

Appendix 1 - 25% 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%					
										2.50%			5%		
1	36	0.1%	4457	103	22	6	137,910	61	121	303	8,500	607	15	30	
2	51	0.2%	4457	103	32	8	137,910	86	172	430	8,500	859	21	43	
3	205	0.8%	4457	103	128	32	137,910	345	691	1,727	8,500	3,455	86	173	
4	780	3.1%	4457	103	486	122	137,910	1,314	2,629	6,572	8,500	13,145	329	657	
5	2,638	10.6%	4457	103	1645	411	137,910	4,446	8,891	22,228	8,500	44,456	1,111	2,223	
6	5,388	21.6%	4457	103	3360	840	137,910	9,080	18,160	45,399	8,500	90,799	2,270	4,540	
7	5,290	21.2%	4457	103	3298	825	137,910	8,915	17,829	44,574	8,500	89,147	2,229	4,457	
8	3,568	14.3%	4457	103	2225	556	137,910	6,013	12,026	30,064	8,500	60,128	1,503	3,006	
9	2,428	9.7%	4457	103	1514	378	137,910	4,092	8,183	20,458	8,500	40,917	1,023	2,046	
10	1,886	7.5%	4457	103	1176	294	137,910	3,178	6,357	15,891	8,500	31,783	795	1,589	
11	1,308	5.2%	4457	103	816	204	137,910	2,204	4,408	11,021	8,500	22,042	551	1,102	
12	651	2.6%	4457	103	406	101	137,910	1,097	2,194	5,485	8,500	10,971	274	549	
13	392	1.6%	4457	103	244	61	137,910	661	1,321	3,303	8,500	6,606	165	330	
14	216	0.9%	4457	103	135	34	137,910	364	728	1,820	8,500	3,640	91	182	
15	164	0.7%	4457	103	102	26	137,910	276	553	1,382	8,500	2,764	69	138	
All weeks	25,001	100%	66855	1545	15589	3897	2,068,656	42,132	84,263	210,658	127,500	421,317	10,533	21,066	

Population	Infected (25%)	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%)
1685267	421317	15589	3897	42132	84263	210658	421317	10533	21066
100000	25000	925	231	2500	5000	12500	25000	625	1250

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)	11692 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	70149 days
Number of hospitalisations requiring critical care (25% of hospitalisations)	3897 patients
Average length of stay in hospital for patients requiring critical care	10 days
Total days attributed to flu for patient requiring critical care	38972 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	4	1		11	23	56		113	3	6
2	51	0.2%	1776	145	6	1		16	32	80		160	4	8
3	205	0.8%	1776	145	24	6		64	128	321		642	16	32
4	780	3.1%	1776	145	90	23		244	489	1,221		2,443	61	122
5	2,638	10.6%	1776	145	306	76		826	1,652	4,131		8,261	207	413
6	5,388	21.6%	1776	145	624	156		1,687	3,375	8,437		16,873	422	844
7	5,290	21.2%	1776	145	613	153		1,657	3,313	8,283		16,567	414	828
8	3,568	14.3%	1776	145	413	103		1,117	2,235	5,587		11,174	279	559
9	2,428	9.7%	1776	145	281	70		760	1,521	3,802		7,604	190	380
10	1,886	7.5%	1776	145	219	55		591	1,181	2,953		5,906	148	295
11	1,308	5.2%	1776	145	152	38		410	819	2,048		4,096	102	205
12	651	2.6%	1776	145	75	19		204	408	1,019		2,039	51	102
13	392	1.6%	1776	145	45	11		123	246	614		1,228	31	61
14	216	0.9%	1776	145	25	6		68	135	338		676	17	34
15	164	0.7%	1776	145	19	5		51	103	257		514	13	26
All weeks	25,001	100%	26639	2175	2897	724	0	7,829	15,659	39,147	0	78,295	1,957	3,915

Population	Infected (25%)	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	78294.75	2896.90575	724.2264375	7829.475	15658.95	39147.375	78294.75	1957	3915

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				Normal weekly consultations ⁴	GP Consultations			Out of Hour Centres		Deaths	
			Normal availability		Estimated additional demand ³			Normal weekly calls ⁵	Estimated additional demand	2.50%	5%			
			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%	654	12	5	1	13	25	63	126	3	6		
2	51	0.2%	654	12	7	2	18	36	89	179	4	9		
3	205	0.8%	654	12	27	7	72	144	359	718	18	36		
4	780	3.1%	654	12	101	25	273	546	1,366	2,732	68	137		
5	2,638	10.6%	654	12	342	85	924	1,848	4,620	9,240	231	462		
6	5,388	21.6%	654	12	698	175	1,887	3,775	9,436	18,873	472	944		
7	5,290	21.2%	654	12	686	171	1,853	3,706	9,265	18,530	463	926		
8	3,568	14.3%	654	12	462	116	1,250	2,500	6,249	12,498	312	625		
9	2,428	9.7%	654	12	315	79	850	1,701	4,252	8,505	213	425		
10	1,886	7.5%	654	12	244	61	661	1,321	3,303	6,606	165	330		
11	1,308	5.2%	654	12	170	42	458	916	2,291	4,582	115	229		
12	651	2.6%	654	12	84	21	228	456	1,140	2,280	57	114		
13	392	1.6%	654	12	51	13	137	275	687	1,373	34	69		
14	216	0.9%	654	12	28	7	76	151	378	757	19	38		
15	164	0.7%	654	12	21	5	57	115	287	574	14	29		
All weeks	25,001	100%	9810	180	3240	810	0	8,757	17,515	43,786	0	87,573	2,189	4,379

Population	Infected (25%)	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	87572.5	3240.1825	810.045625	8757.25	17514.5	43786.25	87572.5	2189	4379

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	6	1	16	32	80	159	4	8		
2	51	0.2%	843	17	8	2	23	45	113	226	6	11		
3	205	0.8%	843	17	34	8	91	181	453	907	23	45		
4	780	3.1%	843	17	128	32	345	690	1,725	3,450	86	172		
5	2,638	10.6%	843	17	432	108	1,167	2,333	5,833	11,667	292	583		
6	5,388	21.6%	843	17	882	220	2,383	4,766	11,914	23,829	596	1,191		
7	5,290	21.2%	843	17	866	216	2,340	4,679	11,698	23,395	585	1,170		
8	3,568	14.3%	843	17	584	146	1,578	3,156	7,890	15,780	394	789		
9	2,428	9.7%	843	17	397	99	1,074	2,148	5,369	10,738	268	537		
10	1,886	7.5%	843	17	309	77	834	1,668	4,170	8,341	209	417		
11	1,308	5.2%	843	17	214	54	578	1,157	2,892	5,785	145	289		
12	651	2.6%	843	17	107	27	288	576	1,440	2,879	72	144		
13	392	1.6%	843	17	64	16	173	347	867	1,734	43	87		
14	216	0.9%	843	17	35	9	96	191	478	955	24	48		
15	164	0.7%	843	17	27	7	73	145	363	725	18	36		
All weeks	25,001	100%	12645	255	4091	1023	0	11,057	22,113	55,284	0	110,567	2,764	5,528

Population	Infected (25%)	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	110567.25	4090.98825	1022.747063	11056.725	22113.45	55283.625	110567.25	2764	5528

Population figure is from 2001 Census. Source: NISRA.

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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%				
												2.50%	5%	
1	36	0.1%	563	13	4	1	11	22	56		112	3	6	
2	51	0.2%	563	13	6	1	16	32	79		159	4	8	
3	205	0.8%	563	13	24	6	64	128	319		639	16	32	
4	780	3.1%	563	13	90	22	243	486	1,215		2,431	61	122	
5	2,638	10.6%	563	13	304	76	822	1,644	4,111		8,222	206	411	
6	5,388	21.6%	563	13	621	155	1,679	3,359	8,396		16,793	420	840	
7	5,290	21.2%	563	13	610	153	1,649	3,297	8,244		16,487	412	824	
8	3,568	14.3%	563	13	411	103	1,112	2,224	5,560		11,120	278	556	
9	2,428	9.7%	563	13	280	70	757	1,513	3,784		7,567	189	378	
10	1,886	7.5%	563	13	217	54	588	1,176	2,939		5,878	147	294	
11	1,308	5.2%	563	13	151	38	408	815	2,038		4,077	102	204	
12	651	2.6%	563	13	75	19	203	406	1,014		2,029	51	101	
13	392	1.6%	563	13	45	11	122	244	611		1,222	31	61	
14	216	0.9%	563	13	25	6	67	135	337		673	17	34	
15	164	0.7%	563	13	19	5	51	102	256		511	13	26	
All weeks	25,001	100%	8445	195	2883	721	0	7,792	15,584	38,960	0	77,920	1,948	3,896

Population	Infected (25%)	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	77919.75	2883.03075	720.7576875	7791.975	15583.95	38959.875	77919.75	1948	3896

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	4	1		10	19	48		96	2	5
2	51	0.2%	622	19	5	1		14	27	68		137	3	7
3	205	0.8%	622	19	20	5		55	110	275		549	14	27
4	780	3.1%	622	19	77	19		209	418	1,045		2,089	52	104
5	2,638	10.6%	622	19	261	65		707	1,413	3,533		7,066	177	353
6	5,388	21.6%	622	19	534	133		1,443	2,886	7,216		14,431	361	722
7	5,290	21.2%	622	19	524	131		1,417	2,834	7,084		14,169	354	708
8	3,568	14.3%	622	19	354	88		956	1,911	4,778		9,557	239	478
9	2,428	9.7%	622	19	241	60		650	1,301	3,252		6,503	163	325
10	1,886	7.5%	622	19	187	47		505	1,010	2,526		5,051	126	253
11	1,308	5.2%	622	19	130	32		350	701	1,752		3,503	88	175
12	651	2.6%	622	19	65	16		174	349	872		1,744	44	87
13	392	1.6%	622	19	39	10		105	210	525		1,050	26	52
14	216	0.9%	622	19	21	5		58	116	289		579	14	29
15	164	0.7%	622	19	16	4		44	88	220		439	11	22
All weeks	25,001	100%	9330	285	2478	619	0	6,696	13,393	33,481	0	66,963	1,674	3,348

Population	Infected (25%)	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	66962.5	2477.6125	619.403125	6696.25	13392.5	33481.25	66962.5	1674	3348

Population figure is from 2001 Census. Source: NISRA.

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