

Appendix 1 - 35% Health Care Impact on Trusts

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
1	36	0.1%	4457	103	31	8	137,910	85	170	425	8,500	849	21	42
2	51	0.2%	4457	103	45	11	137,910	120	241	602	8,500	1,203	30	60
3	205	0.8%	4457	103	179	45	137,910	484	967	2,418	8,500	4,837	121	242
4	780	3.1%	4457	103	681	170	137,910	1,840	3,680	9,201	8,500	18,402	460	920
5	2,638	10.6%	4457	103	2303	576	137,910	6,224	12,448	31,119	8,500	62,238	1,556	3,112
6	5,388	21.6%	4457	103	4703	1176	137,910	12,712	25,424	63,559	8,500	127,118	3,178	6,356
7	5,290	21.2%	4457	103	4618	1154	137,910	12,481	24,961	62,403	8,500	124,806	3,120	6,240
8	3,568	14.3%	4457	103	3115	779	137,910	8,418	16,836	42,090	8,500	84,179	2,104	4,209
9	2,428	9.7%	4457	103	2119	530	137,910	5,728	11,457	28,642	8,500	57,283	1,432	2,864
10	1,886	7.5%	4457	103	1646	412	137,910	4,450	8,899	22,248	8,500	44,496	1,112	2,225
11	1,308	5.2%	4457	103	1142	285	137,910	3,086	6,172	15,430	8,500	30,859	771	1,543
12	651	2.6%	4457	103	568	142	137,910	1,536	3,072	7,679	8,500	15,359	384	768
13	392	1.6%	4457	103	342	86	137,910	925	1,850	4,624	8,500	9,248	231	462
14	216	0.9%	4457	103	189	47	137,910	510	1,019	2,548	8,500	5,096	127	255
15	164	0.7%	4457	103	143	36	137,910	387	774	1,935	8,500	3,869	97	193
All weeks	25,001	100%	66855	1545	21824	5456	2,068,656	58,984	117,969	294,922	127,500	589,843	14,746	29,492

Of those infected:									
Population	Infected (35%)	Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
1685267	589843	21824	5456	58984	117969	294922	589843	14746	29492
100000	35000	1295	324	3500	7000	17500	35000	875	1750

Population figure is from 2001 Census. Source: NISRA.

¹ Average available acute beds during 2005/06 within Acute Programme of Care only. Summation of the Trusts average available beds may not total the NI figure due to rounding

² Critical Care beds include HDU and ICU as at 31st March 2005 - Information provided by HSS Trusts

³ It is estimated that on average about 72% of beds are occupied by emergency patients.

⁴ GP consultation figure has been calculated based on Average Number of NHS GP Consultations over a 14 days period during 2004/05 (Source: CHS) Total during year 7,171,339, equating to 137,910 per week.

⁵ Out of Hour centres have a call rate of 500 per 100,000 per week, equating to 8500 calls per week for NI.. Please note this rate can double during the Christmas period.

Over 15 week cycle:

Number of hospitalisations not requiring critical care (75% of hospitalisations)	16368 patients
Average length of stay in hospital for patients not requiring critical care	6 days
Total days attributed to flu for patient not requiring critical care	98209 days
Number of hospitalisations requiring critical care (25% of hospitalisations)	5456 patients
Average length of stay in hospital for patients requiring critical care	10 days
Total days attributed to flu for patient requiring critical care	54561 days

BELFAST

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
													2.50%	5%
1	36	0.1%	1776	145	6	1		16	32	79		158	4	8
2	51	0.2%	1776	145	8	2		22	45	112		224	6	11
3	205	0.8%	1776	145	33	8		90	180	449		899	22	45
4	780	3.1%	1776	145	127	32		342	684	1,710		3,420	85	171
5	2,638	10.6%	1776	145	428	107		1,157	2,313	5,783		11,566	289	578
6	5,388	21.6%	1776	145	874	219		2,362	4,725	11,811		23,623	591	1,181
7	5,290	21.2%	1776	145	858	215		2,319	4,639	11,597		23,193	580	1,160
8	3,568	14.3%	1776	145	579	145		1,564	3,129	7,822		15,643	391	782
9	2,428	9.7%	1776	145	394	98		1,065	2,129	5,323		10,645	266	532
10	1,886	7.5%	1776	145	306	76		827	1,654	4,134		8,269	207	413
11	1,308	5.2%	1776	145	212	53		573	1,147	2,867		5,735	143	287
12	651	2.6%	1776	145	106	26		285	571	1,427		2,854	71	143
13	392	1.6%	1776	145	64	16		172	344	859		1,719	43	86
14	216	0.9%	1776	145	35	9		95	189	474		947	24	47
15	164	0.7%	1776	145	27	7		72	144	360		719	18	36
All weeks	25,001	100%	26639	2175	4056	1014	0	10,961	21,923	54,806	0	109,613	2,740	5,481

Population	Infected (35%)	Of those infected:							
		Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
313179	109612.65	4055.66805	1013.917013	10961.265	21922.53	54806.325	109612.65	2740	5481

Population figure is from 2001 Census. Source: NISRA.

Population figures have been obtained by adding the populations of the Census Output Areas which are closest (based on travel time) to a particular hospital located within the HSS Trust.

Belfast City & Belvoir Park NICCO Hospitals were included in the calculation for the population total of the Trust.

¹ Average available acute beds during 2005/06 within Acute Programme of Care only

² Critical Care beds include HDU and ICU as at 31st March 2005 - Information provided by HSS Trusts

³ It is estimated that on average about 72% of beds are occupied by emergency patients.

⁴ GP consultation figure is not available at Trust level

⁵ Out of Hour centres have a call rate of 500 per 100,000 per week, equating to 8500 calls per week for NI.. Please note this rate can double during the Christmas period. No rate is available at Trust level.

SOUTH EASTERN

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
												2.50%	5%	
1	36	0.1%	654	12	7	2	18	35	88	177	4	9		
2	51	0.2%	654	12	9	2	25	50	125	250	6	13		
3	205	0.8%	654	12	37	9	101	201	503	1,005	25	50		
4	780	3.1%	654	12	142	35	383	765	1,913	3,825	96	191		
5	2,638	10.6%	654	12	479	120	1,294	2,587	6,468	12,936	323	647		
6	5,388	21.6%	654	12	978	244	2,642	5,284	13,211	26,422	661	1,321		
7	5,290	21.2%	654	12	960	240	2,594	5,188	12,971	25,941	649	1,297		
8	3,568	14.3%	654	12	647	162	1,750	3,499	8,748	17,497	437	875		
9	2,428	9.7%	654	12	441	110	1,191	2,381	5,953	11,907	298	595		
10	1,886	7.5%	654	12	342	86	925	1,850	4,624	9,249	231	462		
11	1,308	5.2%	654	12	237	59	641	1,283	3,207	6,414	160	321		
12	651	2.6%	654	12	118	30	319	638	1,596	3,192	80	160		
13	392	1.6%	654	12	71	18	192	384	961	1,922	48	96		
14	216	0.9%	654	12	39	10	106	212	530	1,059	26	53		
15	164	0.7%	654	12	30	7	80	161	402	804	20	40		
All weeks	25,001	100%	9810	180	4536	1134	0	12,260	24,520	61,301	0	122,602	3,065	6,130

Population	Infected (35%)	Of those infected:							
		Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
350290	122601.5	4536.2555	1134.063875	12260.15	24520.3	61300.75	122601.5	3065	6130

Population figure is from 2001 Census. Source: NISRA.

Population figures have been obtained by adding the populations of the Census Output Areas which are closest (based on travel time) to a particular hospital located within the HSS Trust.

Belfast City & Belvoir Park NICCO Hospitals were included in the calculation for the population total of the Trust.

¹ Average available acute beds during 2005/06 within Acute Programme of Care only

² Critical Care beds include HDU and ICU as at 31st March 2005 - Information provided by HSS Trusts

³ It is estimated that on average about 72% of beds are occupied by emergency patients.

⁴ GP consultation figure is not available at Trust level

⁵ Out of Hour centres have a call rate of 500 per 100,000 per week, equating to 8500 calls per week for NI.. Please note this rate can double during the Christmas period. No rate is available at Trust level.

NORTHERN

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
													2.50%	5%
1	36	0.1%	843	17	8	2	22	45	111		223	6	11	
2	51	0.2%	843	17	12	3	32	63	158		316	8	16	
3	205	0.8%	843	17	47	12	127	254	635		1,269	32	63	
4	780	3.1%	843	17	179	45	483	966	2,415		4,829	121	241	
5	2,638	10.6%	843	17	604	151	1,633	3,267	8,167		16,333	408	817	
6	5,388	21.6%	843	17	1234	309	3,336	6,672	16,680		33,360	834	1,668	
7	5,290	21.2%	843	17	1212	303	3,275	6,551	16,377		32,753	819	1,638	
8	3,568	14.3%	843	17	817	204	2,209	4,418	11,046		22,091	552	1,105	
9	2,428	9.7%	843	17	556	139	1,503	3,007	7,517		15,033	376	752	
10	1,886	7.5%	843	17	432	108	1,168	2,335	5,839		11,677	292	584	
11	1,308	5.2%	843	17	300	75	810	1,620	4,049		8,099	202	405	
12	651	2.6%	843	17	149	37	403	806	2,015		4,031	101	202	
13	392	1.6%	843	17	90	22	243	485	1,214		2,427	61	121	
14	216	0.9%	843	17	49	12	134	267	669		1,337	33	67	
15	164	0.7%	843	17	38	9	102	203	508		1,015	25	51	
All weeks	25,001	100%	12645	255	5727	1432	0	15,479	30,959	77,397	0	154,794	3,870	7,740

Population	Infected (35%)	Of those infected:							
		Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
442269	154794.15	5727.38355	1431.845888	15479.415	30958.83	77397.075	154794.15	3870	7740

Population figure is from 2001 Census. Source: NISRA.

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¹ Average available acute beds during 2005/06 within Acute Programme of Care only

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SOUTHERN

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
1	36	0.1%	563	13	6	1		16	31	79		157	4	8
2	51	0.2%	563	13	8	2		22	45	111		223	6	11
3	205	0.8%	563	13	33	8		89	179	447		894	22	45
4	780	3.1%	563	13	126	31		340	681	1,702		3,403	85	170
5	2,638	10.6%	563	13	426	106		1,151	2,302	5,755		11,510	288	576
6	5,388	21.6%	563	13	870	217		2,351	4,702	11,755		23,510	588	1,175
7	5,290	21.2%	563	13	854	214		2,308	4,616	11,541		23,082	577	1,154
8	3,568	14.3%	563	13	576	144		1,557	3,114	7,784		15,568	389	778
9	2,428	9.7%	563	13	392	98		1,059	2,119	5,297		10,594	265	530
10	1,886	7.5%	563	13	304	76		823	1,646	4,115		8,229	206	411
11	1,308	5.2%	563	13	211	53		571	1,141	2,854		5,707	143	285
12	651	2.6%	563	13	105	26		284	568	1,420		2,841	71	142
13	392	1.6%	563	13	63	16		171	342	855		1,710	43	86
14	216	0.9%	563	13	35	9		94	188	471		942	24	47
15	164	0.7%	563	13	26	7		72	143	358		716	18	36
All weeks	25,001	100%	8445	195	4036	1009	0	10,909	21,818	54,544	0	109,088	2,727	5,454

Population	Infected (35%)	Of those infected:							
		Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
311679	109087.65	4036.24305	1009.060763	10908.765	21817.53	54543.825	109087.65	2727	5454

Population figure is from 2001 Census. Source: NISRA.

Population figures have been obtained by adding the populations of the Census Output Areas which are closest (based on travel time) to a particular hospital located within the HSS Trust.

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WESTERN

DHSSPSNI capacity and possible pandemic flu demand over 15 week cycle

Week	Cases per 100,000	% of overall total	Acute Hospital Beds				GP Consultations			Out of Hour Centres		Deaths		
			Normal availability		Estimated additional demand ³		Normal weekly consultations ⁴	Estimated additional demand			Normal weekly calls ⁵			Estimated additional demand
			All acute beds ¹	Critical care beds only ²	All acute beds ¹	Critical care beds only ²		10%	20%	50%				
												2.50%	5%	
1	36	0.1%	622	19	5	1		13	27	67		135	3	7
2	51	0.2%	622	19	7	2		19	38	96		191	5	10
3	205	0.8%	622	19	28	7		77	154	384		769	19	38
4	780	3.1%	622	19	108	27		292	585	1,462		2,925	73	146
5	2,638	10.6%	622	19	366	91		989	1,978	4,946		9,892	247	495
6	5,388	21.6%	622	19	748	187		2,020	4,041	10,102		20,204	505	1,010
7	5,290	21.2%	622	19	734	183		1,984	3,967	9,918		19,836	496	992
8	3,568	14.3%	622	19	495	124		1,338	2,676	6,690		13,379	334	669
9	2,428	9.7%	622	19	337	84		910	1,821	4,552		9,104	228	455
10	1,886	7.5%	622	19	262	65		707	1,414	3,536		7,072	177	354
11	1,308	5.2%	622	19	181	45		490	981	2,452		4,905	123	245
12	651	2.6%	622	19	90	23		244	488	1,221		2,441	61	122
13	392	1.6%	622	19	54	14		147	294	735		1,470	37	73
14	216	0.9%	622	19	30	7		81	162	405		810	20	40
15	164	0.7%	622	19	23	6		61	123	307		615	15	31
All weeks	25,001	100%	9330	285	3469	867	0	9,375	18,750	46,874	0	93,748	2,344	4,687

Population	Infected (35%)	Of those infected:							
		Hospitalisations (3.7%)	Critical Care (25% of hospitalisations)	GP Consultations (10%)	GP Consultations (20%)	GP Consultations (50%)	Out of Hours (100%)	Deaths (2.5%)	Deaths (5%)
267850	93747.5	3468.6575	867.164375	9374.75	18749.5	46873.75	93747.5	2344	4687

Population figure is from 2001 Census. Source: NISRA.

Population figures have been obtained by adding the populations of the Census Output Areas which are closest (based on travel time) to a particular hospital located within the HSS Trust.

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