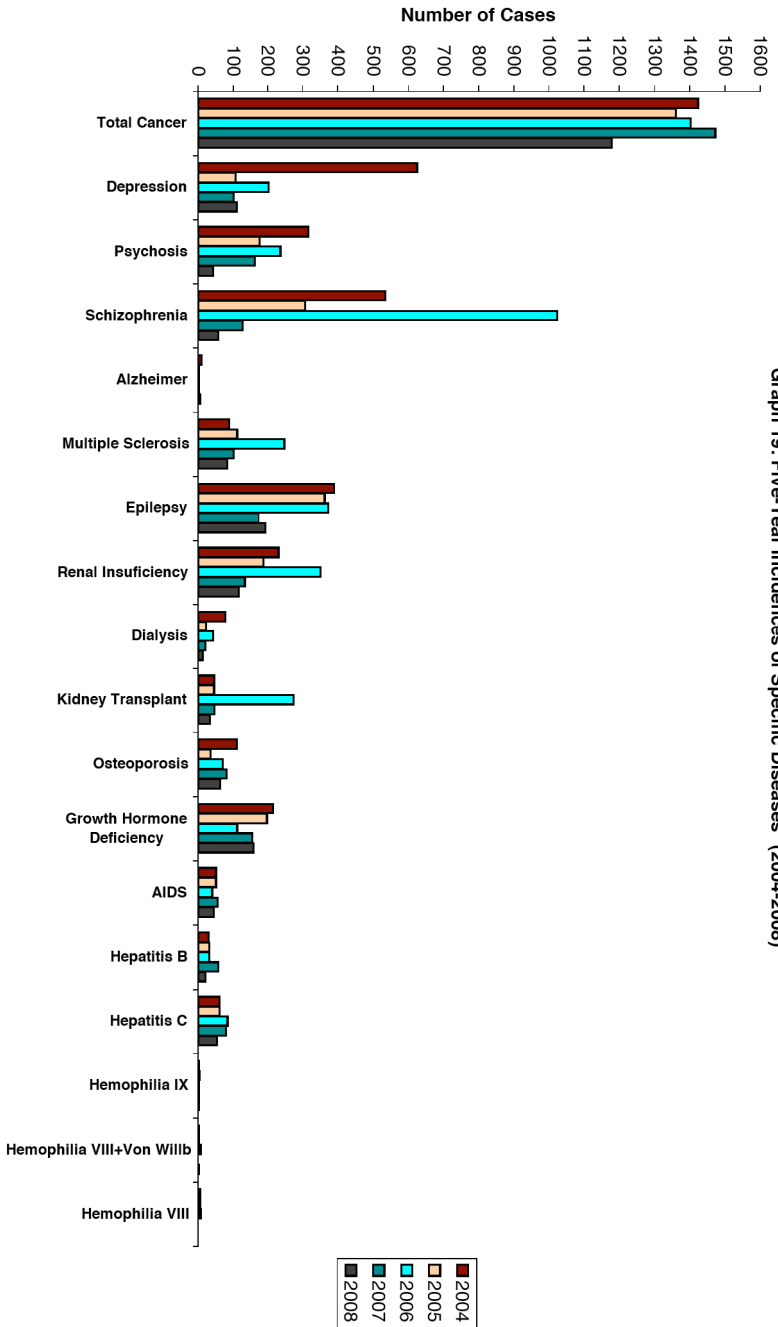
**Table 15: Table Showing The Cases of Notifiable Diseases Reported to The MOPH By Mohafaza, 2008**

	TOTAL	North	Beqaa	Nabatiah	South	Mount-Lebanon	Beirut	Unknown
<b>Vaccine Preventable Diseases</b>								
Acute Flaccid Paralysis	30	6	2	0	4	12	4	2
Acute Poliomyelitis	0	0	0	0	0	0	0	0
Diphtheria	0	0	0	0	0	0	0	0
Measles	24	6	9	2	3	4	0	0
Mumps	229	3	87	17	104	15	0	3
Pertussis	50	14	25	5	2	3	1	0
Rabies	0	0	0	0	0	0	0	0
Rubella	18	3	8	1	2	4	0	0
Tetanus	2	2	0	0	0	0	0	0
tetanus neonatal	0	0	0	0	0	0	0	0
Viral Hepatitis B	241	25	20	41	26	67	32	30
<b>Food &amp; Water Borne Diseases</b>								
Brucellosis	157	23	56	16	12	43	6	1
Cholera	0	0	0	0	0	0	0	0
Dysentery	168	16	5	1	1	132	7	6
Food Poisoning	387	242	30	16	64	32	2	1
Hydatic Cyst	20	0	8	5	2	2	2	1
Parasitic Worms	41	1	0	2	0	13	24	1
Trichinosis	0	0	0	0	0	0	0	0
Typhoid Fever	567	171	114	60	30	142	25	25
Viral Hepatitis A	648	290	150	26	15	132	15	20
<b>Other Diseases</b>								
Bilharziasis	0	0	0	0	0	0	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	0	1	0
Ebola	0	0	0	0	0	0	0	0
Gonorrhea	7	0	0	0	0	6	0	1
Leishmaniasis	0	0	0	0	0	0	0	0
Leprosy	1	1	0	0	0	0	0	0
Malaria	39	8	2	1	2	15	4	7
Meningitis	237	57	21	23	13	108	15	0
Plague	0	0	0	0	0	0	0	0
Syphilis	4	0	0	0	1	1	0	2
Typhus	4	1	0	0	0	2	1	0
Viral Hepatitis C	67	7	3	7	6	26	9	9
Yellow Fever	0	0	0	0	0	0	0	0

The distribution of the diseases across Mohafazats showed that Mumps had highest number of cases from the South, while Pertussis, Rubella, and Brucellosis were highest in the Beqaa; viral hepatitis B, and C, Meningitis, Malaria and Dysentery were highest in Mount Lebanon; and Viral A was highest in the North.



Graph 19: Five-Year Incidences of Specific Diseases\* (2004-2008)



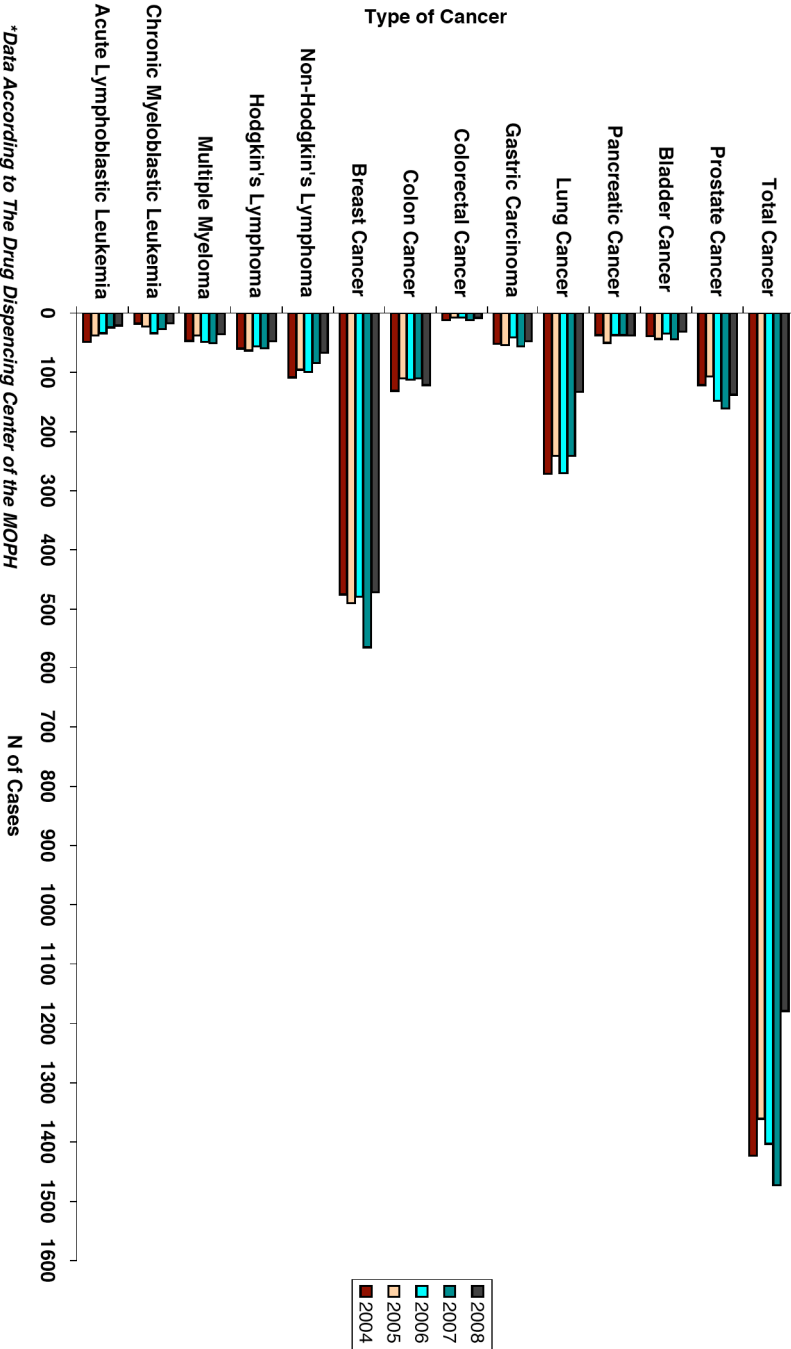
\*Data According to The Drug Dispensing Center of the MOPH

The Drug Dispensing Center (DDC) of the MOPH distributes drugs free of charge for all eligible patients across categories of dreadful diseases. The budget of drugs procurement at the Ministry of Public Health, which was in 2008 higher than 2007 by 1%, is still not enough considering the increase in number of cases of certain diseases which makes a virtual decrease in the number of some diseases, while it might be merely due to lack of or insufficient budget.



The highest number of cases benefiting from the drugs at the DDC was for Cancer which used around more than three quarters of the drug budget for the year 2008. The cancer of the highest incidence in 2008 was breast cancer, followed by prostate cancer, then lung and colon cancers.

Graph 20: Trend in Treated Incident cases Of Some Types of Cancer\*, 2004-2008



\* Data According to The Drug Dispensing Center of the MOPH



Table 16: Trends in Cases of Selected Chronic Conditions\* Between 2004 and 2008

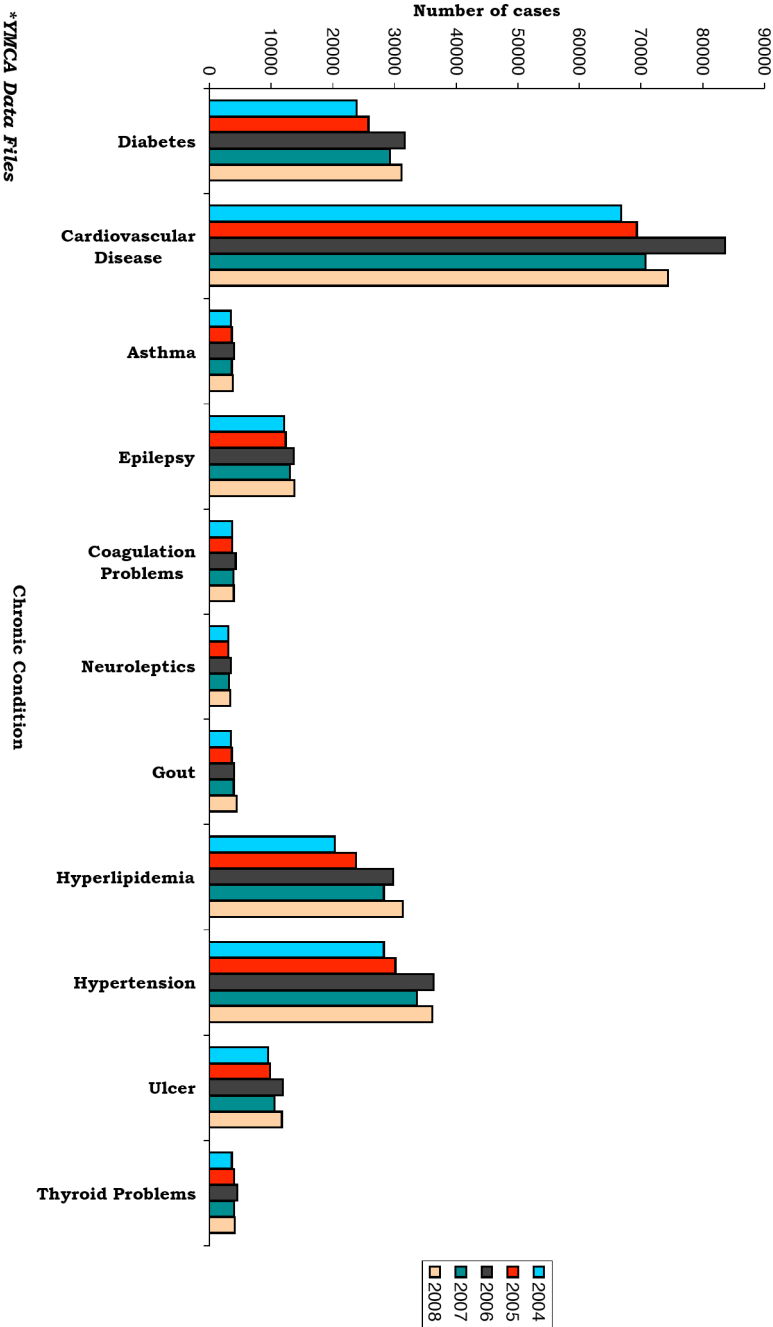
Chronic Condition	2004			2005			2006			2007			2008		
	M	F	Total	M	F	Total	M	F	T	M	F	T	M	F	T
Diabetes	9699	14104	23803	10562	15174	25736	13085	18539	31624	12168	17117	29285	12943	18224	31167
Cardiovascular Disease	27732	39100	66832	28679	40724	69403	36030	47561	83591	29256	41519	70775	30789	43630	74419
Asthma	1623	1844	3467	1720	1935	3655	1942	2124	4066	1718	1930	3648	1770	2031	3801
Epilepsy	6545	5619	12164	6643	5708	12351	7379	6353	13732	7091	6021	13112	7475	6275	13750
Coagulation Problems	1947	1770	3717	1951	1814	3765	2190	2122	4312	1966	1900	3866	2024	1935	3959
Neuroleptics	1415	1683	3098	1421	1697	3118	1611	1899	3510	1415	1800	3215	1593	1813	3406
Gout	1965	1570	3535	2033	1631	3664	2238	1796	4034	2200	1760	3960	2417	1983	4400
Hyperlipidemia	9192	11153	20345	10873	12903	23776	13612	16116	29728	12947	15289	28236	14234	17099	31333
Hypertension	10980	17251	28241	11836	18299	30135	14310	21952	36262	13498	20119	33617	14685	21406	36091
Ulcer	3880	5583	9463	3976	5841	9817	4661	7241	11902	4235	6377	10612	4672	7078	11750
Thyroid Problems	592	3090	3682	654	3372	4026	714	3806	4520	685	3394	4079	700	3397	4097
Total	75580	102767	178347	80348	109098	189446	97772	129509	227281	87179	117226	204405	93302	124871	218173

\* Young Male Christian Association (YMCA) Data Files

The MOPH had contracted with The Young Male Christian Association (YMCA) to purchase and distribute chronic diseases drugs in health centers all over Lebanon. Cardiovascular disease and hypertensive drugs were the highest in number and neuroleptics were the lowest.

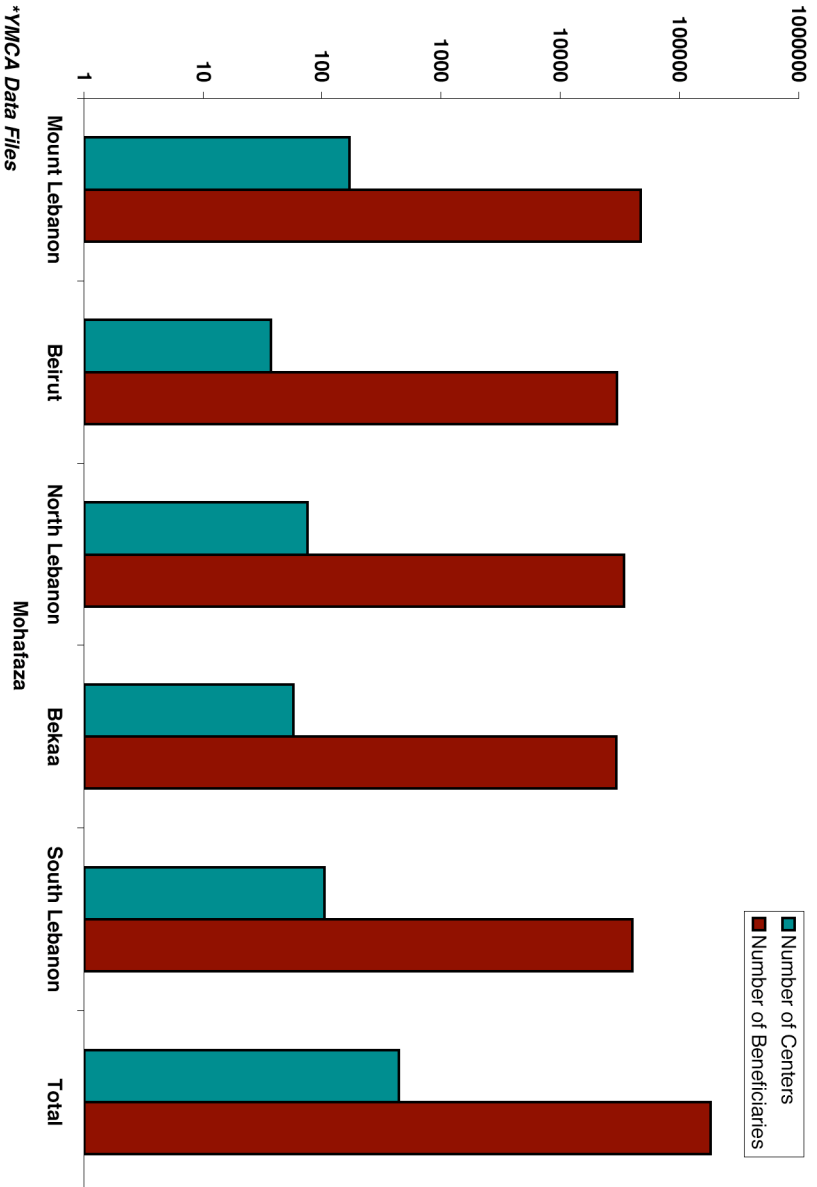
When compared with 2007, 2008 showed higher numbers of cases all over the categories of chronic conditions. 2006 numbers remain higher, though, due to the July 2006 war which resulted in higher unexpected coverage irrespective of eligibility.

Graph 21: Cases of Chronic Conditions, 2004-2008





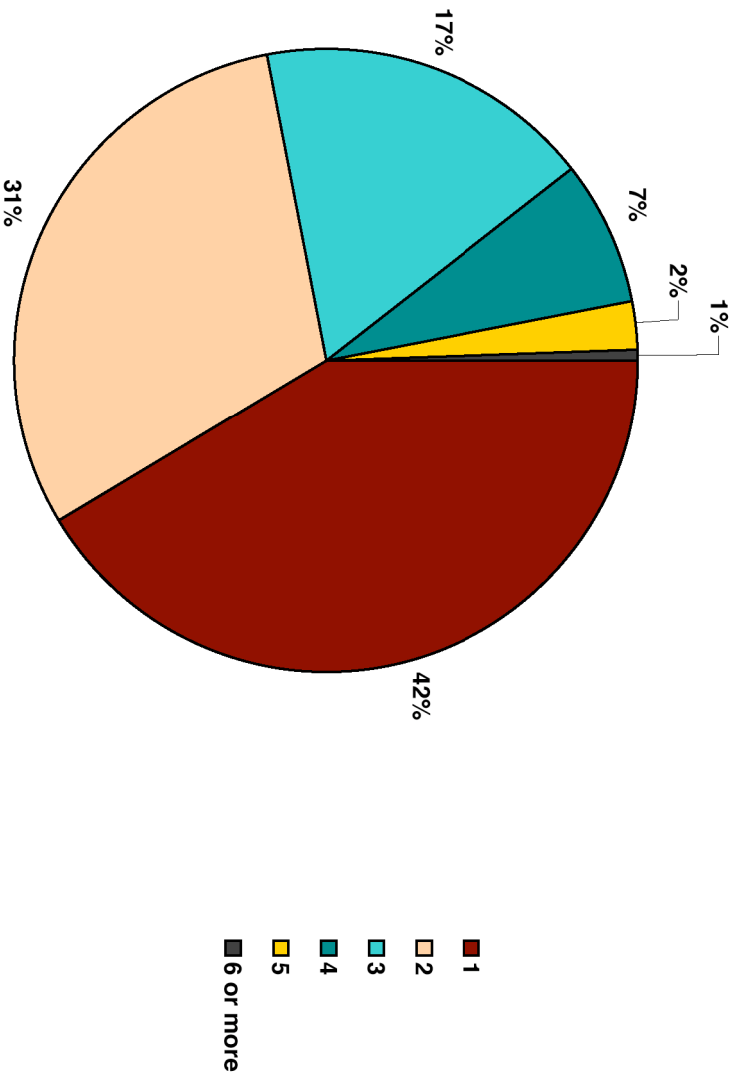
Graph 22: Number of Socio-Medical Centers and Number of Beneficiaries By Mohafaza\*, 2008



In 2008, there were 182,017 beneficiaries registered at the YMCA medical charts distributed almost evenly in all Mohafazats all over Lebanon, despite the fact that the majority of the contracted 447 socio-medical centers are present in Mount Lebanon (38.5%) and the South (23.7%).

When we analyze the YMCA records and check the morbidity per patient, we find that more than a quarter of the patients have 3 or more illnesses.

Graph 23: Number of Illnesses Per Patient\*, 2008

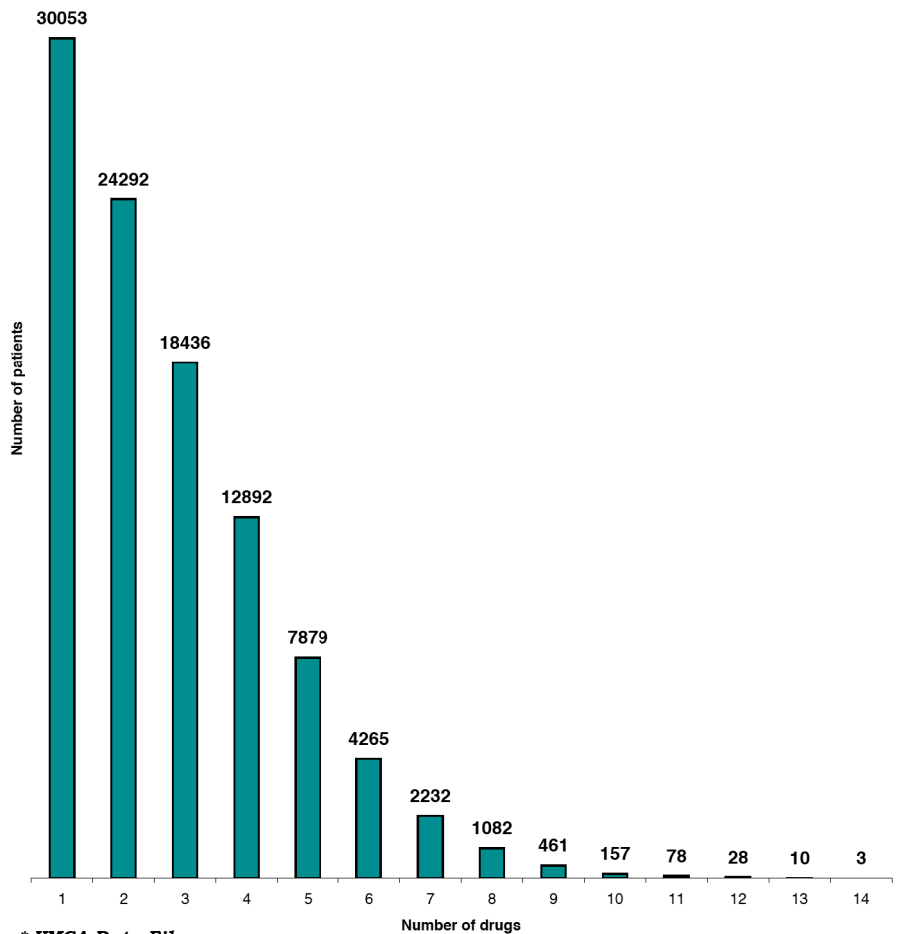


\*YMCA Data Files



Checking the morbidity by the drug records of the YMCA, it was clear that some 50% of the patients were prescribed 3 or more drugs.

Graph 24: Chronic Drugs Per Prescription\*, 2008





[illegible]