



مقدمة

تسعى وزارة الصحة العامة بشكل دائم إلى تعزيز دورها الريادي في رسم السياسات والخطط المسندة إلى البراهين والمهادفة إلى توفير الخدمات الصحية، الوقائية والعلاجية المضمونة الجودة للمواطنين وفقاً لمبادئ الفعالية والعدالة والإنصاف. إلى جانب ذلك، ونظراً لدورها كممول للخدمات الصحية لما يقارب نصف الشعب اللبناني، تحرص الوزارة دائماً على ترشيد القرارات المتعلقة بتقدم وتوزيع الخدمات على المستفيدين وفقاً للمعطيات الإحصائية والوبائية. بناءً عليه، تندرج هذه النشرة ضمن الجهود التي تبذلها الوزارة لترشيد القرار السياسي وتعزيز الشفافية عبر جمع الإحصاءات الحيوية والمعلومات عن التقديمات الصحية وكيفية توزيع الخدمات على الأراضي اللبنانية كافة.

إن المعلومات المبينة في هذه النشرة هي مستخرجة بمعظمها من قواعد بيانات الوزارة التي عمدنا على رفع مستواها التقني آخذين بعين الاعتبار الموقع الذي تتمتع به الوزارة في النظام الصحي ككل والأهمية القصوى للمعلومات الصحية كواحدة من ركائز النظام الصحي الناجح.

إلى جانب ذلك، لا يجب إغفال دور الأكاديميين والباحثين الصحيين كشركاء أساسيين في القطاع الصحي، والذين تندرج أولى اهتماماتهم بالبيانات الإحصائية حتى يصوبوا توجهاتهم في أبحاثهم ويساهموا مع صانعي القرار في بناء وتطوير القطاع الصحي.

منذ بداية إصدار هذه النشرة في العام 2006، يتزايد الطلب عليها من كافة المعنيين من صانعي القرار والأكاديميين والطلاب، وتتزايد الاقتراحات من ذوي الحاجة والاختصاص، حتى صرنا نشعر بأن نشرها و تطويرها يتعدى الواجبات الإدارية ليصبح ضرورة وطنية لتطوير النظام الصحي. بناءً عليه، نعد كل سنة إلى إغناء مضمونها من حيث المعلومات الطبية والخدمات، والمؤشرات الصحية المستجدة لتعزيزاً لدور الإحصاءات وتجاربنا مع الحاجة للمعلومات الصحية التي تتزايد يوماً بعد يوم.

نذكر بأن هذه النشرة تعرض أيضاً على موقع وزارة الصحة الإلكتروني www.moph.gov.lb، كما نشجع الجميع على زيارة هذا الموقع دورياً لأهمية المواضيع المنشورة عليه وتعمدها، ولمساهمته الكبيرة في تعميم المعرفة الصحية وتعزيز الشفافية والشراكة.

مدير عام وزارة الصحة العامة

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Table 1: Selected Indicators of Lebanon, 2009-2010

	Unit	2009	2010	Latest figures (year)
Demographic Indicators				
Population Estimate*	1000 citizens	3,891	3,962	3,962 (2010)
Number of Births		88,206	91,795	91,795 (2010)
Number of Deaths		20,858	21,441	21,441 (2010)
Crude Birth Rate	per 1000 mid year pop	22.8	23.2	23.2(2010)
Crude Death Rate	per 1000 mid year pop	5.4	5.4	5.4 (2010)
Population Growth Rate		1.7	1.8	1.8 (2010)
Population by Age				
< 15	percent	24.8	24.6	24.8 (2010)
65+	percent	9.8	9.8	9.8 (2010)
Dependency ratio		52	52	52 (2010)
Unemployment Ratio (for ages 15-64)				9.2 (2007)
Total Fertility Rate				1.9 (2004)
Budgetary Resources Indicators				
Total GPD	Billion Leb. Pounds	52,650		52650 (2009)
Allocated to MOPH from Total Gov Budget	percent	2.7	2.5	2.5 (2010)
Annual Budget of MOPH	Billion Leb. Pounds	439.7	486.7	486.7 (2010)
Annual Budget of MOPH per capita	\$US	73.3	82	82 (2010)
National Health Expenditure per capita	\$US			460 (2005)
National Health Expenditure as % GDP	percent			8.3 (2005)
Manpower and Physical Resource Indicators				
per 10,000 population				
Physicians		35.4	30.7	30.7 (2010)
Dentists		13.3	14.3	14.3 (2010)
Pharmacists		12.2	14.6	14.6 (2010)
Nursing and Midwifery Personnel		22.2	23.3	23.3 (2010)
Hospital Beds		34.5	34.5	34.5 (2010)
Coverage with Primary Health Care Indicators				
Infants Fully Immunized-DPT	Percent Immunized	96	94	94 (2010)
Infants Fully Immunized-OPV	Percent Immunized	93	94	94 (2010)
Infants Fully Immunized-Measles	Percent Immunized	93	95	95 (2010)
Infants Fully Immunized-Hepatitis B	Percent Immunized	96	94	94 (2010)
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 Live Births			16.1 (2004)
Less than five mortality rate	per 1000 Live Births			18.3(2004)
Maternal Mortality Ratio	per 100,000 Live Births			23 (2008)
Selected Morbidity Indicators				
Number of Notified Cases				
Cholera		0	0	0
Polio		0	0	0
Measles		23	11	11
Diphtheria		0	0	0
Tetanus		2	2	2
Neonatal Tetanus		1	0	0
Malaria		47	66	66
AIDS		23	21	21
Sources of Information				
Hospital Based reproductive Age Mortality Survey (RAMOS), 2008				
Household Survey 2007, MOSA/CAS		PapFam 2004, MOSA/CAS		
National Vaccination figures (Public and Private)		Economic Accounts of Lebanon 2009- Presidency of the Council of Ministers		
Estimated Population from the 2004 and 2007 Household surveys (CAS) in addition to Registered Births and Deaths at Dept of Statistics				
NHA 2004-2005		National AIDS Program (NAP)		Syndicate Figures
Epidemiological Surveillance Unit		Malaria Control Program, MOPH		ارقام الموازنة العامة Government Budget

* Excluding Palestinian Camps which gather around 227,000 residents according to UNRWA latest figures.

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

	2010	2009	2008	موزانة وزارة الصحة العامة بحسب بنودها للثلاث سنوات الأخيرة (بآلاف الليرات)
Hospitalization in private sector	320,000,000	305,000,000	256,000,000	تفقات استشفاء في القطاع الخاص
Public Hospitals	12,000,000	12,000,000	15,000,000	مستشفيات حكومية
Drugs	91,000,000	66,000,000	52,500,000	ادوية
Contributions to NGOs	12,817,770	12,817,770	12,817,770	مساهمات للقطاع غير الحكومي
Salaries and other employees' benefits	27,472,900	27,522,100	24,052,860	المخصصات والرواتب والأجور
Other Expenses	18,593,039	13,936,228	11,047,403	تفقات اخرى
Central Laboratory (Part One)	977,500	948,500	992,192	المختبر المركزي جزء اول
Part Two (Central Lab+MOPH)	3,797,000	1,523,000	1,507,000	الجزء الثاني (وزارة الصحة + المختبر المركزي)
Total MOPH Budget	486,658,209	439,747,598	373,917,225	مجموع موزانة وزارة الصحة العامة
Total Government Budget	19,537,600,000	16,304,000,000	11,475,000,000	مجموع الموزانة العامة
Government Debt	6,860,120,314	6,441,000,000	4,650,000,000	ديون متوجبة الاداء
Total Government Budget Excluding Debt	12,677,479,686	9,863,000,000	6,825,000,000	مجموع الموزانة العامة بدون الديون المتوجبة
MOPH Budget out of Total Government Budget (with debt)	2.49	2.70	3.26	نسبة موزانة وزارة الصحة الى الموزانة العامة/مع خدمة الدين
MOPH Budget out of Total Government Budget (without debt)	3.84	4.46	5.48	نسبة موزانة وزارة الصحة الى الموزانة العامة/ بدون خدمة الدين

Source: Government Budget 2008,2009,2010

المصدر: الموزانة العامة، 2010-2009-2008

The total government budget has increased by almost 20% between 2009 and 2010, while the MOPH budget increase was only 10.67%. The hospitalization coverage which used to consume 72% of the MOPH budget in 2009, forms now 68% of the budget. On the other hand, the budgeted amount for drugs is increasing year after year, and has increased from 15% to 18% of the budget between 2009 and 2010.

There were registered and reported 91,795 births in Lebanon during the year 2010. It is worth noting that three forms of data flaws are expected. First, there is a delay in registration which might affect the accuracy of the number given in a year. Second flaw refers to the under-reporting which might be due to the understaffed district departments in both the Ministry of Public Health and the Ministry of Interior. And the third flaw, there should always be consideration for the births occurring abroad.

Table 3: Number of Registered Births By Month and Qada, 2010

Qada	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	844	806	906	837	705	833	968	880	874	894	796	869	10212
Aley	184	167	216	83	328	236	201	180	232	183	195	144	2349
Baabda	238	172	169	120	158	112	232	183	192	143	163	178	2060
Baalback	685	692	724	86	613	761	671	478	648	610	447	511	6926
Batroun	76	87	82	75	67	100	75	68	90	95	49	97	961
Beharri	68	49	80	62	59	60	96	82	234	237	100	145	1272
Begaa gharbi	201	230	265	181	307	218	351	269	202	209	222	227	2882
Bint jbeil	353	366	376	315	293	387	382	423	382	346	334	325	4282
Chouf	268	290	318	278	336	389	436	381	456	365	291	301	4109
Hasbaya	76	85	89	85	85	125	93	117	107	106	87	94	1149
Hermel	60	89	154	146	91	91	103	136	140	115	141	148	1414
Jbeil	131	142	128	104	128	143	146	140	169	154	116	130	1631
Jezzine	87	79	83	92	83	96	110	105	106	87	105	91	1124
Kesserouan	108	82	119	101	110	133	147	139	124	114	100	134	1411
Koura	71	58	105	69	59	140	77	86	64	63	135	106	1033
Marjé-Jyon	246	295	260	241	212	329	344	335	329	340	796	274	4001
Menieh-dennieh	353	375	396	279	257	246	380	385	348	397	195	454	4065
Metn	188	165	139	130	167	171	193	171	182	151	151	121	1929
Nabatieh	266	188	185	235	158	151	218	110	223	106	182	26	2048
Rachaya	300	82	124	71	123	86	84	121	74	78	177	76	1396
Saida	654	787	775	820	464	769	847	744	862	730	703	863	9018
Sour	490	454	523	362	335	419	685	549	518	461	389	570	5755
Tripoli	485	517	598	437	406	452	494	563	447	584	431	467	5881
Zahle	373	314	299	322	441	415	373	393	266	478	332	354	4360
Zgharta	103	83	124	107	97	148	210	190	138	94	113	116	1523
Beirut	748	840	645	759	739	759	829	831	700	719	589	846	9004
Total	7656	7494	7882	6397	6821	7769	8745	8059	8107	7859	7339	7667	91795

Table 4: Number of Births Occurring and Registered in 2010, By Qada

Qadaa	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	561	730	730	685	618	705	842	809	810	837	726	777	8830
Aley	66	104	178	78	193	199	167	153	205	169	175	132	1819
Baabda	73	96	121	93	124	87	169	148	164	127	143	163	1508
Baalback	417	502	629	16	562	632	582	417	529	461	389	421	5557
Batroun	32	43	59	56	51	61	61	62	74	51	47	62	659
Beharri	24	32	42	33	31	41	48	36	45	70	41	35	478
Begaa gharthi	87	111	115	127	167	160	187	192	173	168	151	135	1773
Bint jbeil	166	208	242	204	210	280	313	296	311	284	283	288	3085
Chouf	160	189	244	223	289	321	375	336	382	314	259	273	3365
Hasbaya	42	76	61	77	68	96	68	94	100	94	77	90	943
Hermel	60	86	154	129	91	89	101	129	127	110	140	144	1360
Jbel	64	98	98	82	110	125	128	130	151	137	110	108	1341
Jezzine	25	51	65	58	58	79	90	87	93	67	84	78	835
Kesserouan	41	60	95	81	100	118	132	125	112	108	92	115	1179
Koura	34	34	48	44	49	96	61	62	57	61	61	63	670
MarjéSyon	112	175	180	176	178	223	254	269	280	302	726	235	3110
Menieh-dennieh	230	277	266	233	227	214	299	308	287	343	293	297	3274
Metn	81	118	109	118	151	150	174	169	179	149	150	120	1668
Nabatieh	190	159	159	212	146	147	210	109	222	94	180	26	1854
Rachaya	42	47	67	53	61	53	74	75	72	46	82	57	729
Saida	322	455	360	430	464	347	442	389	430	318	391	495	4843
Sour	282	287	357	281	299	353	498	451	472	441	378	482	4581
Tripoli	310	325	413	354	345	376	427	492	426	535	403	440	4846
Zahle	208	226	193	263	375	365	322	307	228	458	286	319	3550
Zgharta	52	73	66	71	64	76	86	96	107	74	79	76	920
Beirut	748	840	645	759	739	759	869	821	846	728	579	858	9191
Total	4429	5402	5696	4936	5770	6152	6979	6562	6882	6546	6325	6289	71968

The births of 2010 that were registered in 2010 amount to 71,968. We should not forget, however, that there are still some births that have occurred in 2010 and were not registered yet by the end of the year.

There were 21,441 deaths that were registered and reported during 2010. For the deaths, the same concerns about data flaws of birth reporting and registration stand. With 91,795 births, the Lebanese population has increased by around 70,000 citizens, some of them might be residing outside the country.

Table 5: Number of Registered Deaths By Month and Qada, 2010

Qadaa	January	February	March	April	May	June	July	August	September	October	November	December	Total
Akkar	122	155	165	123	106	122	120	124	121	136	122	166	1582
Aley	60	76	105	54	71	59	88	74	67	68	89	60	871
Baabda	75	79	61	44	32	56	56	66	66	66	57	53	711
Baalback	9	31	32	29	14	6	24	13	32	44	48	15	297
Batroun	43	44	47	36	30	33	34	38	33	32	43	48	461
Beharri	16	19	22	17	12	18	18	24	26	24	30	28	254
Begaa gharbi	38	41	35	39	45	31	34	41	45	51	38	53	491
Bint jbell	59	50	82	56	48	64	64	73	57	73	57	65	748
Chouf	103	107	131	91	119	103	96	104	117	100	102	130	1303
Hasbaya	28	20	20	25	14	21	17	16	13	23	13	26	236
Hermel	18	15	39	29	12	20	20	24	27	28	23	20	275
Jbell	47	52	74	53	47	43	50	58	53	53	60	46	636
Jezzine	30	40	48	33	26	37	27	34	31	41	26	31	404
Kesserouan	70	71	76	55	56	62	48	63	62	58	76	68	765
Koura	32	26	31	39	19	31	24	27	27	42	37	23	358
Marj3youn	48	61	59	49	26	46	51	39	56	42	122	59	658
Menieh-dennieh	50	53	50	66	51	41	60	35	60	53	45	72	636
Metn	99	95	123	97	86	95	99	94	101	88	80	99	1156
Nabatieh	30	27	65	49	38	59	61	69	55	23	50	18	544
Rachaya	24	16	23	21	32	25	25	25	16	19	30	35	291
Saïda	162	166	216	167	59	133	146	122	179	169	148	171	1838
Sour	77	81	90	102	73	87	79	101	76	96	67	100	1029
Tripoli	94	106	135	96	95	100	73	92	108	99	97	97	1192
Zahle	91	67	101	77	76	82	61	76	87	85	85	87	975
Zgharta	31	32	49	42	24	42	27	44	45	41	31	39	447
Beirut	256	269	310	268	270	256	280	264	276	303	222	309	3283
Total	1712	1799	2189	1757	1481	1672	1682	1740	1836	1857	1798	1918	21441

Table 6: Resident Population* Distribution By Mohafaza and Qada, 2004-2010

Mohafaza	Qaza	Population 2004	Population 2005	Population 2006	Population 2007	Population 2008	Population 2009	Population 2010	Qada*/total population
North	Alkar	226,752	230,119	233,546	227,217	234,328	241,012	249,642	6.30
	Mimch Danieh	112,303	113,971	115,668	112,159	115,004	118,293	121,722	3.07
	Tipoli	256,360	260,166	264,040	253,606	257,999	262,470	267,159	6.74
	Zgharta	56,868	57,712	58,572	55,980	56,638	57,403	58,479	1.48
	Koura	55,583	56,408	57,248	54,668	55,077	55,709	56,384	1.42
	Behreh	19,872	20,167	20,468	19,725	20,104	20,541	21,559	0.54
	Baroun	40,964	41,572	42,191	40,356	40,749	41,293	41,793	1.05
	Total	768,702	780,116	791,732	763,712	779,900	796,722	816,739	20.62
	Hermei	47,189	47,890	48,603	49,173	50,796	51,913	53,032	1.34
	Baalbeck	187,992	190,783	193,624	196,461	203,671	211,656	218,285	5.51
Begaa	Zahleh	141,358	143,457	145,593	145,723	148,384	151,257	154,642	3.90
	Rachaya	28,805	29,233	29,668	30,031	30,710	31,512	32,617	0.82
	West Begaa	65,860	66,838	67,833	68,477	70,110	72,318	74,709	1.89
	Total	471,205	478,202	485,322	489,865	503,671	518,656	533,305	13.46
	Nabatieh	99,487	100,964	102,468	110,609	113,244	115,199	116,703	2.95
	Hasbaya	21,000	21,312	21,629	23,408	24,223	25,157	26,070	0.66
	Marjayoun	44,239	44,895	45,564	50,368	53,408	56,333	59,676	1.51
	Bint Jbeil	57,119	57,967	58,830	64,846	68,218	71,703	75,237	1.90
	Total	221,844	225,138	228,490	249,231	259,093	268,392	277,686	7.01
South	Saida	183,881	186,612	189,390	189,382	196,118	203,010	210,190	5.31
	Sour	194,622	197,512	200,453	197,907	202,400	206,875	211,601	5.34
	Jezzine	22,690	23,027	23,370	23,209	23,789	24,458	25,178	0.64
	Total	401,193	407,151	413,213	410,487	422,307	434,343	446,969	11.28
Mount Lebanon	Jbeil	84,039	85,287	86,536	83,594	84,588	85,664	86,659	2.19
	Kesrouan	164,808	167,255	169,745	162,555	163,245	163,843	164,489	4.15
	Mein	483,783	490,967	498,278	476,979	477,851	478,737	479,510	12.10
	Baabda	483,973	491,159	498,472	477,299	478,616	480,074	481,423	12.15
	Aley	129,053	130,970	132,920	128,230	129,484	131,025	132,503	3.34
	Chouf	155,901	158,216	160,571	155,817	158,457	161,268	164,074	4.14
	Total	1,501,556	1,523,853	1,546,543	1,484,474	1,492,241	1,500,611	1,508,658	38.08
	Beirut	390,499	396,298	402,199	361,366	366,907	372,743	378,464	9.55
	Total	390,499	396,298	402,199	361,366	366,907	372,743	378,464	9.55
	Total Population	3,755,000	3,810,758	3,867,500	3,759,135	3,824,118	3,891,466	3,961,820	100.00

*Excluding Palestinian Camps which gather around 227,000 refugees according to the latest UNRWA figures.

It is estimated that in 2010 there were 3,961,820 residents inside the country. The Mohafaza that is populated the most is Mount Lebanon (38.08%) comprising 6 districts, followed by the North (20.62%) with 7 districts. Both Nabatieh and South form 18% of the residents of Lebanon with 7 districts, 13.46% of the Lebanese reside in the Begaa area in 5 districts, and the least populated area is Beirut (9.55%) considering its being a one-district Mohafaza. According to the latest UNRWA figures, there are 227,000 Palestinian refugees residing inside the camps of Lebanon. Accordingly, there are a total of 4,188,820 inhabitants residing in Lebanon.

Table 7: Resident Population* Distribution by Age Group and Gender, 2010

Age groups	Percent			Population 2010		
	M	F	T	M	F	T
0-4	3.6	3.3	6.9	142,626	130,740	273,366
5-9	4.3	4.1	8.3	168,377	160,454	328,831
10-14	4.9	4.5	9.4	194,129	178,282	372,411
15-19	5.2	4.5	9.8	207,203	179,074	386,277
20-24	5.1	4.7	9.8	202,053	186,206	388,258
25-29	3.9	4.2	8.1	154,511	166,396	320,907
30-34	3.5	3.8	7.4	140,248	151,342	291,590
35-39	3.0	3.7	6.7	118,855	146,587	265,442
40-44	2.7	3.5	6.2	108,158	138,664	246,821
45-49	2.5	3.0	5.6	100,234	118,855	219,089
50-54	2.2	2.5	4.8	88,349	99,046	187,394
55-59	1.8	2.0	3.8	71,313	79,236	150,549
60-64	1.7	2.0	3.7	67,351	79,236	146,587
65-69	1.6	1.7	3.2	63,389	67,351	130,740
70-74	1.4	1.4	2.8	55,465	55,465	110,931
75-79	1.0	0.9	1.9	39,618	35,656	75,275
80-84	0.6	0.6	1.2	23,771	23,771	47,542
85+	0.3	0.2	0.5	11,885	7,924	19,809
Total	49.4	50.6	100.0	1,957,535	2,004,285	3,961,820

*Excluding Palestinian Camps which gather around 227,000 refugees according to the latest UNRWA figures.

Table 8: Resident Population* Distribution by Age Group and Qada, 2010

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
Akkur	6.30	17,226	20,721	23,468	24,341	24,466	20,222	18,375	16,727	15,554	13,806	11,809	9,487	9,257	8,239	6,990	4,743	2,996	1,248	249,642
Mitfeh Danteh	3.07	8,399	10,103	11,442	11,869	11,929	9,860	8,959	8,156	7,584	6,732	5,758	4,626	4,504	4,017	3,408	2,313	1,461	609	121,722
Tripoli	6.74	18,435	22,175	25,114	26,049	26,183	21,641	19,664	17,901	16,645	14,775	12,637	10,153	9,885	8,817	7,481	5,076	3,206	1,336	267,159
Ziglarta	1.48	4,035	4,854	5,497	5,702	5,731	4,737	4,304	3,918	3,643	3,234	2,766	2,222	2,164	1,930	1,638	1,111	782	292	58,479
Kouva	1.42	3,891	4,680	5,300	5,408	5,526	4,567	4,150	3,778	3,433	3,118	2,667	2,143	2,086	1,861	1,579	1,071	677	282	56,384
Beitirrah	0.54	1,488	1,790	2,027	2,102	2,113	1,746	1,587	1,445	1,343	1,192	1,020	819	798	711	604	410	259	108	21,559
Batroun	1.05	2,884	3,469	3,929	4,075	4,096	3,385	3,076	2,800	2,604	2,311	1,977	1,588	1,546	1,379	1,170	794	502	209	41,793
Hemel	20.62	3,661	4,404	4,987	5,173	5,393	4,297	3,905	3,555	3,305	2,934	2,589	2,016	1,963	1,751	1,486	1,008	637	265	53,052
Baalbeck	1.34	3,661	4,404	4,987	5,173	5,393	4,297	3,905	3,555	3,305	2,934	2,589	2,016	1,963	1,751	1,486	1,008	637	265	53,052
Zahleh	5.51	15,062	18,119	20,520	21,284	21,393	17,682	16,067	14,626	13,600	12,072	10,325	8,295	8,077	7,204	6,112	4,148	2,620	1,091	218,285
Rachaya	3.90	10,671	12,836	14,537	15,078	15,156	12,527	11,382	10,362	9,635	8,552	7,315	5,877	5,722	5,103	4,330	2,938	1,856	773	154,642
West Begaa	0.82	2,251	2,707	3,066	3,180	3,197	2,642	2,401	2,185	2,032	1,804	1,545	1,240	1,207	1,076	913	620	391	163	32,617
West Begaa	1.89	5,155	6,201	7,023	7,285	7,322	6,052	5,499	5,006	4,655	4,132	3,534	2,839	2,764	2,466	2,092	1,420	897	374	74,709
Nabatieh	13.46	8,038	9,669	10,950	11,358	11,416	9,436	8,574	7,805	7,257	6,442	5,510	4,427	4,310	3,844	3,262	2,213	1,398	582	116,703
Hasbaya	2.94	1,799	2,164	2,451	2,542	2,555	2,112	1,919	1,747	1,624	1,442	1,233	991	965	860	730	495	313	130	26,070
Marjayoun	0.66	4,118	4,953	5,610	5,819	5,849	4,834	4,392	3,999	3,718	3,300	2,823	2,268	2,208	1,969	1,671	1,134	716	298	59,676
Bint Jbeil	1.31	5,192	6,245	7,073	7,336	7,374	6,095	5,538	5,041	4,688	4,161	3,559	2,859	2,784	2,483	2,107	1,430	903	376	75,237
Saida	7.00	14,504	17,447	19,759	20,495	20,600	17,026	15,471	14,084	13,096	11,624	9,943	7,988	7,777	6,937	5,886	3,994	2,522	1,051	210,190
Sour	5.31	14,601	17,564	19,892	20,632	20,738	17,141	15,575	14,178	13,183	11,702	10,009	8,041	7,830	6,983	5,925	4,021	2,539	1,058	211,601
Jezzine	5.34	1,737	2,090	2,367	2,455	2,468	2,040	1,853	1,687	1,569	1,392	1,191	957	932	831	705	478	302	126	25,178
Jbeil	0.64	1,737	2,090	2,367	2,455	2,468	2,040	1,853	1,687	1,569	1,392	1,191	957	932	831	705	478	302	126	25,178
Kesrouan	11.28	5,980	7,193	8,146	8,450	8,493	7,020	6,378	5,806	5,399	4,793	4,099	3,293	3,207	2,860	2,427	1,647	1,040	433	86,659
Mein	4.15	11,350	13,653	15,463	16,039	16,121	13,324	12,107	11,021	10,248	9,097	7,781	6,251	6,086	5,428	4,606	3,125	1,974	822	164,489
Baabda	12.10	33,088	39,802	45,076	46,755	46,995	38,842	35,294	32,129	29,875	26,518	22,682	18,222	17,743	15,825	13,427	9,111	5,754	2,398	479,510
Aley	12.15	33,220	39,900	45,256	46,941	47,182	38,997	35,435	32,257	29,994	26,624	22,773	18,205	17,814	15,888	13,481	9,148	5,777	2,407	481,423
Chouf	3.34	9,143	10,998	12,456	12,920	12,986	10,733	9,733	8,878	8,255	7,328	6,268	5,035	4,903	4,373	3,710	2,518	1,590	663	132,503
Chouf	4.14	11,322	13,619	15,424	15,998	16,080	13,291	12,077	10,994	10,222	9,974	7,761	6,235	6,071	5,415	4,594	3,118	1,969	820	164,074
Beirut	38.08	26,115	31,414	35,578	36,902	37,092	30,657	27,857	25,359	23,580	20,930	17,902	14,382	14,004	12,490	10,598	7,191	4,542	1,892	378,464
Beirut	9.55	26,115	31,414	35,578	36,902	37,092	30,657	27,857	25,359	23,580	20,930	17,902	14,382	14,004	12,490	10,598	7,191	4,542	1,892	378,464
TOTAL	100.00	273,366	328,831	372,411	386,277	388,258	320,907	291,590	265,442	246,821	219,089	187,394	150,549	146,587	130,740	110,931	75,275	47,542	19,809	3,961,820

*Excluding Palestinian Camps which gather around 227,000 refugees according to the latest UNRWA figures.

It is well worth noting that the baseline population on which the estimates are calculated was drawn from a Household Survey considering the de-facto population at the time of survey. The births and deaths, however, from which the population increase is calculated belong to all Lebanese including the diaspora; accordingly, the Crude Birth and Death Rates are overestimated in the districts that experience high rates of internal or external migration. Surveys at the district level are needed to delvy or confirm the numbers stated.

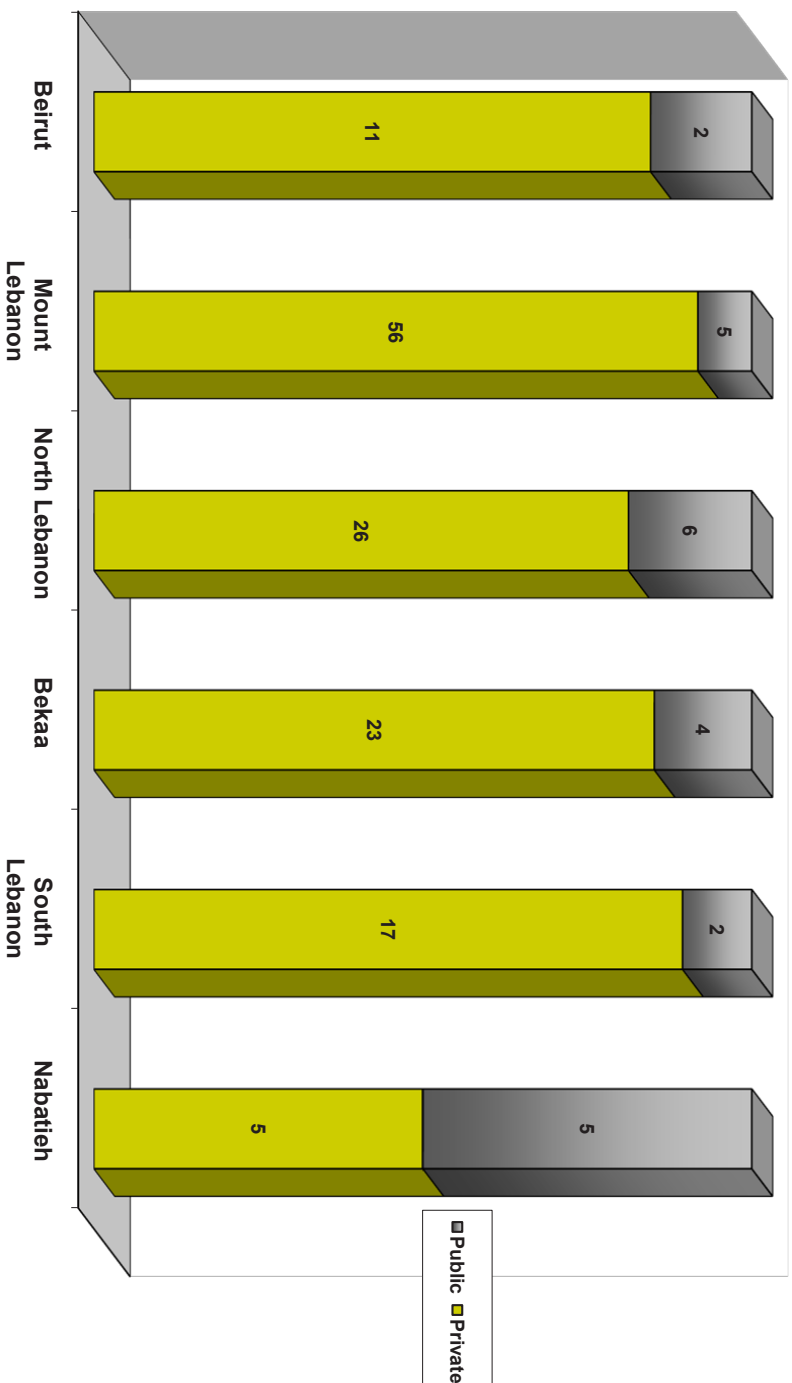
Table 9: Resident Population* Distribution by Age Group, Qada and Some Basic Indicators, 2010

Qada	0-4	5-9	10-14	<15 years	>65years	Active Population**	Total Population	Births	Deaths	CBR	CDR	NGR
Akkar	17,226	20,721	23,468	61,415	24,217	164,010	249,642	10212	1582	40.91	6.34	3.46
Minthel Danieh	8,399	10,103	11,442	29,945	11,808	79,969	121,722	4065	636	33.40	5.23	2.82
Tripoli	18,435	22,175	25,114	65,725	25,916	175,518	267,159	5881	1192	22.01	4.46	1.76
Zgharta	4,035	4,854	5,497	14,387	5,673	38,420	58,479	1523	447	26.04	7.64	1.84
Koura	3,891	4,680	5,300	13,871	5,470	37,043	56,384	1033	358	18.32	6.35	1.20
Bchirreh	1,488	1,790	2,027	5,304	2,091	14,164	21,559	1272	254	59.00	11.78	4.72
Batroun	2,884	3,469	3,929	10,282	4,054	27,457	41,793	961	461	22.99	11.03	1.20
Hennel	3,661	4,404	4,987	13,051	5,146	34,854	53,052	1414	275	26.65	5.18	2.15
Baalbeck	15,062	18,119	20,520	53,701	21,175	143,409	218,285	6926	297	31.73	1.36	3.04
Zahleh	10,671	12,836	14,537	38,044	15,001	101,397	154,642	4360	975	28.19	6.30	2.19
Rachaya	2,251	2,707	3,066	8,024	3,164	21,429	32,617	1396	291	42.80	8.92	3.39
West Beqaa	5,155	6,201	7,023	18,379	7,247	49,082	74,709	2882	491	38.58	6.57	3.20
Nabatieh	8,038	9,669	10,950	28,656	11,299	76,747	116,703	2048	544	17.55	4.66	1.29
Hasbaya	1,799	2,164	2,451	6,413	2,529	17,127	26,070	1149	236	44.07	9.05	3.50
Marjayoun	4,118	4,953	5,610	14,681	5,789	39,206	59,676	4001	658	67.05	11.03	5.60
Bint Jbeil	5,192	6,245	7,073	18,509	7,298	49,429	75,237	4282	748	56.91	9.94	4.70
Saida	14,504	17,447	19,759	51,710	20,390	138,091	210,190	9018	1838	42.90	8.74	3.42
Sour	14,601	17,564	19,892	52,057	20,526	139,018	211,601	5755	1029	27.20	4.86	2.23
Jezzine	1,737	2,090	2,367	6,194	2,442	16,541	25,178	1124	404	44.64	16.05	2.86
Jbeil	5,980	7,193	8,146	21,319	8,406	56,933	86,659	1631	636	18.82	7.34	1.15
Kesrouan	11,350	13,653	15,463	40,467	15,956	108,066	164,489	1411	765	8.58	4.65	0.39
Metn	33,088	39,802	45,076	117,966	46,515	315,029	479,510	1929	1156	4.02	2.41	0.16
Baalbda	33,220	39,960	45,256	118,437	46,701	316,286	481,423	2060	711	4.28	1.48	0.28
Alqy	9,143	10,998	12,456	32,598	12,854	87,052	132,503	2349	871	17.73	6.57	1.12
Chouf	11,322	13,619	15,424	40,364	15,916	107,793	164,074	4109	1303	25.04	7.94	1.71
Beirut	26,115	31,414	35,578	93,107	36,713	248,444	378,464	9004	3283	23.79	8.67	1.51
TOTAL	273,366	328,831	372,411	974,608	384,297	2,602,916	3,961,820	91,795	21,441	23.17	5.41	1.78

*Excluding Palestinian Camps which gather around 227,000 refugees according to the latest UNRWA figures.

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

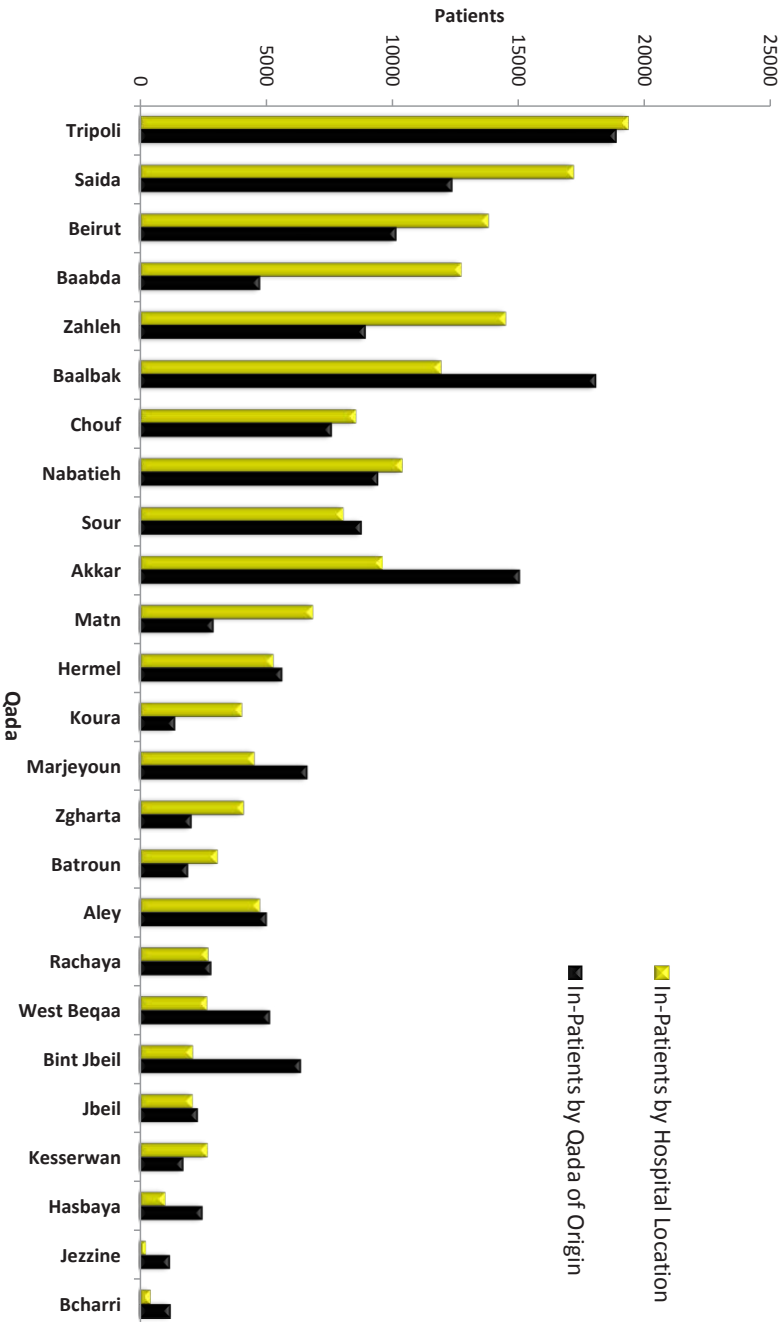
Graph 1: Number of Hospitals Contracting With The MOPH By Mohafaza and Type, 2010



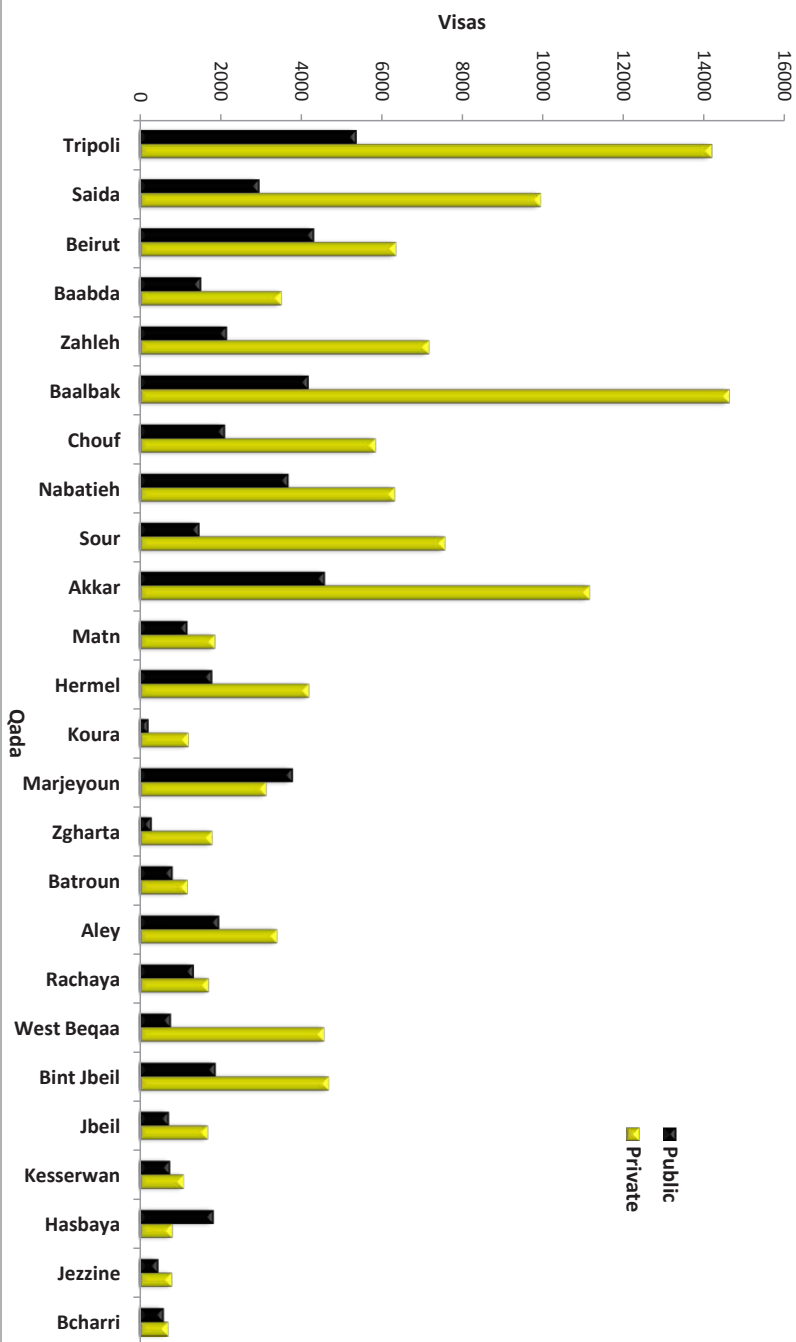
The Ministry of Public Health contracts with both the public and the private hospitals for the services it pays for with the aim of ensuring universal accessibility to services in an equitable distribution. Accordingly, the MOPH issues contracts with 138 private hospitals where the patient share is 15% of the hospital bill, and 24 public hospitals where the patient pays only 5% of the bill.

There are around 163,000 patients that benefited from MOPH hospital coverage in both the public and the private sector. Looking at the distribution of patients, we find that patients' number from a certain district are lower or higher than those seeking services in the hospitals of that same district which might reflect the actual place of residence of the patients. While patients who are originally from Tripoli, Saïda, Baalback and Akkar were the highest in number, the patients admitted to hospitals in the districts of Tripoli, Saïda, Zahleh and Beirut were the highest in number. This gives an idea about the free choice given to patients in choosing the place and provider of services under the MOPH coverage, irrespective of their place of origin and type of hospital.

Graph 2: Number of Subsidized In-Patients by Qada of Origin and Hospital Location, MOPH 2010



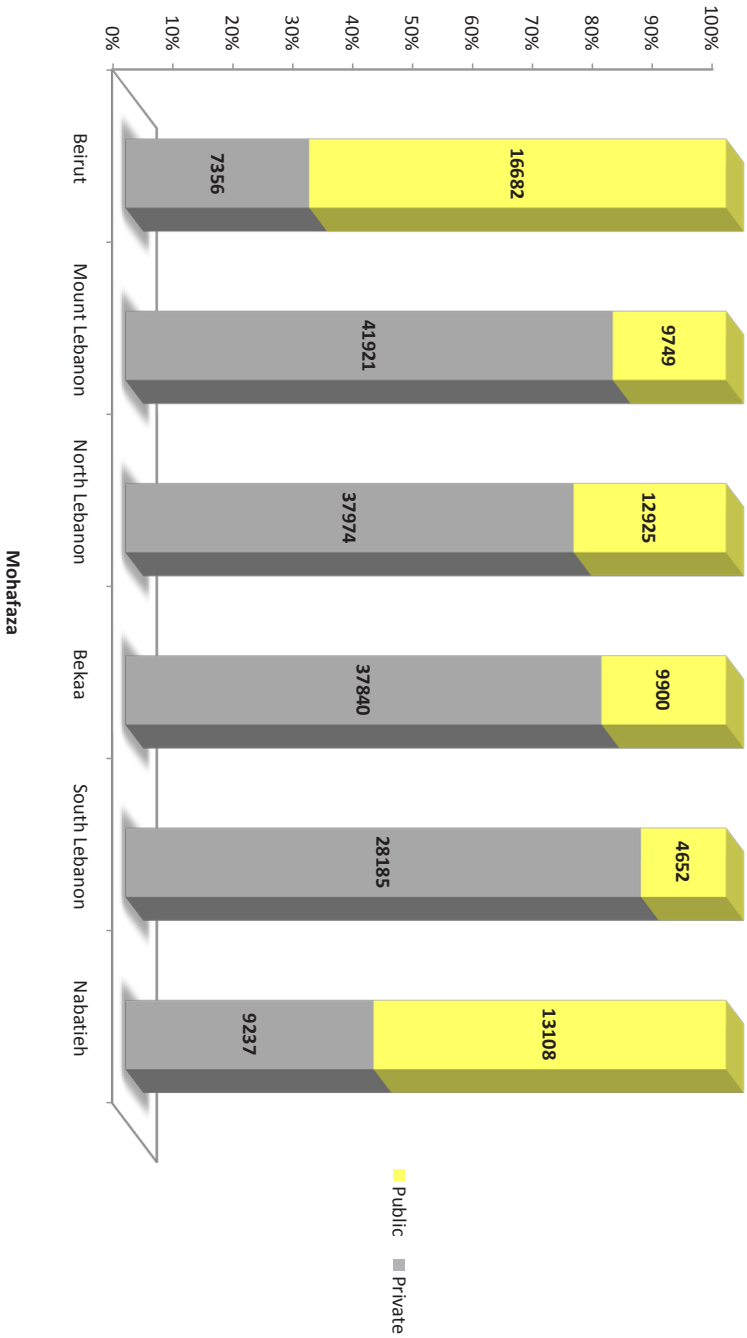
Graph 3: Number of MOPH Patients by Qada of Origin and Type of Hospital, 2010



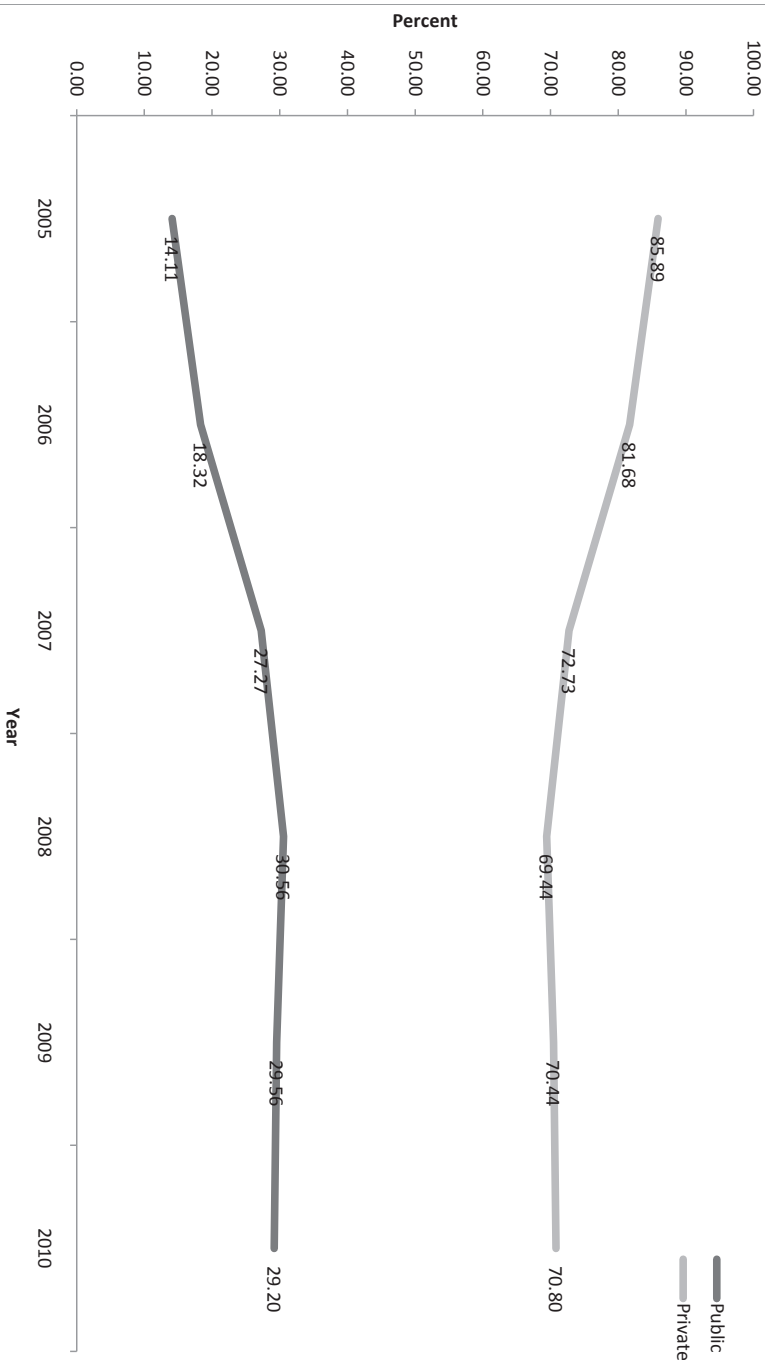
The number of patients who visit private hospitals is higher than the number of those who visit public hospitals. This is due to the fact that the private beds supply are in general higher in number so patients have more choice except in patients from remote districts where public hospitals are the only ones available like in Hasbaya and Marjeyoun.

There were 229,529 MOPH subsidized admissions to hospitals during 2010; 162,513 in private hospitals, and 67,016 in public hospitals. As expected, in areas where there are active public hospitals, the number of admissions in public hospitals exceeds that in private hospitals.

Graph 4 : Number of Admissions by Type of Hospital and Location, MOPH 2010



Graph 5: The Evolution of MOPH Subsidized Admissions in Public and Private Hospitals Between 2005 and 2010



Year after year, the public hospitals are continuing to offer an improving quality services, and their admissions have been increasing steadily. But, this increase has reached a plateau revolving around 30/70 ratio with the private sector. This is due to the fact that originally the number of public active beds is lower than that of the private beds in addition to reaching a maximum occupancy rate in the public hospitals.

The majority of the conditions presenting for hospitalizations fall under the circulatory system (37,476), the respiratory system (27,834), followed by neoplasms (25,803), and pregnancy and related conditions (24,350). It is worth mentioning that the trend is the same over the last 3 years in terms of conditions prevalence among subsidized population, although in nominal figures the circulatory conditions have increased from the previous year (35,831 vs. 37,476), while all the above mentioned others have decreased.

Graph 6: MOPH Subsidized Admissions By ICD10 Categories of Diagnosis, 2010

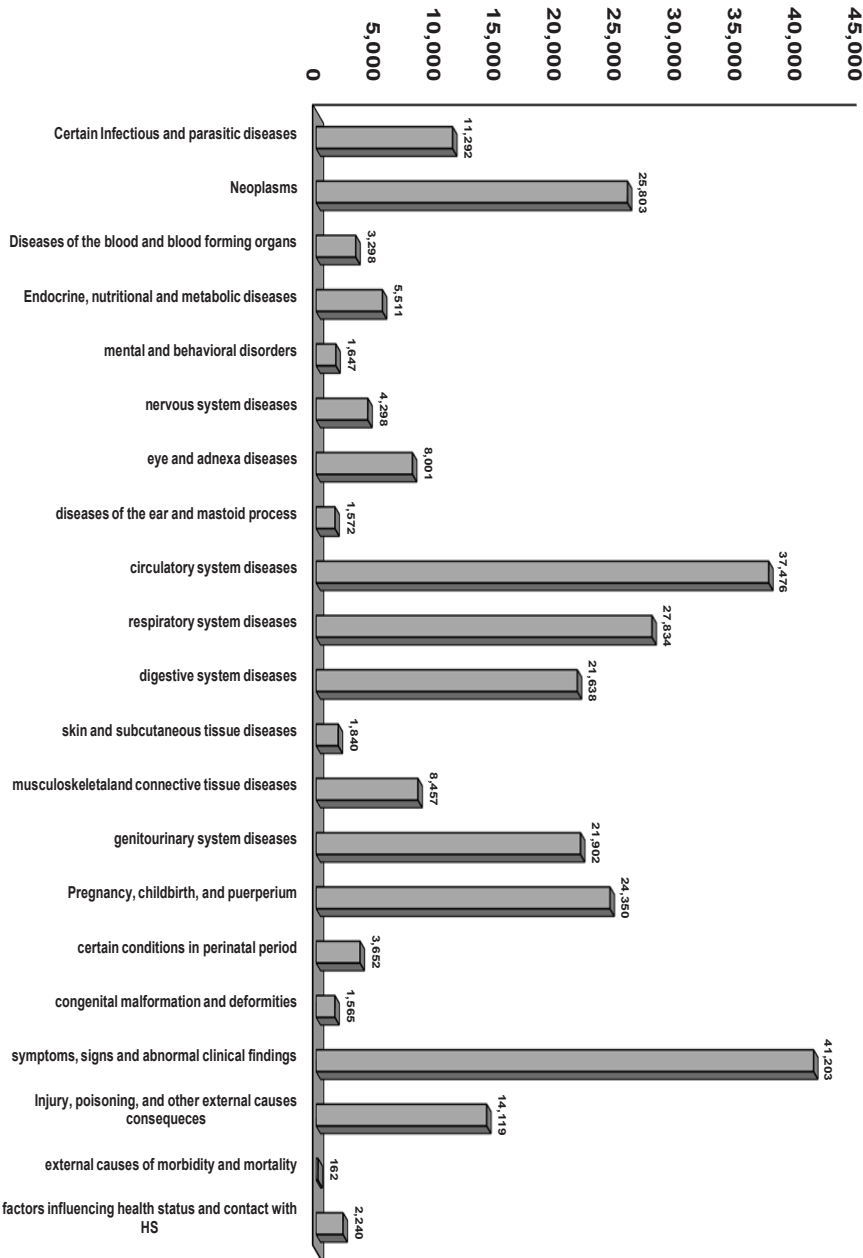


Table 10: MOPH Subsidized Hospital Admissions By Categories of Diagnosis and Gender, 2010

ICD10	Codes	Description	M	F	T
Chapter 1	A00-B99	Certain Infectious and Parasitic Diseases	M	F	T
	A00-A09	Intestinal Infectious Diseases	5,434	4,790	10,224
	A15-A19	Tuberculosis	16	12	28
	A20-A28	Certain zoonotic bacterial diseases	36	37	73
	A30-A49	Other bacterial diseases	297	300	597
	A50-A64	Infections with a predominantly sexual mode of transmission	11	8	19
	A65-A69	Other spirochaetal diseases	3	4	7
	A70-A74	Other diseases caused by chlamydiae	1	1	2
	A75-A79	Rickettsioses	4	1	5
	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	37	20	57
	B15-B19	Viral hepatitis	45	36	81
	B20-B24	Human immunodeficiency virus[HIV] disease	10	1	11
	B25-B34	Other viral diseases	12	11	23
	B35-B49	Mycoses	9	6	15
	B50-B64	Protozoal diseases	12	2	14
	B65-B83	Helminthiases	7	15	22
	B85-B89	Pediculosis, acariasis and other infestations	1	2	3
	B90-B94	Sequelae of infectious and parasitic diseases	2	0	2
	B95-B97	Bacterial, viral and other infectious agents	8	3	11
	B99	Other infectious diseases	32	34	66
Total			5,993	5,299	11,292
Chapter 2	C00-D48	Neoplasms	M	F	T
	C00-C97	Malignant Neoplasms	9,510	13,278	22,788
	C00-C14.8	lip oral cavity and pharynx	223	168	391
	C15-C26.9	digestive organs	1,565	1,653	3,218
	C30-C39.9	respiratory and intrathoracic organs	1,980	789	2,769
	C40-C41.9	bone and articular cartilage	82	103	185
	C43-C44.9	melanoma and other malignant neoplasms of skin	81	66	147
	C45-C49.9	mesothelial and soft tissue	139	94	233
	C50-C50.9	breast	224	5,847	6,071
	C51-C58	female genital organs	108	1,086	1,194
	C60-C63.9	male genital organs	776	91	867
	C64-C68.9	urinary tract	950	343	1,293
	C69-C72.9	eye, brain, and other parts of CNS	269	166	435
	C73-C75.9	thyroid and other endocrine glands	69	150	219
	C76-C80	ill-defined, secondary, and unspecified sites	415	481	896
	C81-C96.9	lymphoid, haematopoietic and related tissue	2,625	2,239	4,864
	C97	independent (primary) multiple sites	4	2	6
	D00-D09	In situ neoplasms	78	113	191
	D10-D36	Benign neoplasms	765	1,607	2,372
	D37-D48	Neoplasms of uncertain and unknown behavior	194	258	452
Total			10,547	15,256	25,803

The Ministry of Public Health visa billing system uses the International Classification of Diseases 10th revision (ICD10) coding system. 267,860 ICD10 diagnoses were registered on admissions during 2010. The number of diagnoses issued for females (147,820), exceeds that for males (120,040) in all categories of diagnoses.

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	241	335	576
	D55-D59	Haemolytic anaemias	517	359	876
	D60-D64	Aplastic and other anaemias	561	818	1,379
	D65-D69	Coagulation defects, purpura and other haemorrhagic	132	171	303
	D70-D77	Other diseases of the blood and blood forming organs	38	41	79
	D80-D89	Certain Disorders involving the immune mechanism	56	29	85
Total			1,545	1,753	3,298
Chapter 4	E00-E90	Endocrine, Nutritional and metabolic diseases	M	F	T
	E00-E07	Disorders of thyroid gland	181	864	1,045
	E10-E14	Diabetes mellitus	1,351	1,978	3,329
	E15-E16	Other disorders of glucose regulation and pancreatic internal secretion	28	44	72
	E20-E35	Disorders of other endocrine glands	88	120	208
	E40-E46	Malnutrition	13	12	25
	E50-E64	Other nutritional deficiencies	3	5	8
	E65-E68	Obesity and other hyperalimentation	88	180	268
	E70-E90	Metabolic disorders	278	278	556
Total			2,030	3,481	5,511
Chapter 5	F00-F99	Mental and Behavioral disorders	M	F	T
	F00-F09	Organic, including symptomatic, mental disorders	30	56	86
	F10-F19	Mental and Behavioral disorders due to psychoactive substance abuse	131	45	176
	F20-F29	Schizophrenia, schizotypal and delusional disorders	566	338	904
	F30-F39	Mood [affective] disorders	88	83	171
	F40-F48	Neurotic, stress-related and somatoform disorders	49	58	107
	F50-F59	Behavioral syndromes associated with physiological disturbances and physical factors	9	7	16
	F60-F69	Disorders of adult personality and behaviour	6	17	23
	F70-F79	Mental retardation	72	62	134
	F80-F89	Disorders of psychological development	5	11	16
	F90-F98	Behavioral and emotional disorders with onset usually occurring in childhood and adolescence	2	11	13
	F99	Unspecified mental disorder	0	1	1
Total			958	689	1,647
Chapter 6	G00-G99	Diseases of the nervous system	M	F	T
	G00-G09	Inflammatory diseases of the central nervous system	120	102	222
	G10-G13	Systemic atrophies primarily affecting the nervous system	21	22	43
	G20-G26	Extrapyramidal and mood disorders	38	32	70
	G30-G32	Other degenerative diseases of the nervous system	30	26	56
	G35-G37	Demyelinating diseases of the CNS	53	80	133
	G40-G47	Episodic and paroxysmal disorders	867	751	1,618
	G50-G59	Nerve, nerve root and plexus disorders	216	457	673
	G60-G64	polyneuropathies and other disorders of the peripheral NS	34	35	69
	G70-G73	Diseases of myoneural junction and muscle	8	16	24
	G80-G83	Cerebral palsy and other paralytic syndromes	569	530	1,099
	G90-G99	Others disorders of the nervous system	173	118	291
Total			2,129	2,169	4,298

The Ministry of Public Health visa billing system uses the International Classification of Diseases 10th revision (ICD10) coding system. 267,860 ICD10 diagnoses were registered on admissions during 2010. The number of diagnoses issued for females (147,820), exceeds that for males (120,040) in all categories of diagnoses.

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	102	128	230
	H10-H13	Disorders of conjunctiva	56	39	95
	H15-H22	Disorders of sclera, cornea, iris, and ciliary body	95	91	186
	H25-H28	Disorders of lens	2,679	3,433	6,112
	H30-H36	Disorders of choroid and retina	117	101	218
	H40-H42	Glaucoma	126	134	260
	H43-H45	Disorders of vitreous body and globe	156	114	270
	H46-H48	Disorders of optic nerve and visual pathways	4	3	7
	H49-H52	Disorders of ocular muscles, binocular movement accommodation and refraction	100	96	196
	H53-H54	Visual disturbances and blindness	72	67	139
	H55-H59	Other disorders of eye and adnexa	152	136	288
Total			3,659	4,342	8,001
Chapter 8	H60-H95	Diseases of the ear and mastoid process	M	F	T
	H60-H62	Diseases of the external ear	132	103	235
	H65-H75	Diseases of the middle ear and mastoid	544	455	999
	H80-H83	Diseases of the inner ear	92	200	292
	H90-H95	Other disorders of ear	22	24	46
Total			790	782	1,572
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	100	93	193
	I10-I15	Hypertensive diseases	2,963	4,357	7,320
	I20-I25	Ischemic heart diseases	10,699	7,154	17,853
	I26-I28	circulation	43	38	81
	I30-I52	Other forms of heart disease	2,675	3,144	5,819
	I60-I69	Cerebrovascular diseases	1,277	1,226	2,503
	I70-I79	Diseases of arteries arterioles and capillaries	539	423	962
	I80-I89	Diseases of veins, lymphatic vessels and lymph nodes NEC	1,514	858	2,372
	I95-I99	Other and unspecified disorders of the circulatory system	109	207	316
Total			19,943	17,533	37,476
Chapter 10	J00-J99	Diseases of the respiratory system	M	F	T
	J00-J06	Acute upper respiratory infections	1,139	862	2,001
	J10-J18	Influenza and pneumonia	5,427	4,631	10,058
	J20-J22	Other acute lower respiratory infections	1,459	1,156	2,615
	J30-J39	Other diseases of upper respiratory tract	3,755	3,290	7,045
	J40-J47	Chronic lower respiratory diseases	1,921	1,677	3,598
	J60-J70	Lung diseases due to external agents	35	36	71
	J80-J84	Other resp. diseases principally affecting interstitium	738	908	1,646
	J85-J86	Suppurative and necrotic conditions of lower RT	29	11	40
	J90-J94	Other diseases of plura	172	138	310
	J95-J99	Other diseases of the respiratory system	249	201	450
Total			14,924	12,910	27,834

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	219	225	444
	K20-K31	Diseases of oesophagus, stomach and duodenum	1,508	1,911	3,419
	K35-K38	Diseases of appendix	967	921	1,888
	K40-K46	Hernia	4,103	1,431	5,534
	K50-K52	Noninfective enteritis and colitis	863	934	1,797
	K55-K63	Other diseases of intestines	1,371	997	2,368
	K65-K67	Diseases of peritoneum	178	192	370
	K70-K77	Diseases of liver	275	232	507
	K80-K87	Disorders of gallbladder, biliary tract and pancreas	1,510	3,216	4,726
	K90-K93	Other diseases of the digestive system	325	260	585
Total			11,319	10,319	21,638
Chapter 12	L00-L99	Diseases of the skin and subcutaneous tissue	M	F	T
	L00-L08	Infections of the skin and subcutaneous tissue	735	484	1,219
	L10-L14	Bullous disorders	2	2	4
	L20-L30	Dermatitis and eczema	8	12	20
	L40-L45	Papulosquamous disorders	10	1	11
	L50-L54	Urticaria and erythema	26	27	53
	L55-L59	tissue	1	1	2
	L60-L75	Disorders of skin appendages	25	16	41
	L80-L99	Other disorders of the skin and subcutaneous tissue	264	226	490
Total			1,071	769	1,840
Chapter 13	M00-M99	Diseases of the musculoskeletal system and connective tissue	M	F	T
	M00-M25	Arthropathies	1,367	1,871	3,238
	M0-M03	infectious arthropathies	13	12	25
	M05-M14.8	inflammatory polyarthropathies	295	563	858
	M15-M19.9	arthrosis	386	637	1,023
	M20-M25.9	other joint disorders	673	659	1,332
	M30-M36	Systemic connective tissue disorders	39	67	106
	M40-M54	Dorsopathies	1,151	1,915	3,066
	M40-M43.9	deforming dorsopathies	25	33	58
	M45-M49.8	spondylopathies	101	134	235
	M50-M54.9	other dorsopathies	1,025	1,748	2,773
	M60-M79	Soft tissue disorders	495	659	1,154
	M60-M63.8	disorders of muscles	75	70	145
	M65-M68.8	disorders of synovium and tendon	141	319	460
	M70-M79.9	other soft tissue disorders	279	270	549
	M80-M94	Osteopathies and chondropathies	472	371	843
	M80-M85.9	disorders of bonedensity and structure	157	152	309
	M86-M90.8	other osteopathies	285	180	465
	M91-M94.9	chondropathies	30	39	69
	M95-M99	Other disorders of the musculoskeletal system and connective tissue	23	27	50
Total			3,547	4,910	8,457

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ICD10	Codes	Description	M	F	T
Chapter 14	N00-N99	Diseases of the genitourinary system	M	F	T
	N00-N08	Glomerular diseases	159	171	330
	N10-N16	Renal tubulo-interstitial diseases	536	716	1,252
	N17-N19	Renal failure	1,182	1,027	2,209
	N20-N23	Urolithiasis	4,281	2,937	7,218
	N25-N29	Other disorders of kidney and ureter	54	68	122
	N30-N39	Other diseases of the urinary system	1,265	1,803	3,068
	N40-N51	Diseases of male genital organs	2,313	0	2,313
	N60-N64	Disorders of breast	0	409	409
	N70-N77	Inflammatory diseases of female pelvic organs	0	378	378
	N80-N98	Noninflammatory disorders of female genital tract	0	4,588	4,588
	N99	Other disorders of the genitourinary system	5	10	15
Total			9,795	12,107	21,902
Chapter 15	O00-O99	Pregnancy, Childbirth and puerperium	M	F	T
	O00-O08	Pregnancy with abortive outcome	0	1,387	1,387
	O10-O16	Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium	0	39	39
	O20-O29	Other maternal disorders predominantly related to pregnancy	0	199	199
	O30-O48	Maternal care related to the fetus and amniotic cavity and possible delivery problems	0	227	227
	O60-O75	Complications of labor and delivery	0	198	198
	O80-O84	Delivery	0	22,240	22,240
	O85-O92	Complications predominantly related to the puerperium	0	35	35
	O95-O99	Other obstetric conditions NEC	0	25	25
Total			0	24,350	24,350
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	25	111	136
	P05-P08	Disorders related to length of gestation and fetal growth	253	180	433
	P10-P15	Birth trauma	12	4	16
	P20-P29	Respiratory and cardiovascular disorders specific to the perinatal period	1,165	742	1,907
	P35-P39	Infections specific to the perinatal period	239	164	403
	P50-P61	Haemorrhagic and haematological disorders of fetus and newborn	323	249	572
	P70-P74	Transitory endocrine and metabolic disorders specific to fetus and newborn	47	35	82
	P75-P78	Digestive system disorders of fetus and newborn	29	11	40
	P80-P83	Conditions involving the integument and temperature regulation of fetus and newborn	11	4	15
	P90-P96	Other disorders originating in the perinatal period	29	19	48
Total			2,133	1,519	3,652

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	35	18	53
	Q10-Q18	Congenital malformations of eye, ear, face and neck	21	16	37
	Q20-Q28	Congenital malformations of the circulatory system	99	90	189
	Q30-Q34	Congenital malformations of the respiratory system	11	12	23
	Q35-Q37	Cleft lip and cleft palate	43	25	68
	Q38-Q45	Other congenital malformations of the digestive system	64	69	133
	Q50-Q56	Congenital malformations of the genital organs	466	39	505
	Q60-Q64	Congenital malformations of the urinary system	128	63	191
	Q65-Q79	Congenital malformations and deformations of the musculoskeletal system	141	142	283
	Q80-Q89	Other congenital malformations	24	15	39
	Q90-Q99	Chromosomal abnormalities, NEC	22	22	44
Total			1,054	511	1,565
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	4,412	4,790	9,202
	R10-R19	Symptoms and signs involving the digestive system and abdomen	7,022	10,609	17,631
	R20-R23	Symptoms and signs involving the skin and subcutaneous tissue	133	135	268
	R25-R29	Symptoms and signs involving the nervous and musculoskeletal systems	48	69	117
	R30-R39	Symptoms and signs involving the urinary system	929	478	1,407
	R40-R46	Symptoms and signs involving cognition, perception, emotional state and behaviour	564	815	1,379
	R47-R49	Symptoms and signs involving speech and voice	23	15	38
	R50-R69	General symptoms and signs	5,514	5,404	10,918
	R70-R79	Abnormal findings on examination of blood, without diagnosis	44	83	127
	R80-R82	Abnormal findings on examination of urine, without diagnosis	26	42	68
	R83-R89	Abnormal findings on examination of other body fluids substances and tissues, without diagnosis	8	6	14
	R90-R94	Abnormal findings on diagnostic imaging and in function studies, without diagnosis	12	13	25
	R95-R99	Ill-defined and unknown causes of mortality	6	3	9
Total			18,741	22,462	41,203
Chapter 19	S00-T98	Injury, poisoning and certain other consequences of external causes	M	F	T
	S00-S09	Injuries to the head	1,095	572	1,667
	S10-S19	Injuries to the neck	142	102	244
	S20-S29	Injuries to the thorax	119	60	179
	S30-S39	Injuries to the abdomen, lower back, lumbar spine and pelvis	195	94	289
	S40-S49	Injuries to the shoulder and upper arm	586	411	997

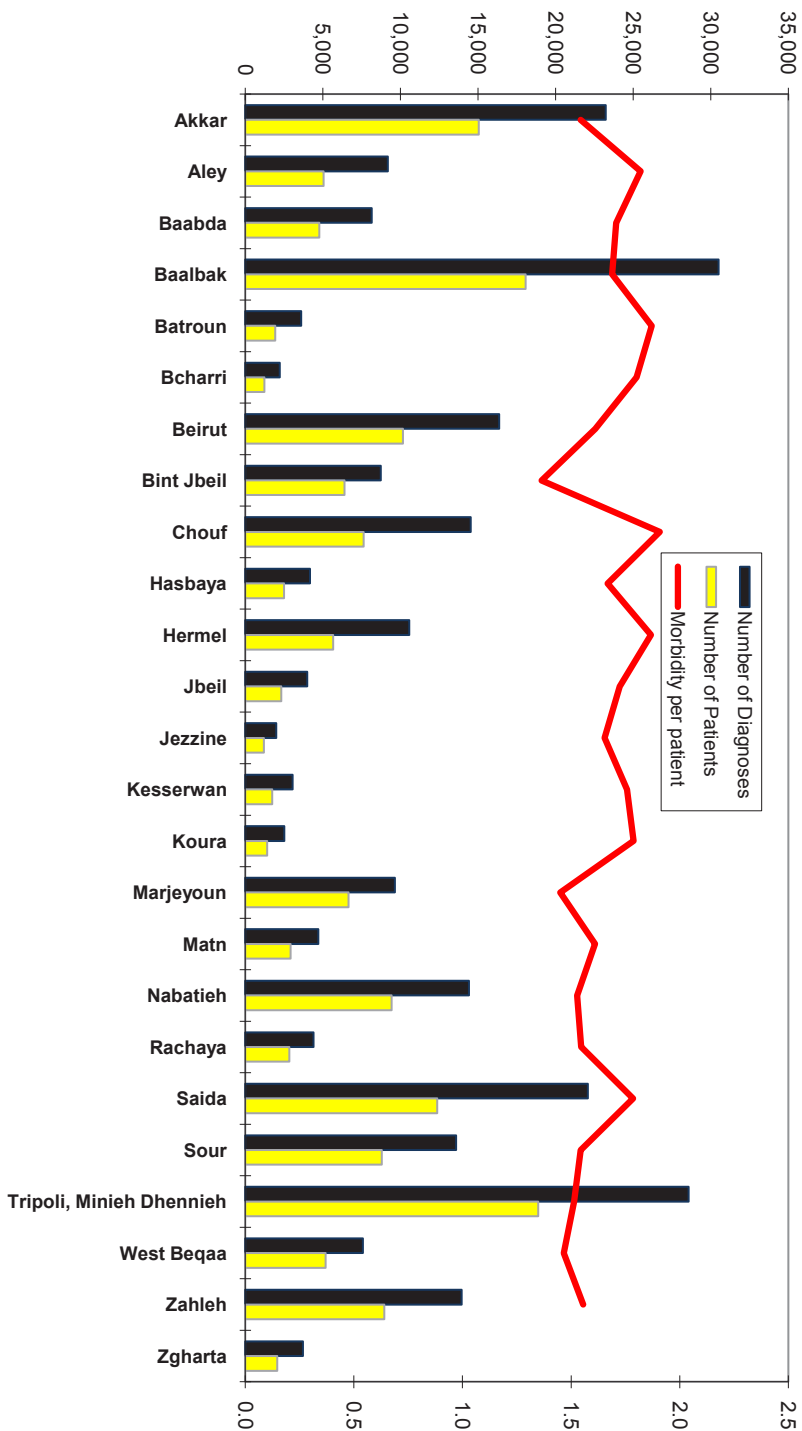
ICD10	Codes	Description	M	F	T
	S50-S59	Injuries to the elbow and forearm	1,021	560	1,581
	S60-S69	Injuries to the wrist and hand	1,004	456	1,460
	S70-S79	Injuries to the hip and thigh	905	1,053	1,958
	S80-S89	Injuries to the knee and lower leg	1,073	586	1,659
	S90-S99	Injuries to the ankle and foot	329	171	500
	T00-T07	Injuries involving multiple body regions	1,306	689	1,995
	T08-T14	Injuries to unspecified part of trunk, limb or body region	291	158	449
	T15-T19	Effects of foreign body entering through natural orifice	40	31	71
	T20-T32	Burns and corrosions	129	71	200
	T33-T35	Frostbite	11	15	26
	T36-T50	Poisoning by drugs, medicaments and biological substances	17	36	53
	T51-T65	Toxic effects of substances chiefly nonmedicinal as to source	124	102	226
	T66-T78	Other and unspecified effects of external causes	94	60	154
	T79	Certain early complications of trauma	13	5	18
	T80-T88	Complications of surgical and medical care NEC	103	98	201
	T90-T98	Sequelae of injuries, of poisoning and of other consequences of external causes	102	90	192
Total			8,699	5,420	14,119
Chapter 20	V01-Y98	External causes of morbidity and mortality	M	F	T
Total			110	52	162
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	58	82	140
	Z20-Z29	Persons with potential health hazards related to communicable diseases	19	15	34
	Z30-Z39	Persons encountering health services in circumstances related to reproduction	18	364	382
	Z40-Z54	Persons encountering health services for specific procedures and health care	777	613	1,390
	Z55-Z65	Persons with potential health hazards related to socioeconomic and psychosocial circumstances	0	3	3
	Z70-Z76	Persons encountering health services in other circumstances	3	3	6
	Z80-Z99	Persons with potential health hazards related to family and personal history and certain conditions influencing health status	178	107	285
Total			1,053	1,187	2,240
Total Number of Hospitalized Diagnoses			120,040	147,820	267,860

In absolute numbers, the number of diagnoses recorded for MOPH services is higher for female admissions across all categories of ICD 10. This might be due to multiple morbidities in females, or that the number of females is higher in the eligible (un-insured) category of patients. This needs further investigation.

Graph 7: MOPH Subsidized Admissions by Category of Diagnosis and Gender, 2010



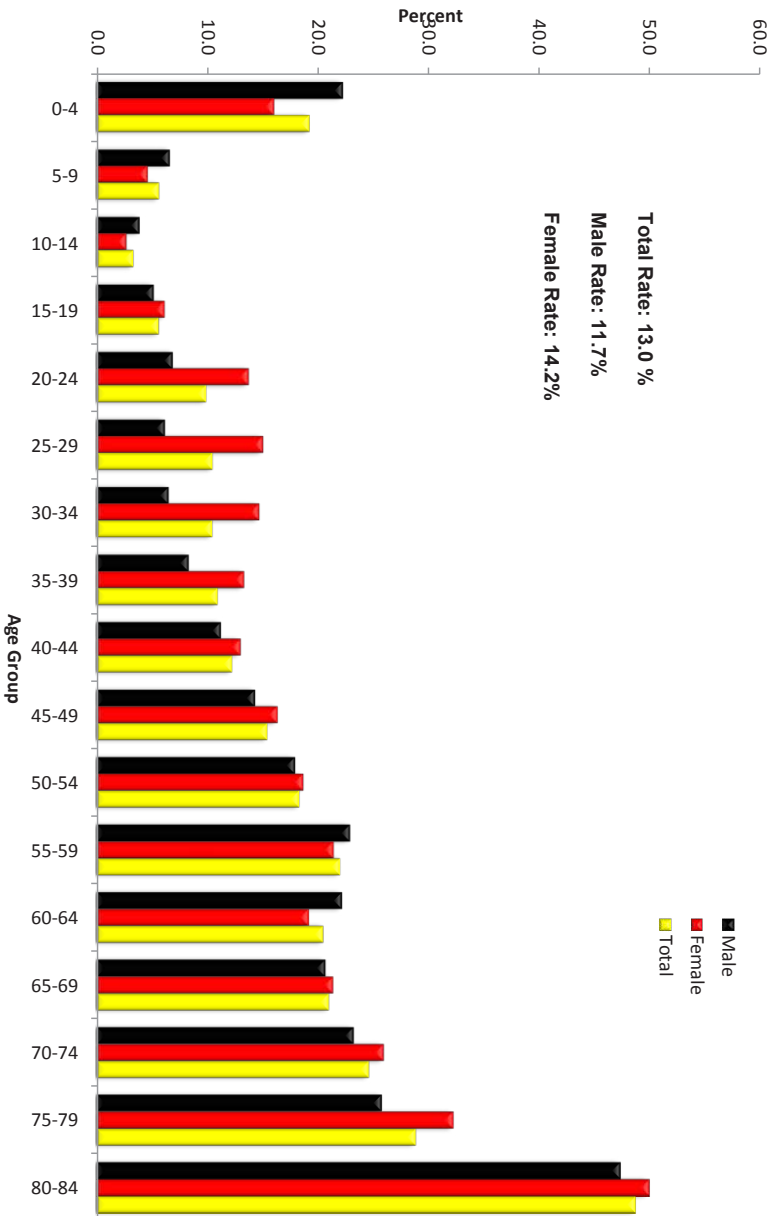
Graph 8: Number of Diagnoses, Number of Patients, and Morbidity per Patient By Qada, 2010



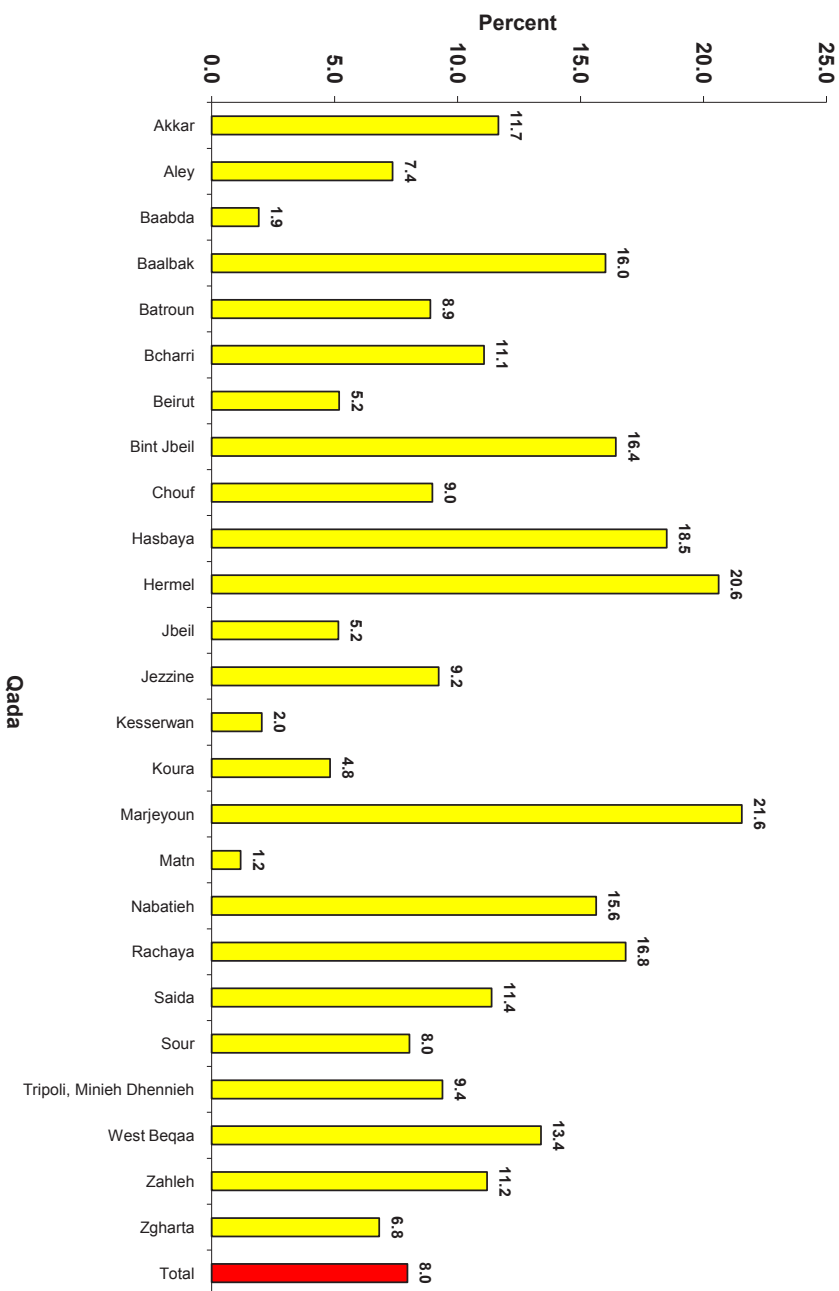
This graph shows that in looking for burden of disease across the districts, it is misleading to look only at the number of patients alone, or the diagnosed conditions alone. While the districts of Tripoli (including Minieh, Dhennieh) and Baalback exhibit the highest number of patients, and diagnoses, respectively, the Chouf district has the highest morbidity per patient (1.91) followed by Hermel and batroun (1.87 each). This might be due to high morbidity in some districts, but it could also reflect under-reporting of diagnoses in some other districts. This needs further investigation.

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 13% (11.7% 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 9: Percent Hospitalized Morbidities Among Eligibles By Age Group and Gender, 2010



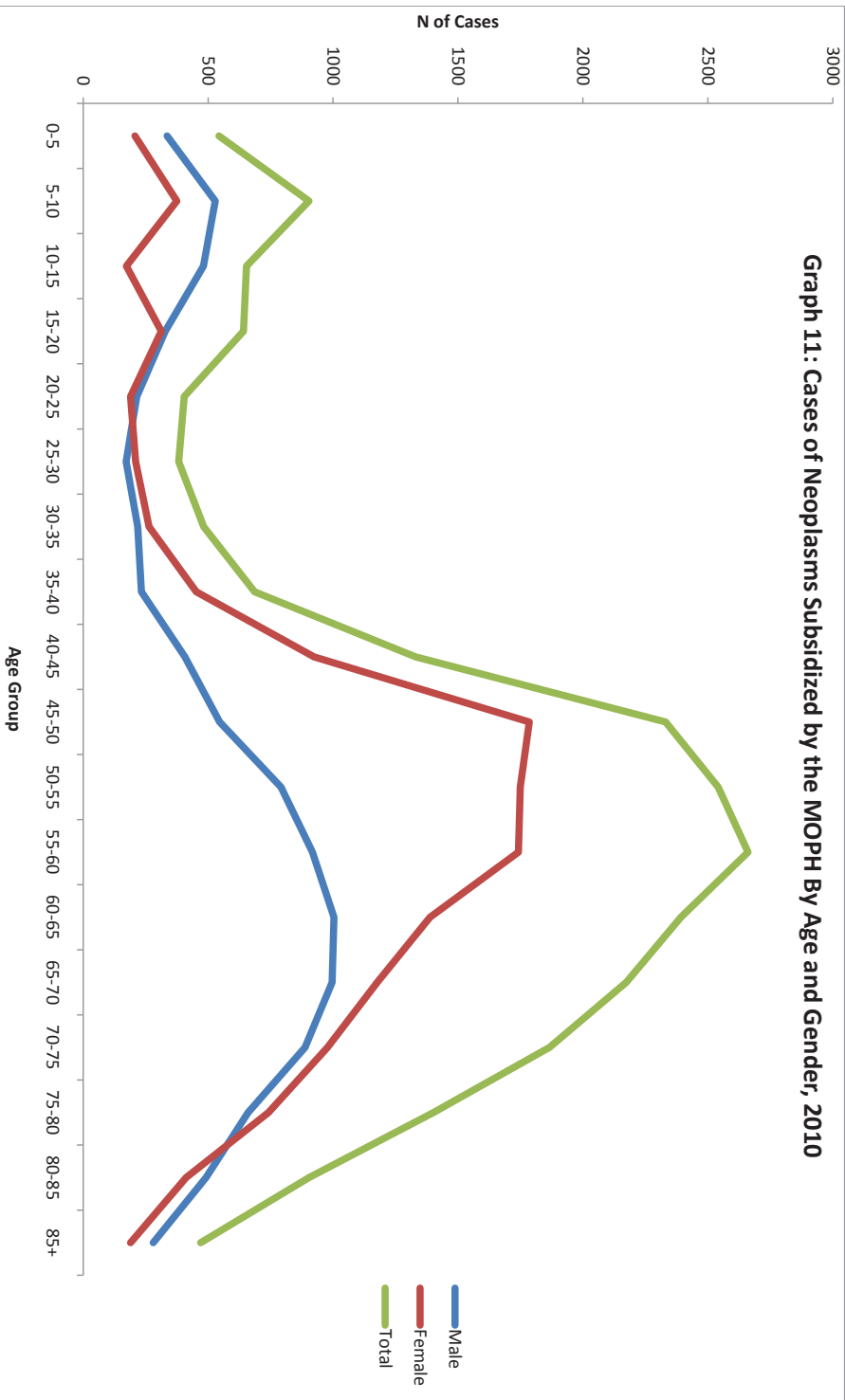
Graph 10: Percent Population Hospitalized Among Eligible Population By Qada, 2010



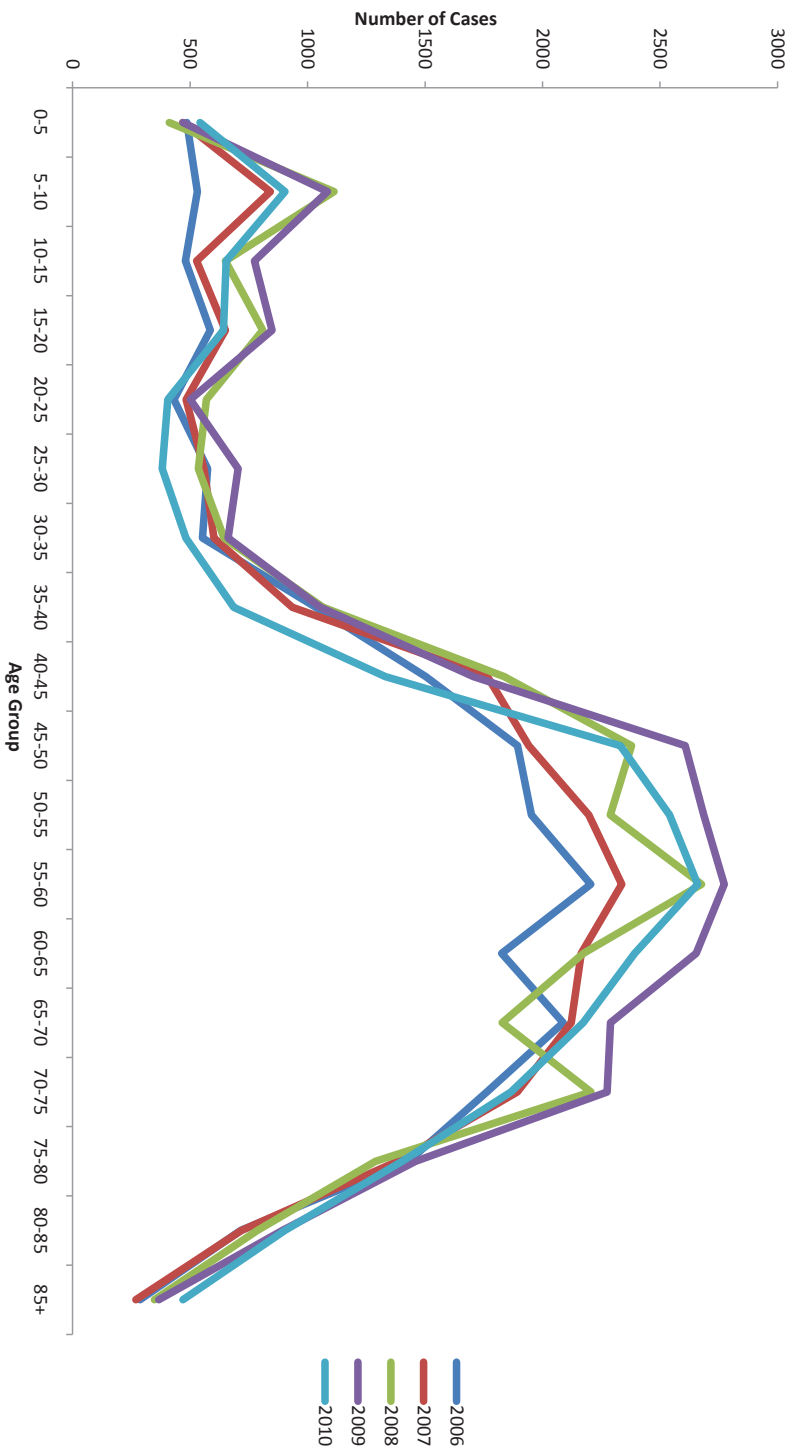
The CAS Household Survey reports the un-insured population by age group, but it does not provide this figure by district. Rather, for the total population it provides a figure of 51.7% who don't have any form of medical insurance. Thus assuming that those 51.7% are homogenously distributed across districts, the utilization rate of the district of Marjeyoun is the highest with 21.6% followed by Hermel with 20.6% and the lowest utilization of MOPH services is that of the Metn with only 1.2% of those eligible utilizing the MOPH services. 8% of the total eligible population utilize the MOPH services. This could reflect morbidity level, or the pattern of utilization across districts, but it needs further investigation.

Overall, the number of cases of hospitalized neoplasms is lower for males than females. The age group with the highest number of cases is 55-60 years old. Female cases peak at 45-50 years old, while male cases follow a smoother curve with a wider peak between 60 and 70 years old. This could reflect the dissimilar types of cancer that inflict the two genders. For children categories, those between 5-10 years old in both sexes have the highest incidence.

Graph 1.1: Cases of Neoplasms Subsidized by the MOPH By Age and Gender, 2010



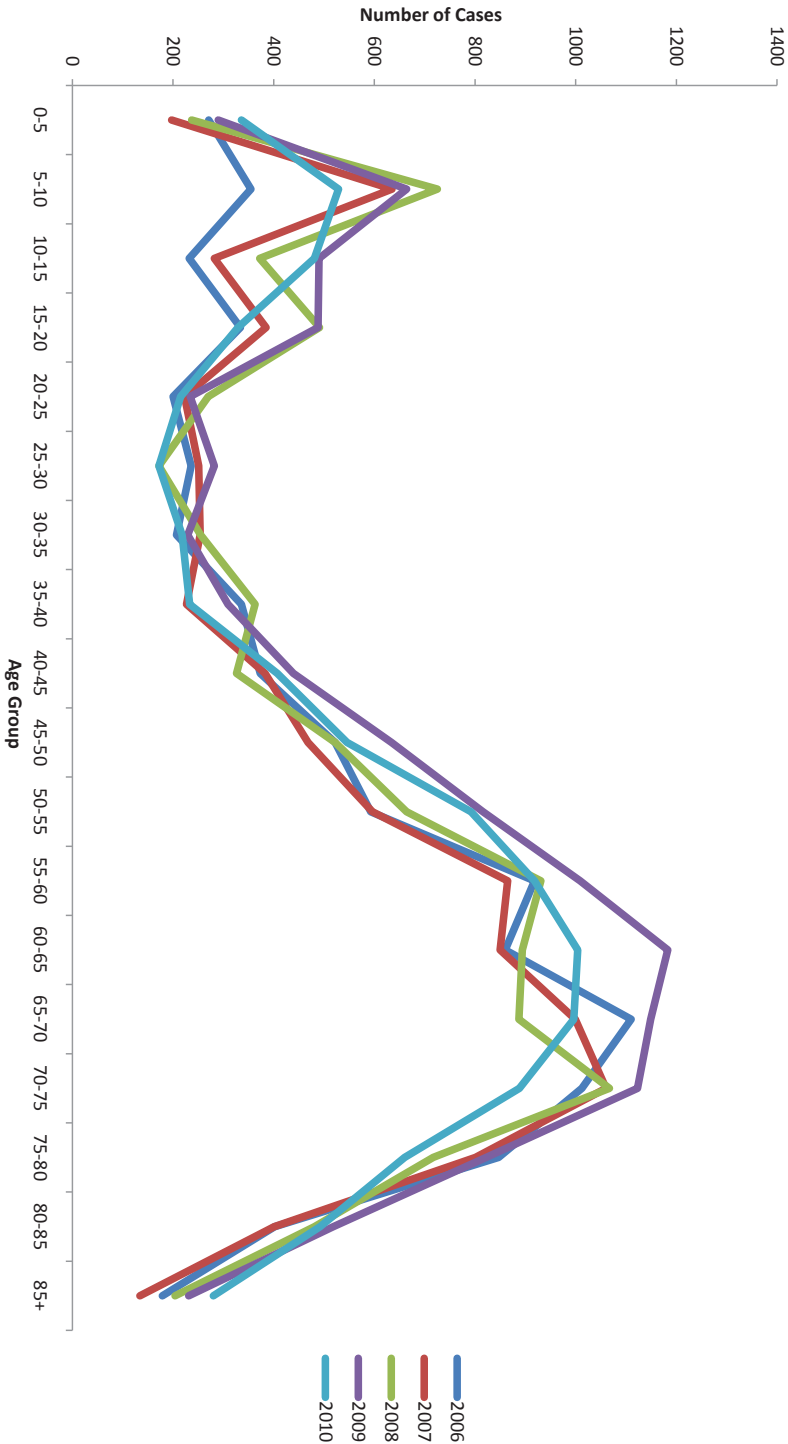
Graph 12: The Trend in MOPH Subsidized Hospitalized Cases of Neoplasms By Age Group, 2006-2010



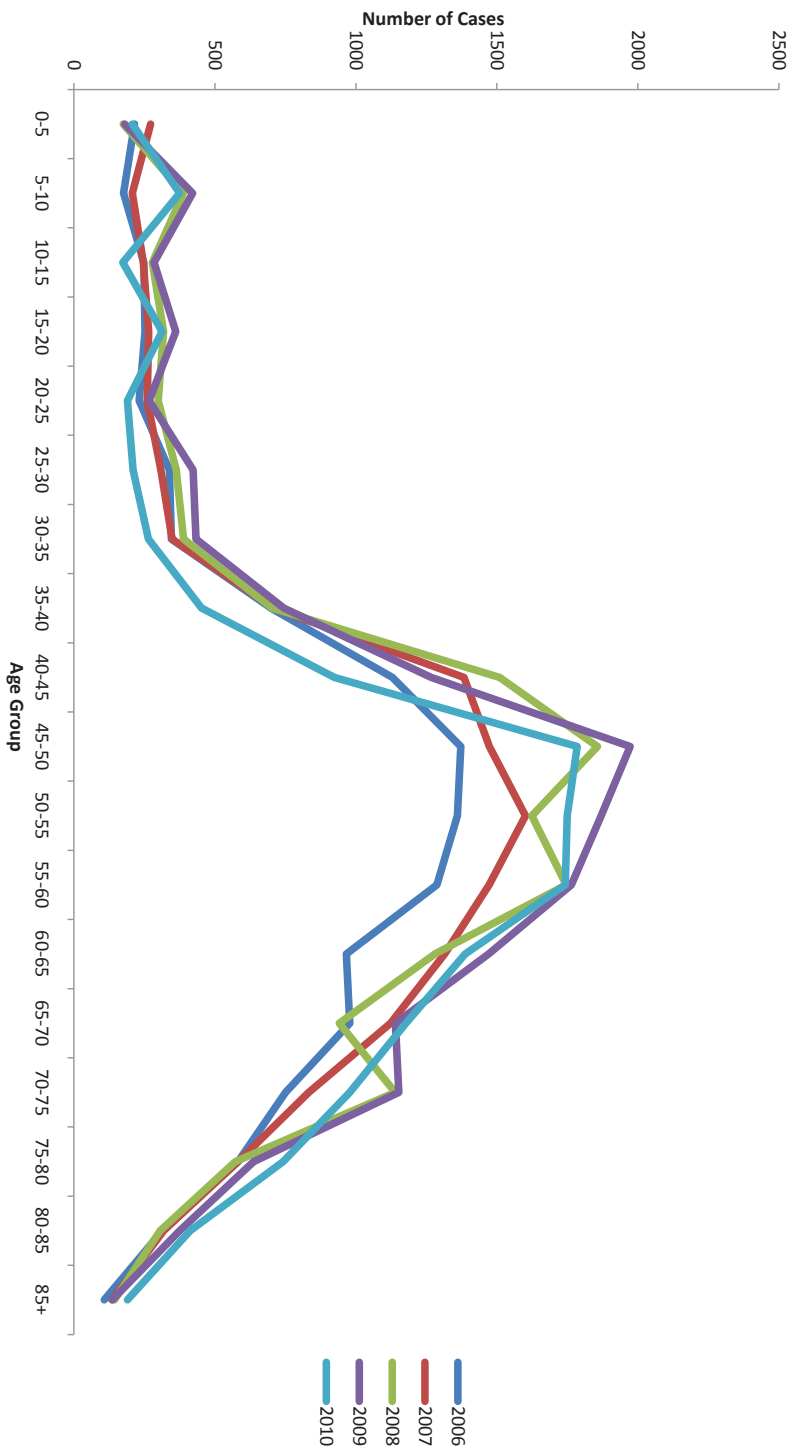
There is a drop in the total number of cases from last year (2009). This could be due to a true decrease in prevalence, which is not supported by other evidence; or could be a decrease in service supply or utilization. This calls for further investigation.

The drop in cases between 2009 and 2010 is higher for males in the older age groups.

Graph 13: The Trend in MOPH Subsidized Hospitalized Male Cases of Neoplasms By Age Group, 2006-2010



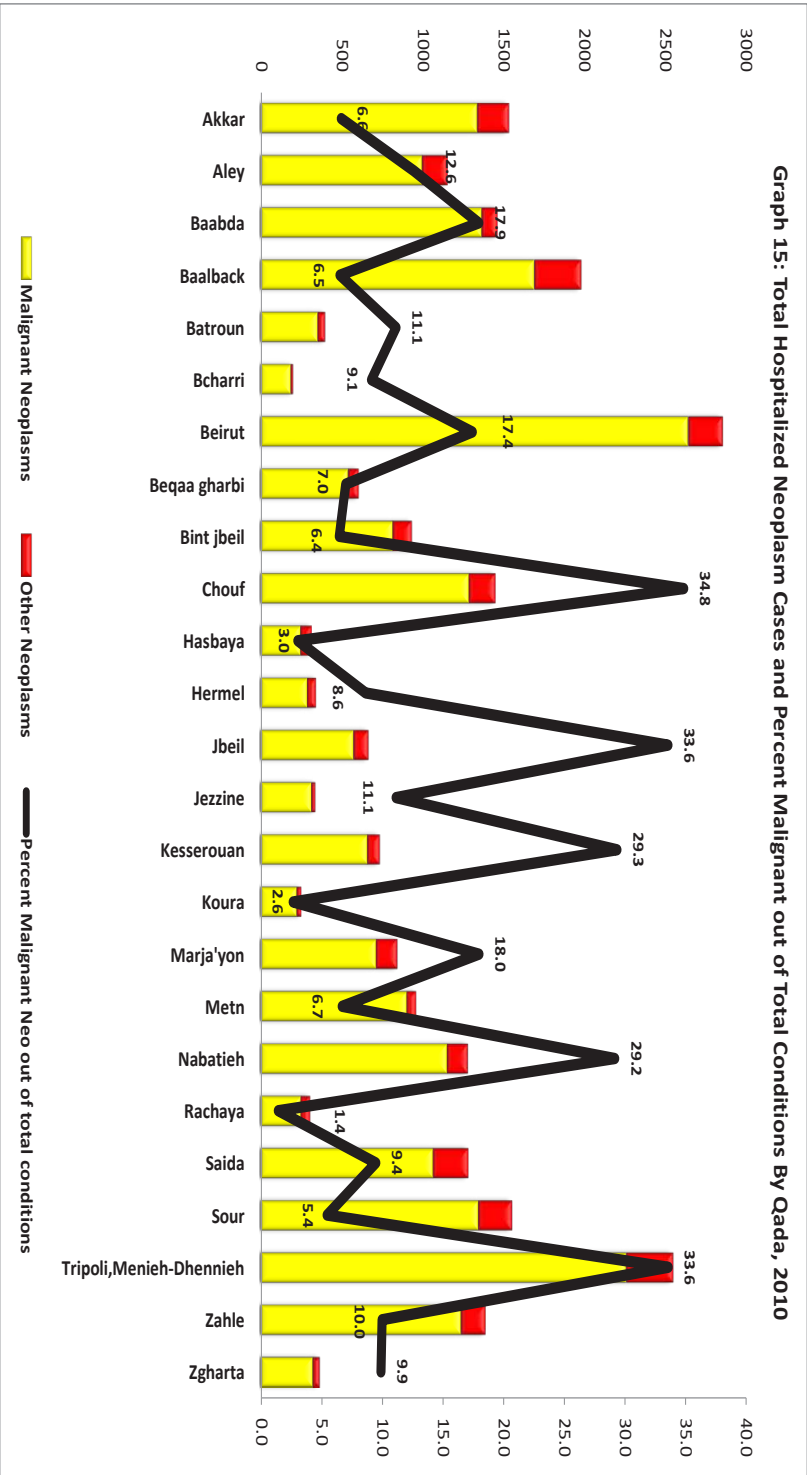
Graph 14: The Trend in MOPH Subsidized Hospitalized Female Cases of Neoplasms By Age Group, 2006-2010



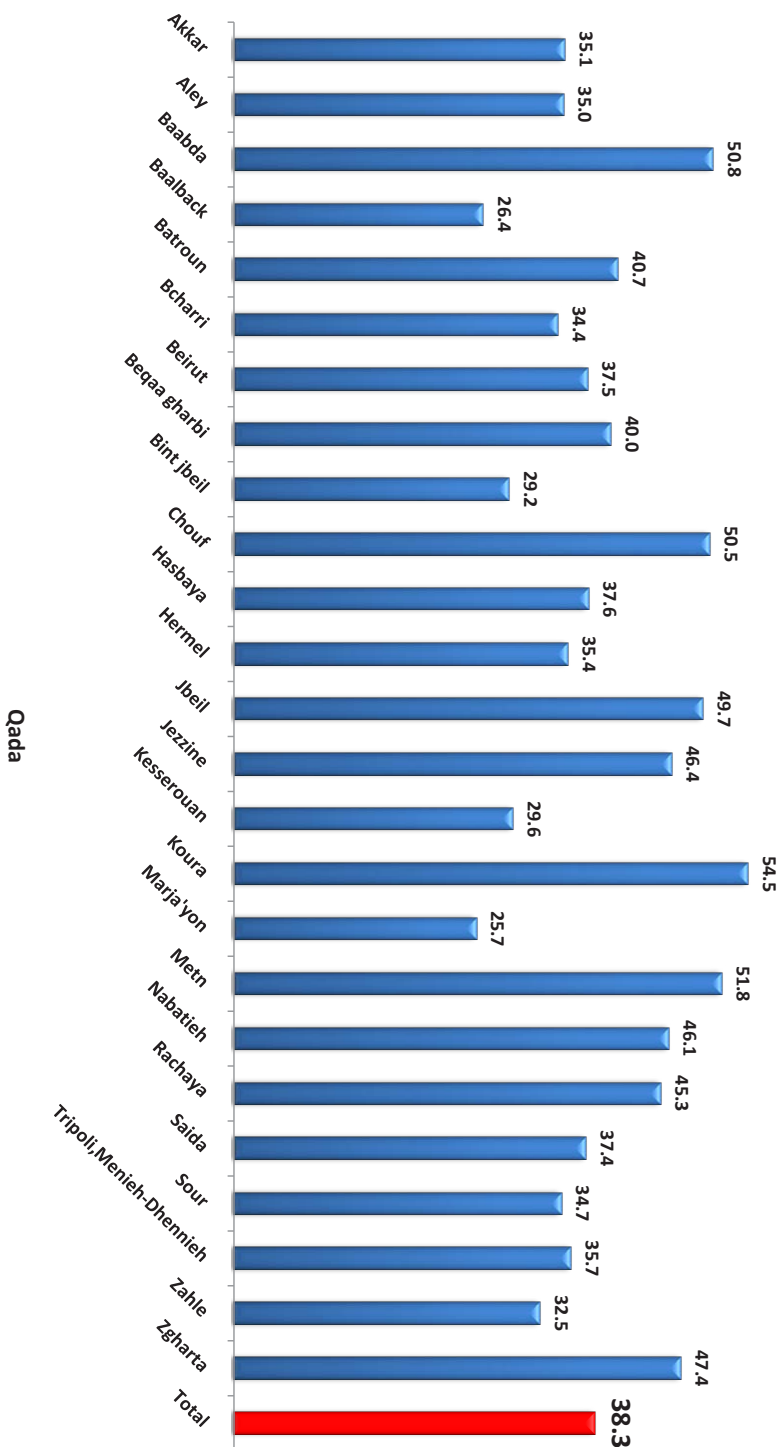
Although there is a decrease in number of cases between 2009 and 2010, but it is not as significant as that in the males group.

34.8% of hospitalized cases from the Chouf district are for malignant neoplasms, followed by Jbeil and Tripoli with 33.6% while the lowest percent of malignant conditions is recorded for the Rachaya district with 1.2%. While this high percent should be alarming, one cannot disregard data problems, whereby some conditions, especially malignant neoplasms, are not well reported on the admission applications.

Graph 15: Total Hospitalized Neoplasm Cases and Percent Malignant out of Total Conditions By Qada, 2010



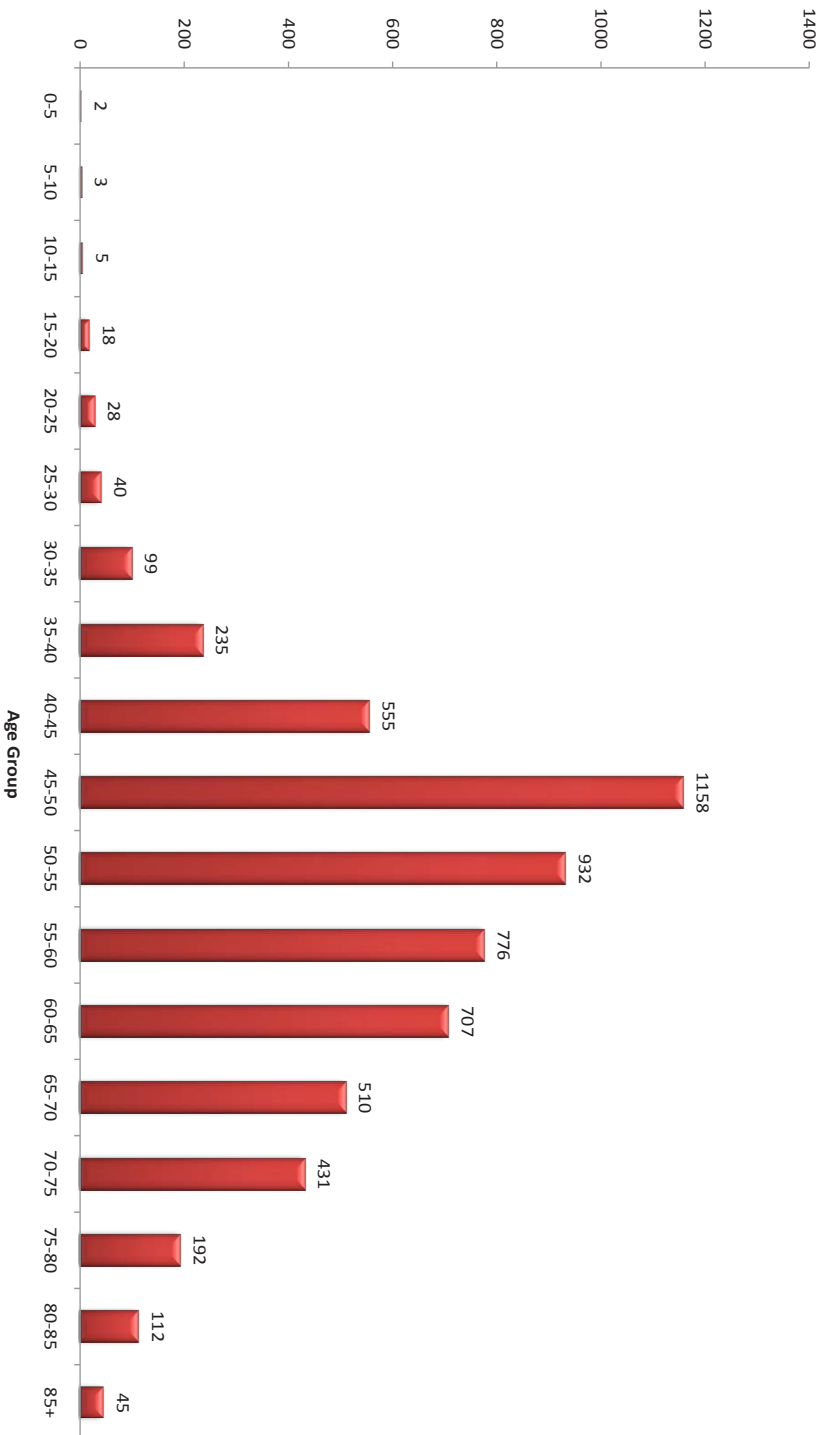
Graph 16: Percent Breast Ca out of total Female Neoplasms by Qada, 2010



Investigating the females admitted for cancer by district of origin, it turned out that 38.3% of those are Breast cancer conditions with a proportion ranging from as low as 25.7% in Marjeyoun to as high as 54.5% in Koura. Comparing with last year's percents, the lowest percent ever recorded then was for Baalback (22.9%). Taking a quick look at the comparison between the two years 2009 and 2010, there are districts with a significant increase in percent of Breast Ca conditions out of total female cancers (Zgharta, Koura, Hermel, Chouf, Baabda, Baalback), while other districts experienced a significant drop in that percent (Akkar, Aley, Bcharri, Begaa Gharbi, Hasbaya, and Kesserouan) with a National decrease by 2.4%.

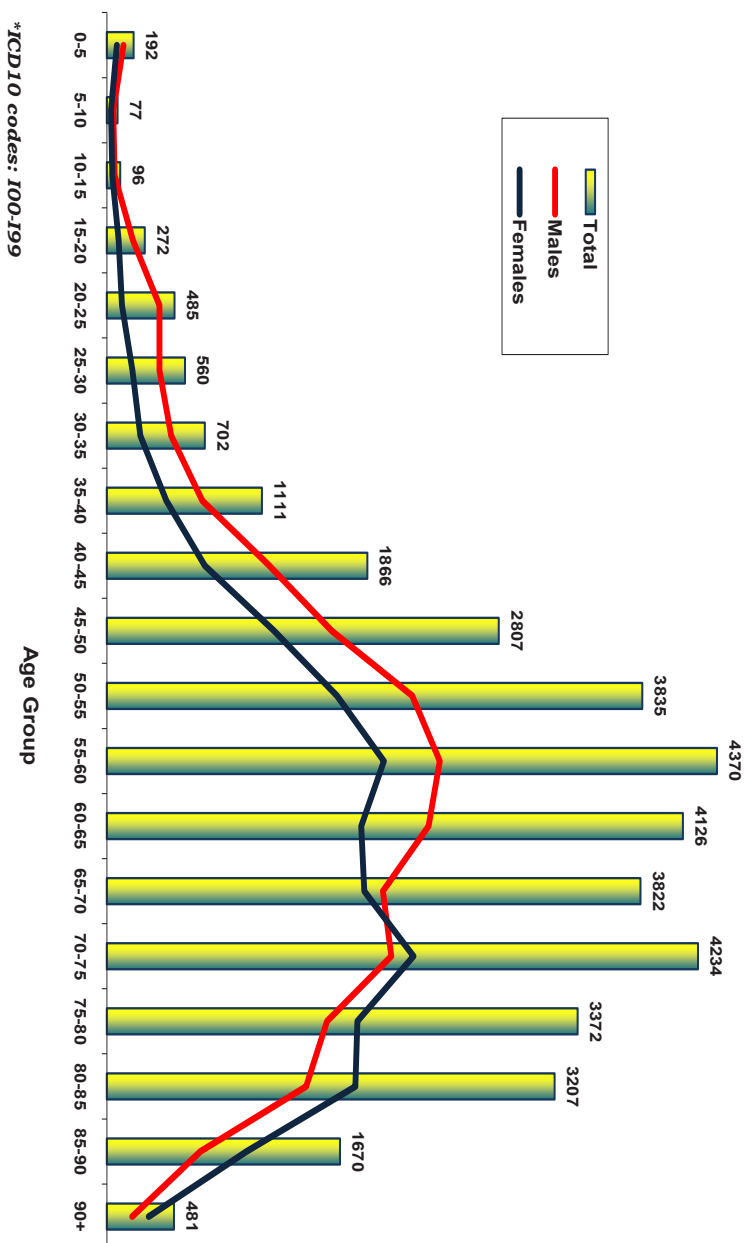
Breast Cancer is spread over all age groups with a peak of cases in the age group 45-50. There were 1580 breast cancer female patients admitted 5847 times either for surgery or chemotherapy. The mean age of the cases was 52.5 years old; the median was 52 and the mode 47 years, with a standard deviation around the mean of 13.5 years.

Graph 17: Hospitalized Cases of Malignant Neoplasms of the Breast by Age, 2010



Cases

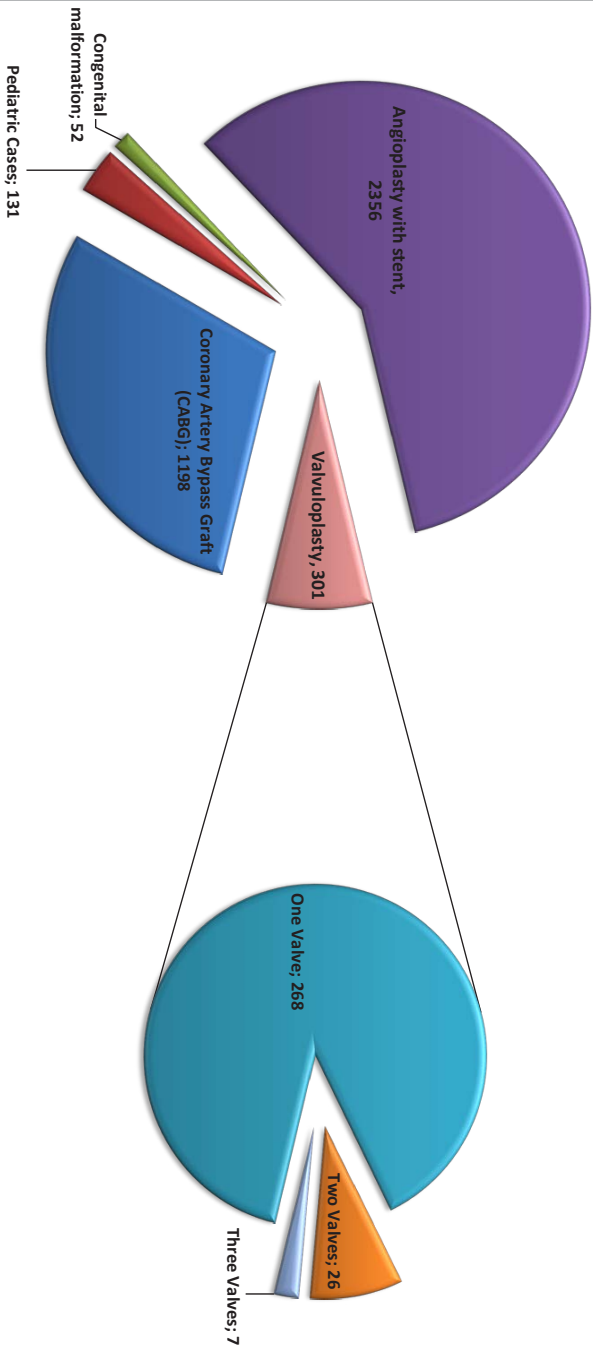
Graph 18: MOPH Subsidized Hospitalized Cardiovascular* Cases By Gender and Age Group, 2010



The highest number of cardiovascular disease conditions occurs between the ages of 55-60 years old. The male cases peak in that age group, while female cases peak at a higher age (70-75 years old).

4178 applications for open heart surgeries were presented to the open heart committee at the MOPH during 2010. 140 were refused for different reasons and 4038 were accepted for coverage which costed the MOPH around 24 billion LBP. The cases were partitioned as 131 pediatric cases, 52 congenital malformations, 301 valvuloplasty, 2356 angioplasty with stent and 1 198 Coronary Artery Bypass Graft (CABG).

Graph 19: Number of MOPH Subsidized Open Heart Surgeries By Category, 2010



There are 21 new cases of AIDS and 72 HIV reported to the National AIDS Program (NAP) till November 2010, 29% of whom have at recent travel history and 18% have an age less than 30.

Table 11: HIV/AIDS Incidence in Lebanon, 2010

Number of new Reported Cases up to November 2010 is 93	
Number of cumulative Cases till November 2010: 1346	
Stage of the Disease	
HIV	42.00%
AIDS	23.00%
Not specified	23.00%
Gender	
Males	89.00%
Females	11.00%
Age Group	
Less than thirty	18.00%
Between thirty one and Fifty	30.00%
Above fifty one	17.00%
Not specified	35.00%
Mode of Transmission	
Sexual	76.30%
Blood Transfusion	0.00%
IDU	0.00%
Perinatal	0.00%
Not specified	23.50%
Sexual Behavior	
Homosexual	19.35%
Bisexual	16.10%
Heterosexual	20.40%
Not specified	44%
Recent Travel History	
Yes	29.00%
No	71.00%

Table 12: Lifetable of the Lebanese Population based on 2009 Estimates

Total Population: Reported Deaths 20,858; Estimated Population=3,891,466

Age x	registered Deaths ${}_5D_x$	Reported Population ${}_5N_x$	Mortality Rate ${}_5M_x$	Linearity Adjustment a	Years in Interval n	Probability of Dying ${}_5q_x$	Individuals Surviving ${}_5l_x$	Deaths in Interval x ${}_5d_x$	Years Lived in Interval x ${}_5L_x$	Cumulative Years Lived T_x	Expectancy of Life at Age x e_x
0-4	684	268511	0.0025	0.3	5	0.0183	100000	1830	493595	8154121	81.54
5-9	118	322992	0.0004	0.5	5	0.0018	98170	179	490403	7660526	78.03
10-14	133	365798	0.0004	0.5	5	0.0018	97991	177	489513	7170123	73.17
15-19	230	379418	0.0006	0.5	5	0.0030	97814	296	488329	6680611	68.30
20-24	256	381364	0.0007	0.5	5	0.0034	97518	327	486773	6192281	63.50
25-29	215	315209	0.0007	0.5	5	0.0034	97191	331	485128	5705508	58.70
30-34	250	286412	0.0009	0.5	5	0.0044	96860	422	483245	5220380	53.90
35-39	313	260728	0.0012	0.5	5	0.0060	96438	576	480748	4737136	49.12
40-44	418	242438	0.0017	0.5	5	0.0086	95861	823	477250	4256388	44.40
45-49	584	215198	0.0027	0.5	5	0.0135	95039	1282	471989	3779137	39.76
50-54	845	184066	0.0046	0.5	5	0.0227	93757	2127	463467	3307148	35.27
55-59	1018	147876	0.0069	0.5	5	0.0338	91630	3101	450396	2843681	31.03
60-64	1317	143984	0.0091	0.5	5	0.0447	88529	3959	432746	2393286	27.03
65-69	1856	128418	0.0145	0.5	5	0.0698	84570	5899	408102	1960539	23.18
70+	12621	249054	0.0507		5	1.0000	78671	78671	1552437	1552437	19.73

Female Population: Reported Deaths 9,238; Estimated Population: 1,968,693

Age x	registered Deaths ${}_5D_x$	Reported Population ${}_5N_x$	Mortality Rate ${}_5M_x$	Linearity Adjustment a	Years in Interval n	Probability of Dying ${}_5q_x$	Individuals Surviving ${}_5l_x$	Deaths in Interval x ${}_5d_x$	Years Lived in Interval x ${}_5L_x$	Cumulative Years Lived T_x	Expectancy of Life at Age x e_x
0-4	332	128418	0.0026	0.3	5	0.0220	100000	2200	492300	8316216	83.16
5-9	54	157604	0.0003	0.5	5	0.0017	97800	169	488579	7823916	80.00
10-14	51	175116	0.0003	0.5	5	0.0015	97631	142	487802	7335338	75.13
15-19	51	175894	0.0003	0.5	5	0.0014	97490	141	487095	6847535	70.24
20-24	85	182899	0.0005	0.5	5	0.0023	97348	226	486177	6360440	65.34
25-29	72	163442	0.0004	0.5	5	0.0022	97123	215	485075	5874263	60.48
30-34	96	148654	0.0006	0.5	5	0.0032	96907	313	483754	5389188	55.61
35-39	116	143984	0.0008	0.5	5	0.0040	96594	387	482004	4905434	50.78
40-44	182	136201	0.0013	0.5	5	0.0067	96207	642	479433	4423429	45.98
45-49	249	116744	0.0021	0.5	5	0.0106	95566	1014	475292	3943997	41.27
50-54	348	97287	0.0036	0.5	5	0.0177	94551	1675	468570	3468704	36.69
55-59	388	77829	0.0050	0.5	5	0.0246	92877	2289	458660	3000135	32.30
60-64	498	77829	0.0064	0.5	5	0.0315	90587	2854	445801	2541475	28.06
65-69	694	66155	0.0105	0.5	5	0.0511	87733	4486	427451	2095673	23.89
70+	6020	120637	0.0499		5	1.0000	83247	83247	1668223	1668223	20.04

Male Population: Reported Deaths: 11,620; Estimated Population: 1,922,773

Age x	registered Deaths ${}_5D_x$	Reported Population ${}_5N_x$	Mortality Rate ${}_5M_x$	Linearity Adjustment a	Years in Interval n	Probability of Dying ${}_5q_x$	Individuals Surviving ${}_5l_x$	Deaths in Interval x ${}_5d_x$	Years Lived in Interval x ${}_5L_x$	Cumulative Years Lived T_x	Expectancy of Life at Age x e_x
0-4	352	140093	0.0025	0.3	5	0.0148	100000	1480	494820	7985452	79.85
5-9	63	165387	0.0004	0.5	5	0.0019	98520	189	492128	7490632	76.03
10-14	82	190682	0.0004	0.5	5	0.0021	98331	210	491131	6998504	71.17
15-19	179	203524	0.0009	0.5	5	0.0044	98121	430	489530	6507373	66.32
20-24	171	198465	0.0009	0.5	5	0.0043	97691	420	487404	6017842	61.60
25-29	143	151767	0.0009	0.5	5	0.0047	97271	456	485214	5530438	56.86
30-34	154	137758	0.0011	0.5	5	0.0056	96815	540	482724	5045224	52.11
35-39	197	116744	0.0017	0.5	5	0.0084	96275	809	479352	4562501	47.39
40-44	236	106237	0.0022	0.5	5	0.0110	95466	1053	474697	4083149	42.77
45-49	335	98454	0.0034	0.5	5	0.0169	94413	1594	468081	3608451	38.22
50-54	497	86780	0.0057	0.5	5	0.0282	92819	2621	457543	3140370	33.83
55-59	630	70046	0.0090	0.5	5	0.0440	90198	3965	441077	2682827	29.74
60-64	819	66155	0.0124	0.5	5	0.0600	86233	5177	418223	2241749	26.00
65-69	1162	62263	0.0187	0.5	5	0.0892	81056	7226	387216	1823527	22.50
70+	6601	128418	0.0514		5	1.0000	73830	73830	1436311	1436311	19.45

The Life expectancy at birth of the Lebanese population based on the population estimates of 2009, and the reported deaths of 2009 is 81.54 years (F=83.16, M=79.85). The probability of dying in the first five years of life is taken from the latest U5MR calculated by the PAPFAM survey of 2004.

Table 13: Table Showing The Cases Of Notifiable Diseases Reported To The MOPH By Month, 2010

	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Vaccine Preventable Diseases													
Acute Flaccid Paralysis	35	4	3	4	1	3	1	3	2	1	8	4	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	11	1	1	1	1	1	1	2	0	0	0	1	2
Mumps	28	2	1	3	7	3	1	5	2	1	1	1	1
Pertussis	19	2	0	0	5	0	5	3	2	0	2	0	0
Rabies	1	0	0	0	0	0	0	0	1	0	0	0	0
Rubella	5	1	1	1	0	0	0	0	1	1	0	0	0
Tetanus	2	0	1	0	0	0	0	0	0	1	0	0	0
tetanus neonatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis B	244	11	19	18	25	19	28	17	20	25	17	21	24
Food & Water Borne Diseases													
Brucellosis	303	9	12	14	19	44	61	50	31	26	23	9	5
Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0
Dysentery	252	20	11	9	11	24	23	25	54	30	15	17	13
Food Poisoning	483	36	16	5	28	58	22	56	178	13	51	20	0
Hydatid Cyst	14	4	3	0	0	2	0	2	0	0	1	2	0
Parasitic Worms	20	1	2	2	3	1	1	1	2	3	0	0	4
Trichinosis	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	572	22	18	23	23	44	65	71	97	83	55	35	36
Viral Hepatitis A	323	47	27	22	16	20	16	12	24	32	28	37	42
Other Diseases													
Bilharziasis	1	0	0	0	1	0	0	0	0	0	0	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	0	0	0	1	0	0	0	0
Ebola	0	0	0	0	0	0	0	0	0	0	0	0	0
Gonorrhea	5	0	0	1	1	0	0	1	1	0	1	0	0
Leishmaniasis	6	1	0	0	0	1	0	1	0	1	1	0	1
Leprosy	2	0	1	1	0	0	0	0	0	0	0	0	0
Malaria	33	1	3	2	4	0	2	7	4	3	2	4	1
Meningitis	219	12	15	27	33	26	25	23	19	11	11	9	8
Plague	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis	8	1	1	0	1	0	0	0	0	1	1	1	2
Typhus	28	0	0	4	0	1	3	6	4	2	7	0	1
Viral Hepatitis C	100	5	3	7	7	12	7	8	5	10	15	14	7
Yellow Fever	0	0	0	0	0	0	0	0	0	0	0	0	0

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. 244 cases of Hepatitis B, 323 cases of Hepatitis A, 572 cases of typhoid fever, and 219 cases of Meningitis were reported during 2010. It is worth mentioning that the number of cases of Malaria is incomplete here with 33 reported cases, while the National number as delivered by the Malaria Control Office of the MOPH is 66 cases for 2010.

Table 14: Table Showing The Cases Of Notifiable Diseases Reported To The MOPH By Age & Gender, 2010

	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	35	8	8	5	4	6	3	1	21	14	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	11	8	0	0	3	0	0	0	4	7	0
Mumps	28	10	8	8	2	0	0	0	17	11	0
Pertussis	19	14	2	3	0	0	0	0	11	8	0
Rabies	1	0	0	0	0	0	1	0	0	1	0
Rubella	5	4	0	0	1	0	0	0	3	2	0
Tetanus	2	0	0	0	1	1	0	0	2	0	0
tetanus neonatal	0	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis B	244	1	2	13	102	77	37	12	168	75	1
Food & Water Borne Diseases											
Brucellosis	303	15	27	48	69	84	57	3	149	154	0
Cholera	0	0	0	0	0	0	0	0	0	0	0
Dysentery	252	94	35	24	35	30	33	1	128	124	0
Food Poisoning	483	38	38	87	157	84	41	38	247	236	0
Hydatid Cyst	14	0	1	0	6	4	3	0	4	10	0
Parasitic Worms	20	1	3	2	4	7	2	1	8	12	0
Trichinosis	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	572	125	59	88	164	65	62	9	283	289	0
Viral Hepatitis A	323	33	85	101	88	8	3	5	199	123	1
Other Diseases											
Bilharziasis	1	0	0	0	1	0	0	0	1	0	0
Creutzfeld Jakob Disease	1	0	0	0	0	0	1	0	0	1	0
Ebola	0	0	0	0	0	0	0	0	0	0	0
Gonorrhea	5	0	0	0	5	0	0	0	5	0	0
Leishmaniasis	6	1	0	0	2	0	3	0	3	3	0
Leprosy	2	0	0	0	0	1	1	0	1	1	0
Malaria	33	0	2	2	19	7	1	2	23	10	0
Meningitis	219	91	38	37	28	12	10	3	135	84	0
Plague	0	0	0	0	0	0	0	0	0	0	0
Syphilis	8	0	0	0	5	2	0	1	4	4	0
Typhus	28	2	4	8	9	4	1	0	16	12	0
Viral Hepatitis C	100	0	0	1	29	31	31	8	73	27	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 measles, Brucellosis, typhoid fever, parasitic worms 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, 2010

	TOTAL	North	Beqaa	Nabatieh	South	Mount-Lebanon	Beirut	Unknown
Vaccine Preventable Diseases								
Acute Flaccid Paralysis	35	9	2	3	1	13	7	0
Acute Poliomyelitis	0	0	0	0	0	0	0	0
Diphtheria	0	0	0	0	0	0	0	0
Measles	11	3	2	1	2	3	0	0
Mumps	28	9	5	2	7	5	0	0
Pertussis	19	8	0	0	4	2	4	1
Rabies	1	0	1	0	0	0	0	0
Rubella	5	0	2	0	0	2	1	0
Tetanus	2	2	0	0	0	0	0	0
tetanus neonatal	0	0	0	0	0	0	0	0
Viral Hepatitis B	244	23	11	22	55	75	18	40
Food & Water Borne Diseases								
Brucellosis	303	53	39	23	46	120	14	8
Cholera	0	0	0	0	0	0	0	0
D senter	252	22	3	0	2	213	9	3
Food Poisoning	483	175	11	12	70	167	23	25
H datic C st	14	0	5	2	0	6	0	1
Parasitic Worms	20	0	0	0	0	2	18	0
Trichinosis	0	0	0	0	0	0	0	0
T phoid Feve	572	105	112	61	38	211	38	7
Viral Hepatitis A	323	73	111	27	19	78	10	5
Other Diseases								
Bilharziasis	1	0	0	0	0	1	0	0
Creutzfeld Jakob Disease	1	1	0	0	0	0	0	0
Ebola	0	0	0	0	0	0	0	0
Gonorrhea	5	0	1	0	0	3	0	1
Leishmaniasis	6	0	0	0	0	0	3	3
Lepros	2	1	0	0	0	0	0	1
Malari	33	7	0	2	1	15	4	4
Meningitis	219	72	19	22	32	61	13	0
Pla ue	0	0	0	0	0	0	0	0
S philis	8	0	0	2	1	2	1	2
Typhus	28	2	1	1	1	20	2	1
Viral Hepatitis C	100	15	2	10	13	28	18	14
Yellow Feve	0	0	0	0	0	0	0	0

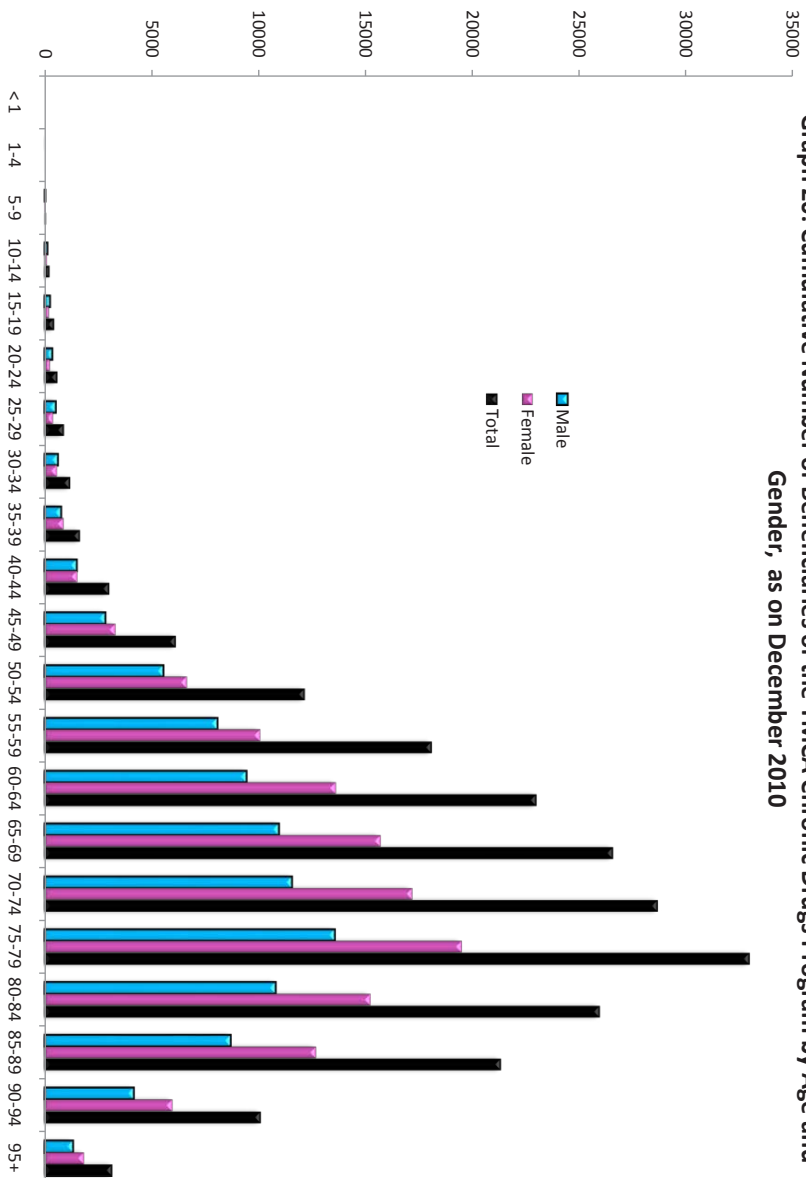
The distribution of the diseases across the Mohafazats showed that the number of reported cases of Mumps, food poisoning and meningitis are highest in the North, and viral hepatitis A is highest in the Beqaa, while AFP, Typhoid fever, viral Hep B and C, typhus, Malaria, Dysentery and Brucellosis are highest in Mount Lebanon.

Table 16: National Immunization Coverage Rates For Polio by Qada, 2010

Qada	OPV3 %	القضاء
Batroun	92	البترون
West Beqaa	97	البقاع الغربي
Chouf	97	الشوف
Koura	92	الكورة
Metn	94	المتن
Nabatieh	96	النبطية
Hermel	93	الهرميل
Bcharri	94	بشري
Baabda	95	بعبدا
Baalback	91	بعلبك
Bint Jbeil	94	بنت جبيل
Beirut	92	بيروت
Jbeil	95	جبيل
Jezzine	92	جزين
Hasbaya	91	حاصبيا
Rachaya	97	راشيا
Zahleh	93	زحلة
Zgharta	94	زغرتا
Sour	92	صور
Saida	94	صيدا
Minieh-Dhennieh	88	المنية الضنية
Tripoli	92	طرابلس
Aley	95	عاليه
Akkar	94	عكار
Kesserwan	97	كسروان
Marjeyoun	93	مرجعيون
Total	94	المجموع

OPV3 immunization rates are highest in west Beqaa, Chouf, Rachaya and Kesserwan with 97%, while the lowest immunization rate is for that of Minieh-Dhennieh district with 88%. The national average is 94%. National averages for DPT3, measles and HBV3 are 94%, 95% and 94%, respectively. It is worth approaching the coverage figures with caution regarding possible denominator errors related to place of origin as compared to the actual place of residence of the population.

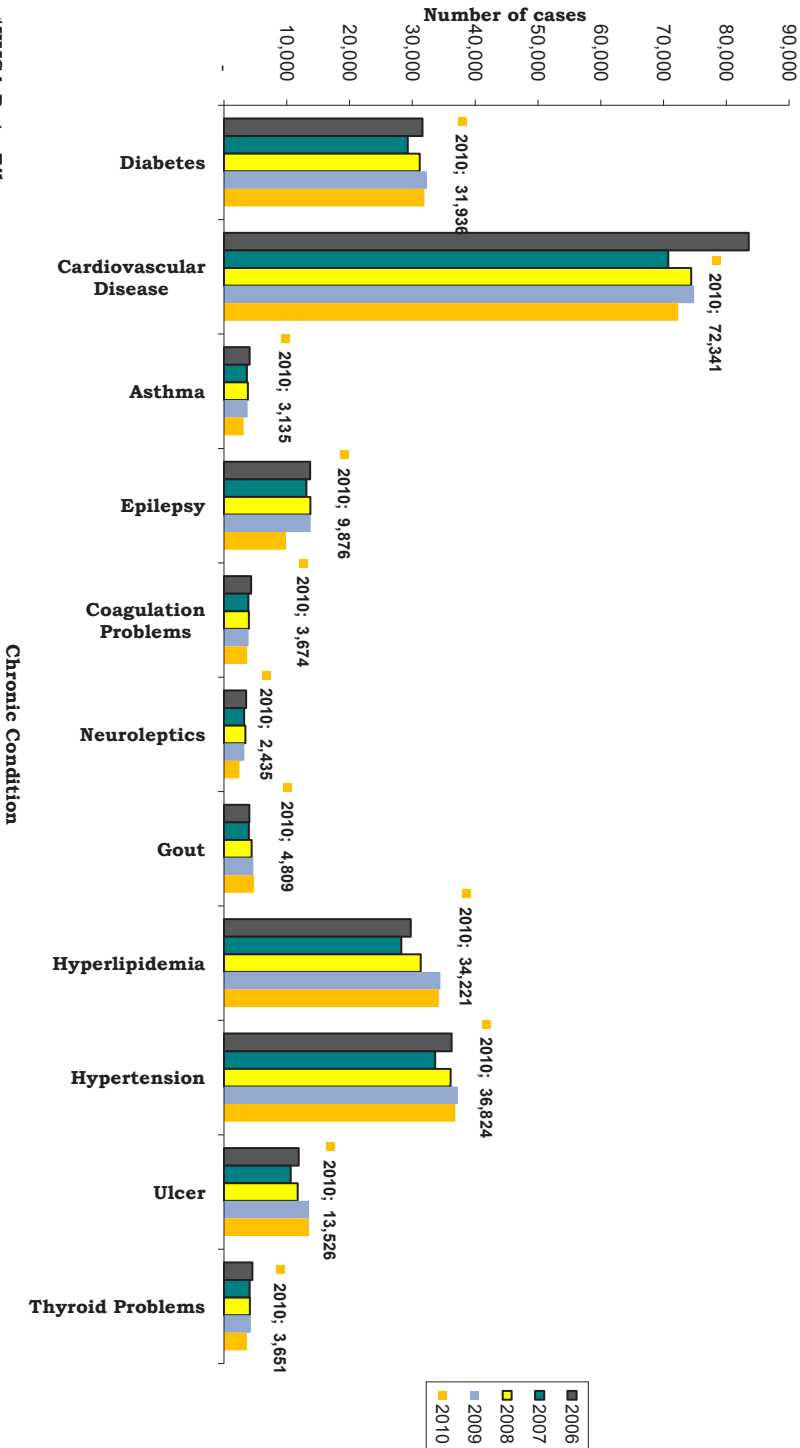
Graph 20: Cumulative Number of Beneficiaries of the YMCA Chronic Drugs Program by Age and Gender, as on December 2010



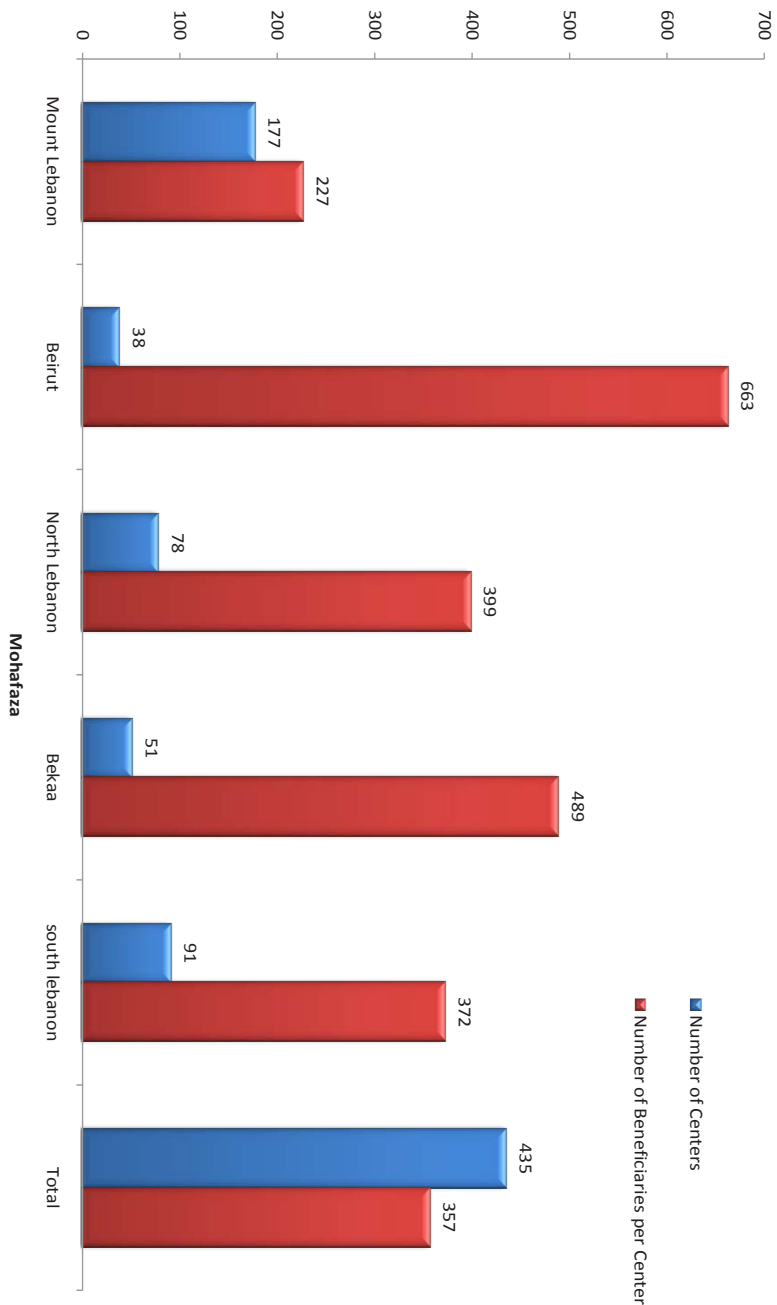
The MOPH contracts with the Young Male Christian Association (YMCA) to purchase and distribute chronic diseases drugs in health centers all over Lebanon. So far, beneficiaries belong mostly to the age groups 55 and older, and females benefit from the program more than males.

Over the years beneficiaries have slightly increased in number across all categories of chronic conditions, while keeping the same trend of prevalence with cardiovascular disease being the most prevalent followed respectively by Hypertension, Hyperlipidemia and Diabetes. The numbers of 2006 remain higher, though due to the 2006 war which resulted in higher unexpected coverage irrespective of eligibility.

Graph 21: Cases of Chronic Conditions*, 2006-2010



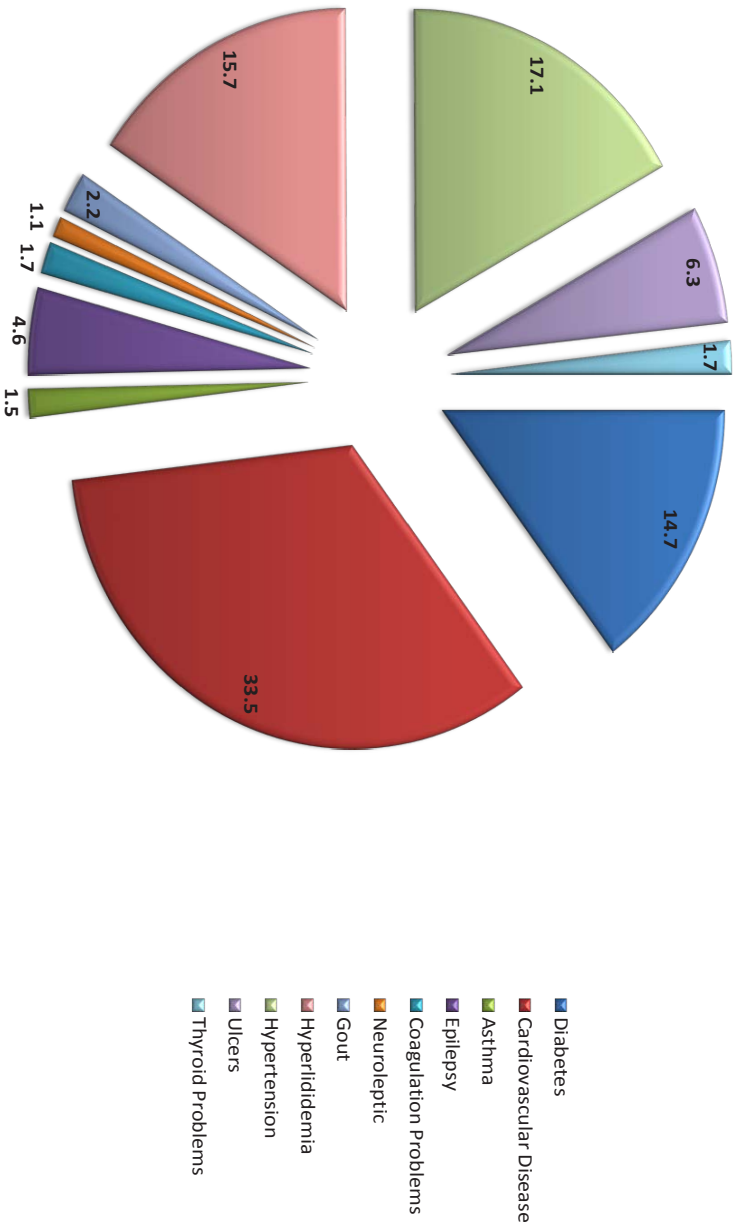
Graph 22: Number of Socio-medical Centers and Number of Beneficiaries Per Center by Mohafaza, YMCA, 2010



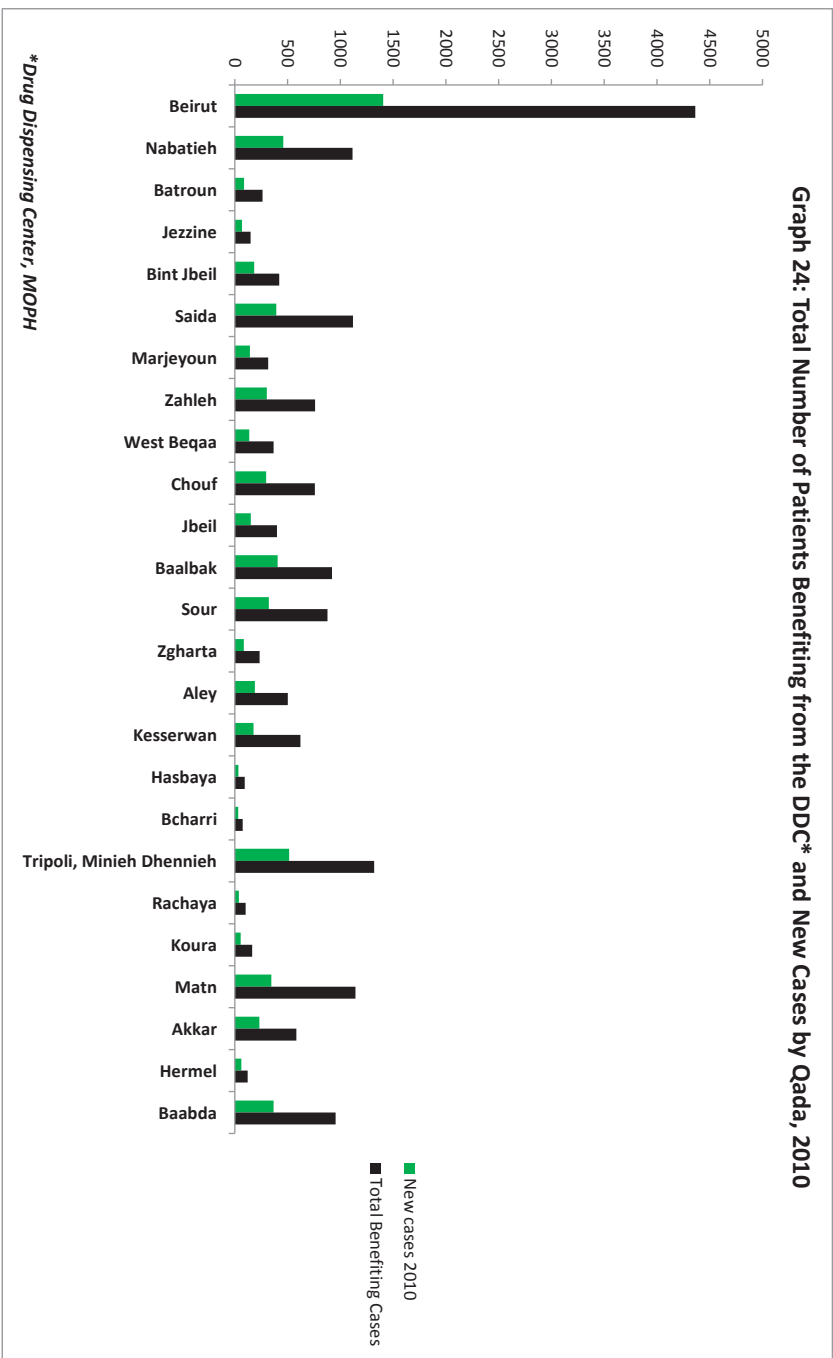
In 2010, there were 155,219 beneficiaries registered in the YMCA medical charts distributed over 435 centers in all Mohafazas with the majority in Mount Lebanon (177 centers). The Number of beneficiaries per center is highest in Beirut, though, and lowest in Mount Lebanon.

The prevalence of cardiovascular disease is highest among YMCA beneficiaries with 33.5 %, followed by Hypertension (17.1%), Hyperlipidemia (15.7%), and Diabetes (14.7%).

Graph 23: Percent Prevalence of Chronic Conditions Among Users, YMCA 2010

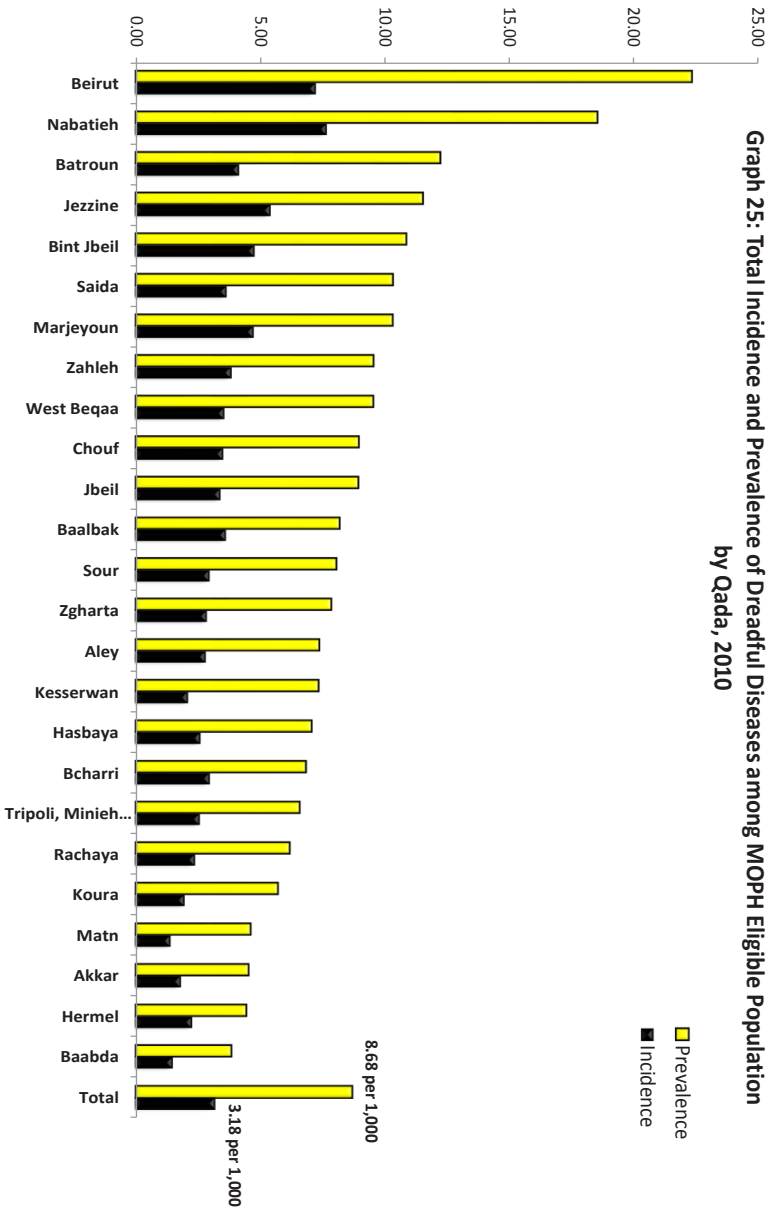


The Drug Dispensing Center (DDC) of the MOPH distributes drugs free of charge for all eligible patients across categories of dreadful diseases. The budget of drug procurement, which is increasing year after year, is still not enough considering the increase in the number of cases of some diseases from one part, and the increase in the prices of some imported drugs due to the change in currencies. Cancer cases are still consuming the majority of the budget. The majority of the beneficiaries are from Beirut, followed by Tripoli-Minieh-Dhennieh, and the lowest number of beneficiaries belongs to Bcharri.



Assuming that all those who have benefited from the dreadful disease drug supply program are still alive, the prevalence rate of those diseases in the eligible population for MOPH coverage is 8.68 per 1000. We have no data to support this prevalence rate, though, as no follow-up for these beneficiaries exist once they cease coming for their medication. Assuming all eligible for MOPH coverage benefit from the program, the incidence rate for these diseases among beneficiaries is 3.18 per 1000 with the highest rate occurring in Nabatieh, followed by Beirut, and the lowest is in Metn. Further investigation for these cases is needed to retain or correct the prevalence and incidence rates so stated.

Graph 25: Total Incidence and Prevalence of Dreadful Diseases among MOPH Eligible Population by Qada, 2010



[illegible]