



النشرة الإحصائية Statistical Bulletin 2009

النشرة الإحصائية
دائرة الإحصاءات الحيوية والصحية

تلفون: 01-611390
وزارة الصحة العامة-مستديرة المتحف





مقدمة

للسنة الرابعة على التوالي، تصدر النشرة الإحصائية عن دائرة الإحصاءات الصحية والحيوية في وزارة الصحة العامة متضمنة معلومات إحصائية مستخرجة بمعظمها من قواعد بيانات الوزارة، وملقبة الضوء على التقديمات الصحية التي توفرها الوزارة على كافة الأراضي اللبنانية.

يوماً بعد يوم، يتزايد الإهتمام بالسياسات المبنية على الأبحاث والإحصاءات الصحية بهدف ترشيد القرارات. الى جانب ذلك يهتم الأكاديميون وذوو الإختصاص بالبيانات الإحصائية حتى يصوبوا توجهاتهم في الأبحاث الصحية. بناء عليه، في كل سنة نعدم الى اغناء هذه النشرة من حيث المعلومات الخدمانية، والطبية والأكاديمية، تعزيزاً لمصداقية الإحصاء، وإيفاءً بالغرض من إلقاء الضوء على استمرارية خدمات الوزارة من ناحية، واطهار المستجدات المتعلقة ببعض المتغيرات الصحية الوطنية ذات الأهمية، من ناحية أخرى.

تتضمن هذه النشرة تفصيلات فيما يتعلق بالأمراض وكيفية توزعها بحسب الشريحة من المواطنين المخولة الإستفادة من تقديمات وزارة الصحة العامة، والتي تشكل حالياً اكثر من نصف سكان لبنان. الى جانب ذلك نستمر في تطوير الناحية الإلكترونية عبر نسخة خاصة لموقع الوزارة الإلكتروني، بحيث تصل المعلومات الى أكبر عدد ممكن من المعنيين بأقل قدر ممكن من استخدام الورق مساهمة منا بنشر الثقافة البيئية.

على أمل تطور الإحصاءات سنة بعد سنة بفضل التعاون المستمر من المعنيين، والإقتراحات القيمة من قبل ذوي الإختصاص؛ وذلك بهدف جعل المعلومات الصحية أكثر توفراً وشفافية في عالم يعتمد بكليته ليس فقط على كمية المعلومات، بل ايضاً على جودتها.

وزير الصحة العامة

د. محمد جواد خليفة



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Table 1: Selected Indicators of Lebanon, 2005-2009

	Unit	2005	2006	2007	2008	2009	Latest figures (year)
Demographic Indicators							
Population Estimate*	1000 citizens	3,811	3,867	3,759	3,824	3,891	3891 (2009)
Number of Births		73,770	76,464	81,552	85,261	88,206	88206 (2009)
Number of Deaths		18,012	19,965	21,033	20,288	20,858	20858 (2009)
Crude Birth Rate	per 1000 mid year pop	19.4	19.8	20.8	21.4	22.8	22.8(2009)
Crude Death Rate	per 1000 mid year pop	4.7	5.2	5.3	5.1	5.4	5.4 (2009)
Population Growth Rate		1.47	1.46	1.54	1.6	1.7	1.7 (2009)
Population by Age							
	< 15 percent		27.2	27.2	24.6	24.8	24.8 (2009)
	65+ percent		7.7	7.7	9.6	9.8	9.8 (2009)
Dependency ratio			53.6	53.6	52	52	52 (2009)
Unemployment Ratio							9.2 (2004)
Total Fertility Rate							1.9 (2004)
Budgetary Resources Indicators							
Total GDP	Billion Leb. Pounds	32,945	33,917	37,926	45,346	52,650	52650 (2009)
Allocated to MOPH from Total Gov Budget	percent	3.6	3.12	3.05	3.26	2.7	2.7 (2009)
Annual Budget of MOPH	Billion Leb. Pounds	360.3	348.8	361.6	373.9	439.7	439.7 (2009)
Annual Budget of MOPH per capita	in \$US	63.3	60.1	61.1	62.1	73.3	73.3 (2009)
National Health Expenditure per capita	in \$US	460					460 (2005)
National Health Expenditure as % GDP	percent	8.3					8.3 (2005)
Manpower and Physical Resource Indicators							
Physicians	per 10,000 population	27.4	28.4	28.5		35.4	35.4 (2009)
Dentists		10.1	9.8	10.9		13.3	13.3 (2009)
Pharmacists		11.5	13.8	12.1		12.2	12.2 (2009)
Nursing and Midwifery Personnel		16.1	13.2	17.9		22.2	22.2 (2009)
Hospital Beds		36	36	35		34.5	34.5 (2009)
Coverage with Primary Health Care Indicators							
Infants Fully Immunized-DPT	Percent Immunized		46	52	93	96	96 (2009)
Infants Fully Immunized-OPV	Percent Immunized		46	52	94	93	93 (2009)
Infants Fully Immunized-Measles	Percent Immunized		48.5	55	89	93	93 (2009)
Infants Fully Immunized-Hepatitis B	Percent Immunized		46	52	93	96	96 (2009)
Population with Access to Safe Drinking Water	percent						100 (2004)
Married Women Using Contraceptives	percent						58 (2004)
Health Status Indicators							
Infant Mortality Rate	per 1000 LB						18.6 (2004)
Less than five mortality rate	per 1000 LB						19.1(2004)
Maternal Mortality Ratio	per 100,000 LB						23 (2008)
Selected Morbidity Indicators							
	Number of Notified Cases						
Cholera		0	0	0	0	0	
Polio		0	0	0	0	0	
Measles		644	905	374	24	23	
Diphtheria		0	0	0	0	0	
Tetanus		3	0	3	2	2	
Neonatal Tetanus		0	0	2	0	1	
Malaria		57	23	40	39	47	
AIDS		24	12	50	35	23	
Sources of Information							
Hospital Based reproductive Age Mortality Survey (RAMOS), 2008							
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)		Economic Accounts of Lebanon, 2009		Syndicates' figures	
TB Prevention Programme		رقام الموازنة العامة Government Budget					

* Excluding Palestinian Camps.



Table 2: MOPH Itemized Budget for the Past Three Years ('000 LBP)

	2009	2008	2007	
Hospitalization in private sector	305,000,000	256,000,000	250,000,000	موازنة وزارة الصحة العامة بحسب بندها الثلاثة سنوات الأخيرة (بالآلاف الليرات)
Public Hospitals	12,000,000	15,000,000	15,000,000	تلفقات استشفاء في القطاع الخاص
Drugs	66,000,000	52,500,000	50,000,000	مستشفيات حكومية
Contributions to NCOs	12,817,770	12,817,770	12,617,770	دوية
Salaries and other employees' benefits	27,522,100	24,052,860	24,173,000	مساهمات للقطاع غير الحكومي
Other Expenses	13,936,228	11,047,403	7,950,800	المخصصات والرواتب والاجور
Central Laboratory (Part One)	948,500	992,192	990,100	تلفقات اخرى
Part Two (Central Lab+MOPH)	1,523,000	1,507,000	900,000	المختبر المركزي جزء اول
Total MOPH Budget	439,747,598	373,917,225	361,631,670	الجزء الثاني لوزارة الصحة + المختبر المركزي
Total Government Budget	16,304,000,000	11,475,000,000	11,840,000,000	مجموع موازنة وزارة الصحة العامة
Government Debt	6,441,000,000	4,650,000,000	4,900,000,000	مجموع موازنة العامة
Total Government Budget Excluding Debt	9,863,000,000	6,825,000,000	6,940,000,000	ديون متوجبة الاداء
MOPH Budget out of Total Government Budget (with debt)	2.70	3.26	3.05	مجموع الموازنة العامة بدون الديون المتوجبة
MOPH Budget out of Total Government Budget (without debt)	4.46	5.48	5.21	نسبة موازنة وزارة الصحة الى الموازنة العامة/ بدون خدمة الدين

Source: Government Budget 2007, 2008, 2009

المصدر: الموازنة العامة، 2007-2008-2009

While the total government budget has increased, the MOPH budget has decreased to less than 3% of total government budget, of which 72% goes for hospitalization coverage in public and private sector, and 15% for drug procurement.

Table 3: Number of Registered Births By Month and Qada, 2009

Qada	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	447	575	751	576	583	680	924	901	688	693	603	607	8028
Aley	252	90	205	236	154	236	177	267	235	230	156	198	2436
Baabda	165	165	162	171	135	168	195	218	228	234	142	199	2182
Baalback	617	594	754	695	634	659	625	815	851	827	622	625	8318
batroun	64	43	108	70	50	123	85	102	89	86	81	42	943
Bcharri	63	32	62	47	53	60	72	51	77	62	52	69	700
Bega gharbi	247	130	164	170	241	222	363	264	223	269	213	227	2733
hint jbeil	347	280	378	310	342	372	382	391	428	349	298	353	4230
Chouf	356	222	348	259	283	397	380	386	418	405	297	347	4098
Hasbaya	85	69	99	68	81	75	119	119	119	105	102	112	1153
Hermel	197	141	177	134	136	74	84	84	60	94	101	52	1334
Jbeil	154	103	132	113	120	153	127	146	148	164	117	140	1617
Jezzine	106	63	110	81	102	89	115	94	94	104	74	74	1106
Kesserouan	81	99	105	88	98	124	139	135	148	115	94	124	1350
Koura	90	59	106	48	42	81	91	72	63	178	67	75	972
Marj3yon	368	201	263	243	195	197	298	274	274	375	603	262	3553
menieh-dennieh	370	301	284	264	234	371	300	315	317	478	289	347	3870
Metn	159	135	151	151	179	181	190	205	217	191	168	176	2103
Nabatieh	265	196	227	206	185	216	229	254	294	105	184	186	2547
Rachaya	65	48	99	172	68	69	148	93	75	65	79	82	1063
Saida	715	578	796	704	590	747	793	845	805	910	651	622	8756
Sour	552	306	458	381	371	472	525	562	537	468	394	501	5527
Tripoli	514	371	439	503	361	425	589	525	547	652	397	414	5737
Zahle	358	223	293	374	331	296	445	345	373	332	228	289	3887
Zgharta	85	62	56	49	93	98	118	116	145	136	78	93	1129
Beirut	796	552	482	823	733	747	869	821	846	728	579	858	8834
Total	7518	5638	7209	6936	6394	7332	8382	8400	8299	8355	6669	7074	88206

There were registered and reported 88,206 births in Lebanon during the year 2009. Beirut reports the highest number (8834), followed by Saida (8756), and Baalback (8318), and the lowest number was reported from Bcharri (700). It is worth mentioning that while 88,206 births were registered in 2009, only 69,693 of those have actually occurred during the year 2009. The delay in registration might well be caused by the births occurring abroad. In a search that was done on the Ministry of Foreign Affairs registered records of 2008, there was found that 66% (17263) of the entries were for births occurring abroad.



Table 4: Number of Registered Deaths By Month and Qada, 2009

Qada	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	127	87	121	100	48	123	132	110	127	124	104	141	1344
Aley	102	47	113	97	52	59	69	64	63	89	71	69	895
Baabda	85	77	51	54	50	47	61	53	56	57	57	76	724
Baalback	35	29	37	0	14	38	28	17	38	24	30	43	333
batroun	40	23	32	38	27	27	40	35	34	31	33	39	399
Bcharrî	31	5	30	13	23	18	25	22	23	19	21	33	263
Bqaa gharbi	47	40	45	45	33	39	50	45	42	47	53	39	525
hint jbel	74	82	62	62	37	61	60	65	53	57	70	62	745
Chouf	121	121	125	95	97	93	106	90	98	124	92	125	1287
Hasbaya	17	21	21	14	14	17	19	18	14	24	21	19	219
Hermel	28	13	18	20	17	17	24	13	20	15	12	20	217
Jbel	55	33	56	42	51	45	44	37	44	41	43	50	541
Jezzine	49	42	43	30	31	42	30	30	24	36	39	41	437
Kesserouan	67	75	70	60	61	63	61	73	48	54	52	68	752
Koura	49	16	33	22	25	26	25	30	27	37	14	36	340
MarjËsyon	57	57	46	43	48	32	42	48	38	50	104	63	628
meneh-dennieh	50	54	37	58	44	56	41	42	47	48	46	58	581
Metn	110	114	121	96	100	101	84	89	104	99	89	110	1217
Nabatieh	71	44	62	59	47	47	50	57	39	24	34	58	592
Rachaya	23	13	25	23	18	21	21	11	32	28	11	35	261
Saida	162	190	196	163	154	132	146	134	155	155	128	149	1864
Sour	109	90	104	65	63	87	74	95	82	101	76	106	1052
Tripoli	130	98	83	115	95	112	82	92	164	105	84	106	1266
Zahle	89	92	99	91	100	73	70	76	67	79	85	93	1014
Zgharta	37	26	37	31	26	37	23	29	29	36	20	33	364
Beirut	308	236	265	242	240	243	243	261	244	233	194	289	2998
Total	2073	1725	1932	1678	1515	1656	1650	1636	1712	1737	1583	1961	20858

There were registered and reported 20,858 deaths all over Lebanon during the year 2009. The same study on the Ministry of Foreign Affairs 2008 records showed that 1304 entries out of 25,991 were for deaths occurring outside Lebanon. With 40,000 entries recorded in 2009, it is expected that around 2000 deaths of the 20858 would have occurred outside Lebanon.

There were 3,891,466 persons residing in Lebanon in 2009. This estimate was derived taking for a baseline population that of the Household Survey conducted by the Central Administration for Statistics (CAS) for the year 2007, with growth consisting of the births less the deaths for the years in question. The Cada partitioning, though, refers to a baseline distribution for the year 1996 from the survey that was done by the Ministry of Social Affairs and CAS, and which is the only existing estimate produced at the level of the Qada.

Table 5: Resident Population* Distribution By Mohafaza and Qada, 2004-2009

Mohafaza	Qaza	Population 2004	Population 2005	Population 2006	Population 2007 After HHS 2007	Population 2008 After HHS 2007	Population 2009	
North	Akkar	226,752	230,119	233,546	227,217	234,328	241,012	
	Minieh Danieh	112,303	113,971	115,668	112,159	115,004	118,293	
	Tripoli	256,360	260,166	264,040	253,606	257,999	262,470	
	Zgharta	56,868	57,712	58,572	55,980	56,638	57,403	
	Koura	55,583	56,408	57,248	54,668	55,077	55,709	
	Echtrih	19,872	20,167	20,468	19,725	20,104	20,341	
	Baroun	40,964	41,572	42,191	40,356	40,749	41,293	
	Total	768,702	780,116	791,732	763,712	779,900	796,722	
	Bqaa	Hennel	47,189	47,890	48,603	49,173	50,796	51,913
		Eaalbeck	187,992	190,783	193,624	196,461	203,671	211,656
Zahléh		141,358	143,457	145,593	145,723	148,384	151,257	
Rachaya		28,805	29,233	29,668	30,031	31,510	31,512	
West Bqaa		65,860	66,838	67,833	68,477	70,110	72,318	
Total		471,205	478,202	485,322	489,865	503,671	518,656	
Nabatieh		Nabatieh	99,487	100,964	102,468	110,609	113,244	115,199
		Hasbaya	21,000	21,312	21,629	23,408	24,223	25,157
		Marjayoun	44,239	44,895	45,564	50,368	53,408	56,333
		Bint Jbeil	57,119	57,967	58,830	64,846	68,218	71,703
	Total	221,844	225,138	228,490	249,231	259,093	268,392	
	South	Saida	183,881	186,612	189,382	189,390	196,118	203,010
		Sour	194,622	197,512	200,453	197,907	202,400	206,875
		Jezzine	22,650	23,027	23,370	23,209	24,458	24,458
		Total	401,193	407,151	413,213	410,487	422,307	434,343
		Mount Lebanon	Jbel	84,039	85,287	86,556	83,594	84,588
Kesrouan			164,808	167,255	169,745	162,555	163,245	163,843
Mein			483,783	490,967	498,278	476,979	478,751	478,757
Baabda			483,973	491,159	498,472	477,299	478,616	480,074
Aley			129,053	130,970	132,920	128,230	129,484	131,025
Chouf			155,901	158,216	160,571	155,817	158,457	161,268
Total	1,501,556		1,523,853	1,546,343	1,484,474	1,492,241	1,500,611	
Beirut	Beirut		390,499	396,298	402,199	361,366	366,907	372,743
	Total		390,499	396,298	402,199	361,366	366,907	372,743
TOTAL			3,755,000	3,810,758	3,867,500	3,759,135	3,824,118	3,891,466

*Excluding Palestinian Camps



Table 6: Resident Population* Distribution by Age Group and Gender, 2009

Age groups	Percent			Population 2009			
	M	F	T	M	F	T	
0-4	3.6	3.3	6.9	140,093	128,418	268,511	
5-9	4.3	4.1	8.3	165,387	157,604	322,992	
10-14	4.9	4.5	9.4	190,682	175,116	365,798	
15-19	5.2	4.5	9.8	203,524	175,894	379,418	
20-24	5.1	4.7	9.8	198,465	182,899	381,364	
25-29	3.9	4.2	8.1	151,767	163,442	315,209	
30-34	3.5	3.8	7.4	137,758	148,654	286,412	
35-39	3.0	3.7	6.7	116,744	143,984	260,728	
40-44	2.7	3.5	6.2	106,237	136,201	242,438	
45-49	2.5	3.0	5.6	98,454	116,744	215,198	
50-54	2.2	2.5	4.8	86,780	97,287	184,066	
55-59	1.8	2.0	3.8	70,046	77,829	147,876	
60-64	1.7	2.0	3.7	66,155	77,829	143,984	
65-69	1.6	1.7	3.2	62,263	66,155	128,418	
70-74	1.4	1.4	2.8	54,481	54,481	108,961	
75-79	1.0	0.9	1.9	38,915	35,023	73,938	
80-84	0.6	0.6	1.2	23,349	23,349	46,698	
85+	0.3	0.2	0.5	11,674	7,783	19,457	
Total	49.4	50.6	100.0	1,922,773	1,968,693	3,891,466	

*Excluding Palestinian Camps

Table 7: Resident Population* Distribution by Age Group and Qada, 2009

Qaza	%	Age Group																			Total
		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+		
Akkr	6.19	16,630	20,004	22,655	23,499	23,619	19,522	17,738	16,148	15,015	13,328	11,400	9,158	8,917	7,953	6,748	4,379	2,892	1,205	241,012	
Mirshih Danieh	3.04	8,162	9,818	11,120	11,534	11,593	9,382	8,706	7,926	7,370	6,542	5,595	4,495	4,377	3,904	3,312	2,248	1,420	591	118,293	
Tripoli	6.74	18,110	21,785	24,672	25,591	25,722	21,260	19,318	17,585	16,532	14,515	12,415	9,974	9,711	8,662	7,349	4,987	3,150	1,312	262,470	
Zgharta	1.48	3,961	4,764	5,396	5,597	5,626	4,650	4,225	3,846	3,576	3,174	2,715	2,181	2,124	1,894	1,607	1,091	689	287	57,403	
Koura	1.43	3,844	4,624	5,237	5,432	5,460	4,512	4,100	3,733	3,471	3,081	2,635	2,117	2,061	1,838	1,560	1,058	669	279	55,709	
Beitreh	0.53	1,417	1,705	1,931	2,003	2,013	1,664	1,512	1,376	1,280	1,136	972	781	760	678	575	390	246	103	20,541	
Beitroun	1.06	2,849	3,427	3,882	4,026	4,047	3,345	3,039	2,767	2,573	2,284	1,953	1,569	1,528	1,363	1,156	785	496	206	41,293	
20,47																					
Hennel	1.33	3,582	4,309	4,880	5,061	5,087	4,205	3,821	3,478	3,234	2,871	2,455	1,973	1,921	1,713	1,454	986	623	260	51,912	
Baalbeck	5.44	14,604	17,567	19,896	20,636	20,742	17,144	15,578	14,181	13,186	11,705	10,011	8,043	7,831	6,985	5,926	4,021	2,340	1,058	211,656	
Zatleh	3.89	10,437	12,554	14,218	14,748	14,823	12,252	11,133	10,134	9,423	8,365	7,154	5,748	5,597	4,991	4,235	2,874	1,815	756	151,257	
Rachaya	0.81	2,174	2,616	2,962	3,072	3,088	2,533	2,319	2,111	1,963	1,743	1,491	1,197	1,166	1,040	882	599	378	158	31,512	
West Beqaa	1.86	4,990	6,002	6,798	7,051	7,087	5,858	5,323	4,845	4,505	3,999	3,421	2,748	2,676	2,386	2,025	1,374	868	362	72,318	
13,33																					
Nabatieh	2.96	7,949	9,562	10,829	11,232	11,289	9,331	8,479	7,718	7,177	6,371	5,449	4,378	4,262	3,802	3,226	2,189	1,382	576	113,199	
Hasbaya	0.65	1,736	2,088	2,365	2,453	2,465	2,038	1,852	1,685	1,567	1,391	1,190	956	931	830	704	478	302	126	25,157	
Marjayoun	1.45	3,887	4,676	5,295	5,492	5,521	4,563	4,146	3,774	3,510	3,115	2,665	2,141	2,084	1,859	1,577	1,070	676	282	56,333	
Bint Djebel	1.84	4,948	5,951	6,740	6,991	7,027	5,808	5,277	4,804	4,467	3,965	3,392	2,725	2,653	2,366	2,008	1,362	860	359	41,703	
6,90																					
Saida	5.22	14,008	16,830	19,083	19,793	19,895	16,444	14,942	13,602	12,648	11,226	9,602	7,714	7,511	6,699	5,684	3,857	2,436	1,015	203,010	
Sour	5.32	14,274	17,171	19,446	20,170	20,274	16,757	15,226	13,861	12,888	11,440	9,785	7,861	7,654	6,827	5,792	3,931	2,482	1,034	206,875	
Jezzine	0.63	1,688	2,030	2,299	2,385	2,397	1,981	1,800	1,639	1,524	1,333	1,157	929	905	807	685	465	293	122	24,458	
11,16																					
Jbel Kesrouan	2.20	5,911	7,110	8,052	8,352	8,395	6,939	6,305	5,739	5,337	4,737	4,052	3,255	3,170	2,827	2,399	1,628	1,028	428	85,664	
Meh	4.21	11,305	13,599	15,401	15,975	16,057	13,271	12,089	10,977	10,207	9,061	7,750	6,226	6,062	5,407	4,588	3,113	1,966	819	163,843	
Bachda	12.30	33,033	39,735	45,001	46,677	46,916	38,778	35,235	32,075	29,825	26,474	22,644	18,192	17,713	15,798	13,405	9,096	5,745	2,394	478,737	
Aleq	33,125	39,846	45,127	46,807	47,047	38,886	35,333	32,165	29,909	26,548	22,707	18,243	17,763	15,842	13,442	9,121	5,761	2,400	880,074		
Chouf	3.37	9,041	10,875	12,316	12,775	12,840	10,613	9,643	8,779	8,163	7,246	6,197	4,979	4,848	4,324	3,669	2,489	1,572	653	131,025	
4,14																					
38,56																					
Beitru	9.58	25,719	30,938	35,038	36,342	36,529	30,192	27,434	24,974	23,222	20,613	17,631	14,164	13,791	12,301	10,437	7,082	4,473	1,864	372,743	
9,58																					
TOTAL	100.00	268,511	322,992	365,798	379,418	381,564	315,209	286,412	260,728	242,438	215,198	184,066	147,876	143,984	128,418	108,961	73,938	46,698	19,457	3,891,466	

*Excluding Palestinian Camps



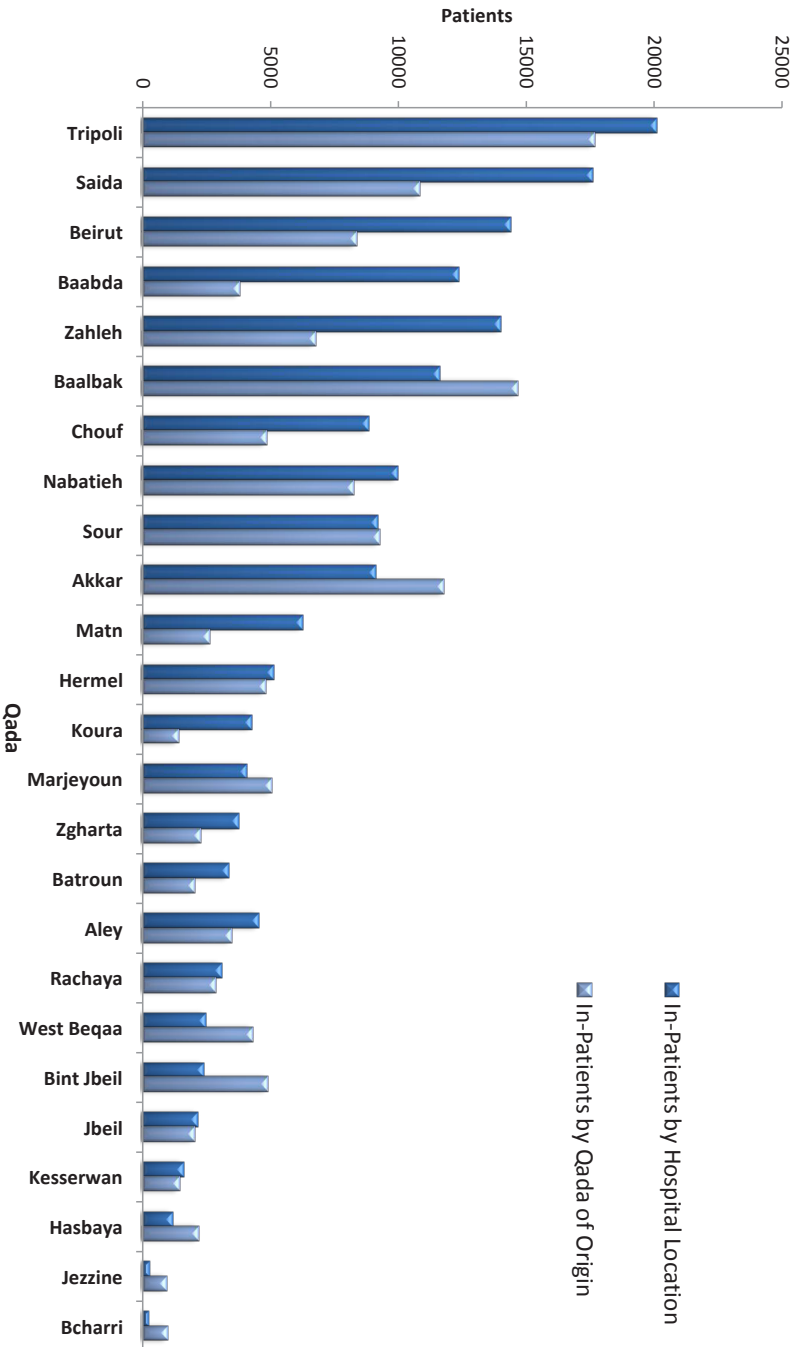
Table 8: Resident Population* Distribution by Age Group, Qada and Some Basic Indicators, 2009

Qaza	0-4	5-9	10-14	<15 years	>65years	Active Population**	Total Population	Births	Deaths	CBR	CDR	NGR
Akza	16,630	20,004	22,655	59,289	181,723	158,345	241,012	8028	1344	33.31	5.58	2.77
Mineh Danteh	8,162	9,818	11,120	29,100	89,193	77,718	118,293	3870	581	32.72	4.91	2.78
Trpolt	18,110	21,785	24,672	64,568	197,902	172,443	262,470	5737	1266	21.86	4.82	1.70
Zgharta	3,961	4,764	5,396	14,121	43,282	37,714	57,403	1129	364	19.67	6.34	1.33
Koura	3,844	4,624	5,237	13,705	42,004	36,601	55,709	972	340	17.45	6.10	1.13
Behrreh	1,417	1,705	1,931	5,053	15,488	13,495	20,541	700	263	34.08	12.80	2.13
Batroun	2,849	3,427	3,882	10,158	31,135	27,130	41,293	943	399	22.84	9.66	1.32
Hermel	3,582	4,309	4,880	12,771	39,141	34,107	51,912	1334	217	25.70	4.18	2.15
Baalbeck	14,604	17,567	19,896	52,067	159,589	139,058	211,656	8318	333	39.30	1.57	3.77
Zahlh	10,437	12,554	14,218	37,209	114,048	99,376	151,257	3887	1014	25.70	6.70	1.90
Rachagua	2,174	2,616	2,962	7,752	23,760	20,704	31,512	1063	261	33.73	8.28	2.55
West Begaa	4,990	6,002	6,798	17,790	54,528	47,513	72,318	2733	525	37.79	7.26	3.05
Nabatieh	7,949	9,562	10,829	28,339	86,860	75,686	115,199	2547	592	22.11	5.14	1.70
Hasbaga	1,736	2,088	2,365	6,189	18,968	16,528	25,157	1153	219	45.83	8.71	3.71
Mfarjoun	3,887	4,676	5,295	13,858	42,475	37,011	56,333	3553	628	63.07	11.15	5.19
Bint Jbeil	4,948	5,951	6,740	17,639	24,064	47,109	41,703	4230	745	101.43	17.86	8.36
Saida	14,008	16,850	19,083	49,940	153,070	133,378	203,010	8756	1864	43.13	9.18	3.39
Sour	14,274	17,171	19,446	50,891	155,984	135,917	206,875	5527	1052	26.72	5.09	2.16
Jezeine	1,688	2,030	2,299	6,017	18,441	16,069	24,458	1106	437	45.22	17.87	2.74
Jbeil	5,911	7,110	8,052	21,073	64,591	56,281	85,664	1617	541	18.88	6.32	1.26
Kesrouan	11,305	13,599	15,401	40,305	123,538	107,645	163,843	1350	752	8.24	4.59	0.36
Metn	33,033	39,735	45,001	117,769	360,968	314,530	478,737	2103	1217	4.39	2.54	0.19
Baabda	33,125	39,846	45,127	118,098	361,976	315,408	480,074	2182	724	4.55	1.51	0.30
Aley	9,041	10,875	12,316	32,232	98,793	86,084	131,025	2436	895	18.59	6.83	1.18
Chouf	11,127	13,385	15,159	39,672	121,596	105,953	161,268	4098	1287	25.41	7.98	1.74
Beirut	25,719	30,938	35,038	91,695	36,156	244,892	372,743	8834	2998	23.70	8.04	1.57
TOTAL	268,511	322,992	365,798	957,301	377,472	2,556,693	3,861,465	88,206	20,858	22.84	5.40	1.74

*Excluding Palestinian Camps

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

The crude birth rate of Lebanon for 2009 was 22.84 and the crude death rate was 5.4 with an overall growth rate of 1.74 ranging from 0.3 in Baabda, to as high as 8.36 in Bint Jbeil.

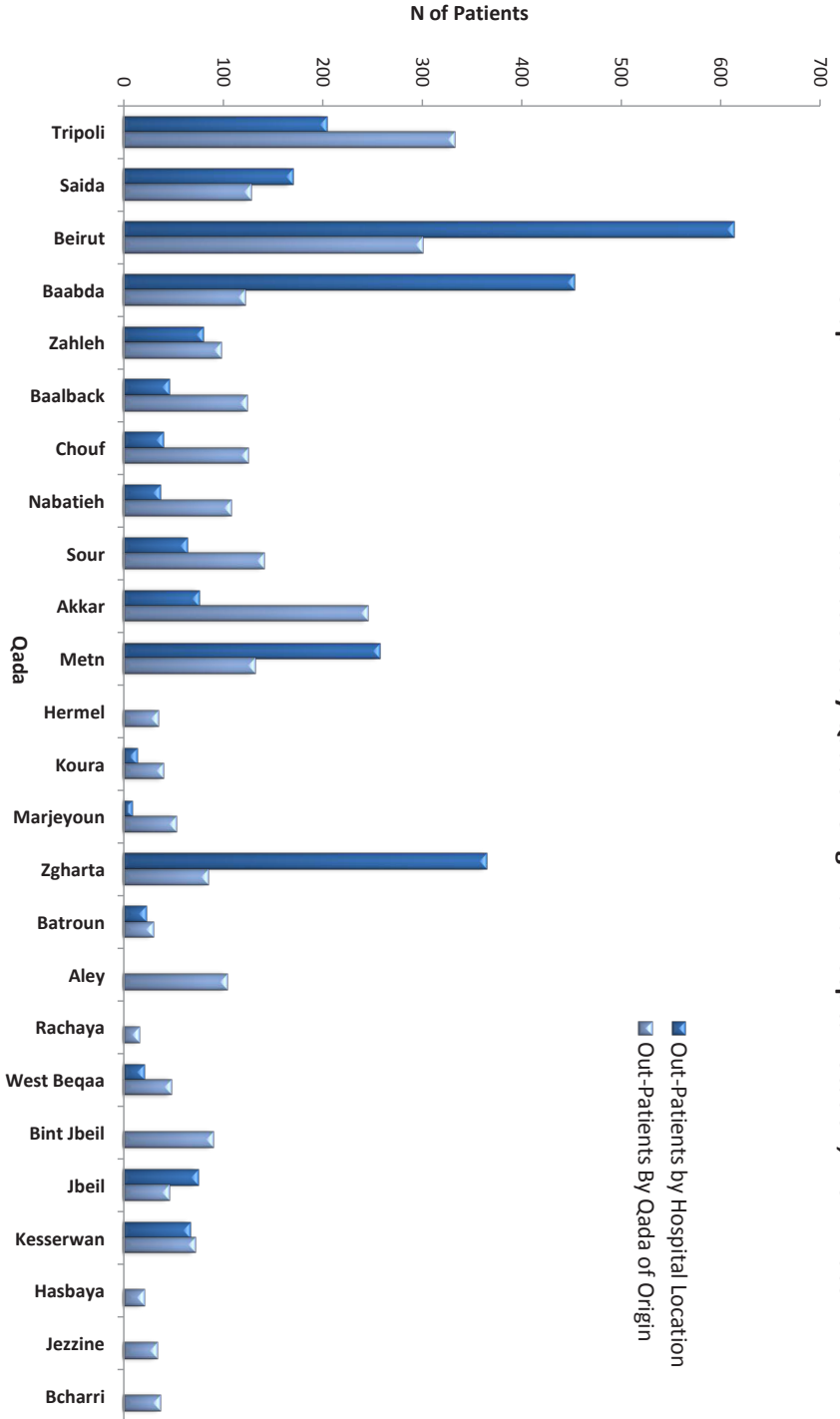


Graph 1: Number of Subsidized In-Patients by Qada of Origin and Hospital Location, MOPH 2009

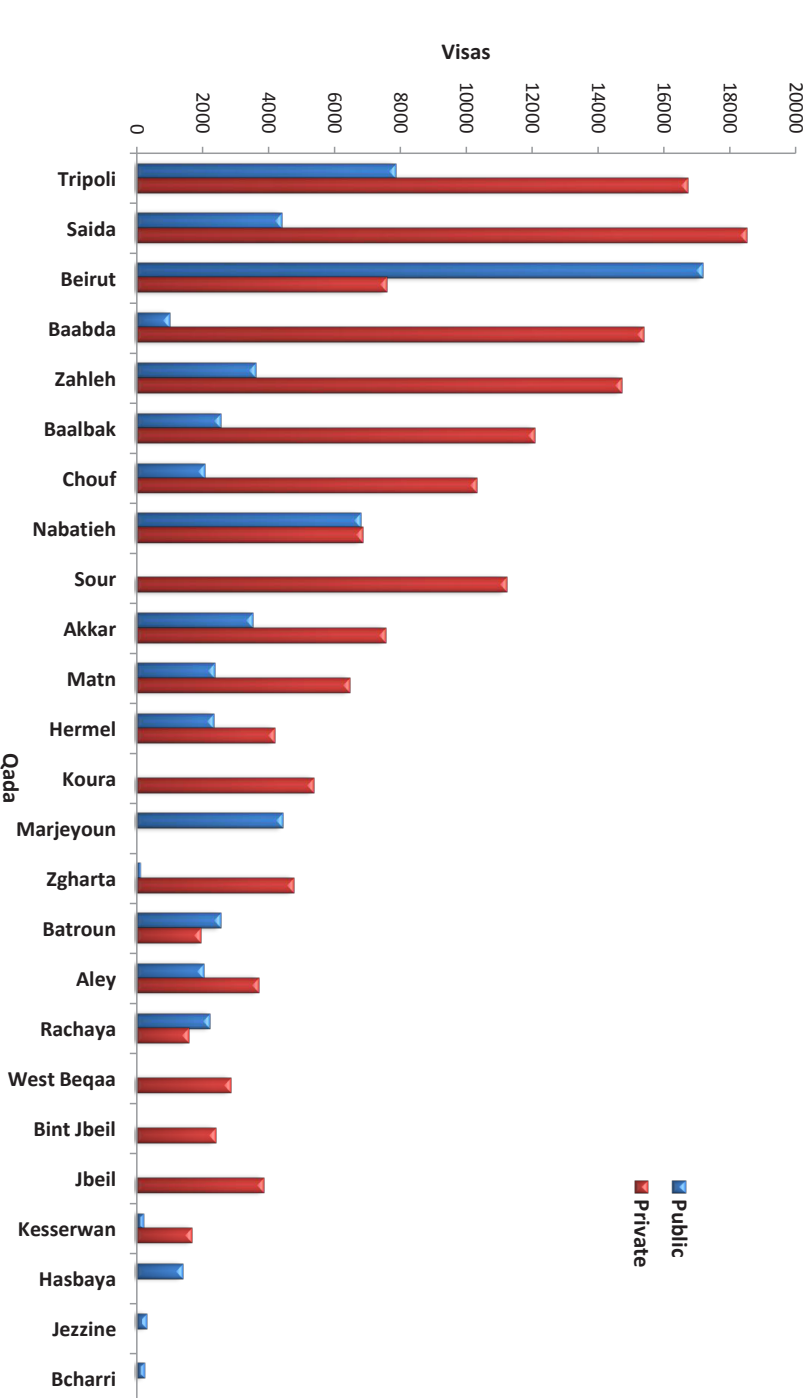
There were 226,247 visas (public=66870, private=159377) issued to 136,993 patients who were admitted at the expense of the MOPH during the year 2009. When we look at the distribution of patients, we find that patients from the Qada are lower or higher in number than patients seeking services in the hospitals of the same Qada. This means that sometimes, patients would seek services outside their Qada of origin, which might be related to their actual place of residence.



Graph 2: Number of Out-Patients by Qada of Origin and Hospital Location, MOPH 2009



The case for the out-patient services does not differ from the in-patients', whereby the number of patients as per the Qada of origin differs from the number of patients by hospital location. This is due to the fact that out-patient care centers are not distributed evenly across al Qadas.

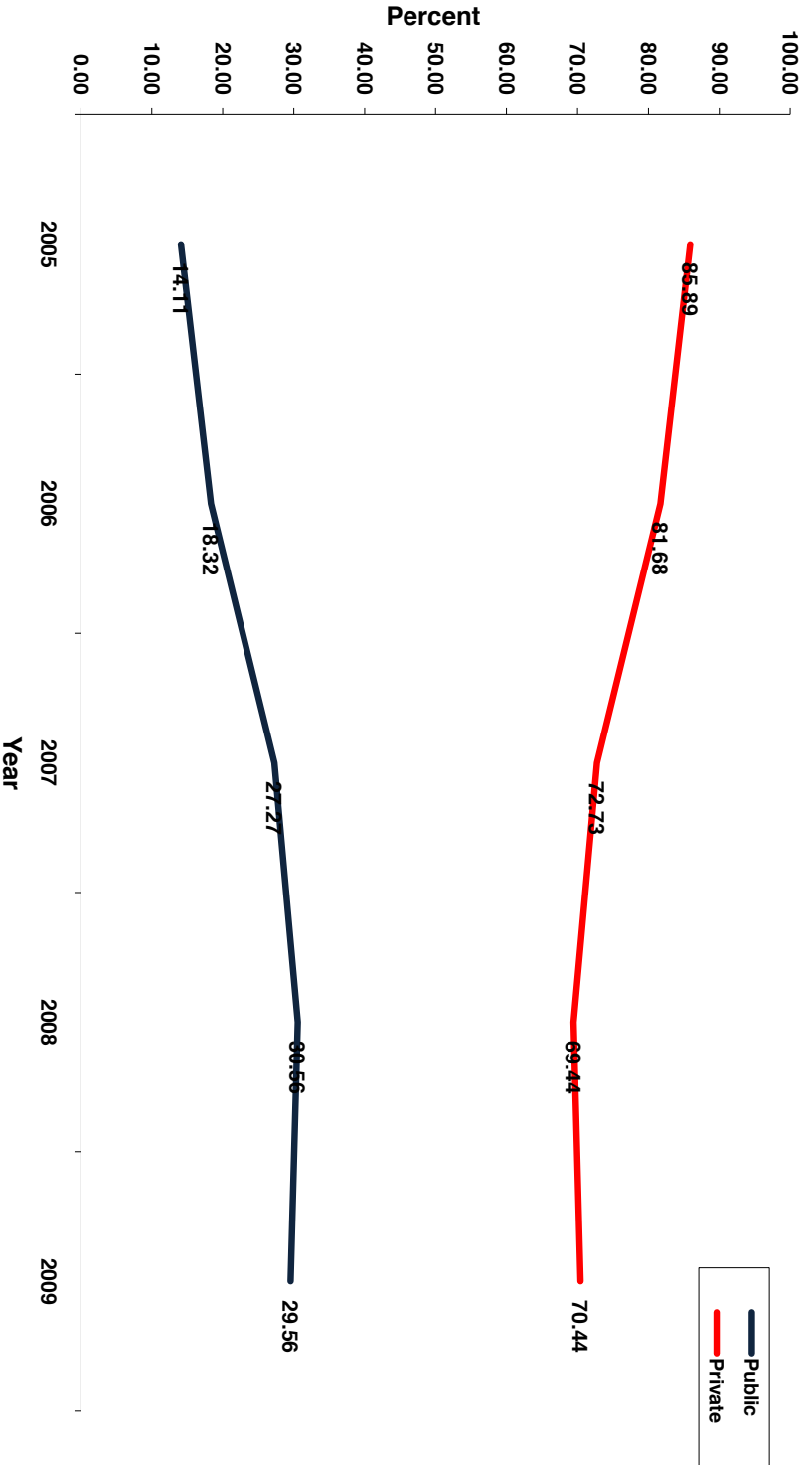


Graph 3: Number of MOPH Subsidized Admissions by Qada of Patients and Type of Hospital, 2009

This is the number of admissions (226,247) issued during the year 2009. 66870 visas-in were issued to public hospitals as compared to 159377 visas to the private hospitals. As expected, in places where there are active public hospitals, the number of admissions issued to the public sector exceed that for the private sector's.



Graph 4: The Evolution of MOPH Subsidized Admissions in Public and Private Hospitals Between 2005 and 2009

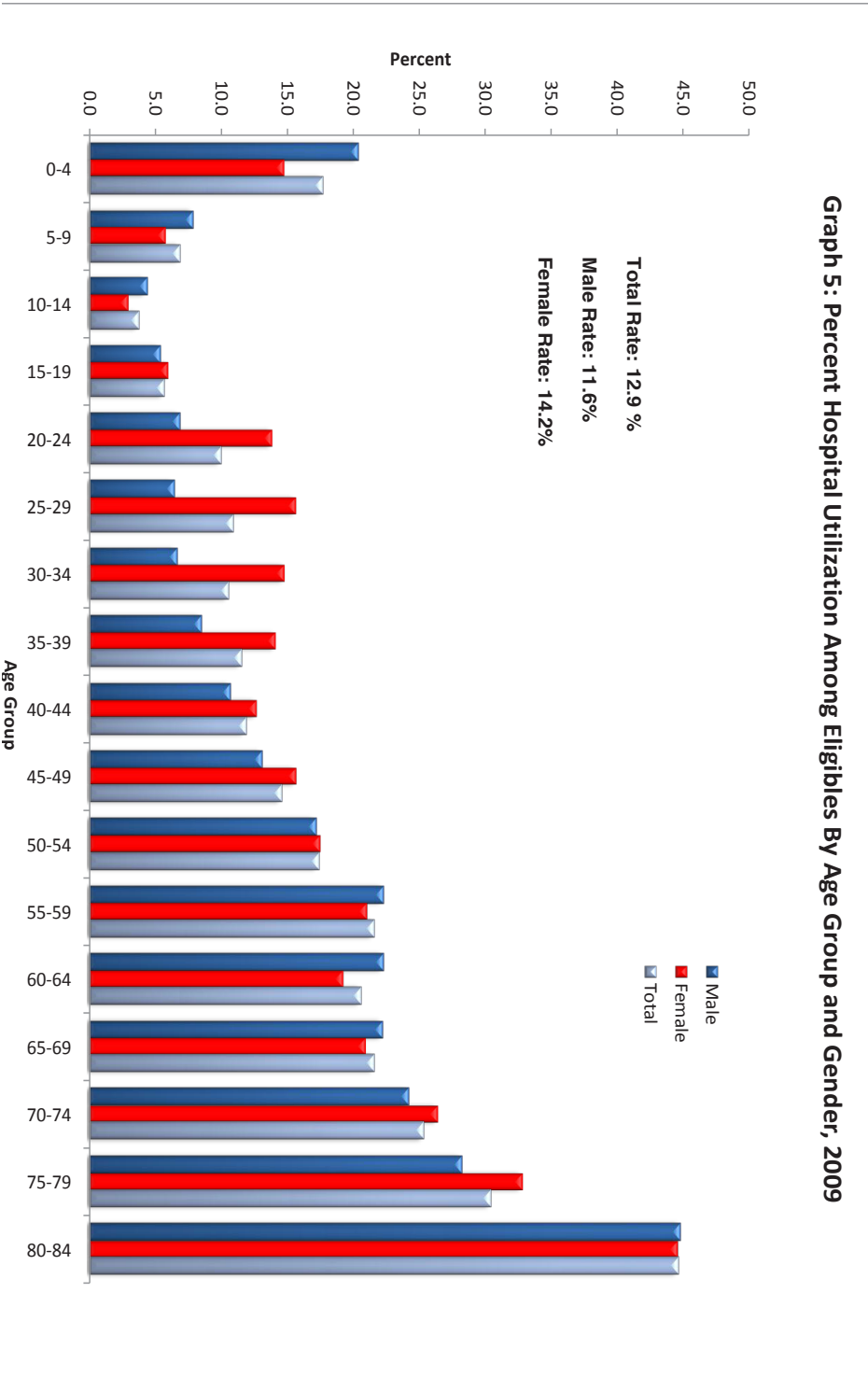


Year after year, the public hospitals are continuing to offer an improving quality services to the extent that admissions are being increased. But, considering the active number of beds that is originally lesser than the private hospitals' number of beds, the occupancy of public hospitals seems to have reached saturation, and the ratio of public to private admissions revolves around 30/70 for the two consecutive years 2008 and 2009.



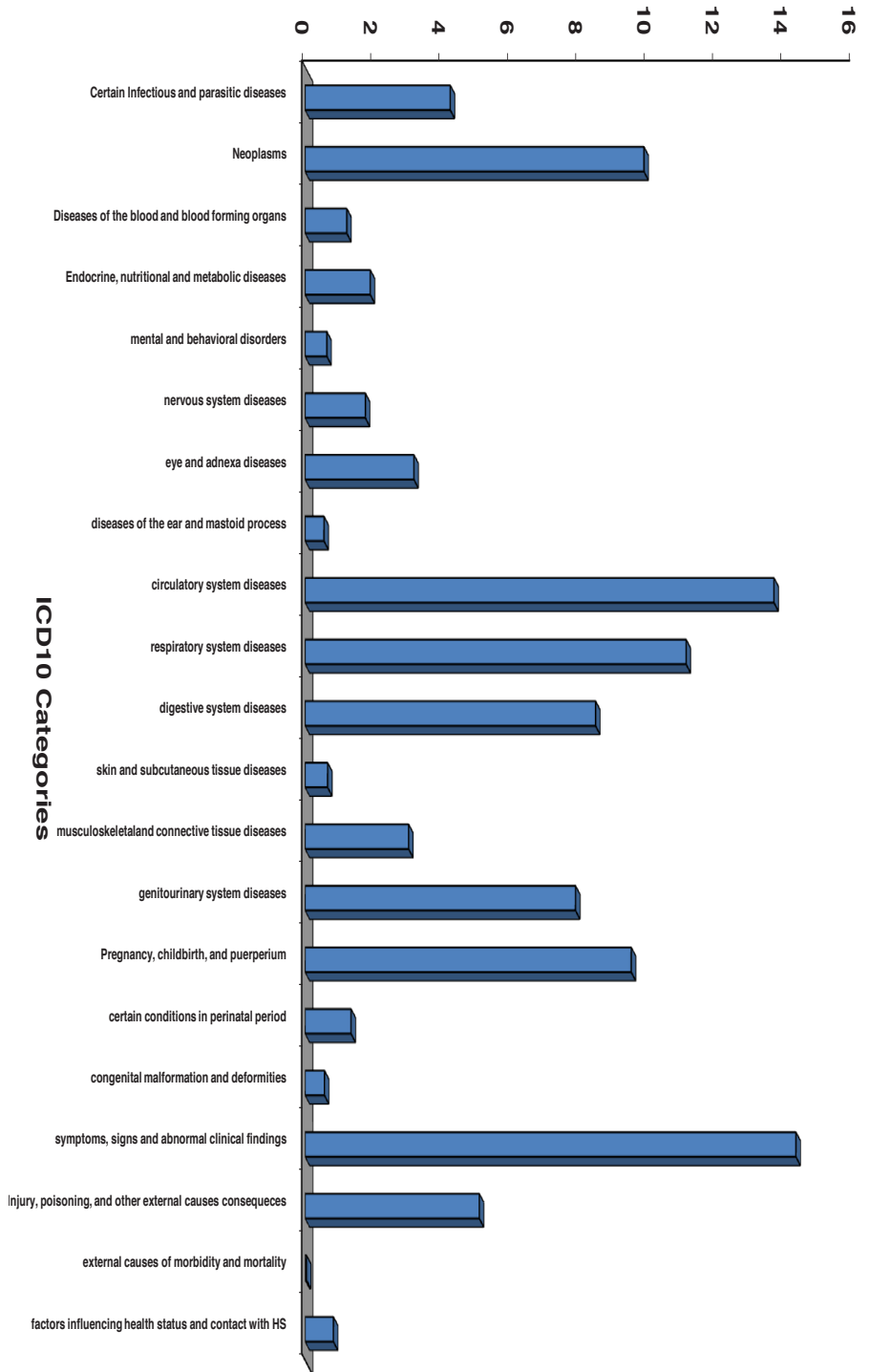
In 2007, the Household survey conducted by the Central Administration for Statistics provided the number of people who don't have any type of medical coverage across all age groups. These individuals are considered to be the eligible population for the MOPH services coverage. The prevalence of medical conditions among those reaches 12.9% (11.6% for males, and 14.2% for females). The pattern of service utilization for females probably follows delivery services in younger age groups, and the utilization for both genders increases with age as the proportion of the working population, and hence medical coverage which is largely related to the professional status, decreases.

Graph 5: Percent Hospital Utilization Among Eligibles By Age Group and Gender, 2009





Graph 6: MOPH Subsidized Admissions By Category of Diagnosis, 2009



The majority of the conditions presented for are in the circulatory (35,831) and the respiratory (29,118) systems, followed by the neoplasms (25,897) and pregnancy related conditions (24,924).



Table 9: MOPH Subsidized Hospital Admissions By Categories of Diagnosis and Gender, 2009

ICD10	Codes	Description	M	F	T
Chapter 1	A00-B99	Certain Infectious and Parasitic Diseases	M	F	T
	A00-A09	Intestinal Infectious Diseases	5,308	4,636	9,944
	A15-A19	Tuberculosis	25	19	44
	A20-A28	Certain zoonotic bacterial diseases	33	46	79
	A30-A49	Other bacterial diseases	290	271	561
	A50-A64	Infections with a predominantly sexual mode of transmission	10	11	21
	A65-A69	Other spirochaetal diseases	8	5	13
	A70-A74	Other diseases caused by chlamydiae	2	0	2
	A75-A79	Rickettsioses	2	0	2
	A80-A89	Viral Infections of the CNS	12	13	25
	A90-A99	Arthropod-borne viral fevers and viral hemorrhagic fevers	4	3	7
	B00-B09	Viral Infections characterized by skin and mucous membrane lesions	39	29	68
	B15-B19	Viral hepatitis	89	48	137
	B20-B24	Human immunodeficiency virus[HIV] disease	11	4	15
	B25-B34	Other viral diseases	20	7	27
	B35-B49	Mycoses	5	4	9
	B50-B64	Protozoal diseases	23	6	29
	B65-B83	Helminthiases	12	14	26
	B85-B89	Pediculosis, acariasis and other infestations	1	0	1
	B90-B94	Sequelae of infectious and parasitic diseases	1	2	3
	B95-B97	Bacterial, viral and other infectious agents	2	5	7
	B99	Other infectious diseases	38	38	76
Total			5,935	5,161	11,096
Chapter 2	C00-D48	Neoplasms	M	F	T
	C00-C97	Malignant Neoplasms	9,836	12,936	22,772
		lip oral cavity and pharynx	207	185	392
		digestive organs	1,645	1,608	3,253
		respiratory and intrathoracic organs	1,976	742	2,718
		bone and articular cartilage	165	152	317
		melanoma and other malignant neoplasms of skin	93	73	166
		mesothelial and soft tissue	152	128	280
		breast	265	5,560	5,825
		female genital organs	92	1,154	1,246
		male genital organs	752	70	822
		urinary tract	1,059	344	1,403
		eye, brain, and other parts of CNS	279	171	450
		thyroid and other endocrine glands	104	123	227
		ill-defined, secondary, and unspecified sites	422	547	969
		lymphoid, haematopoietic and related tissue	2,616	2,065	4,681
		independent (primary) multiple sites	9	14	23
	D00-D09	In situ neoplasms	85	76	161
	D10-D36	Benign neoplasms	832	1,663	2,495
	D37-D48	Neoplasms of uncertain and unknown behavior	198	271	469
Total			10,951	14,946	25,897

The MOPH visa billing system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2009, there were 261,665 conditions presenting for hospitalized treatment. 144,273 were for females and 117,392 were for males.



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ICD10	Codes	Description	M	F	T
Chapter 3	D50-D53	Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	M	F	T
	D50-D53	Nutritional anaemias	218	366	584
	D55-D59	Haemolytic anaemias	528	343	871
	D60-D64	Aplastic and other anaemias	511	711	1,222
	D65-D69	Coagulation defects, purpura and other haemorrhagic	121	138	259
	D70-D77	Other diseases of the blood and blood forming organs	41	53	94
	D80-D89	Certain Disorders involving the immune mechanism	85	71	156
Total			1,504	1,682	3,186
Chapter 4	E00-E90	Endocrine, Nutritional and metabolic diseases	M	F	T
	E00-E07	Disorders of thyroid gland	188	916	1,104
	E10-E14	Diabetes mellitus	1,222	1,711	2,933
	E15-E16	Other disorders of glucose regulation and pancreatic internal secretion	32	50	82
	E20-E35	Disorders of other endocrine glands	82	95	177
	E40-E46	Malnutrition	10	16	26
	E50-E64	Other nutritional deficiencies	7	1	8
	E65-E68	Obesity and other hyperalimentation	61	106	167
	E70-E90	Metabolic disorders	233	254	487
Total			1,835	3,149	4,984
Chapter 5	F00-F99	Mental and Behavioral disorders	M	F	T
	F00-F09	Organic, including symptomatic, mental disorders	34	51	85
	F10-F19	Mental and Behavioral disorders due to psychoactive substance abuse	142	48	190
	F20-F29	Schizophrenia, schizotypal and delusional disorders	573	296	869
	F30-F39	Mood [affective] disorders	90	125	215
	F40-F48	Neurotic, stress-related and somatoform disorders	45	59	104
	F50-F59	Behavioral syndromes associated with physiological disturbances and physical factors	0	2	2
	F60-F69	Disorders of adult personality and behaviour	8	7	15
	F70-F79	Mental retardation	88	51	139
	F80-F89	Disorders of psychological development	4	17	21
	F90-F98	Behavioral and emotional disorders with onset usually occurring in childhood and adolescence	8	7	15
	F99	Unspecified mental disorder	9	0	9
Total			1,001	663	1,664
Chapter 6	G00-G99	Diseases of the nervous system	M	F	T
	G00-G09	Inflammatory diseases of the central nervous system	129	113	242
	G10-G13	Systemic atrophies primarily affecting the nervous system	15	18	33
	G20-G26	Extrapyramidal and mood disorders	55	46	101
	G30-G32	Other degenerative diseases of the nervous system	27	39	66
	G35-G37	Demyelinating diseases of the CNS	66	79	145
	G40-G47	Episodic and paroxysmal disorders	839	799	1,638
	G50-G59	Nerve, nerve root and plexus disorders	210	502	712
	G60-G64	polyneuropathies and other disorders of the peripheral NS	33	29	62
	G70-G73	Diseases of myoneural junction and muscle	10	23	33
	G80-G83	Cerebral palsy and other paralytic syndromes	621	617	1,238
	G90-G99	Others disorders of the nervous system	175	164	339
Total			2,180	2,429	4,609

ICD10	Codes	Description	M	F	T
Chapter 7	H00-H59	Diseases of the eye and adnexa	M	F	T
	H00-H06	Disorders of eyelid, lachrymal system and orbit	97	145	242
	H10-H13	Disorders of conjunctiva	57	40	97
	H15-H22	Disorders of sclera, cornea, iris, and ciliary body	135	114	249
	H25-H28	Disorders of lens	2,777	3,568	6,345
	H30-H36	Disorders of choroid and retina	127	82	209
	H40-H42	Glaucoma	166	165	331
	H43-H45	Disorders of vitreous body and globe	138	102	240
	H46-H48	Disorders of optic nerve and visual pathways	1	2	3
	H49-H52	Disorders of ocular muscles, binocular movement accommodation and refraction	101	103	204
	H53-H54	Visual disturbances and blindness	86	81	167
	H55-H59	Other disorders of eye and adnexa	101	129	230
Total			3,786	4,531	8,317
Chapter 8	H60-H95	Diseases of the ear and mastoid process	M	F	T
	H60-H62	Diseases of the external ear	104	93	197
	H65-H75	Diseases of the middle ear and mastoid	486	461	947
	H80-H83	Diseases of the inner ear	85	146	231
	H90-H95	Other disorders of ear	38	33	71
Total			713	733	1,446
Chapter 9	I00-I99	Diseases of the circulatory system	M	F	T
	I00-I02	Acute Rheumatic fever	24	33	57
	I05-I09	Chronic rheumatic heart disease	82	112	194
	I10-I15	Hypertensive diseases	2,713	3,957	6,670
	I20-I25	Ischemic heart diseases	10,195	7,048	17,243
	I26-I28	circulation	46	50	96
	I30-I52	Other forms of heart disease	2,551	3,006	5,557
	I60-I69	Cerebrovascular diseases	1,202	1,112	2,314
	I70-I79	Diseases of arteries arterioles and capillaries	566	382	948
	I80-I89	Diseases of veins, lymphatic vessels and lymph nodes NEC	1,610	805	2,415
	I95-I99	Other and unspecified disorders of the circulatory system	143	194	337
Total			19,132	16,699	35,831
Chapter 10	J00-J99	Diseases of the respiratory system	M	F	T
	J00-J06	Acute upper respiratory infections	1,199	879	2,078
	J10-J18	Influenza and pneumonia	5,935	4,957	10,892
	J20-J22	Other acute lower respiratory infections	1,569	1,290	2,859
	J30-J39	Other diseases of upper respiratory tract	3,843	3,427	7,270
	J40-J47	Chronic lower respiratory diseases	1,886	1,717	3,603
	J60-J70	Lung diseases due to external agents	57	61	118
	J80-J84	Other resp. diseases principally affecting interstitium	805	848	1,653
	J85-J86	Suppurative and necrotic conditions of lower RT	22	12	34
	J90-J94	Other diseases of plura	133	138	271
	J95-J99	Other diseases of the respiratory system	203	137	340
Total			15,652	13,466	29,118



The MOPH visa billing system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2009, there were 261,665 conditions presenting for hospitalized treatment. 144,273 were for females and 117,392 were for males.

ICD10	Codes	Description	M	F	T
Chapter 11	K00-K93	Diseases of the digestive system	M	F	T
	K00-K14	Diseases of oral cavity salivary glands and jaws	276	341	617
	K20-K31	Diseases of oesophagus, stomach and duodenum	1,578	1,840	3,418
	K35-K38	Diseases of appendix	999	907	1,906
	K40-K46	Hernia	4,347	1,384	5,731
	K50-K52	Noninfective enteritis and colitis	981	1,087	2,068
	K55-K63	Other diseases of intestines	1,319	1,017	2,336
	K65-K67	Diseases of peritoneum	162	204	366
	K70-K77	Diseases of liver	313	229	542
	K80-K87	Disorders of gallbladder, biliary tract and pancreas	1,398	3,260	4,658
	K90-K93	Other diseases of the digestive system	286	271	557
Total			11,659	10,540	22,199
Chapter 12	L00-L99	Diseases of the skin and subcutaneous tissue	M	F	T
	L00-L08	Infections of the skin and subcutaneous tissue	671	424	1,095
	L10-L14	Bullous disorders	2	2	4
	L20-L30	Dermatitis and eczema	14	15	29
	L40-L45	Papulosquamous disorders	1	4	5
	L50-L54	Urticaria and erythema	44	50	94
	L55-L59	tissue	4	1	5
	L60-L75	Disorders of skin appendages	27	13	40
	L80-L99	Other disorders of the skin and subcutaneous tissue	268	185	453
Total			1,031	694	1,725
Chapter 13	M00-M99	Diseases of the musculoskeletal system and connective tissue	M	F	T
	M00-M25	Arthropathies	1,314	1,701	3,015
		<i>infectious arthropathies</i>	16	17	33
		<i>inflammatory polyarthropathies</i>	311	509	820
		<i>arthrosis</i>	378	603	981
		<i>other joint disorders</i>	609	572	1,181
	M30-M36	Systemic connective tissue disorders	57	45	102
	M40-M54	Dorsopathies	1,121	1,708	2,829
		<i>deforming dorsopathies</i>	26	47	73
		<i>spondylopathies</i>	102	165	267
		<i>other dorsopathies</i>	993	1,496	2,489
	M60-M79	Soft tissue disorders	456	633	1,089
		<i>disorders of muscles</i>	67	68	135
		<i>disorders of synovium and tendon</i>	158	295	453
		<i>other soft tissue disorders</i>	231	270	501
	M80-M94	Osteopathies and chondropathies	499	332	831
		<i>disorders of bonedensity and structure</i>	158	104	262
		<i>other osteopathies</i>	307	186	493
		<i>chondropathies</i>	34	42	76
	M95-M99	Other disorders of the musculoskeletal system and connective tissue	18	29	47
Total			3,465	4,448	7,913

ICD10	Codes	Description	M	F	T
Chapter 14	N00-N99	Diseases of the genitourinary system	M	F	T
	N00-N08	Glomerular diseases	140	152	292
	N10-N16	Renal tubulo-interstitial diseases	486	714	1,200
	N17-N19	Renal failure	1,021	917	1,938
	N20-N23	Urolithiasis	3,871	2,791	6,662
	N25-N29	Other disorders of kidney and ureter	68	78	146
	N30-N39	Other diseases of the urinary system	1,313	1,758	3,071
	N40-N51	Diseases of male genital organs	2,194	0	2,194
	N60-N64	Disorders of breast	0	439	439
	N70-N77	Inflammatory diseases of female pelvic organs	0	318	318
	N80-N98	Noninflammatory disorders of female genital tract	0	4,398	4,398
	N99	Other disorders of the genitourinary system	1	9	10
Total			9,094	11,574	20,668
Chapter 15	O00-O99	Pregnancy, Childbirth and puerperium	M	F	T
	O00-O08	Pregnancy with abortive outcome	0	1,618	1,618
	O10-O16	Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium	0	51	51
	O20-O29	Other maternal disorders predominantly related to pregnancy	0	191	191
	O30-O48	Maternal care related to the fetus and amniotic cavity and possible delivery problems	0	224	224
	O60-O75	Complications of labor and delivery	0	233	233
	O80-O84	Delivery	0	22,558	22,558
	O85-O92	Complications predominantly related to the puerperium	0	37	37
	O95-O99	Other obstetric conditions NEC	0	12	12
Total			0	24,924	24,924
Chapter 16	P00-P96	Certain conditions originating in the perinatal period	M	F	T
	P00-P04	Fetus and newborn affected by maternal factors and by complications of pregnancy labour and delivery	50	148	198
	P05-P08	Disorders related to length of gestation and fetal growth	263	213	476
	P10-P15	Birth trauma	11	8	19
	P20-P29	Respiratory and cardiovascular disorders specific to the perinatal period	1,054	683	1,737
	P35-P39	Infections specific to the perinatal period	210	157	367
	P50-P61	Haemorrhagic and haematological disorders of fetus and newborn	283	280	563
	P70-P74	Transitory endocrine and metabolic disorders specific to fetus and newborn	41	33	74
	P75-P78	Digestive system disorders of fetus and newborn	6	4	10
	P80-P83	Conditions involving the integument and temperature regulation of fetus and newborn	17	14	31
	P90-P96	Other disorders originating in the perinatal period	20	18	38
Total			1,955	1,558	3,513



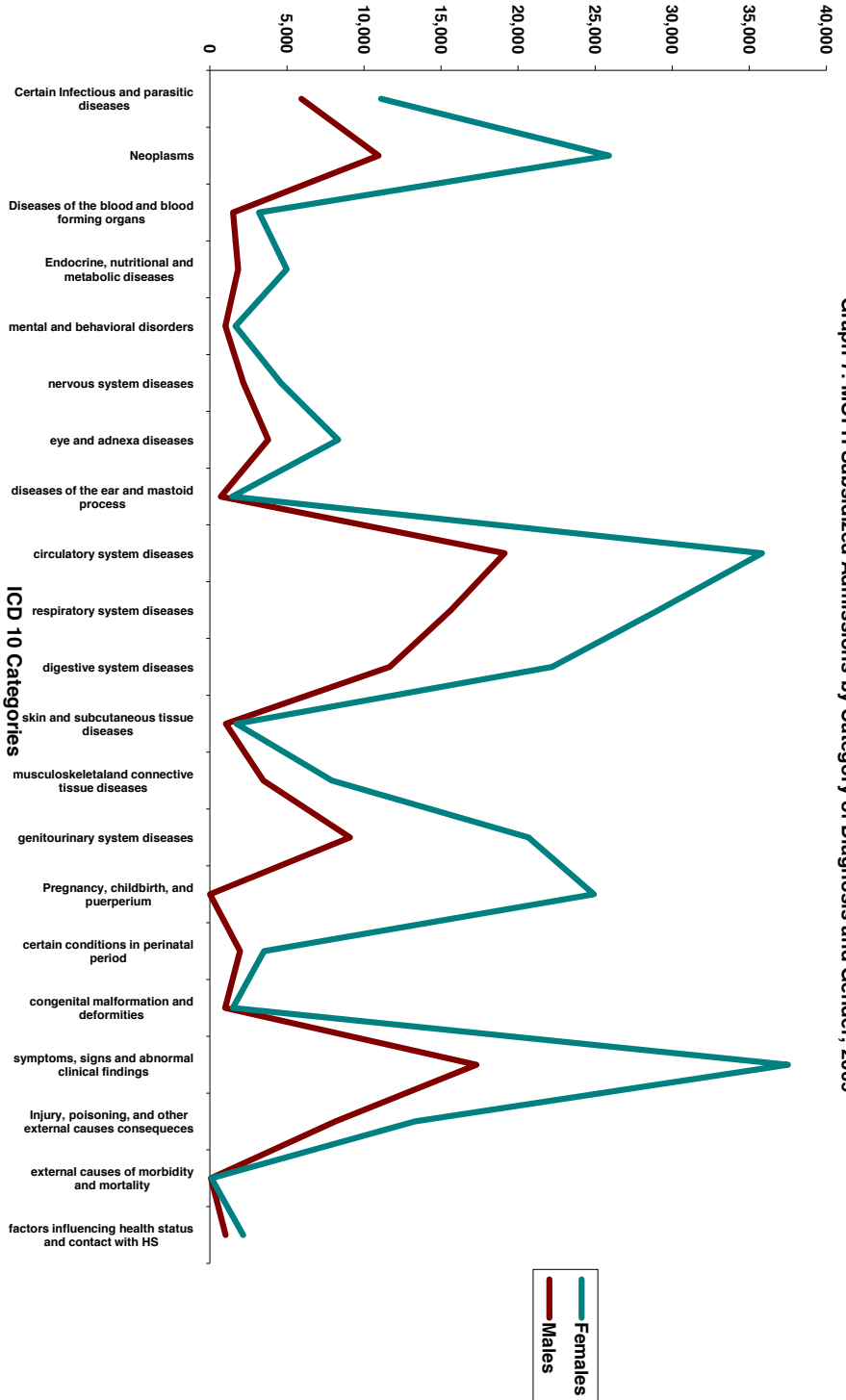
The MOPH visa billing system uses the International Classification of Disease, 10th revision (ICD10 coding system). During 2009, there were 261,665 conditions presenting for hospitalized treatment. 144,273 were for females and 117,392 were for males.

ICD10	Codes	Description	M	F	T
Chapter 17	Q00-Q99	Congenital malformations, deformations and chromosomal abnormalities	M	F	T
	Q00-Q07	Congenital malformations of the nervous system	30	49	79
	Q10-Q18	Congenital malformations of eye, ear, face and neck	13	9	22
	Q20-Q28	Congenital malformations of the circulatory system	101	73	174
	Q30-Q34	Congenital malformations of the respiratory system	7	3	10
	Q35-Q37	Cleft lip and cleft palate	29	23	52
	Q38-Q45	Other congenital malformations of the digestive system	76	52	128
	Q50-Q56	Congenital malformations of the genital organs	440	39	479
	Q60-Q64	Congenital malformations of the urinary system	123	70	193
	Q65-Q79	Congenital malformations and deformations of the musculoskeletal system	130	137	267
	Q80-Q89	Other congenital malformations	16	15	31
	Q90-Q99	Chromosomal abnormalities, NEC	16	30	46
Total			981	500	1,481
Chapter 18	R00-R99	Symptoms, signs and abnormal clinical and laboratory findings NEC	M	F	T
	R00-R09	Symptoms and signs involving the circulatory and respiratory systems	4,109	4,226	8,335
	R10-R19	Symptoms and signs involving the digestive system and abdomen	6,452	9,721	16,173
	R20-R23	Symptoms and signs involving the skin and subcutaneous tissue	134	131	265
	R25-R29	Symptoms and signs involving the nervous and musculoskeletal systems	53	62	115
	R30-R39	Symptoms and signs involving the urinary system	877	414	1,291
	R40-R46	Symptoms and signs involving cognition, perception, emotional state and behaviour	520	718	1,238
	R47-R49	Symptoms and signs involving speech and voice	18	20	38
	R50-R69	General symptoms and signs	5,034	4,808	9,842
	R70-R79	Abnormal findings on examination of blood, without diagnosis	36	58	94
	R80-R82	Abnormal findings on examination of urine, without diagnosis	27	35	62
	R83-R89	Abnormal findings on examination of other body fluids substances and tissues, without diagnosis	10	10	20
	R90-R94	Abnormal findings on diagnostic imaging and in function studies, without diagnosis	15	11	26
	R95-R99	Ill-defined and unknown causes of mortality	8	3	11
Total			17,293	20,217	37,510
Chapter 19	S00-T98	Injury, poisoning and certain other consequences of external causes	M	F	T
	S00-S09	Injuries to the head	1,008	515	1,523
	S10-S19	Injuries to the neck	128	63	191
	S20-S29	Injuries to the thorax	108	73	181
	S30-S39	Injuries to the abdomen, lower back, lumbar spine and pelvis	177	115	292
	S40-S49	Injuries to the shoulder and upper arm	515	437	952

ICD10	Codes	Description	M	F	T
	S50-S59	Injuries to the elbow and forearm	1,019	529	1,548
	S60-S69	Injuries to the wrist and hand	941	463	1,404
	S70-S79	Injuries to the hip and thigh	982	1,067	2,049
	S80-S89	Injuries to the knee and lower leg	1,001	561	1,562
	S90-S99	Injuries to the ankle and foot	337	155	492
	T00-T07	Injuries involving multiple body regions	1,182	639	1,821
	T08-T14	Injuries to unspecified part of trunk, limb or body region	218	114	332
	T15-T19	Effects of foreign body entering through natural orifice	35	28	63
	T20-T32	Burns and corrosions	110	88	198
	T33-T35	Frostbite	12	5	17
	T36-T50	Poisoning by drugs, medicaments and biological substances	16	26	42
	T51-T65	Toxic effects of substances chiefly nonmedicinal as to source	94	85	179
	T66-T78	Other and unspecified effects of external causes	56	34	90
	T79	Certain early complications of trauma	12	12	24
	T80-T88	Complications of surgical and medical care NEC	143	100	243
	T90-T98	Sequelae of injuries, of poisoning and of other consequences of external causes	51	60	111
Total			8,145	5,169	13,314
Chapter 20	V01-Y98	External causes of morbidity and mortality	M	F	T
Total			67	38	105
Chapter 21	Z00-Z99	Factors influencing health status and contact with health services	M	F	T
	Z00-Z13	Persons encountering health services for examination and investigation	71	61	132
	Z20-Z29	Persons with potential health hazards related to communicable diseases	14	12	26
	Z30-Z39	Persons encountering health services in circumstances related to reproduction	28	416	444
	Z40-Z54	Persons encountering health services for specific procedures and health care	707	547	1,254
	Z55-Z65	Persons with potential health hazards related to socioeconomic and psychosocial circumstances	5	3	8
	Z70-Z76	Persons encountering health services in other circumstances	6	7	13
	Z80-Z99	Persons with potential health hazards related to family and personal history and certain conditions influencing health status	182	106	288
Total			1,013	1,152	2,165
Total Number of Hospitalized Diagnoses			117,392	144,273	261,665



Graph 7: MOPH Subsidized Admissions by Category of Diagnosis and Gender, 2009

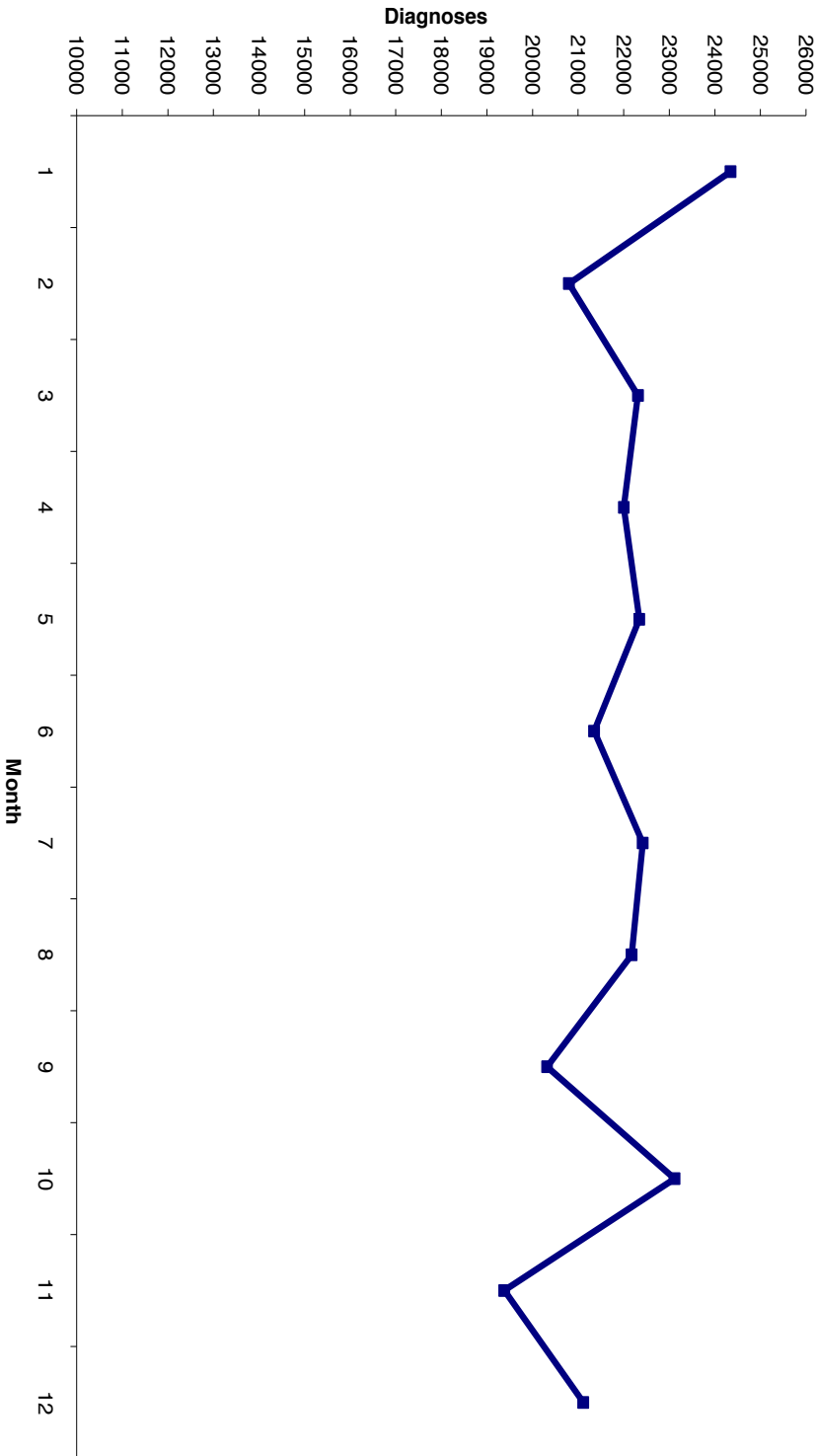


In absolute numbers, utilization of MOPH services is higher for females than for males across all categories of disease. This could be due to the fact that females seek medical care more than males, or that the number of females is higher in the eligible (un-insured) categories. This needs further investigation.



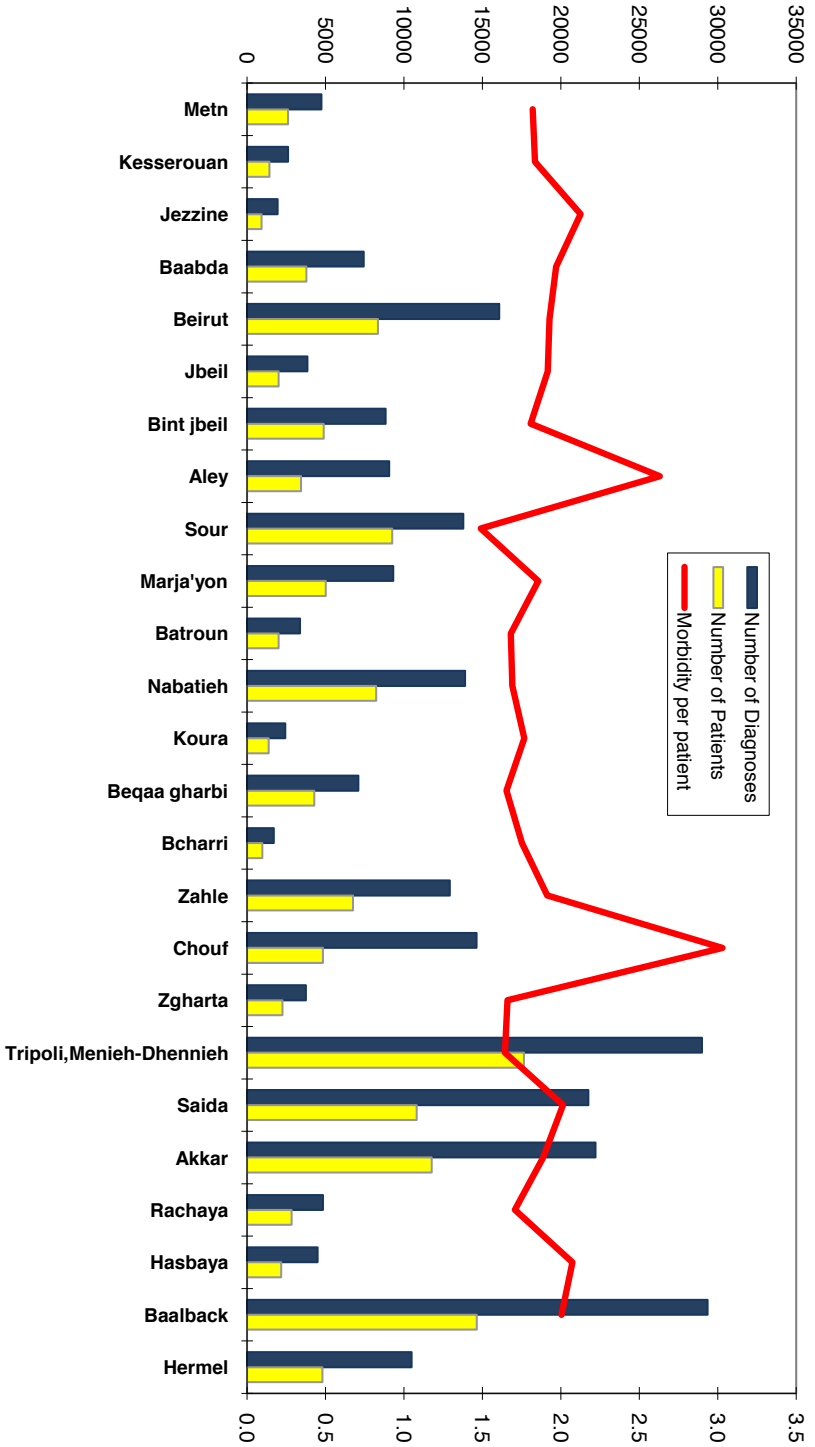
Examining visas issued over the months during the year 2009 shows that they range from 20,000 to 24,000 visas per month.

Graph 8: Trends in the number of Hospitalized Diagnoses by Month, 2009





Graph 9: Number of Diagnoses, Number of Patients, and Morbidity per Patient By Qada, 2009

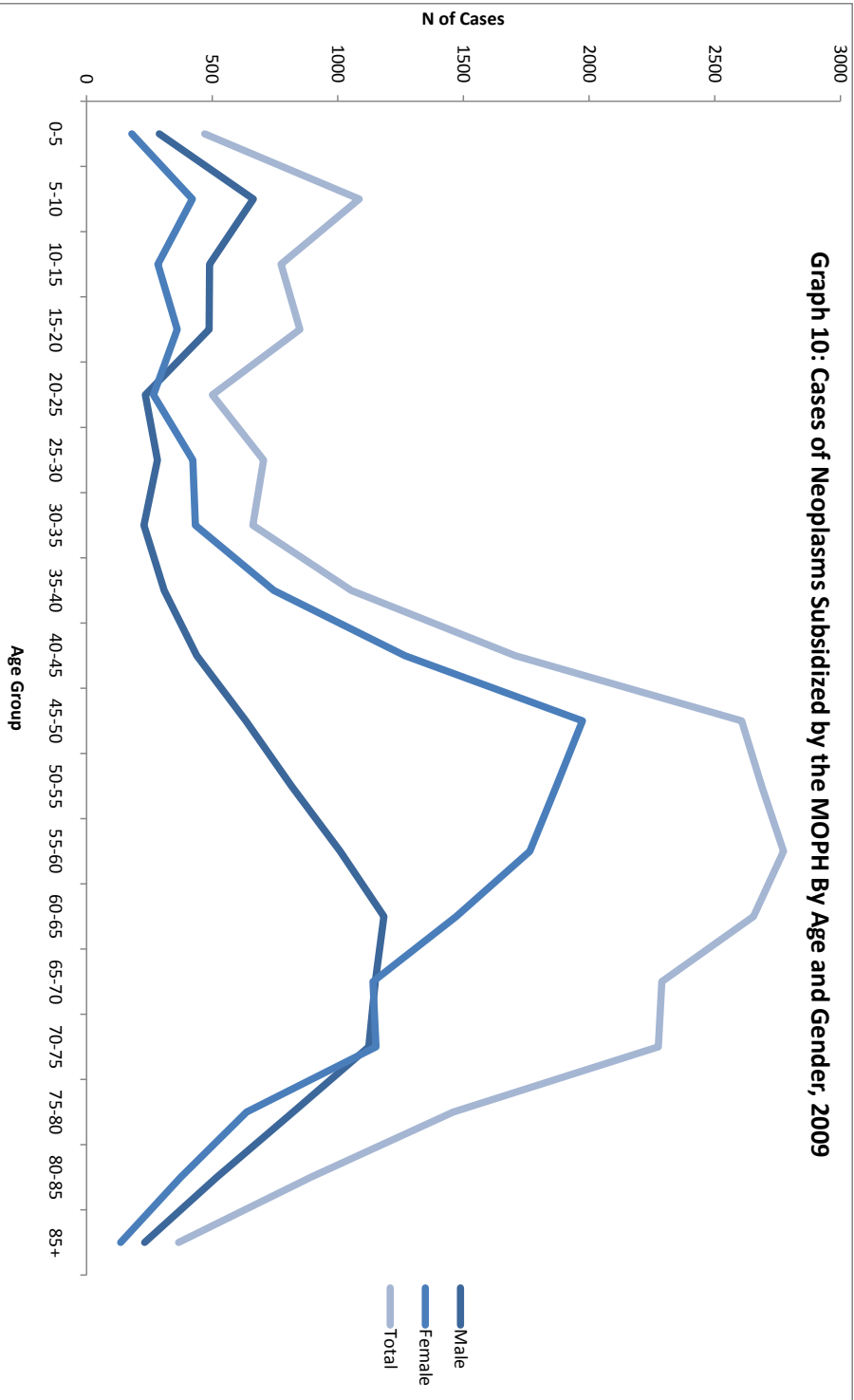


While the highest number of patients seeking MOPH services during 2009 was from the Qadas of Tripoli and Minieh-Dhennieh together (17,641), followed by Baalback (14,646), and the number of hospitalized illnesses was highest for the same two districts, the highest morbidity was noted for the two qadas of Chouf and Aley with an average of 3 and 2.6 morbidities per patient, respectively. This calls for further in-depth investigations in the two mentioned qadas.



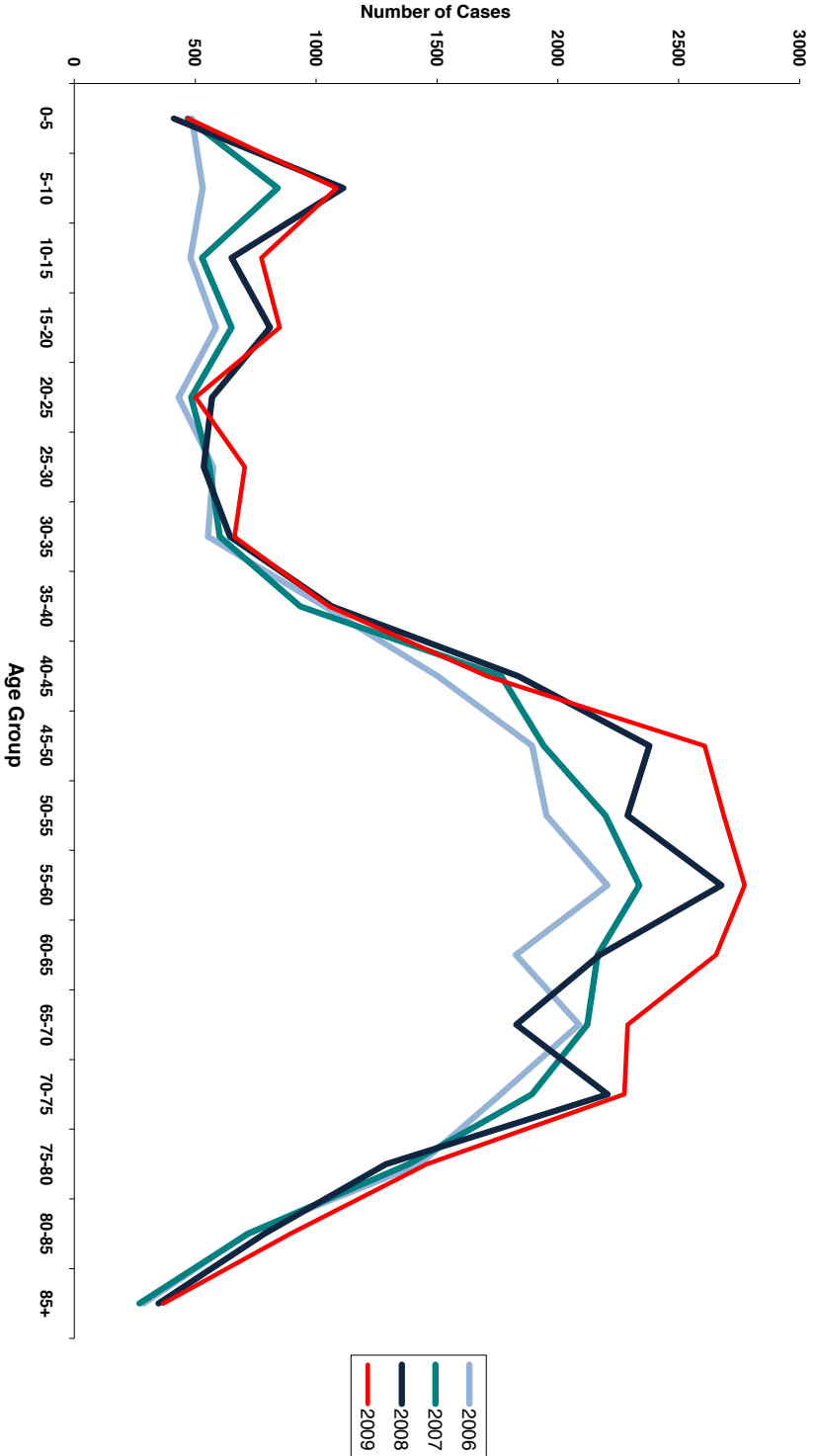
The age group with the highest incidence of neoplasms was 55-60 years old, while female neoplasms peak at an earlier age of 45-50 years old, and male neoplasms peak at a later age of 60-65 years. However, one has to notice the cancer peak at the age of 5-10 years for both males and females, which is alarming.

Graph 10: Cases of Neoplasms Subsidized by the MOPH By Age and Gender, 2009

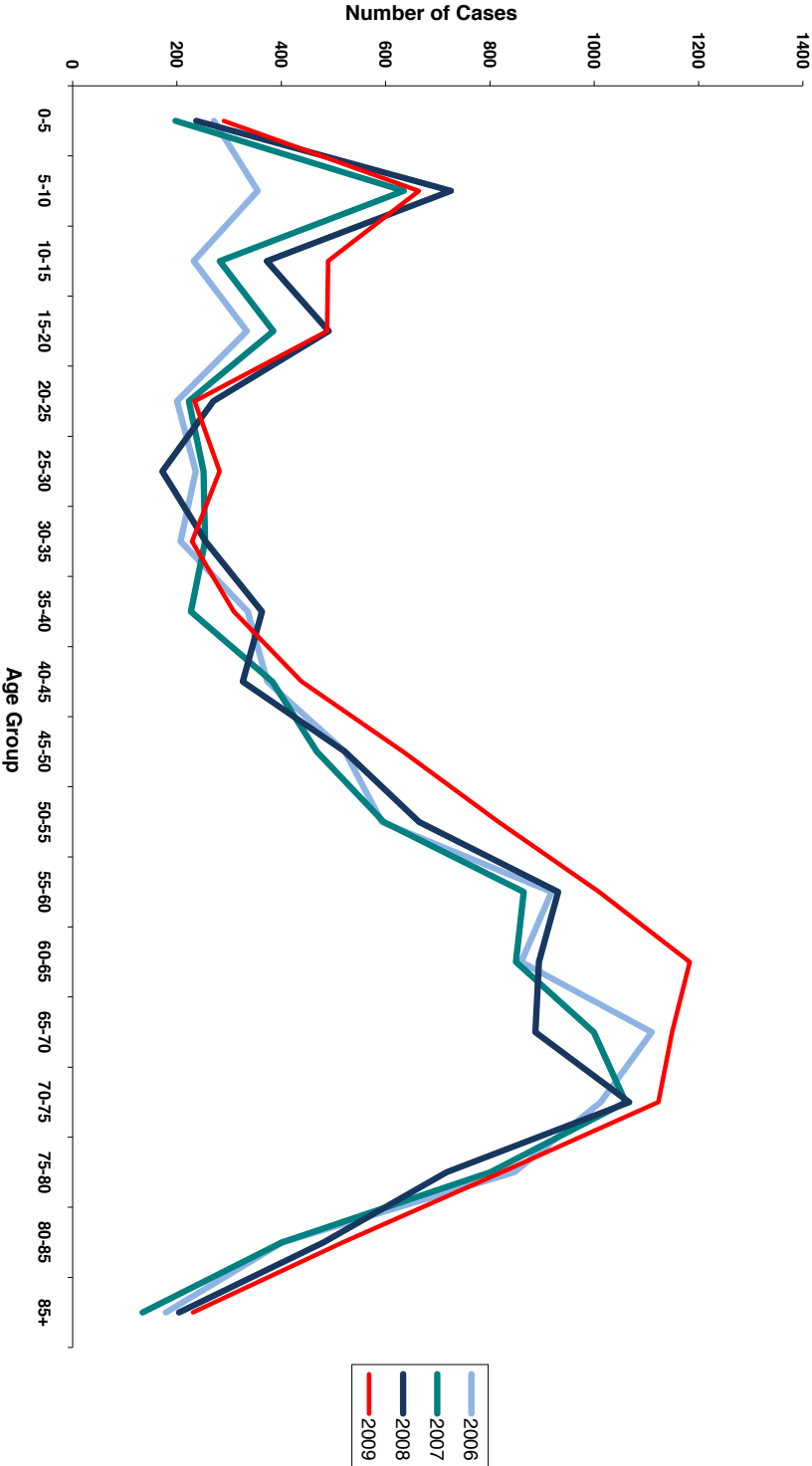




Graph 11 : The Trend in MOPH Subsidized Hospitalized Cases of Neoplasms By Age Group, 2006-2009



There is an increasing number of subsidized neoplasms in the older age groups with a remarkable increase in the age group 25-30 after a decrease in 2008.

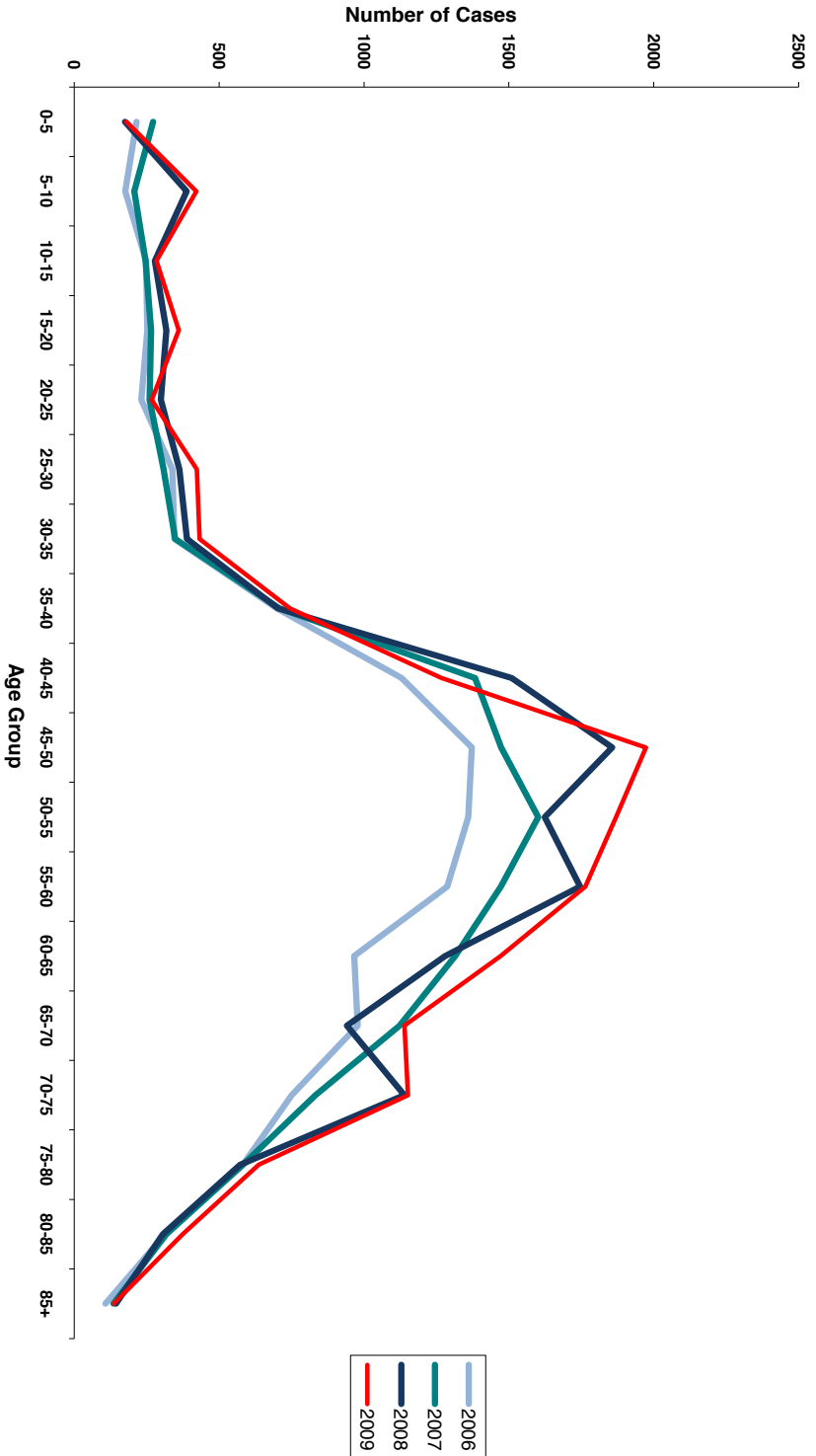


Graph 12: The Trend in MOPH Subsidized Hospitalized Male Cases of Neoplasms By Age Group, 2006-2009

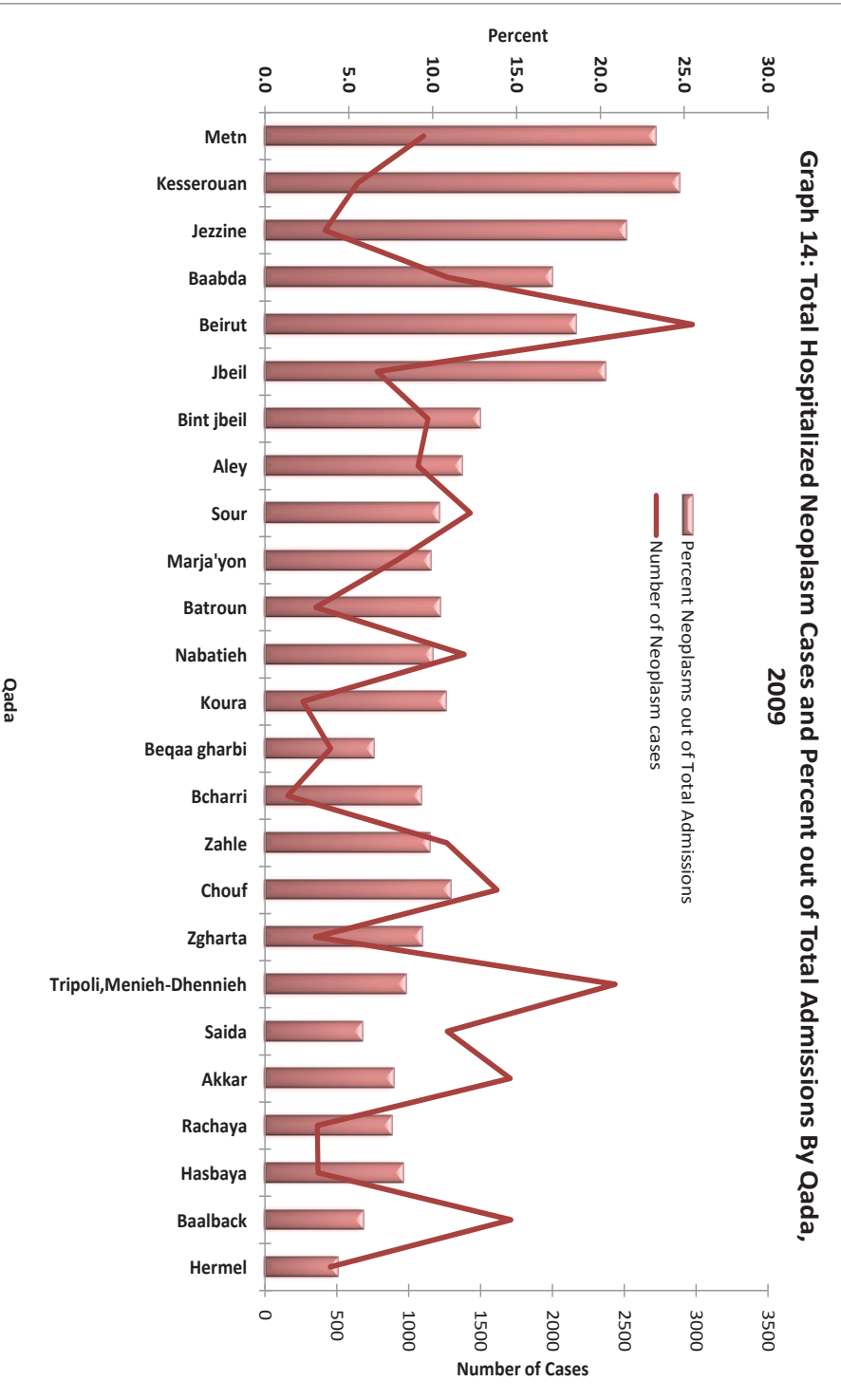
For male cases, there was a significant increase in number in the age group 60-65 years of age and an increase in the 10-15 years old as well.



Graph 13: The Trend in MOPH Subsidized Hospitalized Female Cases of Neoplasms By Age Group, 2006-2009



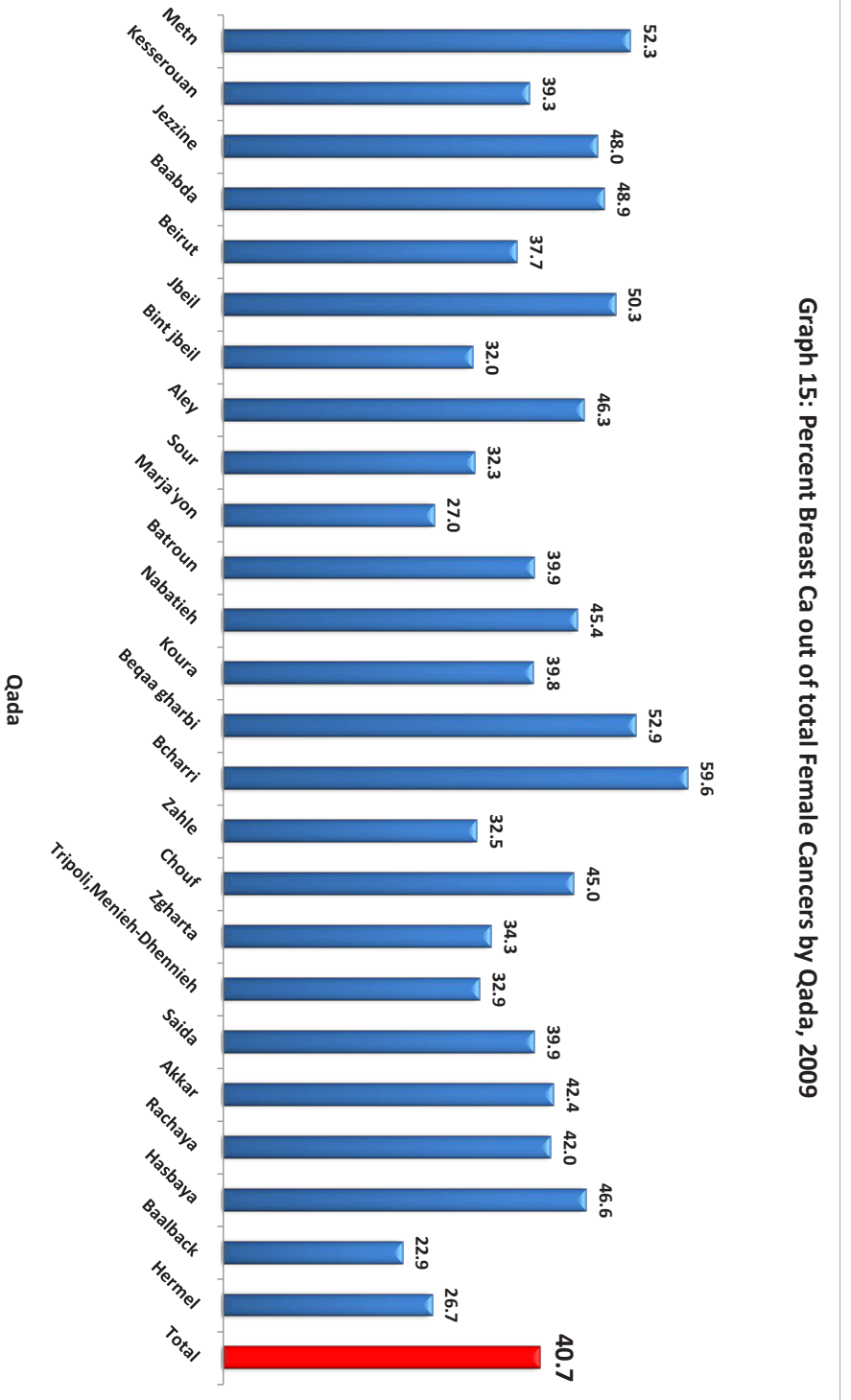
The increase in the neoplasms cases over the years is shown for females as well, although the difference is not very prominent except for the age group 45-50 years old.



The highest number of hospitalized cases of neoplasms was reported for Beirut, followed by Tripoli (together with Minieh-Dhennieh). But, investigating the percent out of total admissions from Qadas, it turned out that Kesserouan had the highest percent with around a quarter of its hospitalized illnesses being neoplasms followed by Metn and Jezzine and then Jbeil.



Graph 15: Percent Breast Ca out of total Female Cancers by Qada, 2009

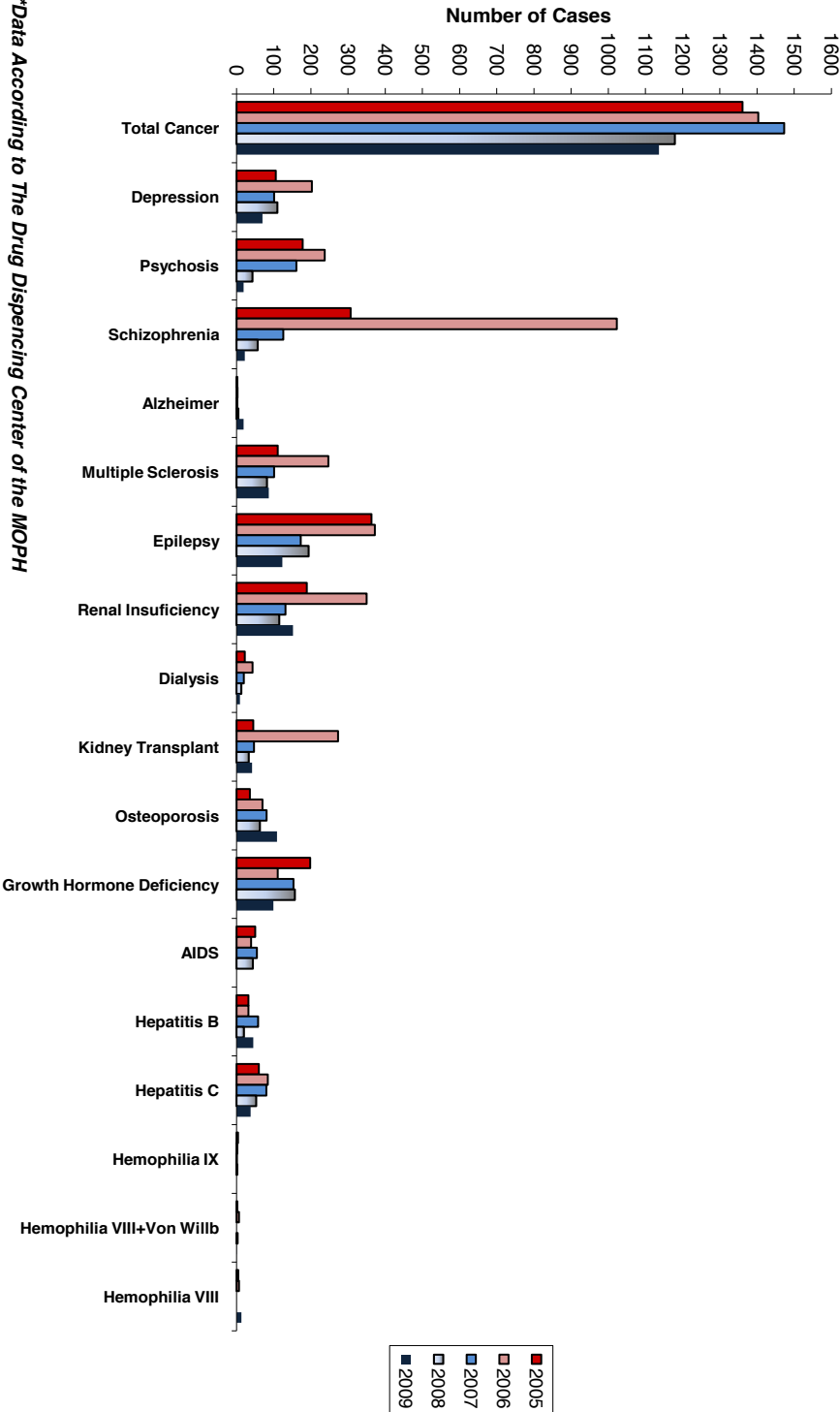


Investigating the females hospitalized for cancer by district of origin, it turned out that 40.7% of those are Breast cancer cases with a proportion ranging from as low as 22.9% in Baalback to as high as 59.6% in Bcharri.

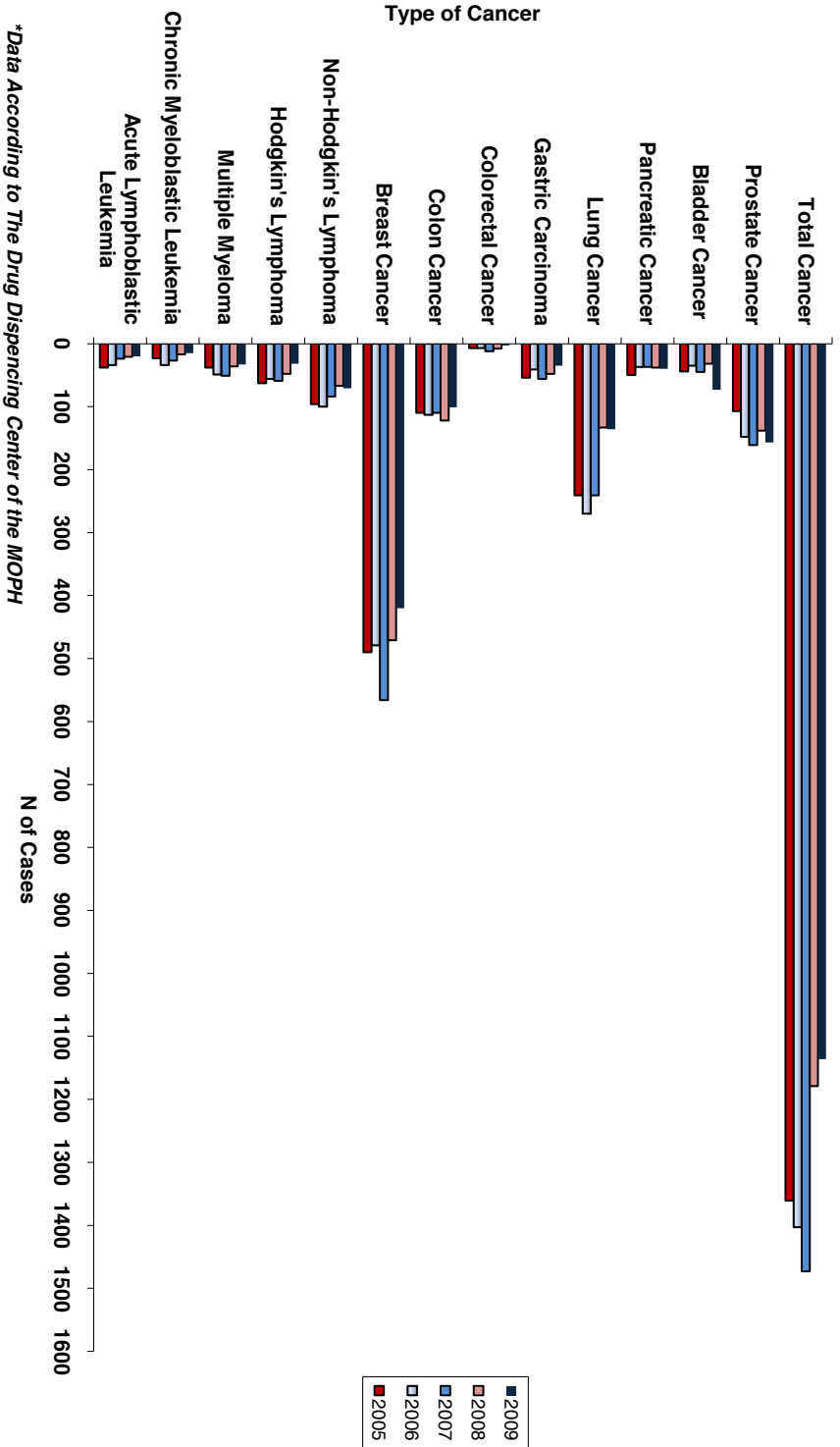


The Drug Dispensing Center (DDC) of the MOPH distributes drugs free of charge for all eligible patients across categories of dreadful diseases. The budget of drug procurement which is increasing year after year is still not enough considering the increase in the number of cases of some diseases from one part, and the increase in the prices of some imported drugs due to the change in currencies, the facts of which it seems that there is a virtual decrease in the number of some diseases. But, cancer cases are still consuming the majority of the budget.

Graph 16: Five-Year Incidences of Specific Diseases* (2005-2009)



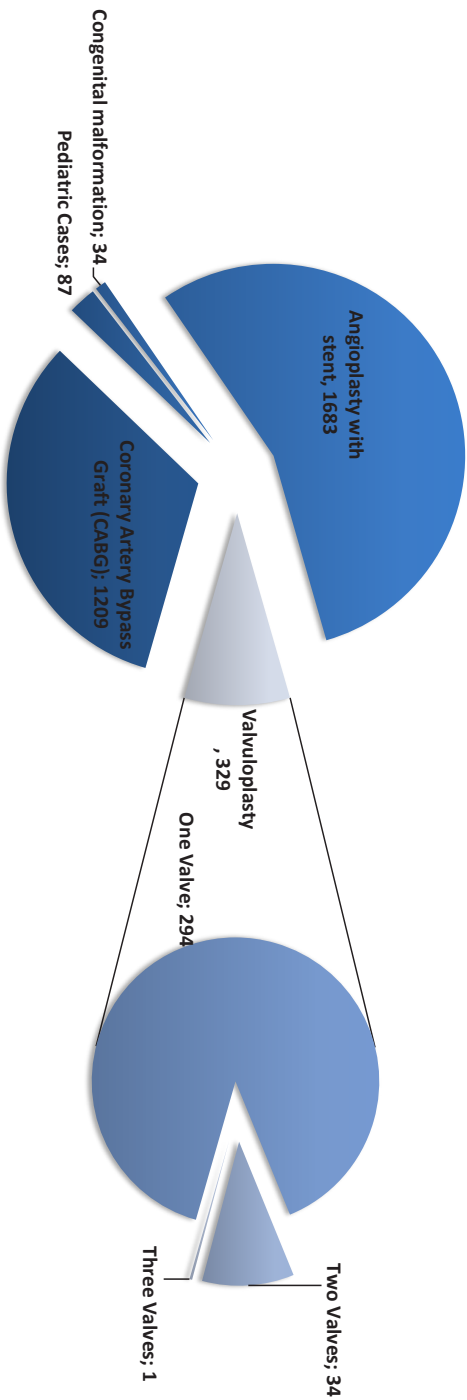
*Data According to The Drug Dispensing Center of the MOPH



The highest number of cases, benefiting from the DDC drugs, are the cancers. Breast cancer is still the cancer of highest incidence in 2009, followed by lung cancer and prostate cancer.

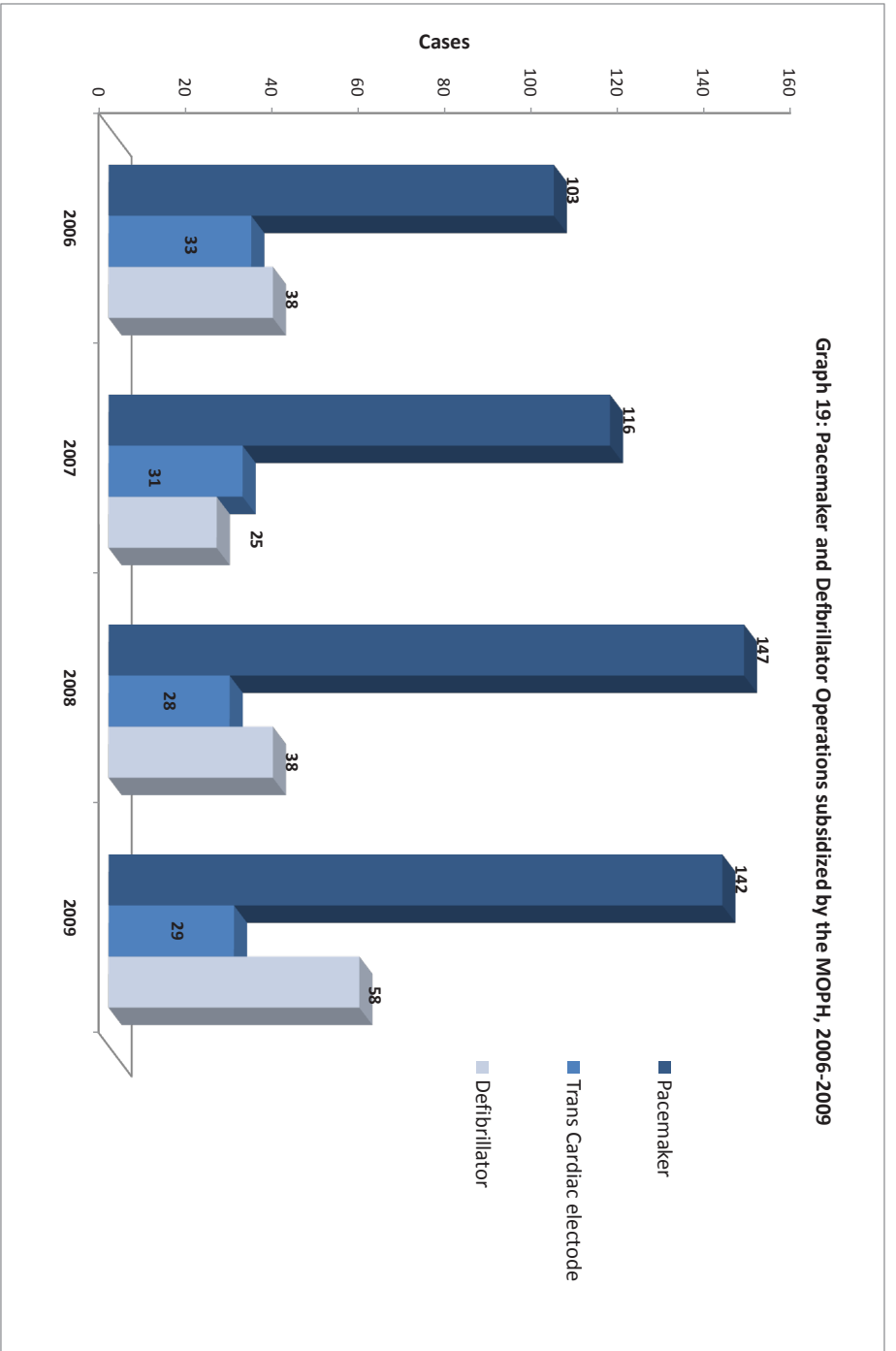
3812 applications for open-heart surgeries were presented to the open-heart committee at the MOPH during 2009. 115 were refused for different reasons and 3697 were accepted for coverage, which costed the MOPH 23 billion LBP. The cases were partitioned as 87 pediatric cases, 34 congenital malformations, 329 valvuloplasty, 1683 angioplasty with stent and 1209 Coronary Artery Bypass Graft (CABG).

Graph 18: Number of MOPH Subsidized Open Heart Surgeries By Category, 2009





Graph 19: Pacemaker and Defibrillator Operations subsidized by the MOPH, 2006-2009



There was an increase in MOPH subsidized defibrillator implantations over the years reaching 58 operations in 2009. In addition, there was a slight increase in pacemaker operation to reach 177 in 2009 as compared to 175 in 2008, and 147 and 136 in 2007 and 2006 respectively.



Table 10: HIV/AIDS Incidence in Lebanon, 2009

Number of Reported Cases in 2009	
97 cases	
Stage of the Disease	
HIV	76.30%
AIDS	23.70%
Gender	
Males	81.40%
Females	18.60%
Age Group	
Less than thirty	30.80%
Between thirty one and Fifty	48.40%
Above fifty one	19.60%
Mode of Transmission	
Sexual	88.50%
Blood Transfusion	0.00%
IDU	0.00%
Perinatal	5.40%
Contaminated Instrument	5.90%
Sexual Behavior	
Homosexual	26.70%
Bisexual	5.00%
Heterosexual	53.30%
Not indicated	15.00%
Recent Travel History	
Yes	59.30%
No	40.70%

There are 23 new cases of AIDS and 74 HIV reported to the National AIDS Program (NAP) during 2009, 59% of whom have a recent travel history and 31% have an age less than 30.



The cumulative number of HIV/AIDS cases reported to the National AIDS Program (NAP) till end 2009 is 1271 cases. The majority of the mode of transmission is sexual contact (43%), and only 0.29% have acquired it during blood transfusion.

Table 11: HIV/AIDS Cumulative Cases Till End 2009

Cumulative Number of Reported Cases of HIV/AIDS	
1271 cases	
Stage of the Disease	
HIV	63.60%
AIDS	36.30%
Gender	
Females	18.00%
Males	82.00%
Age Group	
Less than thirty	31.30%
Between thirty one and fifty	41.70%
Above fifty one	27%
Mode of Transmission	
Sexual	43%
Blood Transfusion	0.29%
IDU	7%
Perinatal	6.80%
Contaminated Instrument	14%
Unspecified/missing	28.90%
Sexual Behavior	
Homosexual	21%
Bisexual	5.00%
Heterosexual	50.60%
Not indicated	23.40%
Recent Travel History	
Yes	52%
No	48.50%

Table 12: Routine Immunization Coverage Rates by Qada, 2009

Qada	OPV3 %	DPT3 %	MCV1 %	القضاء
Batroun	91	91	93.9	البترون
West Beqaa	99.8	99.8	97.14	البقاع الغربي
Chouf	95.9	95.78	96.48	الشوف
Koura	90.59	91.62	93.88	الكورة
Metn	93.83	90.62	95.48	المتن
Nabatieh	96.3	96.15	97.48	النبطية
Hermel	92.68	92.8	94.93	الهرميل
Bcharri	93.77	93.77	92.62	بشري
Baabda	96.83	96.8	90	بعبداء
Baalback	91	90	91.4	بعلبك
Bint Jbeil	93	92.06	91.52	بنت جبيل
Beirut	91.88	90.12	96.13	بيروت
Jbeil	98.32	98.58	96.89	جبيل
Jezzine	90.5	90.5	93.68	جزين
Hasbaya	90.89	90.89	90.22	حاصبيا
Rachaya	96.83	96	92.67	راشيا
Zahleh	92.63	91.47	90	زحلة
Zgharta	93.6	92.4	95.73	زغرتا
Sour	90.5	90.54	91.05	صور
Saida	90.5	93.29	93.29	صيدا
Minieh-Dhennieh	80.52	80	86.41	المنية الضنية
Tripoli	90.51	91.01	90.51	طرابلس
Aley	95.95	90.5	91.23	عاليه
Akkar	90.9	91.73	96.41	عكار
Kesserwan	95.83	96.47	96.56	كسروان
Marjeyoun	92	92.42	94.43	مرجعيون
Total	93	93	93	المجموع

The national coverage rate for immunization for target children was 93% for Oral polio Vaccine, and 93% for DPT with variations across Qadas ranging from a low of 80% to a high of 99.8%, irrespective of whether the vaccine was administered in the public or the private sector.



The Epidemiological Surveillance Unit at the MOPH receives notifications about vaccine preventable diseases , food and water borne diseases as well as other forms of diseases. 208 cases of Hepatitis B, 756 cases of Hepatitis A, and 253 cases of Meningitis were reported during 2009.

Table 13: Table Showing The Cases Of Notifiable Diseases Reported To The MOPH By Month, 2009

	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Vaccine Preventable Diseases													
Acute Flaccid Paralysis	20	6	3	2	1	1	2	1	1	0	1	1	1
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	23	2	2	4	7	1	3	1	0	0	1	0	2
Mumps	135	12	7	11	52	24	11	7	3	2	2	2	2
Pertussis	65	2	5	3	6	7	20	12	3	1	1	4	1
Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	21	1	2	2	4	5	1	5	0	0	0	0	1
Tetanus	2	0	1	1	0	0	0	0	0	0	0	0	0
tetanus neonatal	1	0	1	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis B	208	13	14	21	26	33	12	17	11	18	23	14	6
Food & Water Borne Diseases													
Brucellosis	333	4	11	4	21	26	64	89	59	17	21	8	9
Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0
Dysentery	307	18	13	17	8	16	28	36	50	49	30	28	14
Food Poisoning	247	17	1	0	7	8	17	79	27	51	11	1	28
Hydatic Cyst	12	0	1	0	1	1	1	1	1	0	2	1	3
Parasitic Worms	27	0	3	1	5	5	1	3	0	1	3	3	2
Trichinosis	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	492	37	29	34	25	36	61	83	57	36	43	33	18
Viral Hepatitis A	756	105	79	71	112	116	33	36	40	30	57	42	35
Other Diseases													
Bilharziasis	0	0	0	0	0	0	0	0	0	0	0	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	0	0	0	0	0	1	0	0
Ebola	0	0	0	0	0	0	0	0	0	0	0	0	0
Gonorrhea	6	0	1	0	1	1	1	1	1	0	0	0	0
Leishmaniasis	1	0	0	0	1	0	0	0	0	0	0	0	0
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	0
Malaria	47	1	4	6	3	4	5	9	5	4	1	2	3
Meningitis	253	16	13	31	43	39	25	24	27	10	5	8	12
Plague	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis	13	3	0	0	2	1	2	0	0	4	0	1	0
Typhus	3	0	0	0	0	1	0	0	0	1	1	0	0
Viral Hepatitis C	67	2	13	5	4	1	2	5	5	5	7	8	10
Yellow Fever	0	0	0	0	0	0	0	0	0	0	0	0	0



Table 14: Table Showing The Cases Of Notifiable Diseases Reported To The MOPH By Age & Gender, 2009

	TOTAL	0-4 years	5-9 years	10-19 years	20-39 years	40-59 years	60+ years	Unknown age	Male	Female	Sex unknown
Vaccine Preventable Diseases											
Acute Flaccid Paralysis	20	2	2	2	6	4	3	1	12	8	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	23	14	7	0	2	0	0	0	11	12	0
Mumps	135	41	60	26	5	0	0	3	76	59	0
Pertussis	65	55	5	3	0	1	0	1	35	30	0
Rabies	0	0	0	0	0	0	0	0	0	0	0
Rubella	21	16	2	1	2	0	0	0	16	5	0
Tetanus	2	0	0	0	0	1	0	1	2	0	0
tetanus neonatal	1	1	0	0	0	0	0	0	1	0	0
Viral Hepatitis B	208	2	2	5	100	50	41	8	138	70	0
Food & Water Borne Diseases											
Brucellosis	333	19	36	58	104	68	46	2	187	146	0
Cholera	0	0	0	0	0	0	0	0	0	0	0
Dysentery	307	96	54	39	32	32	52	2	159	148	0
Food Poisoning	247	21	18	62	64	34	11	37	120	127	0
Hydatid Cyst	12	0	0	3	5	2	2	0	3	9	0
Parasitic Worms	27	1	2	0	9	5	8	2	6	21	0
Trichinosis	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	492	99	48	94	121	57	62	11	250	242	0
Viral Hepatitis A	756	66	156	293	168	13	3	57	451	304	1
Other Diseases											
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	6	0	0	0	4	1	1	0	6	0	0
Leishmaniasis	1	1	0	0	0	0	0	0	0	1	0
Leprosy	0	0	0	0	0	0	0	0	0	0	0
Malaria	47	1	1	3	22	14	2	4	36	11	0
Meningitis	253	95	65	36	27	11	16	3	165	88	0
Plague	0	0	0	0	0	0	0	0	0	0	0
Syphilis	13	0	0	2	9	1	1	0	2	11	0
Typhus	3	0	1	0	0	1	1	0	1	2	0
Viral Hepatitis C	67	2	0	1	15	19	29	1	44	23	0
Yellow Fever	0	0	0	0	0	0	0	0	0	0	0

When analyzed by gender, it was shown that males are more than females in all reported diseases except for some like Syphilis, typhus, food poisoning and hydatid cyst, where the number of female cases exceed that of the males.



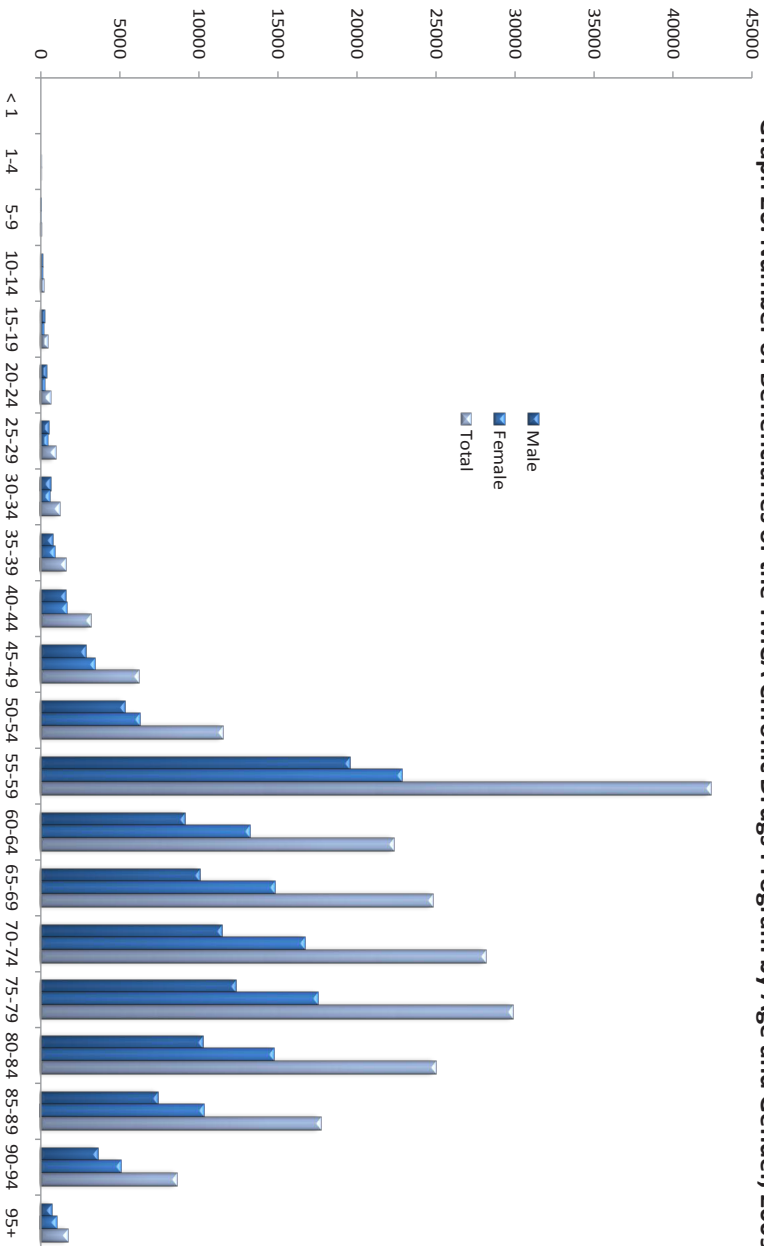
Table 15: Table Showing The Cases Of Notifiable Diseases Reported To The MOPH By Mohafaza, 2009

	TOTAL	North	Beqaa	Nabatieh	South	Mount-Lebanon	Beirut	Unknown
Vaccine Preventable Diseases								
Acute Flaccid Paralysis	20	3	1	1	0	11	1	3
Acute Poliomyelitis	0	0	0	0	0	0	0	0
Diphtheria	0	0	0	0	0	0	0	0
Measles	23	8	3	1	1	6	4	0
Mumps	135	89	17	12	12	5	0	0
Pertussis	65	5	44	2	4	9	1	0
Rabies	0	0	0	0	0	0	0	0
Rubella	21	5	8	0	2	6	0	0
Tetanus	2	1	0	0	0	0	1	0
tetanus neonatal	1	1	0	0	0	0	0	0
Viral Hepatitis B	208	22	10	19	26	89	6	36
Food & Water Borne Diseases								
Brucellosis	333	39	82	15	13	159	11	14
Cholera	0	0	0	0	0	0	0	0
Dysentery	307	33	6	7	0	248	4	9
Food Poisoning	247	30	80	12	40	63	22	0
Hydatic Cyst	12	1	2	6	0	3	0	0
Parasitic Worms	27	0	0	2	0	2	22	1
Trichinosis	0	0	0	0	0	0	0	0
Typhoid Fever	492	133	82	41	58	137	16	25
Viral Hepatitis A	756	182	298	36	38	167	13	22
Other Diseases								
Bilharziasis	0	0	0	0	0	0	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	1	0	0
Ebola	0	0	0	0	0	0	0	0
Gonorrhoea	6	0	0	0	1	3	1	1
Leishmaniasis	1	0	0	0	0	0	0	1
Leprosy	0	0	0	0	0	0	0	0
Malaria	47	8	4	4	2	21	3	5
Meningitis	253	69	18	19	25	104	18	0
Plague	0	0	0	0	0	0	0	0
Syphilis	13	0	0	0	1	3	0	9
Typhus	3	0	0	0	0	3	0	0
Viral Hepatitis C	67	15	1	6	7	27	3	8
Yellow Fever	0	0	0	0	0	0	0	0

The distribution of the diseases across the Mohafazats showed that the number of reported cases of Mumps is highest in the North, and viral hepatitis A is highest in the Beqaa, while Typhoid fever, Meningitis, Dysentery, and Brucellosis are highest in Mount Lebanon.

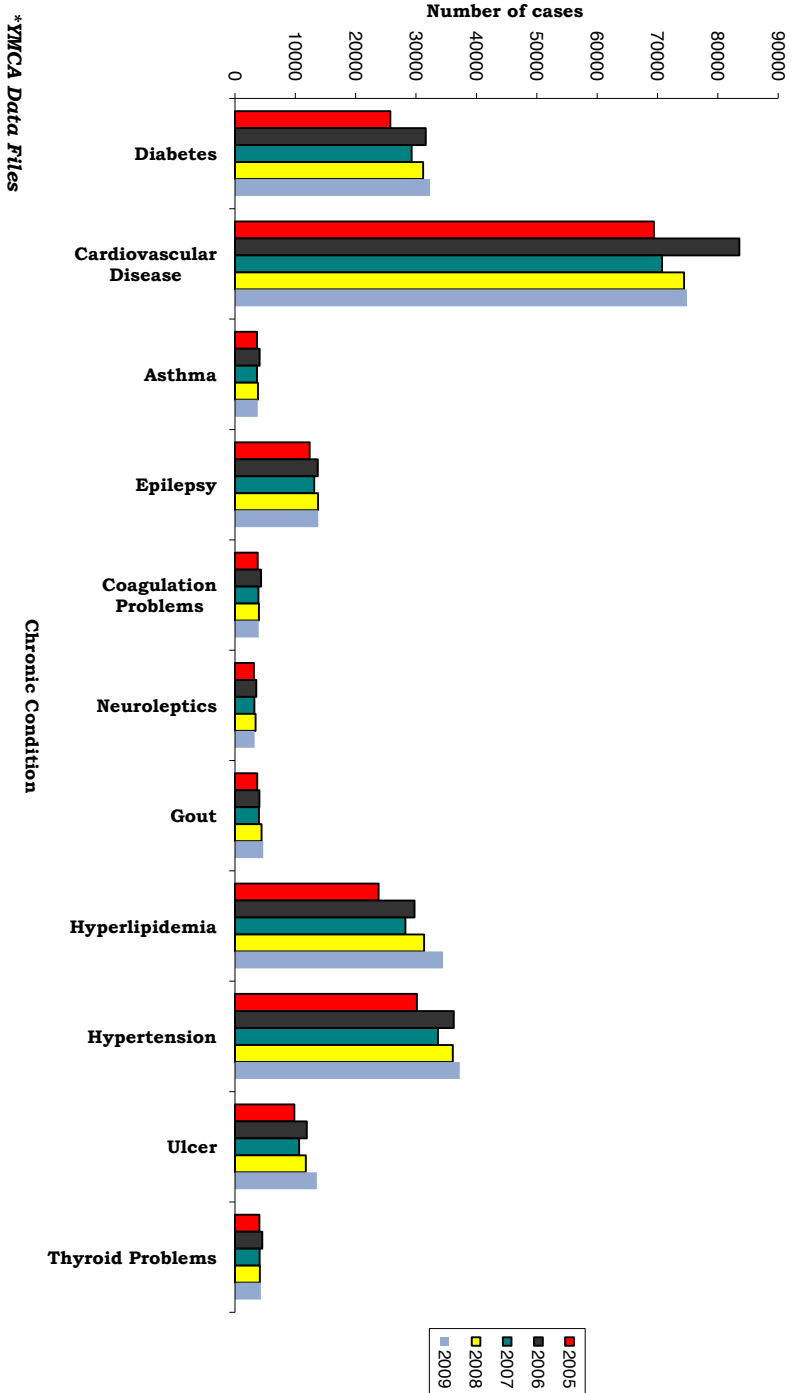
The MOPH contracts with the Young Male Christian Association (YMCA) to purchase and distribute chronic diseases drugs in health centers all over Lebanon. Beneficiaries belong mostly to the age groups 55 and older and females are more than males.

Graph 20: Number of Beneficiaries of the YMCA Chronic Drugs Program by Age and Gender, 2009





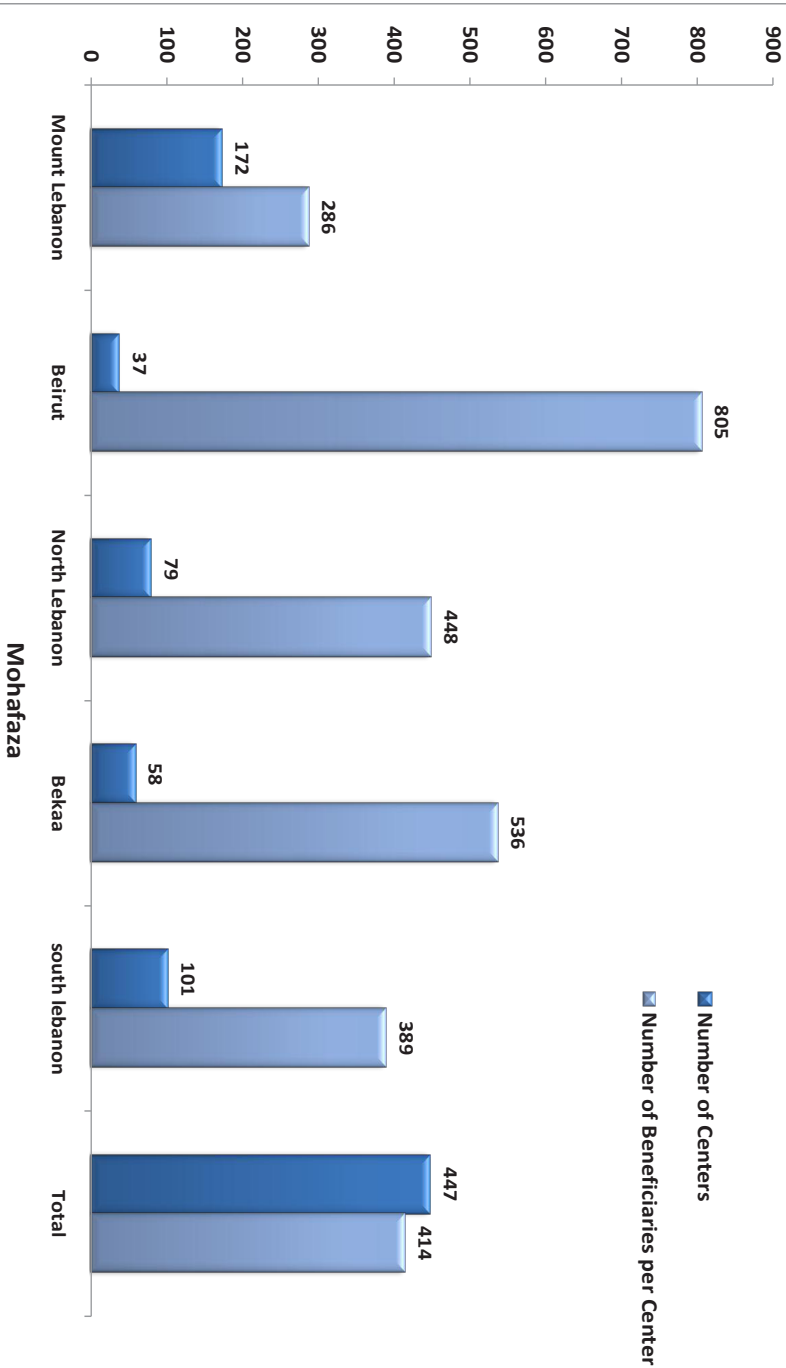
Graph 21: Cases of Chronic Conditions*, 2005-2009



When compared to 2008, beneficiaries have slightly increased in number across all categories of chronic conditions. The numbers of 2006 remain higher, though due to the 2006 war which resulted in higher unexpected coverage irrespective of eligibility.

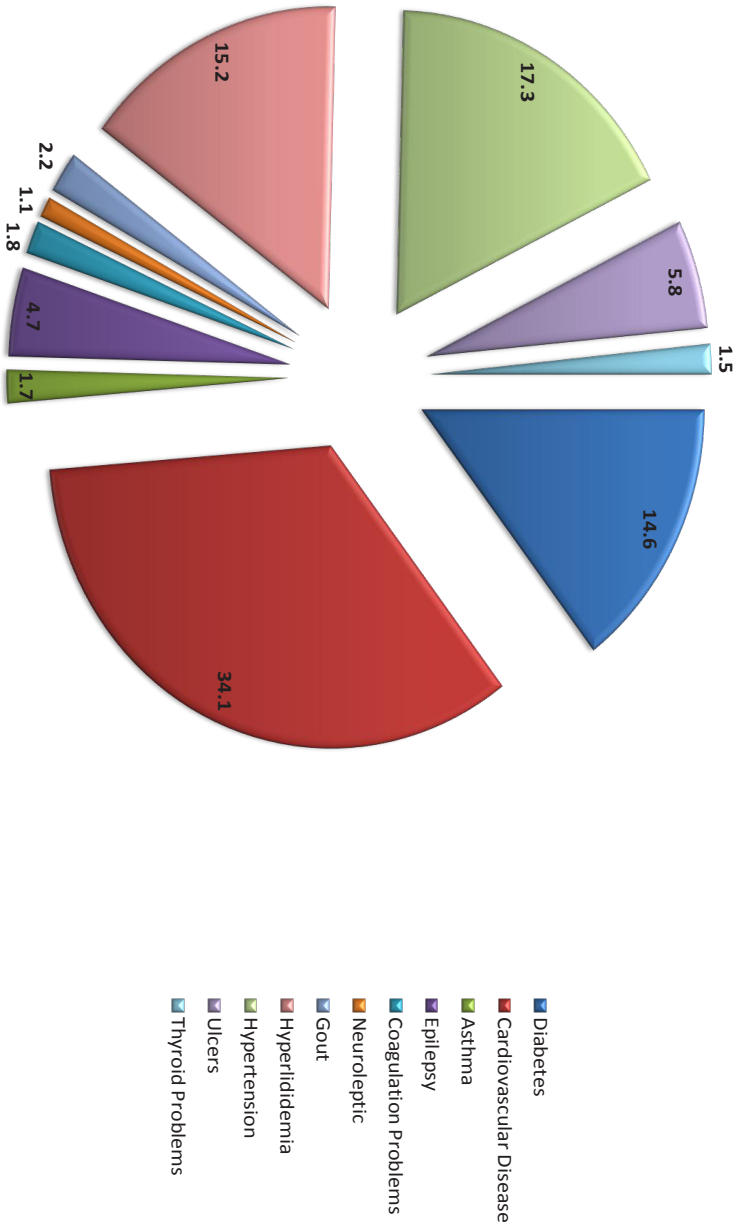
In 2009, there were 184,865 beneficiaries registered in the YMCA medical charts distributed over 447 centers in all Mohafazas with the majority in Mount Lebanon (172 centers). The Number of beneficiaries per center is highest in Beirut, though, and lowest in Mount Lebanon.

Graph 22: Number of Socio-medical Centers and Number of Beneficiaries Per Center by Mohafaza, YMCA, 2009





Graph 23: Percent Prevalence of Chronic Conditions Among Users, YMCA 2009



The prevalence of cardiovascular disease is highest among YMCA beneficiaries with 34.1%, followed by asthma (17.3%), hyperlipidemia (15.2%), and Diabetes (14.6%).

Early 2009, a new Maternal Mortality Ratio was generated for Lebanon through a hospital-based Reproductive Age Mortality Survey (RAMOS) which gathered all deaths for females in reproductive ages (15-49 years) occurring or ending up at a hospital setting. This study (which is available on the MOPH website) managed to generate an MMR for Lebanon of 23 per 100,000 Livebirths. WHO later on amended the generated figure with some country-based adjustment and published it as 26 per 100,000 as an official ratio for Lebanon. While this figure lies in the lowest 7 countries of the Eastern Mediterranean Region, Lebanon's ratio lies closer to the European region average of 21.

Graph 24: Maternal Mortality Ratio* by Countries of the Eastern Mediterranean Region, Latest Estimate

