Supplemental Digial Content Table 1: Mean and 95% Confidence Intervals for individually calculated reduction in on-going costs and life-time savings based on period life expectancy

		0			1		Life ex	opexctancy gro 2	oup		3	4					Whole sample minus PDOC (Active rehabilitation sample only)			Whole Life expectancy sample		
	PVS n=289		Cannot walk, Fed by others n=444			Cannot walk, Self feeds n=961		Some walking n=648			Walks alone n=1235			(Life expectancy groups 1-4) n=3289			(Life expectancy groups 0-4) n=3578					
	Mean	95% Confider Lower	nce Interval Upper	Mean	95% Confiden Lower		Mean	95% Confiden Lower	nce Interval Upper	Mean	95% Confider Lower	nce Interval Upper	Mean	95% Confide Lower	nce Interval Upper	Mean	95% Confi Lower	dence Interval Upper	Mean	95% Confide Lower	nce Interv Upper	
NPDS total scores		n=259 Missing			n=418 Missing	Upper 31 (3%)			26 (3%)		1=633 Missing			n=1204 Missi		n= 3	Lower		n= 3450 N			
Admission	55.2	54.0	56.4	51.8	50.9	52.9	40.5	39.4	41.5	27.5	26.2	28.8	20.6	19.7	21.5	3	1.9 31	2 32.6	33.6	33.0	34	
Discharge	54.1	53.1	55.3	48.6	47.5	49.8	26.5	25.5	27.5	10.6	10.0	11.2	7.6		8.0		9.1 18		21.7	21.1	22	
Change	-1.0	-2.1	0.0	-3.2	-4.3	-2.1	-14.0	-15.1	-13.1	-16.9	-18.2	-15.6	-13.0	-13.8	-12.2	-1	2.8 -13	3 -12.3	-11.9	-12.4	-11	
NPCNA-estimated Care Hours/week	63 0	C1 1	C 2 0	63 F	C1 C	C 2 2	54.2	F2 4	FF 4	20.0	20.4	41.2	20.2	20.4	20.2		2.0 42	2 42 7		42.0	45	
Admission Discharge	62.0 62.2	61.1 61.4	62.8 63.0	62.5 60.5	61.6 59.5	63.3 61.6	54.2 40.0	53.1 38.8	55.1 41.2	39.8 20.3	38.4 19.4	41.3 21.2	29.3 14.6	28.4 14.1	30.2 15.2		3.0 42 9.2 28		44.4	43.8 31.0	45. 32.	
Change	0.2	-0.5	1.0	-2.0	-2.9	-1.0	-14.2	-15.4	-13.0	-19.5	-21.0	-18.1	-14.6	-15.5	-13.8		3.8 -14		-12.8	-13.4	-12.	
NPCNA-estimated care costs per week																						
Admission	£2,641	£2,581	£2,696	£2,518	£2,461	£2,575	£2,041	£1,984	£2,093	£1,440	£1,371	£1,511	£1,171	£1,129	£1,214	£1,655	.84 £1,624.4	0 £1,687.86	£1,730	£1,699	£1,76	
Discharge	£2,618	£2,564	£2,676	£2,411	£2,346	£2,475	£1,423	£1,360	£1,484	£670	£627	£716	£550	£518	£582	£1,073	.68 £1,042.6	3 £1,107.09	£1,190	£1,157	£1,22	
Reduction in care costs	£13	-£45	£75	£94	£28	£160	£624	£567	£685	£767	£694	£839	£643	£596	£691	£	589 £55	6 £619	£545	£517	£57	
			(4.40())			00()			(60)						0 (110)						(00)	
Cost data Episode cost	n=249 £70,491	Missing n=40 (£64,648	(14%) £76,373	n=404 £70,073	Missing n=40 (£65,492	<mark>9%)</mark> £74,515	n=900 £52,455	Missing n=61 £49,779	. <mark>(6%)</mark> £55,485	n= 603 £31,266	Missing n=45 £28,919	£33,627	n=1103 £25,266	Missing n=13 £23,785	2 (11%) £26,742	n=30 £40,	1 <mark>0 Missing n=2</mark> 5 12 £39,26	. ,	n=3259 N £42,894	<mark>lissing n=319</mark> £41,512	(9%) £44,23	
Annual savings in care costs	£70,491 £674	£64,648 -£2,335	£76,373 £3,924	£70,073 £4,872	£65,492 £1,462	£74,515 £8,340	£52,455 £32,468	£49,779 £29,491	£35,485 £35,597	£31,266 £39,865	£28,919 £36,102	£33,627 £43,631	£25,266 £33,443	£23,785 £30,992	£26,742 £35,937	£40, £30,			£42,894 £28,317	£41,512 £26,889	£44,23 £29,80	
Time to offset cost of rehab (mths)	20/4	12,555	13,324	172.6		107.2	19.4		18.7	9.4	9.6	9.2	9.1				5.9 16		18.2	18.5	17.	
Life-time savings computed individually	Mean	95% Confider		Mean	95% Confiden		Mean	95% Confiden	nce Interval	Mean	95% Confider		Mean	95% Confide		Mean	95% Confi	dence Interval	Mean	95% Confide		
Period life expectancy		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper	
TBI adjusted remaining yrs of life (period)	8.2	7.9	8.5	12.6	11.9	13.2	19.0	18.3	19.8	22.6	21.5	23.6	29.4	28.5	30.2		2.7 22		21.6	21.1	22.0	
Total life savings (period)	£11,024	-£15,131	£37,624	£63,523	£14,748	£106,663	£683,126	£605,005	£765,522	£956,668		£1,073,267	£1,029,093	£939,468		£781,		,	£722,670	£679,189	£765,372	
Net total life savings (period)	-£59,467	-£85,667	-£31,587	-£6,549	-£55,576	£35,388	£630,671	£553,142	£712,992	£925,402	£813,291	£1,042,436	£1,003,827	£915,448	£1,090,202	£740,	929 £694,62	1 £791,256	£679,776	£635,972	£722,780	
Projected life expectancy																						
TBI adjusted remaining yrs of life (projected)	9.1	8.7	9.5	14.0	13.1	14.7	21.1	20.3	21.9	25.1	23.8	26.3	32.6	31.7	33.5		5.2 24	6 25.7	23.9	23.4	24.	
Total life savings (projected)	£12,239	-£16,978	£44,360	£70,731	£21,014	£122,453	£757,862	£672,469	£846,470	£1,060,824	£939,973	£1,185,210	£1,142,493	£1,051,044	£1,243,719	£867,	275 £817,55	8 £922,542	£801,947	£754,994	£856,034	
Net total life savings projected)	-£58,252	-£87,243	-£25,393	£658	-£49,254	£53,652	£705,407	£619,280	£793,825	£1,029,558	£907,030	£1,154,949	£1,117,227	£1,026,145	£1,218,692	£826,	63 £775,97	9 £880,815	£759,052	£711,993	£812,754	
Onlandation also at																						
Calculation sheet																						
Individually calculated ife time savings (period) Episode_cost	£70,491	£64,648	£76,373	£70,073	£65,492	£74,515	£52,455	£49,779	£55,485	£31,266	£28,919	£33,627	£25,266	£23,785	£26,742	£40,	5 12 £39,26	1 £41,957	£42,894	£41,512	£44,23	
Annual savings	£674	-£2,335	£70,373 £3,924	£4,872	£03,492 £1,462	£8,340	£32,455	£49,779 £29,491	£35,485	£39,865	£36,102	£43,631	£33,443	£30,992	£35,937	£40, £30,			£28,317	£26,889	£29,80	
, under settings	2074	12,333	13,524	14,072	1,402	20,540	132,400	223,431	133,337	200,000	130,102	143,031	200,440	230,332	200,007	250,		- 202,200	120,517	120,000	120,000	
Total life savings (period)	£11,024	-£15,131	£37,624	£63,523	£14,748	£106,663	£683,126	£605,005	£765,522	£956,668	£843,525	£1,073,267	£1,029,093	£939,468	£1,115,898	£781,	541 £734,99	8 £832,604	£722,670	£679,189	£765,372	
Net total life savings (period)	-£59,467	-£85,667	-£31,587	-£6,549	-£55,576	£35,388	£630,671	£553,142	£712,992	£925,402	£813,291	£1,042,436	£1,003,827	£915,448	£1,090,202	£740,	929 £694,62	1 £791,256	£679,776	£635,972	£722,78	
Discount rate r (1.5%)	0.015																					
Discount rate r (3.5%)	0.035	C10 996	C2 605	(521	CA 676	C2 C72	(22.120	C20 100	C3E 003	C40 012	C27 749	£44,166	£34,169	070 070	£36,155		 (24.20	3 £34,148	C21 E12	£30,160	£32,783	
Average annual life savings Net total life savings (period) discounted at 1.5%	-£7,255 -£55,566	-£10,886 -£80,238	-£3,695 -£29,439	-£521 -£5,928	-£4,676 -£50,559	£2,672 £31,879	£33,120 £545,075		£35,992 £612,880	£40,912 £779,856	£37,748 £690,578	£44,100 £872,442	£807,045			£32, £624,			£31,513 £577,103	£541,762		
Net total life savings (period) discounted at 3.5%	-£50,932		-£26,898	-£5,226		£27,937	£454,780		£508,139	£632,076		£701,628				£505,				£444,534		
8- (P)		,						,													,	
Net total for analysis sample Extrapolated net total for TBI specilalist rehablitation cohort																£2,436,916, £4,115,861,			£2,432,238,192 r £4,107,885,801 r			
Individually calculated ife time savings (Projected)																						
Total life savings (projected)	£12,239	-£16,978	£44,360	£70,731	£21,014	£122,453	£757,862	£672,469	£846,470	£1,060,824	£939,973	£1,185,210	£1,142,493	£1,051,044	£1,243,719	£867,	275 £817,55	8 £922,542	£801,947	£754,994	£856,034	
Net total life savings (projected)	-£58,252	-£87,243	-£25,393	£658	-£49,254	£53,652	£705,407	£619,280	£793,825	, ,	,	£1,154,949	, ,	£1,026,145	, ,	£826,		-	£759,052	£711,993	£812,754	
	,		-,0		-, '	/	. = / . = /	,	,	,,	, = = 0	,,	,,,	,,	, -,			,		-,	,. 0	
Average annual life savings	-£6,393	-£9,982	-£2,672	£47	-£3,755	£3,645	£33,446	£30,526	£36,195	£41,067	£38,042	£43,918	£34,254	£32,392	£36,403	£32,	365 £31,51	8 £34,278	£31,760	£30,427	£33,174	
Net total life savings (period) discounted at 1.5%	-£54,069	-£81,197	-£23,503	£590	-£44,411	£47,823	£600,894		£672,216	£852,864	£757,840	£948,581	£878,446			£684,			-	£596,733	£675,956	
Net total life savings (period) discounted at 3.5%	-£49,151	-£74,060	-£21,289	£514	-£38,963	£41,379	£493,037	£438,153	£547,835	£678,046	£608,311	£747,019	£660,009	£614,260	£711,308	£543,	57 £514,45	4 £574,763	£508,636	£480,668	£539,793	
Net total for analysis sample Extrapolated net total for TBI specilalist rehablitation c	ohort															£2,718,895, £4,592,114,			£2,715,889,337 r £4,586,953,399 r			
		Where, F= Average annual life savings: this is calculated by dividing total life savings by TBI adjusted remaining yrs of life (period) r= discount rate n= TBI adjusted remaining yrs of life (period); i.e. the total number of years over which the cost is expected to be incurred													(Adjusted on 3289/3578= 92% of 6043 =	a proportionate 92 555	%					