Life expectancies for individuals with cerebral palsy

Corey Plover

December 2014
(updated July 2018)

1. Summary

1.1 This publication is intended to translate the survival probabilities and mortality loadings found within a range of epidemiological studies to implied life expectancy tables in a robust, objective and consistent manner. A summary of these calculations are provided below.

Table 1.1 - Estimated life expectancy for individuals with cerebral palsy (additional years)

Study cohort	Age 0	Age 5	Age 10	Age 15	Age 20	Age 25
Australian population	82.4	77.7	72.7	67.8	62.9	58.0
Crichton (1995)						
Cerebral palsy - Hemiplegia	78.0	74.2	69.8	65.3	60.7	56.1
Cerebral palsy - Other	66.0	66.4	64.8	62.1	58.7	54.8
Epilepsy - None	70.1	68.6	65.9	62.5	58.8	54.7
Epilepsy - Other	64.0	63.3	61.5	58.8	55.7	52.1
Mental retardation - Moderate	74.1	72.2	69.0	65.1	60.9	56.5
Mental retardation - Severe	47.2	51.0	52.6	52.5	51.1	48.7
Plioplys (1998)						
Group 1	47.9	57.9	60.7	59.5	56.3	52.3
Group 2	48.8	47.3	45.1	42.7	40.1	37.2
Group 3	63.7	64.8	63.2	60.1	56.3	52.1
Blair et al (2001)						
Disability score (1 to 3)	80.5	76.0	71.2	66.4	61.6	56.9
Disability score (4 to 6)	78.8	75.0	70.7	66.2	61.6	57.0
Disability score (7 to 9)	55.4	57.5	57.7	56.4	54.2	51.1
Disability score (10 to 12)	26.5	28.2	29.3	29.8	29.8	29.1
"Severe" CP	47.5	49.7	49.9	48.5	46.1	42.8
Hutton et al (2002)						
Severe ambulatory (low bw)	73.6	69.9	65.7	61.4	57.0	52.6
Severe ambulatory (normal bw)	69.5	66.1	62.3	58.3	54.2	50.0
Severe motor (low bs)	54.6	52.0	49.1	46.1	42.9	39.7
Severe motor (normal bs)	48.1	46.1	43.7	41.2	38.5	35.7
Severe motor & cogn. (low bw)	38.3	37.5	36.3	34.7	32.9	30.7
Severe motor & cogn. (normal bw)	32.4	32.3	31.8	30.8	29.4	27.7
Severe all (low bw)	24.7	26.0	26.6	26.7	26.1	24.9
Severe all (normal bw)	20.1	22.3	23.8	24.6	24.5	23.7
Hutton et al (2006)						
Severe ambulation	30.5	32.3	33.2	33.6	33.3	32.3
Severe dexterity	29.0	30.0	30.4	30.4	30.0	29.0
Severe cognative	26.8	29.6	31.5	32.7	33.0	32.4
Severe visual	41.4	42.2	42.3	41.6	40.3	38.5
Severe all	21.8	22.9	23.7	24.1	24.1	23.6
Westbom et al (2011)						
GMFCS V	29.2	28.1	26.7	25.2	23.5	21.6
Reid et al (2012)						
Mild+0	81.9	77.2	72.3	67.4	62.5	57.7
Moderate+0	76.4	72.3	67.8	63.3	58.9	54.4
Severe+0	65.9	63.7	60.7	57.4	53.8	49.9
Severe+1	47.2	45.4	43.3	41.1	38.7	36.2
Severe+2	35.7	34.5	33.0	31.3	29.5	27.6
Severe+3	28.0	27.5	26.7	25.7	24.7	23.5
Touyama et al (2013)						
GMFCS V	43.7	44.3	43.8	42.6	40.7	38.2

Table 1.1 (cont'd)- Estimated life expectancy for individuals with cerebral palsy (additional years)

Study cohort	Age 0	Age 5	Age 10	Age 15	Age 20	Age 25
Strauss at al (2014)						
Cannot lift head (tube fed)	14.6	15.2	15.6	15.7	15.5	14.9
Cannot lift head (fed by others)	23.2	23.4	23.1	22.6	21.8	20.6
Lifts head or chest (tube fed)	23.6	23.1	22.3	21.4	20.3	19.1
Lifts head or chest (fed by others)	33.6	32.5	31.1	29.5	27.7	25.8
Rolls/sits (tube fed)	33.0	32.0	30.6	29.0	27.3	25.4
Rolls/sits (fed by others)	51.0	48.7	45.9	43.1	40.1	37.1
Himmelmann at al (2015)						
CP Type (Hagberg - Tetraplegia)	24.3	23.8	23.1	22.2	21.2	20.1
CP Type (Hagberg - Dyskinetic)	55.4	52.7	49.8	46.7	43.5	40.3
CP Type (SCPE - Dyskinetic)	58.5	55.6	52.4	49.1	45.7	42.3
CP Type (SCPE - BSCP)	68.5	64.8	60.9	56.9	52.8	48.8
Severe motor	48.7	46.6	44.1	41.5	38.8	36.0
Severe mental retardation	46.3	44.4	42.1	39.8	37.2	34.6
Epilepsy	54.0	51.8	49.3	46.5	43.5	40.3

1.2   While these tables may be useful estimating the life expectancy of an individual with cerebral palsy it is crucial to recognise they are average life expectancies, fitted to the cohorts involved in the particular study. No attempt have been made to adjust for improvement in survival rates over the interval of the studies and factors such as comorbidities, access to ongoing care and random outcomes have the ability to greatly affect the actual life expectancy for a particular individual.

2. Background

2.1 Cerebral palsy is a diagnostic label referring to motor conditions that cause physical disability in human development, chiefly in the various areas of body movement.

2.2 While it is not a progressive disorder (meaning the brain damage does not worsen) cerebral palsy's nature as a broad category means that the rates, trends and predictors of mortality varies widely, depending partly on the severity of each person's impairment and partly on the capability of each person to self-manage the logistics of life.

2.3 A number of papers have investigated the survival patterns of individuals born with cerebral palsy in different countries. These include:

Table 2.3 - Summary of cerebral palsy papers

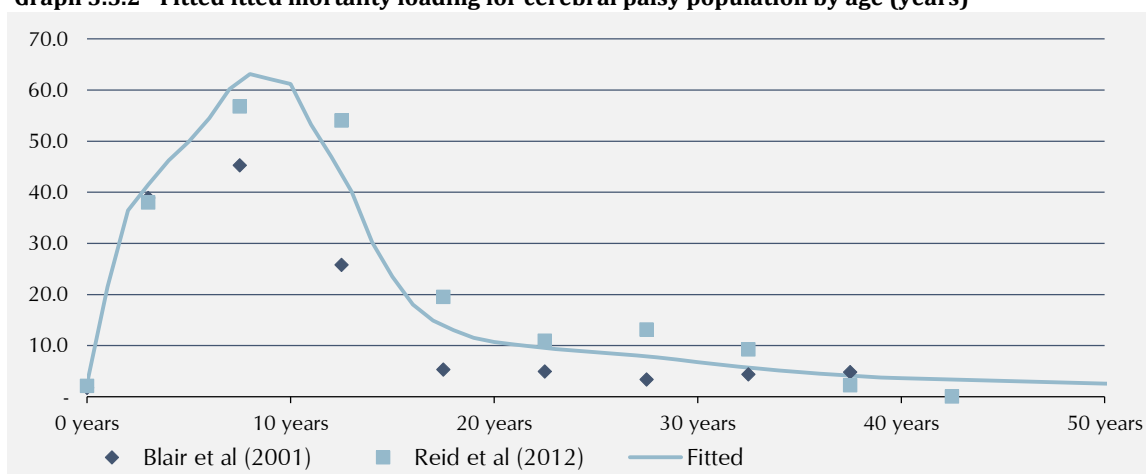| Author (and year)	Publication	Country	Classification
Crichton et al (1995)	The Life-expectancy of persons with cerebral palsy	Canada	Motor function Epilepsy Mental retardation
Plioplys et al (1998)	Survival rates among children with severe neurological disabilities	U.S.	Motor function Feeding skill
Blair et al (2001)	Life expectancy among people with cerebral palsy in Western Australia	Australia	Intellectual ability Motor severity
Hutton et al (2002)	Effects of cognitive, motor, and sensory disabilities on survival in cerebral palsy	U.K.	Ambulation Cognitive ability Visual disability
Hutton et al (2006)	Life expectancy in severe cerebral palsy	U.K.	Ambulation Cognitive ability Visual disability
Westbom et al (2011)	Survival at 19 years of age in a total population of children and young people with cerebral palsy	Sweden	GMFCS V
Reid et al (2012)	Survival of individuals with cerebral palsy born in Victoria, Australia, between 1970 and 2004	Australia	Motor severity Additional impairments
Touyama et al (2013)	Long-term survival of children with cerebral palsy in Okinawa, Japan	Japan	GMFCS V
Strauss et al (2014)	Recent trends in cerebral palsy survival. Part II: individual survival prognosis	U.S.	Motor function Feeding skill
Himmelmann et al (2015)	Survival with cerebral palsy over five decades in western Sweden	Sweden	Motor impairment Cognitive ability Epilepsy

3   Methodology

3.1   In order to achieve a robust and intuitive fit of cerebral palsy survival probabilities, a transformation was applied to population survival probabilities (obtained from Australian Bureau of Statistics, "Population Projections, Australia, 2006-2101").

3.2   Survival probabilities up to the age specified in the respective study were transformed via a 2-parameter exponential function specified by an adjustment factor at birth, and a rate of change. These parameters were chosen to replicate survival probabilities specified in each study as closely as possible.

3.3   Survival probabilities thereafter were estimated via a proportional life expectancy model. Support for this approach can be found in Strauss at al's 2005 publication, "Estimation of Future Mortality Rates and Life Expectancy in Chronic Medical Conditions".

3.4   This approach was chosen as it closely replicates the empirical survival rates for individuals with cerebral palsy with a minimal number of parameters, while maintaining consistency with the trends published in broader literature, and reducing the sensitivity of the results to random fluctuations in observed deaths.

3.5.   The table and graph below compares the mortality ratios from the Blair and Reid papers to fitted ratios under the above approach:

Table 3.5.1 - Age-specific mortality ratios per 1000 person-years

Age (years)	Mortality ratio		
	Blair et al (2001')	Reid et al (2012)	Fitted
< 1	1.7	2.1	2.5
1-4	38.9	38.0	32.8
5-9	45.3	56.8	56.9
11-14	25.8	54.0	43.5
15-19	5.3	19.5	15.1
21-24	4.9	10.9	9.7
25-29	3.3	13.1	7.9
31-34	4.3	9.2	5.8
35-39	4.8	2.2	4.2
40+	n.a	n.a	

Graph 3.5.2 - Fitted itted mortality loading for cerebral palsy population by age (years)

3.6   Categorisations with 100 or fewer individuals were excluded from analysis as their sample size was deemed to be too small to overcome random fluctuations in the number of observed deaths.

4   Crichton et al (1995)

4.1   In their 1995 paper, Crichton et al investigated the survival patterns in persons with cerebral palsy for 3,187 individuals born with cerebral palsy in British Columbia between 1952 and 1989.

4.2   This paper used a clinical categorisation of cerebral palsy, epilepsy and mental retardation.

Table 4.2 - Crichton et al (1995) classification of individuals

Disability	Description
Cerebral palsy	Spastic quadriplegia and diplegia
	Hemiplegia or monoplegia
	Athetosis
	Other forms
Episepsy	Generalized seizures
	Partial epilepsy with and without secondard generalization
	Infantile spasms
	Unclassified forms
Mental retardation	Non existant or mild
	Moderate
	Severe or profound

4.3   The relevant statistics from the Critchton paper are replicated below:

Table 4.3 - Probabilities of survival from one decade to the next

Categorisation	Survival probabilities			
	10 years	20 years	30 years	40 years
Overall	93.8%	89.6%	87.4%	85.2%
Cerebral palsy				
Hemiplegia or monopolegia	97.7%	96.2%	95.2%	93.5%
Other	92.4%	87.3%	84.8%	82.2%
Epilepsy				
None	94.5%	92.1%	90.3%	87.4%
Any	91.3%	81.0%	77.6%	77.6%
Mental retardation				
Non-existant to moderate	95.5%	93.5%	92.4%	90.4%
Severe to profound	85.3%	72.6%	66.6%	63.3%

5   Plioplys et al (1998)

5.1   In their 1998 paper, Plioplys et al investigated the survival patterns in persons with cerebral palsy for 447 individuals born with cerebral palsy in Chicago between 1986 and 1996.

5.2   This paper used the categorisation of a earlier Californian study with additional focus on clinical parameters the presence of other significant diseases and the use of gastrostomy and nasogastric feeding tubes.

Table 5.2 - Plioplys et al (1998) classification of individuals

Disability	Description
Group 1	Tube fed, Not rolling, No hand or arm use
Group 2	Tube fed, Not rolling, Hand or arm use present
Group 3	Fed by others, Not rolling, No hand or arm use
Group 4	Fed by others, Not rolling, Hand or arm use present
Group 5	Fed by others, Able to roll, Hand or arm use present
Group 6	Tube fed, Able to roll, Hand or arm use present

5.3   The relevant statistics from the Plioplys paper are replicated below:

Table 5.3 - Survival in Groups 1 - 3 (transcribed from graph)

Categorisation	Survival probabilities					
	5 years	10 years	15 years	20 years	25 years	30 years
Group 1	~75%	~66%	~63%	~60%	~59%	~58%
Group 2	~89%	~84%	~84%	~84%	~73%	~68%
Group 3	~91%	~89%	~81%	~81%	~81%	~81%
Group 4	n.a	n.a	n.a	n.a	n.a	n.a
Group 5	n.a	n.a	n.a	n.a	n.a	n.a
Group 6	n.a	n.a	n.a	n.a	n.a	n.a

6   Blair et al (2001)

6.1   In their 2001 paper, Blair et al investigated the survival patterns in persons with cerebral palsy for 2,014 individuals born with cerebral palsy in Western Australia between 1958 and 1994.

6.2   This paper found strong associations of survival rates with degree of intellectual deficit and motor impairment. Individuals were defined according to the following classifications:

Table 6.2 - Blair et al (2001) classification of individuals

Intellectual deficit	Description	Motor impairment	Description
Normal	IQ/DQ > 85	Minimal	Motor signs present but no functional impairment
Borderline	IQ/DQ > 70 to 85	Mild	Symptoms results in some functional impairment
Mild	IQ/DQ > 50 to 69	Moderate	Between mild and severe (ambulant with walking frame)
Moderate	IQ/DQ > 35 to 49	Severe	Little purposeful voluntary action, though function may
Severe	IQ/DQ > 20 to 34		be acquired, IQ permitting
Profound	IQ/DQ < 20		

6.3   Further statistical analysis was conducted on the combined impact of several coexisting disabilities An overall disability score was derived by summing the score assigned to the following disabilities: category of movement disorder (hemiplegia = 1, diplegia = 2, other = 3), severity of movement disorder (minimal = 0, mild = 1, moderate = 2, severe = 3), severity of cognitive deficit (IQ 50 to 69 = 1, IQ 35 to 49 = 2, IQ < 35 = 3), other impairments (blindness = 1; bilateral deafness = 1; current epilepsy = 1).

6.4   The relevant statistics from the Blair paper are replicated below:

Table 6.4.1 - Survival in people with CP in Western Australia (transcribed from graph)

Categorisation	Survival probabilities					
	5 years	10 years	15 years	20 years	25 years	30 years
All individuals with cerebral palsy	~94%	~91%	~89%	~88%	~86%	~85%
Severe CP	~85%	~78%	~73%	~69%	~65%	

Table 6.4.2 - Crude mortality rates by overall disability score

Overall disability score	Crude mortality rates	
	1 to <5 yrs	1 to <5 yrs
1	0.0 (0/266)	0.0 (0/438)
2	0.0 (0/980)	0.7 (2/2740)
3	1.7 (2/1176)	1.2 (5/4053)
4	0.7 (1/1335)	1.1 (6/5400)
5	4.0 (3/752)	1.3 (4/3129)
6	6.2 (4/642)	3.1 (8/2578)
7	2.2 (1/456)	4.5 (8/1781)
8	22.2 (8/361)	8.5 (12/1411)
9	51.9 (28/540)	14.8 (26/1756)
10	46.7 (23/492)	18.4 (24/1304)
11	59.1 (14/237)	46.0 (15/326)
12	79.8 (3/37.6)	8.2 (1/122)
Missing	0.0 (0/255)	3.3 (5/1516)
Total	11.6 (87/7530)	4.4 (116/26554)

7   Hutton et al (2002)

7.1   In their 2002 paper, Hutton et al investigated the survival patterns in persons with cerebral palsy for 1,668 individuals born with cerebral palsy in United Kingdom between 1966 and 1989.

7.2   This paper found that severity of cognitive, motor (manual and ambulatory), and visual disabilities have independent effects on the probability of survival.

Table 7.2 - Hutton et al (2002) classification of individuals

Disability	Description
Severe ambulation disability	Carer operated wheelchair
Severe manual dexterity disability	Unable to feed and dress
Severe cognative disability	IQ < 50
Severe visual disability	6/60 or worse in better eye, functionally blind
Severe hearing disability	Severe bilateral disability

7.3   The statistical analysis of the Hutton paper concluded that severe hearing disability did not add additional information when the other four functional disability categories are included.

7.4   The relevant statistics from the Hutton paper are replicated below:

Table 7.4 - Severity category according to functional disability (transcribed from graphs)

Categorisation	Survival probabilities		
	10 years	20 years	30 years
Multivariate analysis			
No severe disabilities, low bw	~99.6%	~99%	~98%
Only severe ambulatory disabilities, low bw	~98%	~96%	~94%
Only severe ambulatory disabilities, normal bw	~97%	~94%	~91%
Severe motor disabilities, low bw	~94%	~86%	~79%
Severe motor disabilities, normal bw	~91%	~81%	~72%
Severe motor and cognitive disabilities, low bw	~85%	~70%	~59%
Severe motor and cognitive disabilities, normal bw	~80%	~62%	~50%
Severe motor, cognitive and visual disabilities, low bw	~70%	~49%	~37%
Severe motor, cognitive and visual disabilities, normal bw	~62%	~40%	~29%

8   Hutton et al (2006)

8.1   In their 2006 paper, Hutton et al investigated the survival patterns in persons with cerebral palsy for 1,647 individuals born with cerebral palsy in United Kingdom over an unspecified interval.

8.2   This paper found that severity of cognitive, motor (manual and ambulatory), and visual disabilities have independent effects on the probability of survival.

Table 8.2 - Hutton et al (2006) classification of individuals

Disability	Description
Severe ambulation disability	Carer operated wheelchair
Severe manual dexterity disability	Unable to feed and dress
Severe cognative disability	IQ < 50
Severe visual disability	6/60 or worse in better eye, functionally blind
Severe hearing disability	Bilateral disability, or severe unilateral disability

8.3   The statistical analysis of the Hutton paper concluded that severe hearing disability did not add additional information when the other four functional disability categories are included.

8.4   The relevant statistics from the Hutton paper are replicated below:

Table 8.4 - Severity category according to functional disability (transcribed from graphs)

Categorisation	Cohort	Survival probabilities			
	count	10 years	20 years	30 years	40 years
Univariate analysis					
Severe ambulation disability	384	~68%	~49%	~40%	~33%
Severe manual dexterity disability	374	~68%	~49%	~40%	~30%
Severe cognative disability	563	~64%	~40%	~32%	~29%
Severe visual disability	266	~77%	~63%	~56%	~48%
Multivariate analysis					
Severe motor, cognitive and visual	266	~57%	~39%	~30%	~18%

9 Westbom et al (2011)

9.1 In their 2011 paper, Westborn et al investigated the survival patterns in persons with cerebral palsy for 708 individuals born with cerebral palsy in Sweden between 1990 and 2005.

9.2 The statistical analysis of the Westbom paper was performed with respect to GMFCS level and gastrostomy feeding, though survival curves were presented only for GMFCS (Level V) individuals:

9.3 The relevant statistics from the Westbom paper are replicated below:

Table 9.3 - Survival probabilities for GMFCS Level V individuals (transcribed from graph)

Severity	Beginning total	Total deaths	Survival probabilities (from age 2)			
			5 years	10 years	15 years	20 years
GMFCS V	102	25	~92%	~82%	~71%	~61%

10   Reid et al (2012)

10.1   In their 2012 paper, Reid et al investigated the survival patterns in persons with cerebral palsy for 3,507 individuals born with cerebral palsy in Victoria between 1970 and 2004.

10.2   This paper found strong associations of survival rates with degree of intellectual deficit and motor impairment. Individuals were defined according to the following classifications:

Table 10.2 - Reid et al (2012) classification of individuals

Motor impairment	Description
Mild	GMFCS Level I and II - Independently ambulant at 5 years of age
Moderate	GMFCS Level III - Ambulant with the assistance of a hand-held mobility device
Severe	GMFCS Level IV and V - No independent ambulation

10.3   The statistical analysis of the Reid paper was performed with respect to motor impairment classification subdivided by the number of additional impairments present from a possible five, comprising epilepsy, severe / profound intellectual impairment (IQ < 30), blindness deafness (hearing loss > 70dB), and lack of speech.

10.4   The relevant statistics from the Reid paper are replicated below:

Table 10.4 - Survival probabilities by motor impairment and additional impairments

Motor severity + n additional impairments[1]	Beginning total	Total deaths	Survival probabilities			
			10 years	20 years	30 years	40 years
Mild+0	1,478	14	99.9%	99.2%	98.3%	97.7%
Mild+1	378	7	99.2%	99.2%	97.9%	95.1%
Mild+2	77	1	100.0%	98.4%	98.4%	98.1%
Mild+3	41	4	95.1%	95.1%	88.8%	88.8%
Moderate+0	262	6	99.2%	99.2%	97.6%	89.0%
Moderate+1	100	7	95.9%	93.5%	90.7%	90.7%
Moderate+2	57	7	98.2%	89.7%	83.4%	-
Moderate+3	39	3	100.0%	94.4%	91.4%	-
Severe+0	156	19	91.0%	90.1%	83.5%	-
Severe+1	222	52	86.3%	78.0%	68.7%	56.8%
Severe+2	297	104	79.8%	68.0%	52.1%	-
Severe+3	352	182	80.7%	51.7%	35.3%	30.8%

[1] Additional impairments from a possible five, comprising epilepsy, severe / profound intellectual impairment, blindness deafness, and lack of speech

11 Touyama et al (2013)

11.1 In their 2013 paper, Touyama et al investigated the survival patterns in persons with cerebral palsy for 580 individuals born with cerebral palsy in Japan between 1988 and 2005.

11.2 The statistical analysis of the Touyama paper was performed with respect to GMFCS level, birth weight and gestation period, with survival curves presented only for GMFCS (Level V) individuals.

11.3 The relevant statistics from the Touyama paper are replicated below:

Table 11.3 - Survival probabilities for GMFCS Level V individuals (transcribed from graph)

Severity	Beginning total	Total deaths	Survival probabilities (from age 2)			
			5 years	10 years	15 years	20 years
GMFCS V	166	29	~94%	~84%	~76%	~72%

12   Strauss et al (2014)

12.1   In their 2014 paper, Strauss et al investigated the survival patterns in persons with cerebral palsy for 16,440 individuals born with cerebral palsy in California between 1983 and 2010.

12.2   This paper found strong associations of survival rates with gross motor function and mode of feeding. Individuals were defined according to the following classifications:

Table 12.2 - Strauss et al (2014) classification of individuals

Motor impairment	Mode of feeding
Does not lift head in the prone position	Tube fed
Lifts head but not chest in the prone position	Fed orally by others
Lifts head and chest, partial rolling	Feeds self orally
Full rolling, does not walk unaided	
Walks unaided	

12.3   The statistical analysis of the Strauss paper was performed with respect to gross motor impairment and mode of feeding. Additional analysis was conducted to adjust Kaplan–Meier survival curves to 2010 levels, though for consistency with other studies in this publication, the unadjusted Kaplan-Meier survival probabilities have been used

12.4   The relevant statistics from the Strauss paper are replicated below:

Table 12.4 - (Unadjusted) survival probabilities by gross motor impairment and feeding status

Categorisation	Beginning total	Survival probabilities				
		10 years	15 years	20 years	25 years	30 years
Does not lift head in the prone position						
Tube fed	482	68%	48%	33%	25%	21%
Fed orally by others	615	80%	66%	51%	43%	39%
Feeds self orally	50	95%	88%	88%	-	-
Lifts head but not chest in the prone position						
Tube fed	303	73%	58%	48%	38%	29%
Fed orally by others	795	85%	73%	61%	49%	44%
Feeds self orally	103	95%	89%	84%	74%	74%
Lifts head and chest, partial rolling						
Tube fed	265	77%	65%	59%	48%	35%
Fed orally by others	962	90%	81%	73%	62%	52%
Feeds self orally	329	96%	93%	91%	85%	75%
Full rolling, does not walk unaided						
Tube fed	475	87%	81%	73%	60%	52%
Fed orally by others	1,643	95%	91%	86%	82%	76%
Feeds self orally	4,906	98%	97%	95%	93%	91%
Walks unaided						
Tube fed	125	95%	93%	84%	79%	-
Fed orally by others	188	96%	95%	95%	95%	86%
Feeds self orally	5,199	99%	99%	98%	96%	94%

12.5   The Strauss paper also provides life expectancy calculations, but these are in respect of cohorts of individuals aged 15, 30, 45 and 60 during the interval of study (1983 to 2010).

13 Himmelmann et al (2015)

13.1 In their 2015 paper, Himmelmann et al investigated the survival patterns in persons with cerebral palsy for 1,856 individuals born with cerebral palsy in Sweden between 1959 and 2002.

13.2 The statistical analysis of the Himmelmann paper was performed with respect to Hagberg classifications (tetraplegia, hemiplegia, etc), SCPE classificatoins (dyskinetic CP, blilateral spastic CP, etc), GMFCS level, motor impairment, cognitive impairment and epilepsy

13.3 The relevant statistics from the Westbom paper are replicated below:

Table 13.3 - Survival probabilities by CP type (transcribed from graph)

Severity	Survival probabilities (from age 2)			
	10 years	20 years	30 years	40 years
CP Type (Hagberg)				
Tetraplegia	~76%	~51%	~35%	~19%
Dyskinetic	~96%	~86%	~77%	~71%
CP Type (SCPE)				
Dyskinetic	~98%	~88%	~81%	~74%
Bilateral spastic cerebral palsy	~98%	~93%	~90%	~86%
Severe motor impairment	~91%	~80%	~71%	~62%
Severe mental retardation	~88%	~76%	~69%	~59%
Epilepsy	~92%	~81%	~76%	~70%

A Demonstrated parameter fitting

| Age | Regular life table (Australia, 2014-16) | | | | | Adjusted life table | | | | |
---	Male	Female	Mortality	Probability of survival	Life expect.	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expect.
0	0.00357	0.00330	0.00344	100.00%	82.38	99.47%	0.00872	2.54	100.00%	68.80
1	0.00029	0.00022	0.00026	99.66%	81.66	99.48%	0.00547	21.47	99.13%	68.41
2	0.00016	0.00013	0.00015	99.63%	80.69	99.49%	0.00528	36.42	98.58%	67.78
3	0.00014	0.00011	0.00013	99.62%	79.70	99.49%	0.00518	41.43	98.06%	67.14
4	0.00012	0.00010	0.00011	99.60%	78.71	99.50%	0.00508	46.21	97.56%	66.48
5	0.00011	0.00009	0.00010	99.59%	77.72	99.51%	0.00499	49.93	97.06%	65.82
6	0.00010	0.00008	0.00009	99.58%	76.72	99.52%	0.00490	54.49	96.58%	65.15
7	0.00009	0.00007	0.00008	99.57%	75.73	99.53%	0.00482	60.21	96.10%	64.47
8	0.00008	0.00007	0.00008	99.57%	74.74	99.53%	0.00474	63.15	95.64%	63.78
9	0.00008	0.00007	0.00008	99.56%	73.74	99.54%	0.00466	62.15	95.19%	63.08
10	0.00008	0.00007	0.00008	99.55%	72.75	99.55%	0.00459	61.17	94.74%	62.37
11	0.00009	0.00008	0.00009	99.54%	71.75	99.56%	0.00452	53.23	94.31%	61.66
12	0.00010	0.00009	0.00010	99.54%	70.76	99.56%	0.00446	46.98	93.88%	60.93
13	0.00012	0.00010	0.00011	99.53%	69.77	99.57%	0.00441	40.07	93.46%	60.20
14	0.00016	0.00013	0.00015	99.52%	68.77	99.58%	0.00437	30.17	93.05%	59.47
15	0.00022	0.00015	0.00019	99.50%	67.78	99.58%	0.00435	23.49	92.64%	58.73
16	0.00030	0.00018	0.00024	99.48%	66.80	99.59%	0.00433	18.06	92.24%	57.98
17	0.00038	0.00020	0.00029	99.46%	65.81	99.60%	0.00432	14.89	91.84%	57.23
18	0.00045	0.00021	0.00033	99.43%	64.83	99.60%	0.00429	13.01	91.44%	56.48
19	0.00052	0.00022	0.00037	99.40%	63.85	99.61%	0.00427	11.54	91.05%	55.72
20	0.00056	0.00023	0.00040	99.36%	62.87	99.62%	0.00423	10.71	90.66%	54.96
21	0.00059	0.00023	0.00041	99.32%	61.90	99.62%	0.00418	10.21	90.28%	54.19
22	0.00061	0.00024	0.00043	99.28%	60.92	99.63%	0.00414	9.74	89.90%	53.41
23	0.00063	0.00025	0.00044	99.24%	59.95	99.63%	0.00409	9.30	89.53%	52.63
24	0.00064	0.00026	0.00045	99.19%	58.98	99.64%	0.00405	8.99	89.16%	51.85
25	0.00065	0.00027	0.00046	99.15%	58.00	99.65%	0.00400	8.69	88.80%	51.06
26	0.00066	0.00028	0.00047	99.10%	57.03	99.65%	0.00395	8.41	88.45%	50.26
27	0.00068	0.00029	0.00049	99.06%	56.06	99.66%	0.00391	8.06	88.10%	49.46
28	0.00070	0.00031	0.00051	99.01%	55.08	99.66%	0.00387	7.67	87.75%	48.65
29	0.00073	0.00033	0.00053	98.96%	54.11	99.67%	0.00385	7.26	87.41%	47.84
30	0.00077	0.00036	0.00057	98.91%	53.14	99.67%	0.00383	6.77	87.08%	47.02
31	0.00082	0.00039	0.00061	98.85%	52.17	99.68%	0.00381	6.30	86.74%	46.20
32	0.00087	0.00043	0.00065	98.79%	51.20	99.68%	0.00381	5.86	86.41%	45.37
33	0.00093	0.00046	0.00070	98.73%	50.23	99.69%	0.00380	5.47	86.08%	44.54
34	0.00099	0.00050	0.00075	98.66%	49.27	99.69%	0.00380	5.10	85.76%	43.71
35	0.00105	0.00054	0.00080	98.58%	48.30	99.70%	0.00380	4.78	85.43%	42.88
36	0.00111	0.00058	0.00085	98.51%	47.34	99.70%	0.00380	4.50	85.11%	42.04
37	0.00117	0.00062	0.00090	98.42%	46.38	99.71%	0.00381	4.25	84.78%	41.20
38	0.00124	0.00067	0.00096	98.34%	45.42	99.71%	0.00382	4.00	84.46%	40.35
39	0.00132	0.00072	0.00102	98.24%	44.47	99.72%	0.00384	3.76	84.14%	39.51
40	0.00142	0.00078	0.00110	98.14%	43.51		0.00398	3.62	83.81%	38.66
50	0.00298	0.00180	0.00239	96.59%	34.12		0.00606	2.54	79.88%	30.30
60	0.00675	0.00398	0.00537	93.23%	25.15		0.01035	1.93	73.91%	22.31
70	0.01613	0.00994	0.01304	85.99%	16.79		0.02050	1.57	64.18%	14.87
80	0.04793	0.03188	0.03991	68.61%	9.59		0.05297	1.33	46.41%	8.45
90	0.15455	0.12362	0.13909	31.16%	4.58		0.16644	1.20	17.20%	3.98
100	0.34389	0.31851	0.33120	2.52%	2.20		0.38816	1.17	0.82%	1.85

B   Crichton et al (1995)

Target and fitted criteria are as follows:

Overall

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	93.8%	93.6%	0.004
0	20	89.6%	89.9%	0.009
0	30	87.4%	87.2%	0.003
0	40	85.2%	85.2%	0.000
Total				0.0166

Cerebral palsy - Hemiplegia or monopolegia

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	97.7%	97.7%	0.000
0	20	96.2%	96.3%	0.001
0	30	95.2%	94.9%	0.007
0	40	93.5%	93.6%	0.002
Total				0.0103

Cerebral palsy - Other

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	92.4%	92.3%	0.002
0	10	87.3%	87.6%	0.010
0	15	84.8%	84.5%	0.011
0	20	82.2%	82.3%	0.002
Total				0.0248

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						4.42%					3.33%					7.17%				
0	0.00477	0.00425	0.00451	100.00%	81.83	99.27%	0.01180	2.62	100.00%	71.20	99.80%	0.00651	1.44	100.00%	78.04	98.28%	0.02164	4.80	100.00%	66.04
1	0.00029	0.00025	0.00027	99.55%	81.20	99.30%	0.00726	26.90	98.82%	71.04	99.81%	0.00221	8.19	99.35%	77.55	98.40%	0.01624	60.15	97.84%	66.49
2	0.00020	0.00018	0.00019	99.52%	80.22	99.33%	0.00688	36.19	98.10%	70.56	99.81%	0.00207	10.88	99.13%	76.72	98.52%	0.01502	79.03	96.25%	66.58
3	0.00015	0.00013	0.00014	99.50%	79.24	99.36%	0.00653	46.64	97.43%	70.05	99.82%	0.00196	13.97	98.92%	75.88	98.62%	0.01390	99.31	94.80%	66.59
4	0.00012	0.00010	0.00011	99.49%	78.25	99.39%	0.00622	56.53	96.79%	69.50	99.82%	0.00186	16.95	98.73%	75.02	98.72%	0.01289	117.15	93.48%	66.52
5	0.00010	0.00009	0.00010	99.48%	77.26	99.42%	0.00593	62.46	96.19%	68.93	99.83%	0.00179	18.85	98.55%	74.16	98.81%	0.01196	125.85	92.28%	66.38
6	0.00008	0.00008	0.00008	99.47%	76.26	99.44%	0.00566	70.76	95.62%	68.34	99.84%	0.00172	21.50	98.37%	73.29	98.90%	0.01109	138.63	91.18%	66.18
7	0.00008	0.00007	0.00008	99.46%	75.27	99.47%	0.00541	72.12	95.08%	67.73	99.84%	0.00166	22.13	98.20%	72.42	98.98%	0.01030	137.28	90.16%	65.92
8	0.00008	0.00007	0.00008	99.45%	74.28	99.49%	0.00517	68.98	94.56%	67.10	99.85%	0.00161	21.43	98.04%	71.54	99.05%	0.00956	127.51	89.24%	65.60
9	0.00008	0.00007	0.00008	99.45%	73.28	99.51%	0.00495	65.97	94.07%	66.44	99.85%	0.00156	20.75	97.88%	70.65	99.12%	0.00888	118.44	88.38%	65.23
10	0.00009	0.00008	0.00009	99.44%	72.29	99.53%	0.00474	55.80	93.61%	65.77	99.86%	0.00152	17.84	97.73%	69.76	99.18%	0.00826	97.19	87.60%	64.81
11	0.00010	0.00009	0.00010	99.43%	71.29	99.55%	0.00455	47.86	93.17%	65.08	99.86%	0.00148	15.57	97.58%	68.87	99.24%	0.00768	80.89	86.87%	64.34
12	0.00012	0.00010	0.00011	99.42%	70.30	99.57%	0.00437	39.68	92.74%	64.38	99.87%	0.00145	13.16	97.44%	67.97	99.30%	0.00716	65.05	86.21%	63.84
13	0.00014	0.00012	0.00013	99.41%	69.31	99.59%	0.00420	32.28	92.34%	63.66	99.87%	0.00142	10.95	97.29%	67.07	99.35%	0.00667	51.31	85.59%	63.29
14	0.00018	0.00014	0.00016	99.40%	68.32	99.61%	0.00405	25.29	91.95%	62.92	99.87%	0.00141	8.81	97.16%	66.16	99.39%	0.00623	38.94	85.02%	62.71
15	0.00024	0.00017	0.00021	99.38%	67.33	99.63%	0.00392	19.12	91.58%	62.18	99.88%	0.00141	6.89	97.02%	65.25	99.44%	0.00584	28.49	84.49%	62.10
16	0.00032	0.00021	0.00027	99.36%	66.34	99.64%	0.00382	14.40	91.22%	61.42	99.88%	0.00143	5.41	96.88%	64.35	99.48%	0.00550	20.74	84.00%	61.47
17	0.00040	0.00024	0.00032	99.33%	65.36	99.66%	0.00371	11.61	90.87%	60.65	99.89%	0.00145	4.53	96.74%	63.44	99.51%	0.00518	16.17	83.53%	60.80
18	0.00048	0.00026	0.00037	99.30%	64.38	99.68%	0.00361	9.77	90.53%	59.88	99.89%	0.00146	3.95	96.60%	62.53	99.55%	0.00488	13.18	83.10%	60.12
19	0.00056	0.00027	0.00042	99.27%	63.40	99.69%	0.00352	8.47	90.21%	59.09	99.89%	0.00147	3.54	96.46%	61.62	99.58%	0.00460	11.08	82.70%	59.41
20	0.00063	0.00028	0.00046	99.22%	62.43	99.70%	0.00342	7.51	89.89%	58.30	99.90%	0.00147	3.24	96.32%	60.71	99.61%	0.00434	9.54	82.32%	58.68
21	0.00070	0.00029	0.00050	99.18%	61.46	99.72%	0.00333	6.72	89.58%	57.50	99.90%	0.00148	2.99	96.18%	59.80	99.64%	0.00410	8.28	81.96%	57.93
22	0.00075	0.00031	0.00053	99.13%	60.49	99.73%	0.00324	6.11	89.28%	56.69	99.90%	0.00148	2.80	96.04%	58.89	99.67%	0.00388	7.31	81.62%	57.17
23	0.00078	0.00032	0.00055	99.08%	59.52	99.74%	0.00314	5.70	88.99%	55.87	99.91%	0.00147	2.67	95.89%	57.97	99.69%	0.00366	6.65	81.31%	56.39
24	0.00080	0.00033	0.00057	99.02%	58.55	99.75%	0.00304	5.38	88.71%	55.04	99.91%	0.00146	2.58	95.75%	57.06	99.71%	0.00345	6.10	81.01%	55.60
25	0.00081	0.00034	0.00058	98.97%	57.58	99.76%	0.00294	5.11	88.45%	54.21	99.91%	0.00144	2.50	95.61%	56.14	99.73%	0.00325	5.66	80.73%	54.79
26	0.00082	0.00035	0.00059	98.91%	56.62	99.77%	0.00284	4.86	88.19%	53.37	99.92%	0.00142	2.42	95.48%	55.22	99.75%	0.00307	5.25	80.47%	53.96
27	0.00083	0.00037	0.00060	98.85%	55.65	99.78%	0.00276	4.60	87.93%	52.52	99.92%	0.00140	2.34	95.34%	54.30	99.77%	0.00291	4.84	80.22%	53.13
28	0.00085	0.00038	0.00062	98.79%	54.68	99.79%	0.00268	4.36	87.69%	51.66	99.92%	0.00139	2.26	95.21%	53.37	99.79%	0.00276	4.48	79.99%	52.28
29	0.00087	0.00040	0.00064	98.73%	53.72	99.80%	0.00261	4.11	87.46%	50.80	99.92%	0.00139	2.18	95.07%	52.45	99.80%	0.00262	4.13	79.77%	51.43
30	0.00090	0.00042	0.00066	98.67%	52.75	99.81%	0.00255	3.86	87.23%	49.93	99.93%	0.00139	2.10	94.94%	51.52	99.82%	0.00251	3.80	79.56%	50.56
40	0.00126	0.00077	0.00102	97.92%	43.11	99.88%	0.00221	2.18	85.23%	40.99	99.95%	0.00153	1.51	93.63%	42.17	99.91%	0.00189	1.86	77.89%	41.54
50	0.00297	0.00197	0.00247	96.38%	33.71		0.00400	1.62	82.77%	32.04		0.00313	1.27	91.63%	32.97		0.00359	1.45	75.92%	32.48
60	0.00716	0.00460	0.00588	92.84%	24.78		0.00797	1.35	78.34%	23.55		0.00678	1.15	87.59%	24.23		0.00740	1.26	72.19%	23.87
70	0.01834	0.01192	0.01513	84.58%	16.64		0.01824	1.21	69.60%	15.80		0.01647	1.09	78.94%	16.27		0.01740	1.15	64.57%	16.02
80	0.04999	0.03429	0.04214	65.73%	9.80		0.04742	1.13	51.94%	9.29		0.04442	1.05	60.29%	9.57		0.04600	1.09	48.72%	9.42
90	0.14500	0.10953	0.12727	30.93%	4.83		0.13797	1.08	22.58%	4.55		0.13188	1.04	27.42%	4.71		0.13509	1.06	21.64%	4.63
100	0.34979	0.30602	0.32791	2.84%	2.25		0.35089	1.07	1.69%	2.10		0.33782	1.03	2.30%	2.18		0.34470	1.05	1.71%	2.14

Regular life table (United States Life Tables, 2014) — columns: Males, Females, Mortality, Probability of survival, Life expectancy. Adjusted life table columns (repeated for Overall, Hemiplegia or monopolegia, and Other): Survival adjustment, Mortality, Implied mortality ratio, Probability of survival, Life expectancy.

B   Crichton et al (1995)

Target and fitted criteria are as follows:

Overall

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	93.8%	93.6%	0.004
0	20	89.6%	89.9%	0.009
0	30	87.4%	87.2%	0.003
0	40	85.2%	85.2%	0.000
Total				0.0166

Epilepsy - None

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	94.5%	95.1%	0.040
0	10	92.1%	91.9%	0.003
0	15	90.3%	89.6%	0.050
0	20	87.4%	87.8%	0.022
Total				0.1141

Epilepsy - Other

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	91.3%	88.9%	0.646
0	20	81.0%	82.7%	0.377
0	30	77.6%	78.8%	0.200
0	40	77.6%	76.2%	0.249
Total				1.4724

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (United States Life Tables, 2014) Males	Females	Mortality	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						4.42%					5.68%					4.71%				
0	0.00477	0.00425	0.00451	100.00%	81.83	99.27%	0.01180	2.62	100.00%	71.20	99.00%	0.01447	3.21	100.00%	70.13	98.63%	0.01819	4.03	100.00%	63.98
1	0.00029	0.00025	0.00027	99.55%	81.20	99.30%	0.00726	26.90	98.82%	71.04	99.06%	0.00971	35.95	98.55%	70.15	98.69%	0.01336	49.50	98.18%	64.16
2	0.00020	0.00018	0.00019	99.52%	80.22	99.33%	0.00688	36.19	98.10%	70.56	99.11%	0.00909	47.85	97.60%	69.83	98.75%	0.01267	66.68	96.87%	64.02
3	0.00015	0.00013	0.00014	99.50%	79.24	99.36%	0.00653	46.64	97.43%	70.05	99.16%	0.00854	60.98	96.71%	69.47	98.81%	0.01203	85.95	95.64%	63.84
4	0.00012	0.00010	0.00011	99.49%	78.25	99.39%	0.00622	56.53	96.79%	69.50	99.21%	0.00803	73.00	95.88%	69.06	98.87%	0.01144	104.03	94.49%	63.61
5	0.00010	0.00009	0.00010	99.48%	77.26	99.42%	0.00593	62.46	96.19%	68.93	99.25%	0.00757	79.64	95.11%	68.62	98.92%	0.01090	114.69	93.41%	63.34
6	0.00008	0.00008	0.00008	99.47%	76.26	99.44%	0.00566	70.76	95.62%	68.34	99.30%	0.00713	89.08	94.39%	68.14	98.97%	0.01037	129.66	92.39%	63.03
7	0.00008	0.00007	0.00008	99.46%	75.27	99.47%	0.00541	72.12	95.08%	67.73	99.34%	0.00672	89.62	93.72%	67.62	99.02%	0.00988	131.78	91.43%	62.69
8	0.00008	0.00007	0.00008	99.45%	74.28	99.49%	0.00517	68.98	94.56%	67.10	99.37%	0.00634	84.59	93.09%	67.08	99.07%	0.00942	125.62	90.53%	62.31
9	0.00008	0.00007	0.00008	99.45%	73.28	99.51%	0.00495	65.97	94.07%	66.44	99.41%	0.00599	79.84	92.50%	66.50	99.11%	0.00898	119.76	89.68%	61.90
10	0.00009	0.00008	0.00009	99.44%	72.29	99.53%	0.00474	55.80	93.61%	65.77	99.44%	0.00566	66.62	91.95%	65.90	99.15%	0.00857	100.86	88.87%	61.45
11	0.00010	0.00009	0.00010	99.43%	71.29	99.55%	0.00455	47.86	93.17%	65.08	99.47%	0.00536	56.37	91.43%	65.27	99.19%	0.00818	86.14	88.11%	60.98
12	0.00012	0.00010	0.00011	99.42%	70.30	99.57%	0.00437	39.68	92.74%	64.38	99.50%	0.00507	46.11	90.94%	64.62	99.23%	0.00782	71.07	87.39%	60.48
13	0.00014	0.00012	0.00013	99.41%	69.31	99.59%	0.00420	32.28	92.34%	63.66	99.53%	0.00481	37.00	90.47%	63.95	99.27%	0.00747	57.50	86.70%	59.95
14	0.00018	0.00014	0.00016	99.40%	68.32	99.61%	0.00405	25.29	91.95%	62.92	99.56%	0.00457	28.59	90.04%	63.26	99.30%	0.00716	44.74	86.06%	59.40
15	0.00024	0.00017	0.00021	99.38%	67.33	99.63%	0.00392	19.12	91.58%	62.18	99.58%	0.00437	21.31	89.63%	62.54	99.33%	0.00687	33.53	85.44%	58.82
16	0.00032	0.00021	0.00027	99.36%	66.34	99.64%	0.00382	14.40	91.22%	61.42	99.61%	0.00419	15.82	89.24%	61.82	99.36%	0.00662	24.98	84.85%	58.23
17	0.00040	0.00024	0.00032	99.33%	65.36	99.66%	0.00371	11.61	90.87%	60.65	99.63%	0.00402	12.57	88.86%	61.07	99.39%	0.00638	19.92	84.29%	57.61
18	0.00048	0.00026	0.00037	99.30%	64.38	99.68%	0.00361	9.77	90.53%	59.88	99.65%	0.00386	10.44	88.50%	60.32	99.42%	0.00614	16.60	83.75%	56.98
19	0.00056	0.00027	0.00042	99.27%	63.40	99.69%	0.00352	8.47	90.21%	59.09	99.67%	0.00371	8.94	88.16%	59.55	99.45%	0.00591	14.25	83.24%	56.33
20	0.00063	0.00028	0.00046	99.22%	62.43	99.70%	0.00342	7.51	89.89%	58.30	99.69%	0.00356	7.83	87.84%	58.77	99.48%	0.00569	12.52	82.75%	55.66
21	0.00070	0.00029	0.00050	99.18%	61.46	99.72%	0.00333	6.72	89.58%	57.50	99.71%	0.00343	6.92	87.52%	57.98	99.50%	0.00549	11.09	82.28%	54.98
22	0.00075	0.00031	0.00053	99.13%	60.49	99.73%	0.00324	6.11	89.28%	56.69	99.72%	0.00329	6.22	87.22%	57.18	99.52%	0.00529	9.98	81.82%	54.28
23	0.00078	0.00032	0.00055	99.08%	59.52	99.74%	0.00314	5.70	88.99%	55.87	99.74%	0.00316	5.74	86.94%	56.36	99.55%	0.00508	9.24	81.39%	53.56
24	0.00080	0.00033	0.00057	99.02%	58.55	99.75%	0.00304	5.38	88.71%	55.04	99.75%	0.00302	5.35	86.66%	55.54	99.57%	0.00489	8.65	80.98%	52.83
25	0.00081	0.00034	0.00058	98.97%	57.58	99.76%	0.00294	5.11	88.45%	54.21	99.77%	0.00289	5.03	86.40%	54.71	99.59%	0.00469	8.16	80.58%	52.09
26	0.00082	0.00035	0.00059	98.91%	56.62	99.77%	0.00284	4.86	88.19%	53.37	99.78%	0.00277	4.74	86.15%	53.87	99.61%	0.00451	7.71	80.20%	51.33
27	0.00083	0.00037	0.00060	98.85%	55.65	99.78%	0.00276	4.60	87.93%	52.52	99.79%	0.00266	4.44	85.91%	53.01	99.63%	0.00434	7.23	79.84%	50.56
28	0.00085	0.00038	0.00062	98.79%	54.68	99.79%	0.00268	4.36	87.69%	51.66	99.81%	0.00256	4.16	85.68%	52.15	99.64%	0.00418	6.79	79.50%	49.78
29	0.00087	0.00040	0.00064	98.73%	53.72	99.80%	0.00261	4.11	87.46%	50.80	99.82%	0.00247	3.89	85.46%	51.29	99.66%	0.00403	6.35	79.16%	48.99
30	0.00090	0.00042	0.00066	98.67%	52.75	99.81%	0.00255	3.86	87.23%	49.93	99.83%	0.00239	3.62	85.25%	50.41	99.68%	0.00390	5.90	78.85%	48.18
40	0.00126	0.00077	0.00102	97.92%	43.11	99.88%	0.00221	2.18	85.23%	40.99	99.90%	0.00198	1.95	83.46%	41.39	99.80%	0.00301	2.97	76.21%	39.69
50	0.00297	0.00197	0.00247	96.38%	33.71		0.00400	1.62	82.77%	32.04		0.00370	1.50	81.27%	32.36		0.00502	2.03	73.36%	31.02
60	0.00716	0.00460	0.00588	92.84%	24.78		0.00797	1.35	78.34%	23.55		0.00756	1.29	77.18%	23.78		0.00936	1.59	68.61%	22.79
70	0.01834	0.01192	0.01513	84.58%	16.64		0.01824	1.21	69.60%	15.80		0.01763	1.17	68.91%	15.96		0.02030	1.34	59.94%	15.29
80	0.04999	0.03429	0.04214	65.73%	9.80		0.04742	1.13	51.94%	9.29		0.04638	1.10	51.84%	9.38		0.05093	1.21	43.54%	8.97
90	0.14500	0.10953	0.12727	30.93%	4.83		0.13797	1.08	22.58%	4.55		0.13587	1.07	22.89%	4.61		0.14509	1.14	17.95%	4.39
100	0.34979	0.30602	0.32791	2.84%	2.25		0.35089	1.07	1.69%	2.10		0.34639	1.06	1.78%	2.13		0.36618	1.12	1.17%	2.01

B   Crichton et al (1995)

Target and fitted criteria are as follows:

Overall

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	93.8%	93.6%	0.004
0	20	89.6%	89.9%	0.009
0	30	87.4%	87.2%	0.003
0	40	85.2%	85.2%	0.000
Total				0.0166

Mental retardation - Non-existant to moderate

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	95.5%	95.8%	0.012
0	10	93.5%	93.5%	0.000
0	15	92.4%	91.9%	0.029
0	20	90.4%	90.7%	0.013
Total				0.0541

Mental retardation - Severe to profound

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	85.3%	83.7%	0.308
0	10	72.6%	73.7%	0.171
0	15	66.6%	67.2%	0.048
0	20	63.3%	62.7%	0.063
Total				0.5902

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (United States Life Tables, 2014)					Adjusted life table					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						4.42%					7.85%					5.99%				
0	0.00477	0.00425	0.00451	100.00%	81.83	99.27%	0.01180	2.62	100.00%	71.20	99.13%	0.01316	2.92	100.00%	74.06	96.17%	0.04266	9.46	100.00%	47.24
1	0.00029	0.00025	0.00027	99.55%	81.20	99.30%	0.00726	26.90	98.82%	71.04	99.20%	0.00828	30.65	98.68%	74.04	96.40%	0.03628	134.39	95.73%	48.32
2	0.00020	0.00018	0.00019	99.52%	80.22	99.33%	0.00688	36.19	98.10%	70.56	99.26%	0.00757	39.83	97.87%	73.65	96.61%	0.03405	179.21	92.26%	49.12
3	0.00015	0.00013	0.00014	99.50%	79.24	99.36%	0.00653	46.64	97.43%	70.05	99.32%	0.00694	49.56	97.13%	73.21	96.82%	0.03197	228.36	89.12%	49.83
4	0.00012	0.00010	0.00011	99.49%	78.25	99.39%	0.00622	56.53	96.79%	69.50	99.37%	0.00638	57.96	96.45%	72.72	97.01%	0.03003	273.04	86.27%	50.46
5	0.00010	0.00009	0.00010	99.48%	77.26	99.42%	0.00593	62.46	96.19%	68.93	99.42%	0.00587	61.78	95.84%	72.18	97.19%	0.02823	297.11	83.68%	51.01
6	0.00008	0.00008	0.00008	99.47%	76.26	99.44%	0.00566	70.76	95.62%	68.34	99.47%	0.00540	67.52	95.28%	71.60	97.36%	0.02653	331.56	81.32%	51.48
7	0.00008	0.00007	0.00008	99.46%	75.27	99.47%	0.00541	72.12	95.08%	67.73	99.51%	0.00498	66.38	94.76%	70.99	97.51%	0.02494	332.47	79.16%	51.87
8	0.00008	0.00007	0.00008	99.45%	74.28	99.49%	0.00517	68.98	94.56%	67.10	99.55%	0.00459	61.25	94.29%	70.34	97.66%	0.02345	312.60	77.19%	52.18
9	0.00008	0.00007	0.00008	99.45%	73.28	99.51%	0.00495	65.97	94.07%	66.44	99.58%	0.00424	56.53	93.86%	69.66	97.80%	0.02204	293.92	75.38%	52.42
10	0.00009	0.00008	0.00009	99.44%	72.29	99.53%	0.00474	55.80	93.61%	65.77	99.62%	0.00392	46.15	93.46%	68.96	97.93%	0.02074	243.97	73.71%	52.59
11	0.00010	0.00009	0.00010	99.43%	71.29	99.55%	0.00455	47.86	93.17%	65.08	99.65%	0.00363	38.23	93.09%	68.23	98.06%	0.01951	205.36	72.19%	52.69
12	0.00012	0.00010	0.00011	99.42%	70.30	99.57%	0.00437	39.68	92.74%	64.38	99.67%	0.00337	30.63	92.75%	67.47	98.17%	0.01836	166.91	70.78%	52.73
13	0.00014	0.00012	0.00013	99.41%	69.31	99.59%	0.00420	32.28	92.34%	63.66	99.70%	0.00313	24.10	92.44%	66.70	98.28%	0.01729	132.97	69.48%	52.71
14	0.00018	0.00014	0.00016	99.40%	68.32	99.61%	0.00405	25.29	91.95%	62.92	99.72%	0.00293	18.30	92.15%	65.91	98.39%	0.01629	101.80	68.28%	52.63
15	0.00024	0.00017	0.00021	99.38%	67.33	99.63%	0.00392	19.12	91.58%	62.18	99.74%	0.00276	13.44	91.88%	65.10	98.48%	0.01536	74.95	67.17%	52.49
16	0.00032	0.00021	0.00027	99.36%	66.34	99.64%	0.00382	14.40	91.22%	61.42	99.76%	0.00261	9.87	91.63%	64.28	98.57%	0.01452	54.78	66.13%	52.30
17	0.00040	0.00024	0.00032	99.33%	65.36	99.66%	0.00371	11.61	90.87%	60.65	99.78%	0.00249	7.77	91.39%	63.45	98.66%	0.01372	42.86	65.17%	52.06
18	0.00048	0.00026	0.00037	99.30%	64.38	99.68%	0.00361	9.77	90.53%	59.88	99.80%	0.00237	6.39	91.16%	62.60	98.74%	0.01296	35.03	64.28%	51.78
19	0.00056	0.00027	0.00042	99.27%	63.40	99.69%	0.00352	8.47	90.21%	59.09	99.82%	0.00225	5.43	90.95%	61.75	98.82%	0.01225	29.52	63.45%	51.45
20	0.00063	0.00028	0.00046	99.22%	62.43	99.70%	0.00342	7.51	89.89%	58.30	99.83%	0.00215	4.72	90.74%	60.89	98.89%	0.01158	25.45	62.67%	51.09
21	0.00070	0.00029	0.00050	99.18%	61.46	99.72%	0.00333	6.72	89.58%	57.50	99.84%	0.00206	4.15	90.55%	60.02	98.95%	0.01095	22.13	61.94%	50.68
22	0.00075	0.00031	0.00053	99.13%	60.49	99.73%	0.00324	6.11	89.28%	56.69	99.86%	0.00197	3.71	90.36%	59.14	99.02%	0.01036	19.55	61.26%	50.24
23	0.00078	0.00032	0.00055	99.08%	59.52	99.74%	0.00314	5.70	88.99%	55.87	99.87%	0.00188	3.41	90.18%	58.26	99.08%	0.00979	17.80	60.63%	49.76
24	0.00080	0.00033	0.00057	99.02%	58.55	99.75%	0.00304	5.38	88.71%	55.04	99.88%	0.00179	3.16	90.01%	57.37	99.13%	0.00925	16.38	60.04%	49.24
25	0.00081	0.00034	0.00058	98.97%	57.58	99.76%	0.00294	5.11	88.45%	54.21	99.89%	0.00170	2.96	89.85%	56.47	99.18%	0.00874	15.20	59.48%	48.70
26	0.00082	0.00035	0.00059	98.91%	56.62	99.77%	0.00284	4.86	88.19%	53.37	99.90%	0.00162	2.77	89.70%	55.56	99.23%	0.00826	14.12	58.96%	48.12
27	0.00083	0.00037	0.00060	98.85%	55.65	99.78%	0.00276	4.60	87.93%	52.52	99.90%	0.00156	2.59	89.55%	54.65	99.28%	0.00782	13.03	58.47%	47.52
28	0.00085	0.00038	0.00062	98.79%	54.68	99.79%	0.00268	4.36	87.69%	51.66	99.91%	0.00150	2.43	89.41%	53.74	99.32%	0.00740	12.03	58.02%	46.89
29	0.00087	0.00040	0.00064	98.73%	53.72	99.80%	0.00261	4.11	87.46%	50.80	99.92%	0.00145	2.28	89.28%	52.82	99.36%	0.00701	11.04	57.59%	46.24
30	0.00090	0.00042	0.00066	98.67%	52.75	99.81%	0.00255	3.86	87.23%	49.93	99.93%	0.00141	2.13	89.15%	51.89	99.40%	0.00666	10.08	57.18%	45.56
40	0.00126	0.00077	0.00102	97.92%	43.11	99.88%	0.00221	2.18	85.23%	40.99	99.97%	0.00135	1.33	88.00%	42.51	99.68%	0.00425	4.18	54.18%	37.83
50	0.00297	0.00197	0.00247	96.38%	33.71		0.00400	1.62	82.77%	32.04		0.00289	1.17	86.30%	33.23		0.00660	2.67	51.44%	29.57
60	0.00716	0.00460	0.00588	92.84%	24.78		0.00797	1.35	78.34%	23.55		0.00645	1.10	82.73%	24.43		0.01150	1.96	47.24%	21.71
70	0.01834	0.01192	0.01513	84.58%	16.64		0.01824	1.21	69.60%	15.80		0.01599	1.06	74.85%	16.40		0.02350	1.55	40.21%	14.55
80	0.04999	0.03429	0.04214	65.73%	9.80		0.04742	1.13	51.94%	9.29		0.04359	1.03	57.52%	9.65		0.05635	1.34	28.01%	8.53
90	0.14500	0.10953	0.12727	30.93%	4.83		0.13797	1.08	22.58%	4.55		0.13021	1.02	26.49%	4.75		0.15609	1.23	10.63%	4.15
100	0.34979	0.30602	0.32791	2.84%	2.25		0.35089	1.07	1.69%	2.10		0.33424	1.02	2.30%	2.21		0.38981	1.19	0.56%	1.89

C   Plioplys et al (1998)

Target and fitted criteria are as follows:

Group 1 - Tube fed, Not rolling, No hand or arm use

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	75%	75%	0.019
0	10	66%	66%	0.002
0	15	63%	62%	0.132
0	20	60%	60%	0.003
0	25	59%	59%	0.000
0	30	58%	58%	0.021
Total				0.1765

Group 2 - Tube fed, Not rolling, Hand or arm use present

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	89%	93%	1.847
0	10	84%	87%	1.428
0	15	84%	82%	0.271
0	20	84%	78%	4.368
0	25	73%	74%	0.075
0	30	68%	70%	0.538
Total				8.5264

Group 3 - Fed by others, Not rolling, No hand or arm use

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	91%	91%	0.000
0	10	89%	86%	0.789
0	15	81%	84%	0.878
0	20	81%	82%	0.114
0	25	81%	81%	0.009
0	30	81%	80%	0.174
Total				1.9635

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						13.66%					1.18%					9.84%				
0	0.00633	0.00531	0.00582	100.00%	78.72	92.96%	0.07581	13.03	100.00%	47.89	98.67%	0.01901	3.27	100.00%	48.80	97.89%	0.02679	4.60	100.00%	63.71
1	0.00039	0.00034	0.00037	99.42%	78.17	93.92%	0.06114	165.44	92.42%	50.77	98.69%	0.01347	36.46	98.10%	48.74	98.10%	0.01939	52.46	97.32%	64.45
2	0.00028	0.00022	0.00025	99.38%	77.20	94.75%	0.05272	212.80	86.77%	53.05	98.70%	0.01320	53.26	96.78%	48.40	98.28%	0.01740	70.21	95.43%	64.72
3	0.00021	0.00016	0.00018	99.36%	76.22	95.47%	0.04550	248.21	82.19%	54.97	98.72%	0.01298	70.81	95.50%	48.04	98.45%	0.01565	85.35	93.77%	64.85
4	0.00019	0.00013	0.00016	99.34%	75.24	96.09%	0.03928	249.42	78.45%	56.57	98.74%	0.01280	81.28	94.26%	47.66	98.61%	0.01410	89.52	92.31%	64.88
5	0.00016	0.00012	0.00014	99.32%	74.25	96.62%	0.03393	239.82	75.37%	57.86	98.75%	0.01264	89.33	93.05%	47.28	98.74%	0.01271	89.86	91.01%	64.80
6	0.00014	0.00011	0.00013	99.31%	73.26	97.08%	0.02930	233.32	72.82%	58.88	98.77%	0.01247	99.34	91.88%	46.88	98.87%	0.01146	91.26	89.85%	64.62
7	0.00013	0.00010	0.00011	99.30%	72.27	97.48%	0.02530	224.58	70.68%	59.64	98.78%	0.01231	109.30	90.73%	46.46	98.98%	0.01033	91.71	88.82%	64.37
8	0.00011	0.00009	0.00010	99.29%	71.28	97.82%	0.02185	215.83	68.89%	60.17	98.79%	0.01216	120.10	89.62%	46.03	99.08%	0.00932	92.02	87.90%	64.03
9	0.00010	0.00008	0.00009	99.28%	70.28	98.12%	0.01887	204.90	67.39%	60.51	98.81%	0.01201	130.37	88.53%	45.59	99.17%	0.00840	91.21	87.08%	63.63
10	0.00009	0.00008	0.00009	99.27%	69.29	98.38%	0.01630	184.26	66.12%	60.66	98.82%	0.01186	134.06	87.46%	45.14	99.25%	0.00758	85.66	86.35%	63.17
11	0.00010	0.00009	0.00010	99.26%	68.30	98.60%	0.01410	147.26	65.04%	60.66	98.84%	0.01173	122.54	86.43%	44.68	99.32%	0.00685	71.56	85.70%	62.64
12	0.00014	0.00010	0.00012	99.25%	67.30	98.79%	0.01221	101.69	64.12%	60.52	98.85%	0.01162	96.75	85.41%	44.20	99.39%	0.00621	51.72	85.11%	62.07
13	0.00021	0.00013	0.00017	99.24%	66.31	98.96%	0.01060	64.20	63.34%	60.26	98.86%	0.01152	69.79	84.42%	43.72	99.45%	0.00566	34.25	84.58%	61.46
14	0.00030	0.00016	0.00023	99.22%	65.32	99.10%	0.00924	40.70	62.67%	59.90	98.88%	0.01145	50.45	83.45%	43.22	99.50%	0.00518	22.81	84.10%	60.80
15	0.00039	0.00019	0.00029	99.20%	64.34	99.22%	0.00807	27.52	62.09%	59.45	98.89%	0.01138	38.80	82.49%	42.72	99.55%	0.00476	16.21	83.67%	60.12
16	0.00050	0.00023	0.00036	99.17%	63.35	99.33%	0.00708	19.53	61.59%	58.93	98.90%	0.01132	31.23	81.55%	42.20	99.60%	0.00439	12.10	83.27%	59.40
17	0.00062	0.00027	0.00044	99.13%	62.38	99.42%	0.00624	14.14	61.15%	58.35	98.92%	0.01127	25.52	80.63%	41.68	99.64%	0.00407	9.22	82.90%	58.66
18	0.00075	0.00031	0.00053	99.09%	61.40	99.50%	0.00554	10.48	60.77%	57.71	98.93%	0.01123	21.25	79.72%	41.15	99.67%	0.00380	7.19	82.57%	57.90
19	0.00089	0.00034	0.00062	99.04%	60.44	99.57%	0.00494	8.02	60.43%	57.03	98.94%	0.01119	18.16	78.82%	40.61	99.70%	0.00356	5.79	82.25%	57.12
20	0.00103	0.00038	0.00070	98.97%	59.47	99.63%	0.00444	6.30	60.14%	56.31	98.95%	0.01115	15.82	77.94%	40.06	99.73%	0.00336	4.77	81.96%	56.32
21	0.00116	0.00041	0.00079	98.90%	58.51	99.68%	0.00401	5.10	59.87%	55.56	98.97%	0.01111	14.14	77.07%	39.51	99.76%	0.00318	4.05	81.68%	55.51
22	0.00125	0.00044	0.00085	98.83%	57.56	99.72%	0.00363	4.28	59.63%	54.78	98.98%	0.01105	13.04	76.22%	38.95	99.78%	0.00301	3.55	81.42%	54.69
23	0.00131	0.00047	0.00089	98.74%	56.61	99.76%	0.00329	3.71	59.41%	53.98	98.99%	0.01096	12.35	75.38%	38.38	99.81%	0.00284	3.19	81.18%	53.85
24	0.00133	0.00050	0.00091	98.66%	55.66	99.79%	0.00299	3.27	59.22%	53.16	99.00%	0.01087	11.90	74.55%	37.80	99.82%	0.00267	2.92	80.95%	53.00
25	0.00135	0.00052	0.00093	98.57%	54.71	99.82%	0.00273	2.92	59.04%	52.32	99.02%	0.01077	11.53	73.74%	37.21	99.84%	0.00252	2.69	80.73%	52.14
26	0.00137	0.00055	0.00096	98.47%	53.76	99.85%	0.00251	2.61	58.88%	51.46	99.03%	0.01068	11.13	72.94%	36.61	99.86%	0.00239	2.49	80.53%	51.27
27	0.00139	0.00058	0.00099	98.38%	52.81	99.87%	0.00232	2.35	58.73%	50.59	99.04%	0.01059	10.73	72.17%	36.00	99.87%	0.00227	2.30	80.34%	50.39
28	0.00142	0.00061	0.00102	98.28%	51.86	99.88%	0.00217	2.13	58.59%	49.70	99.05%	0.01051	10.32	71.40%	35.38	99.88%	0.00218	2.14	80.15%	49.51
29	0.00146	0.00064	0.00105	98.18%	50.92	99.90%	0.00205	1.94	58.47%	48.81	99.06%	0.01043	9.91	70.65%	34.75	99.90%	0.00210	1.99	79.98%	48.61
30	0.00150	0.00068	0.00109	98.08%	49.97	99.91%	0.00195	1.79	58.35%	47.91	99.07%	0.01036	9.50	69.91%	34.11	99.91%	0.00203	1.87	79.81%	47.72
40	0.00214	0.00135	0.00174	96.79%	40.56		0.00280	1.61	57.04%	38.89		0.01316	7.55	62.28%	27.66		0.00291	1.67	77.95%	38.73
50	0.00503	0.00321	0.00412	94.34%	31.47		0.00549	1.33	54.94%	30.16		0.01884	4.57	53.36%	21.42		0.00562	1.36	74.99%	30.04
60	0.01137	0.00672	0.00904	88.70%	23.11		0.01090	1.21	50.85%	22.15		0.02909	3.22	42.27%	15.69		0.01108	1.23	69.30%	22.06
70	0.02270	0.01514	0.01892	78.15%	15.49		0.02169	1.15	43.80%	14.84		0.04881	2.58	29.14%	10.45		0.02196	1.16	59.57%	14.77
80	0.05750	0.04213	0.04981	57.65%	9.03		0.05457	1.10	31.15%	8.64		0.10108	2.03	14.40%	6.00		0.05503	1.10	42.22%	8.60
90	0.16233	0.12810	0.14521	23.77%	4.48		0.15479	1.07	11.95%	4.27		0.24851	1.71	2.63%	2.85		0.15573	1.07	16.07%	4.25
100	1.00000	1.00000	1.00000	1.80%	2.15		1.01997	1.02	0.75%	2.11		1.21543	1.22	0.02%	1.77		1.02193	1.02	1.00%	2.10

D   Blair et al (2001)

Target and fitted criteria are as follows:

All individuals with cerebral palsy

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	94%	95%	0.059
0	10	91%	91%	0.013
0	15	89%	89%	0.000
0	20	88%	87%	0.085
0	25	86%	86%	0.007
0	30	85%	85%	0.011
0	35	83%	84%	0.079
Total				0.2544

Disability score 1 to 3

Relative hazard ratios

From	To	Target	Fitted	Deviation
1	5	7%	6%	1.544
5	40	22%	23%	0.707
Total				2.2513

Disability score 4 to 6

Relative hazard ratios

From	To	Target	Fitted	Deviation
1	5	25%	25%	0.000
5	40	37%	37%	0.000
Total				0.0000

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (Australia, 2014-16)					Adjusted life table					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						6.21%					0.00%					5.16%				
0	0.00357	0.00330	0.00344	100.00%	82.38	98.88%	0.01463	4.26	100.00%	69.48	99.96%	0.00386	1.12	100.00%	80.54	99.74%	0.00604	1.76	100.00%	78.77
1	0.00029	0.00022	0.00026	99.66%	81.66	98.95%	0.01079	42.32	98.54%	69.50	99.96%	0.00068	2.68	99.61%	79.85	99.75%	0.00273	10.70	99.40%	78.25
2	0.00016	0.00013	0.00015	99.63%	80.69	99.01%	0.01003	69.17	97.47%	69.25	99.96%	0.00057	3.95	99.55%	78.90	99.77%	0.00249	17.19	99.13%	77.46
3	0.00014	0.00011	0.00013	99.62%	79.70	99.07%	0.00940	75.17	96.50%	68.95	99.96%	0.00055	4.42	99.49%	77.94	99.78%	0.00235	18.81	98.88%	76.65
4	0.00012	0.00010	0.00011	99.60%	78.71	99.13%	0.00881	80.05	95.59%	68.60	99.96%	0.00054	4.89	99.43%	76.99	99.79%	0.00222	20.19	98.65%	75.83
5	0.00011	0.00009	0.00010	99.59%	77.72	99.18%	0.00826	82.56	94.75%	68.20	99.96%	0.00053	5.28	99.38%	76.03	99.80%	0.00210	21.02	98.43%	75.00
6	0.00010	0.00008	0.00009	99.58%	76.72	99.23%	0.00774	86.00	93.96%	67.77	99.96%	0.00052	5.75	99.33%	75.07	99.81%	0.00199	22.10	98.22%	74.15
7	0.00009	0.00007	0.00008	99.57%	75.73	99.28%	0.00726	90.69	93.24%	67.29	99.96%	0.00051	6.35	99.28%	74.11	99.82%	0.00188	23.51	98.02%	73.30
8	0.00008	0.00007	0.00008	99.57%	74.74	99.33%	0.00681	90.73	92.56%	66.78	99.96%	0.00050	6.71	99.23%	73.14	99.83%	0.00178	23.77	97.84%	72.44
9	0.00008	0.00007	0.00008	99.56%	73.74	99.37%	0.00639	85.16	91.93%	66.24	99.96%	0.00050	6.71	99.18%	72.18	99.84%	0.00169	22.60	97.67%	71.57
10	0.00008	0.00007	0.00008	99.55%	72.75	99.41%	0.00600	79.94	91.34%	65.66	99.96%	0.00050	6.71	99.13%	71.22	99.85%	0.00161	21.48	97.50%	70.69
11	0.00009	0.00008	0.00009	99.54%	71.75	99.44%	0.00564	66.33	90.80%	65.05	99.96%	0.00051	6.03	99.08%	70.25	99.85%	0.00154	18.14	97.34%	69.80
12	0.00010	0.00009	0.00010	99.54%	70.76	99.48%	0.00530	55.83	90.28%	64.42	99.96%	0.00052	5.50	99.03%	69.29	99.86%	0.00148	15.55	97.19%	68.91
13	0.00012	0.00010	0.00011	99.53%	69.77	99.51%	0.00500	45.41	89.81%	63.76	99.96%	0.00054	4.89	98.97%	68.32	99.87%	0.00142	12.91	97.05%	68.01
14	0.00016	0.00013	0.00015	99.52%	68.77	99.54%	0.00473	32.60	89.36%	63.08	99.96%	0.00057	3.95	98.92%	67.36	99.88%	0.00139	9.57	96.91%	67.11
15	0.00022	0.00015	0.00019	99.50%	67.78	99.57%	0.00448	24.23	88.93%	62.37	99.96%	0.00061	3.31	98.86%	66.40	99.88%	0.00136	7.37	96.78%	66.20
16	0.00030	0.00018	0.00024	99.48%	66.80	99.60%	0.00427	17.79	88.54%	61.65	99.96%	0.00067	2.78	98.80%	65.44	99.89%	0.00136	5.66	96.64%	65.29
17	0.00038	0.00020	0.00029	99.46%	65.81	99.62%	0.00407	14.03	88.16%	60.91	99.96%	0.00072	2.48	98.74%	64.48	99.89%	0.00135	4.66	96.51%	64.38
18	0.00045	0.00021	0.00033	99.43%	64.83	99.65%	0.00388	11.74	87.80%	60.16	99.96%	0.00076	2.30	98.67%	63.53	99.90%	0.00134	4.05	96.38%	63.46
19	0.00052	0.00022	0.00037	99.40%	63.85	99.67%	0.00370	9.99	87.46%	59.39	99.96%	0.00080	2.16	98.59%	62.58	99.90%	0.00132	3.58	96.25%	62.55
20	0.00056	0.00023	0.00040	99.36%	62.87	99.69%	0.00351	8.90	87.14%	58.61	99.96%	0.00082	2.08	98.51%	61.63	99.91%	0.00130	3.29	96.13%	61.63
21	0.00059	0.00023	0.00041	99.32%	61.90	99.71%	0.00334	8.13	86.83%	57.82	99.96%	0.00084	2.04	98.43%	60.68	99.91%	0.00127	3.09	96.00%	60.71
22	0.00061	0.00024	0.00043	99.28%	60.92	99.73%	0.00317	7.46	86.54%	57.01	99.96%	0.00085	2.01	98.35%	59.73	99.92%	0.00124	2.91	95.88%	59.78
23	0.00063	0.00025	0.00044	99.24%	59.95	99.74%	0.00301	6.85	86.27%	56.19	99.96%	0.00087	1.97	98.27%	58.78	99.92%	0.00121	2.75	95.76%	58.86
24	0.00064	0.00026	0.00045	99.19%	58.98	99.76%	0.00286	6.36	86.01%	55.36	99.96%	0.00088	1.95	98.18%	57.83	99.93%	0.00118	2.63	95.65%	57.93
25	0.00065	0.00027	0.00046	99.15%	58.00	99.77%	0.00272	5.92	85.76%	54.51	99.96%	0.00089	1.93	98.09%	56.88	99.93%	0.00115	2.51	95.53%	57.00
26	0.00066	0.00028	0.00047	99.10%	57.03	99.79%	0.00259	5.52	85.53%	53.66	99.96%	0.00090	1.91	98.01%	55.93	99.93%	0.00113	2.40	95.42%	56.06
27	0.00068	0.00029	0.00049	99.06%	56.06	99.80%	0.00248	5.11	85.30%	52.80	99.96%	0.00091	1.88	97.92%	54.98	99.94%	0.00111	2.29	95.32%	55.12
28	0.00070	0.00031	0.00051	99.01%	55.08	99.81%	0.00237	4.70	85.09%	51.93	99.96%	0.00093	1.85	97.83%	54.03	99.94%	0.00110	2.17	95.21%	54.19
29	0.00073	0.00033	0.00053	98.96%	54.11	99.82%	0.00228	4.31	84.89%	51.05	99.96%	0.00096	1.81	97.74%	53.08	99.94%	0.00109	2.06	95.10%	53.24
30	0.00077	0.00036	0.00057	98.91%	53.14	99.84%	0.00221	3.91	84.70%	50.17	99.96%	0.00099	1.76	97.64%	52.13	99.95%	0.00110	1.94	95.00%	52.30
40	0.00142	0.00078	0.00110	98.14%	43.51		0.00242	2.20	82.92%	41.14	99.96%	0.00153	1.39	96.47%	42.70	99.97%	0.00141	1.28	93.87%	42.87
50	0.00298	0.00180	0.00239	96.59%	34.12		0.00408	1.71	80.41%	32.25		0.00294	1.23	94.45%	33.49		0.00279	1.17	91.93%	33.66
60	0.00675	0.00398	0.00537	93.23%	25.15		0.00766	1.43	76.12%	23.76		0.00610	1.14	90.60%	24.68		0.00591	1.10	88.32%	24.80
70	0.01613	0.00994	0.01304	85.99%	16.79		0.01647	1.26	68.29%	15.85		0.01414	1.09	82.82%	16.47		0.01385	1.06	80.93%	16.56
80	0.04793	0.03188	0.03991	68.61%	9.59		0.04591	1.15	52.09%	9.03		0.04185	1.05	65.13%	9.40		0.04133	1.04	63.90%	9.45
90	0.15455	0.12362	0.13909	31.16%	4.58		0.15166	1.09	21.56%	4.29		0.14315	1.03	28.71%	4.48		0.14206	1.02	28.39%	4.51
100	0.34389	0.31851	0.33120	2.52%	2.20		0.35738	1.08	1.37%	2.04		0.33965	1.03	2.15%	2.15		0.33739	1.02	2.17%	2.16

D   Blair et al (2001)

Target and fitted criteria are as follows:

Disability score 7 to 9

Relative hazard ratios

From	To	Target	Fitted	Deviation
1	5	236%	236%	0.000
5	40	213%	213%	0.000
Total				0.0000

Disability score 10 to 12

Relative hazard ratios

From	To	Target	Fitted	Deviation
1	5	452%	452%	0.000
5	40	523%	523%	0.000
Total				0.0000

Severe CP

Probabilities of survival

From	To	Target	Fitted	Deviation
0	5	85%	86%	0.180
0	10	78%	78%	0.006
0	15	73%	72%	0.080
0	20	69%	68%	0.045
0	25	65%	66%	0.093
Total				0.4041

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
			Regular life table (Australia, 2014-16)			Adjusted life table					Adjusted life table					Adjusted life table				
						6.04%					2.49%					6.44%				
0	0.00357	0.00330	0.00344	100.00%	82.38	97.28%	0.03056	8.90	100.00%	55.38	95.06%	0.05268	15.34	100.00%	26.50	96.77%	0.03561	10.37	100.00%	47.49
1	0.00029	0.00022	0.00026	99.66%	81.66	97.44%	0.02582	101.27	96.94%	56.11	95.18%	0.04843	189.93	94.73%	26.94	96.98%	0.03045	119.43	96.44%	48.22
2	0.00016	0.00013	0.00015	99.63%	80.69	97.60%	0.02417	166.70	94.44%	56.59	95.30%	0.04713	325.03	90.14%	27.29	97.17%	0.02840	195.87	93.50%	48.72
3	0.00014	0.00011	0.00013	99.62%	79.70	97.74%	0.02270	181.60	92.16%	56.97	95.42%	0.04594	367.53	85.90%	27.62	97.36%	0.02656	212.49	90.85%	49.13
4	0.00012	0.00010	0.00011	99.60%	78.71	97.88%	0.02132	193.82	90.07%	57.29	95.53%	0.04479	407.16	81.95%	27.92	97.53%	0.02484	225.85	88.43%	49.46
5	0.00011	0.00009	0.00010	99.59%	77.72	98.01%	0.02003	200.28	88.15%	57.52	95.64%	0.04367	436.67	78.28%	28.21	97.69%	0.02324	232.39	86.24%	49.70
6	0.00010	0.00008	0.00009	99.58%	76.72	98.13%	0.01881	209.04	86.38%	57.69	95.75%	0.04257	473.04	74.86%	28.47	97.83%	0.02174	241.54	84.23%	49.88
7	0.00009	0.00007	0.00008	99.57%	75.73	98.24%	0.01767	220.90	84.75%	57.79	95.86%	0.04151	518.84	71.67%	28.72	97.97%	0.02033	254.17	82.40%	49.97
8	0.00008	0.00007	0.00008	99.57%	74.74	98.35%	0.01660	221.39	83.26%	57.82	95.96%	0.04047	539.63	68.70%	28.94	98.11%	0.01902	253.65	80.73%	50.00
9	0.00008	0.00007	0.00008	99.56%	73.74	98.45%	0.01560	208.06	81.87%	57.78	96.06%	0.03947	526.24	65.92%	29.14	98.23%	0.01780	237.37	79.19%	49.96
10	0.00008	0.00007	0.00008	99.55%	72.75	98.54%	0.01467	195.55	80.60%	57.69	96.16%	0.03849	513.17	63.32%	29.31	98.34%	0.01666	222.13	77.78%	49.86
11	0.00009	0.00008	0.00009	99.54%	71.75	98.63%	0.01379	162.28	79.41%	57.54	96.25%	0.03754	441.67	60.88%	29.47	98.45%	0.01560	183.54	76.48%	49.69
12	0.00010	0.00009	0.00010	99.54%	70.76	98.71%	0.01298	136.58	78.32%	57.34	96.35%	0.03662	385.48	58.59%	29.60	98.55%	0.01461	153.80	75.29%	49.47
13	0.00012	0.00010	0.00011	99.53%	69.77	98.79%	0.01221	111.01	77.30%	57.09	96.44%	0.03573	324.79	56.45%	29.70	98.64%	0.01369	124.46	74.19%	49.20
14	0.00016	0.00013	0.00015	99.52%	68.77	98.86%	0.01151	79.41	76.36%	56.79	96.53%	0.03487	240.51	54.43%	29.79	98.73%	0.01285	88.62	73.18%	48.87
15	0.00022	0.00015	0.00019	99.50%	67.78	98.93%	0.01087	58.74	75.48%	56.44	96.61%	0.03405	184.05	52.53%	29.84	98.81%	0.01207	65.25	72.23%	48.50
16	0.00030	0.00018	0.00024	99.48%	66.80	99.00%	0.01028	42.81	74.66%	56.06	96.70%	0.03326	138.58	50.74%	29.88	98.89%	0.01136	47.33	71.36%	48.09
17	0.00038	0.00020	0.00029	99.46%	65.81	99.06%	0.00972	33.51	73.89%	55.63	96.78%	0.03249	112.03	49.06%	29.89	98.96%	0.01069	36.87	70.55%	47.64
18	0.00045	0.00021	0.00033	99.43%	64.83	99.11%	0.00919	27.84	73.17%	55.18	96.86%	0.03173	96.14	47.46%	29.88	99.03%	0.01006	30.49	69.80%	47.15
19	0.00052	0.00022	0.00037	99.40%	63.85	99.17%	0.00869	23.49	72.50%	54.68	96.94%	0.03098	83.74	45.96%	29.84	99.09%	0.00947	25.61	69.10%	46.62
20	0.00056	0.00023	0.00040	99.36%	62.87	99.22%	0.00821	20.80	71.87%	54.16	97.01%	0.03025	76.57	44.53%	29.78	99.15%	0.00891	22.56	68.44%	46.06
21	0.00059	0.00023	0.00041	99.32%	61.90	99.27%	0.00776	18.92	71.28%	53.60	97.09%	0.02952	72.00	43.19%	29.69	99.20%	0.00838	20.43	67.83%	45.47
22	0.00061	0.00024	0.00043	99.28%	60.92	99.31%	0.00733	17.24	70.73%	53.02	97.16%	0.02881	67.79	41.91%	29.58	99.25%	0.00788	18.54	67.26%	44.85
23	0.00063	0.00025	0.00044	99.24%	59.95	99.35%	0.00692	15.74	70.21%	52.41	97.23%	0.02812	63.90	40.70%	29.44	99.30%	0.00741	16.85	66.73%	44.20
24	0.00064	0.00026	0.00045	99.19%	58.98	99.39%	0.00654	14.54	69.72%	51.77	97.30%	0.02744	60.98	39.56%	29.28	99.35%	0.00697	15.50	66.24%	43.53
25	0.00065	0.00027	0.00046	99.15%	58.00	99.43%	0.00618	13.44	69.27%	51.10	97.37%	0.02678	58.21	38.47%	29.09	99.39%	0.00656	14.27	65.78%	42.83
26	0.00066	0.00028	0.00047	99.10%	57.03	99.46%	0.00585	12.44	68.84%	50.42	97.43%	0.02613	55.60	37.44%	28.87		0.00668	14.21	65.34%	42.11
27	0.00068	0.00029	0.00049	99.06%	56.06	99.49%	0.00554	11.42	68.44%	49.71	97.50%	0.02551	52.60	36.47%	28.64		0.00680	14.02	64.91%	41.39
28	0.00070	0.00031	0.00051	99.01%	55.08	99.52%	0.00525	10.40	68.06%	48.99	97.56%	0.02491	49.32	35.54%	28.37		0.00693	13.73	64.47%	40.67
29	0.00073	0.00033	0.00053	98.96%	54.11	99.55%	0.00499	9.42	67.70%	48.24	97.62%	0.02432	45.89	34.65%	28.08		0.00707	13.35	64.02%	39.95
30	0.00077	0.00036	0.00057	98.91%	53.14	99.58%	0.00476	8.42	67.36%	47.48	97.68%	0.02377	42.06	33.81%	27.77		0.00723	12.79	63.57%	39.23
40	0.00142	0.00078	0.00110	98.14%	43.51	99.78%	0.00335	3.04	64.72%	39.23	98.20%	0.01913	17.39	27.19%	23.40		0.00924	8.40	58.63%	32.11
50	0.00298	0.00180	0.00239	96.59%	34.12		0.00525	2.20	61.39%	31.07		0.02538	10.62	20.81%	19.02		0.01277	5.34	52.67%	25.15
60	0.00675	0.00398	0.00537	93.23%	25.15		0.00925	1.72	57.33%	22.88		0.03656	6.81	15.37%	13.96		0.01944	3.62	45.09%	18.50
70	0.01613	0.00994	0.01304	85.99%	16.79		0.01885	1.45	50.46%	15.26		0.05975	4.58	9.66%	9.24		0.03412	2.62	35.05%	12.30
80	0.04793	0.03188	0.03991	68.61%	9.59		0.05009	1.26	37.29%	8.68		0.12171	3.05	4.09%	5.15		0.07683	1.93	21.12%	6.94
90	0.15455	0.12362	0.13909	31.16%	4.58		0.16041	1.15	14.46%	4.10		0.31031	2.23	0.48%	2.29		0.21638	1.56	5.34%	3.20
100	0.34389	0.31851	0.33120	2.52%	2.20		0.37561	1.13	0.78%	1.94		0.68771	2.08	0.00%	1.06		0.49213	1.49	0.09%	1.48

Target and fitted criteria are as follows:

No severe disabilities, low bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	99.6%	100%	0.000
2	20	99%	99%	0.001
2	30	98%	98%	0.000
Total				0.0011

Only severe ambulatory disabilities, low bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	98%	98%	0.000
2	20	96%	96%	0.000
2	30	94%	94%	0.000
Total				0.0004

Only severe ambulatory disabilities, normal bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	97%	97%	0.001
2	20	94%	94%	0.001
2	30	91%	91%	0.000
Total				0.0015

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (United Kingdom, 2014-16)					Adjusted life table					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%					2.05%					1.52%				
0	0.00423	0.00352	0.00387	100.00%	80.91	99.95%	0.00433	1.12	100.00%	78.82	99.73%	0.00653	1.69	100.00%	73.64	99.61%	0.00777	2.01	100.00%	69.52
1	0.00031	0.00025	0.00028	99.61%	80.22	99.95%	0.00074	2.69	99.57%	78.16	99.74%	0.00289	10.47	99.35%	73.12	99.61%	0.00414	14.98	99.22%	69.06
2	0.00016	0.00014	0.00015	99.59%	79.25	99.95%	0.00062	4.10	99.49%	77.21	99.74%	0.00271	18.06	99.06%	72.33	99.62%	0.00395	26.34	98.81%	68.35
3	0.00013	0.00011	0.00012	99.57%	78.26	99.95%	0.00058	5.01	99.43%	76.26	99.75%	0.00262	22.62	98.79%	71.52	99.63%	0.00386	33.28	98.42%	67.62
4	0.00009	0.00008	0.00009	99.56%	77.27	99.95%	0.00055	6.44	99.37%	75.30	99.75%	0.00254	29.73	98.53%	70.71	99.63%	0.00377	44.13	98.04%	66.88
5	0.00009	0.00007	0.00008	99.55%	76.27	99.95%	0.00054	6.85	99.32%	74.35	99.76%	0.00249	31.26	98.28%	69.89	99.64%	0.00371	46.68	97.67%	66.13
6	0.00009	0.00007	0.00008	99.54%	75.28	99.95%	0.00055	6.64	99.27%	73.39	99.76%	0.00244	29.56	98.04%	69.06	99.64%	0.00366	44.35	97.31%	65.37
7	0.00009	0.00007	0.00008	99.53%	74.29	99.95%	0.00054	6.85	99.21%	72.43	99.77%	0.00239	30.03	97.80%	68.23	99.65%	0.00360	45.31	96.95%	64.61
8	0.00007	0.00006	0.00006	99.53%	73.29	99.95%	0.00053	8.38	99.16%	71.47	99.77%	0.00232	36.89	97.57%	67.39	99.65%	0.00353	56.06	96.60%	63.84
9	0.00009	0.00007	0.00008	99.52%	72.30	99.95%	0.00054	7.04	99.10%	70.50	99.78%	0.00229	29.76	97.34%	66.55	99.66%	0.00349	45.37	96.26%	63.07
10	0.00009	0.00006	0.00008	99.51%	71.30	99.95%	0.00054	7.08	99.05%	69.54	99.78%	0.00225	29.36	97.12%	65.70	99.66%	0.00344	44.98	95.93%	62.29
11	0.00010	0.00006	0.00008	99.50%	70.31	99.95%	0.00055	6.78	99.00%	68.58	99.79%	0.00221	27.40	96.90%	64.84	99.67%	0.00339	42.16	95.60%	61.50
12	0.00010	0.00006	0.00008	99.50%	69.31	99.95%	0.00054	7.00	98.94%	67.62	99.79%	0.00216	27.86	96.68%	63.99	99.67%	0.00334	43.11	95.27%	60.71
13	0.00010	0.00011	0.00010	99.49%	68.32	99.95%	0.00057	5.49	98.89%	66.65	99.80%	0.00214	20.70	96.47%	63.12	99.68%	0.00332	32.05	94.95%	59.91
14	0.00013	0.00011	0.00012	99.48%	67.33	99.95%	0.00058	4.93	98.83%	65.69	99.80%	0.00212	17.85	96.27%	62.26	99.68%	0.00328	27.71	94.64%	59.11
15	0.00016	0.00014	0.00015	99.47%	66.33	99.95%	0.00061	4.14	98.78%	64.73	99.80%	0.00210	14.22	96.06%	61.39	99.69%	0.00326	22.06	94.33%	58.30
16	0.00021	0.00016	0.00019	99.45%	65.34	99.95%	0.00065	3.49	98.71%	63.77	99.81%	0.00210	11.24	95.86%	60.52	99.69%	0.00326	17.41	94.02%	57.49
17	0.00030	0.00015	0.00023	99.43%	64.36	99.95%	0.00069	3.07	98.65%	62.81	99.81%	0.00210	9.34	95.66%	59.64	99.70%	0.00325	14.43	93.71%	56.68
18	0.00041	0.00021	0.00031	99.41%	63.37	99.95%	0.00078	2.49	98.58%	61.85	99.82%	0.00215	6.90	95.46%	58.77	99.70%	0.00329	10.56	93.41%	55.86
19	0.00045	0.00021	0.00033	99.38%	62.39	99.95%	0.00080	2.41	98.51%	60.90	99.82%	0.00213	6.44	95.25%	57.89	99.71%	0.00326	9.86	93.10%	55.04
20	0.00047	0.00021	0.00034	99.35%	61.41	99.95%	0.00080	2.37	98.43%	59.95	99.82%	0.00210	6.21	95.05%	57.02	99.71%	0.00323	9.53	92.80%	54.22
21	0.00051	0.00022	0.00036	99.31%	60.43	99.95%	0.00083	2.28	98.35%	58.99	99.83%	0.00209	5.74	94.85%	56.14	99.72%	0.00321	8.81	92.50%	53.39
22	0.00050	0.00022	0.00036	99.28%	59.45	99.95%	0.00082	2.30	98.27%	58.04	99.83%	0.00205	5.71	94.65%	55.25	99.72%	0.00316	8.80	92.20%	52.56
23	0.00056	0.00023	0.00039	99.24%	58.47	99.95%	0.00086	2.18	98.19%	57.09	99.83%	0.00205	5.21	94.46%	54.36	99.72%	0.00315	8.00	91.91%	51.73
24	0.00055	0.00023	0.00039	99.20%	57.50	99.95%	0.00085	2.19	98.10%	56.14	99.84%	0.00201	5.17	94.27%	53.48	99.73%	0.00311	7.97	91.62%	50.89
25	0.00059	0.00025	0.00042	99.16%	56.52	99.95%	0.00088	2.11	98.02%	55.19	99.84%	0.00201	4.81	94.08%	52.58	99.73%	0.00309	7.41	91.34%	50.05
26	0.00063	0.00027	0.00045	99.12%	55.54	99.95%	0.00092	2.03	97.93%	54.24	99.84%	0.00201	4.46	93.89%	51.69	99.74%	0.00308	6.85	91.05%	49.20
27	0.00063	0.00027	0.00045	99.08%	54.57	99.95%	0.00092	2.03	97.84%	53.28	99.85%	0.00198	4.39	93.70%	50.79	99.74%	0.00304	6.76	90.77%	48.35
28	0.00067	0.00033	0.00050	99.03%	53.59	99.95%	0.00096	1.94	97.75%	52.33	99.85%	0.00199	4.01	93.51%	49.89	99.74%	0.00305	6.14	90.50%	47.50
29	0.00070	0.00035	0.00052	98.98%	52.62	99.95%	0.00099	1.89	97.66%	51.38	99.85%	0.00199	3.79	93.33%	48.99	99.75%	0.00304	5.80	90.22%	46.64
30	0.00074	0.00039	0.00056	98.93%	51.65	99.95%	0.00103	1.83	97.56%	50.43	99.86%	0.00200	3.54	93.14%	48.08	99.75%	0.00304	5.40	89.95%	45.78
40	0.00156	0.00094	0.00125	98.14%	42.02		0.00182	1.46	96.29%	41.03		0.00301	2.41	90.96%	39.11		0.00430	3.43	86.84%	37.24
50	0.00335	0.00214	0.00274	96.40%	32.67		0.00348	1.27	93.98%	31.90		0.00501	1.83	87.60%	30.41		0.00666	2.43	82.43%	28.94
60	0.00797	0.00526	0.00662	92.54%	23.80		0.00762	1.15	89.45%	23.23		0.00973	1.47	81.91%	22.14		0.01199	1.81	75.62%	21.06
70	0.01935	0.01301	0.01618	83.67%	15.73		0.01770	1.09	79.89%	15.35		0.02088	1.29	71.31%	14.61		0.02431	1.50	64.04%	13.89
80	0.05555	0.03999	0.04777	63.44%	8.94		0.05045	1.06	59.36%	8.72		0.05605	1.17	50.79%	8.28		0.06208	1.30	43.57%	7.86
90	0.16790	0.13835	0.15313	25.70%	4.32		0.15868	1.04	23.06%	4.20		0.17025	1.11	18.08%	3.97		0.18272	1.19	14.10%	3.74
100	0.37248	0.33058	0.35153	1.71%	2.15		0.36270	1.03	1.38%	2.08		0.38596	1.10	0.86%	1.96		0.41104	1.17	0.53%	1.84

E Hutton et al (2002)

Target and fitted criteria are as follows:

Severe motor disabilities, low bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	94%	94%	0.017
2	20	86%	86%	0.002
2	30	79%	79%	0.000
Total				0.0184

Severe motor disabilities, normal bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	91%	91%	0.000
2	20	81%	81%	0.000
2	30	72%	72%	0.000
Total				0.0001

Severe motor and cognitive disabilities, low bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	85%	85%	0.004
2	20	70%	70%	0.004
2	30	59%	59%	0.001
Total				0.0092

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United Kingdom, 2014-16)					Adjusted life table					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%					0.15%					0.96%				
0	0.00423	0.00352	0.00387	100.00%	80.91	99.19%	0.01197	3.09	100.00%	54.60	98.83%	0.01553	4.01	100.00%	48.10	97.86%	0.02518	6.51	100.00%	38.34
1	0.00031	0.00025	0.00028	99.61%	80.22	99.19%	0.00841	30.47	98.80%	54.25	98.83%	0.01196	43.33	98.45%	47.85	97.88%	0.02146	77.75	97.48%	38.31
2	0.00016	0.00014	0.00015	99.59%	79.25	99.19%	0.00828	55.23	97.97%	53.71	98.83%	0.01182	78.78	97.27%	47.42	97.90%	0.02113	140.88	95.39%	38.14
3	0.00013	0.00011	0.00012	99.57%	78.26	99.19%	0.00825	71.12	97.16%	53.15	98.83%	0.01177	101.43	96.12%	46.98	97.92%	0.02090	180.15	93.37%	37.96
4	0.00009	0.00008	0.00009	99.56%	77.27	99.19%	0.00822	96.14	96.36%	52.59	98.84%	0.01172	137.05	94.99%	46.54	97.94%	0.02067	241.72	91.42%	37.75
5	0.00009	0.00007	0.00008	99.55%	76.27	99.19%	0.00821	103.32	95.57%	52.02	98.84%	0.01169	147.09	93.88%	46.08	97.96%	0.02046	257.40	89.53%	37.54
6	0.00009	0.00007	0.00008	99.54%	75.28	99.19%	0.00822	99.60	94.78%	51.45	98.84%	0.01168	141.56	92.78%	45.62	97.98%	0.02027	245.69	87.70%	37.31
7	0.00009	0.00007	0.00008	99.53%	74.29	99.19%	0.00821	103.32	94.00%	50.87	98.84%	0.01166	146.64	91.69%	45.15	98.00%	0.02007	252.48	85.92%	37.08
8	0.00007	0.00006	0.00006	99.53%	73.29	99.19%	0.00820	130.12	93.23%	50.29	98.84%	0.01162	184.50	90.63%	44.68	98.02%	0.01986	315.29	84.20%	36.83
9	0.00009	0.00007	0.00008	99.52%	72.30	99.19%	0.00821	106.64	92.47%	49.70	98.85%	0.01162	150.91	89.57%	44.20	98.04%	0.01969	255.67	82.53%	36.56
10	0.00009	0.00006	0.00008	99.51%	71.30	99.19%	0.00821	107.33	91.71%	49.11	98.85%	0.01160	151.65	88.53%	43.71	98.06%	0.01950	254.86	80.90%	36.29
11	0.00010	0.00006	0.00008	99.50%	70.31	99.19%	0.00821	102.05	90.95%	48.51	98.85%	0.01159	143.94	87.50%	43.22	98.08%	0.01931	239.93	79.32%	36.00
12	0.00010	0.00006	0.00008	99.50%	69.31	99.19%	0.00821	105.96	90.21%	47.91	98.85%	0.01157	149.25	86.49%	42.72	98.10%	0.01913	246.78	77.79%	35.70
13	0.00010	0.00011	0.00010	99.49%	68.32	99.19%	0.00824	79.59	89.47%	47.30	98.85%	0.01157	111.83	85.49%	42.22	98.11%	0.01897	183.26	76.30%	35.38
14	0.00013	0.00011	0.00012	99.48%	67.33	99.19%	0.00825	69.64	88.73%	46.69	98.85%	0.01157	97.65	84.50%	41.70	98.13%	0.01880	158.66	74.86%	35.06
15	0.00016	0.00014	0.00015	99.47%	66.33	99.19%	0.00828	55.96	88.00%	46.07	98.86%	0.01158	78.27	83.52%	41.19	98.15%	0.01865	126.01	73.45%	34.72
16	0.00021	0.00016	0.00019	99.45%	65.34	99.19%	0.00832	44.49	87.27%	45.45	98.86%	0.01160	62.05	82.56%	40.66	98.17%	0.01851	98.98	72.08%	34.37
17	0.00030	0.00015	0.00023	99.43%	64.36	99.19%	0.00836	37.15	86.54%	44.83	98.86%	0.01162	51.66	81.60%	40.13	98.19%	0.01837	81.65	70.75%	34.01
18	0.00041	0.00021	0.00031	99.41%	63.37	99.19%	0.00844	27.11	85.82%	44.20	98.86%	0.01169	37.53	80.65%	39.60	98.20%	0.01828	58.69	69.45%	33.64
19	0.00045	0.00021	0.00033	99.38%	62.39	99.19%	0.00846	25.57	85.09%	43.57	98.86%	0.01169	35.33	79.71%	39.06	98.22%	0.01813	54.76	68.18%	33.25
20	0.00047	0.00021	0.00034	99.35%	61.41	99.19%	0.00847	25.02	84.37%	42.94	98.87%	0.01169	34.52	78.77%	38.52	98.24%	0.01796	53.07	66.94%	32.86
21	0.00051	0.00022	0.00036	99.31%	60.43	99.19%	0.00850	23.34	83.66%	42.31	98.87%	0.01169	32.12	77.85%	37.97	98.25%	0.01782	48.95	65.74%	32.45
22	0.00050	0.00022	0.00036	99.28%	59.45	99.19%	0.00849	23.65	82.95%	41.66	98.87%	0.01167	32.50	76.94%	37.41	98.27%	0.01765	49.15	64.57%	32.03
23	0.00056	0.00023	0.00039	99.24%	58.47	99.19%	0.00853	21.64	82.24%	41.02	98.87%	0.01169	29.66	76.05%	36.85	98.29%	0.01751	44.45	63.43%	31.60
24	0.00055	0.00023	0.00039	99.20%	57.50	99.19%	0.00852	21.88	81.54%	40.36	98.87%	0.01166	29.95	75.16%	36.28	98.30%	0.01734	44.53	62.32%	31.15
25	0.00059	0.00025	0.00042	99.16%	56.52	99.19%	0.00855	20.48	80.85%	39.71	98.87%	0.01167	27.96	74.28%	35.70	98.32%	0.01721	41.22	61.24%	30.69
26	0.00063	0.00027	0.00045	99.12%	55.54	99.19%	0.00858	19.07	80.16%	39.04	98.88%	0.01169	25.98	73.41%	35.12	98.34%	0.01708	37.95	60.18%	30.22
27	0.00063	0.00027	0.00045	99.08%	54.57	99.19%	0.00858	19.05	79.47%	38.38	98.88%	0.01167	25.91	72.55%	34.53	98.35%	0.01692	37.56	59.15%	29.74
28	0.00067	0.00033	0.00050	99.03%	53.59	99.19%	0.00863	17.36	78.79%	37.71	98.88%	0.01170	23.54	71.71%	33.93	98.37%	0.01681	33.81	58.15%	29.24
29	0.00070	0.00035	0.00052	98.98%	52.62	99.19%	0.00866	16.50	78.11%	37.03	98.88%	0.01171	22.33	70.87%	33.32	98.38%	0.01668	31.79	57.18%	28.73
30	0.00074	0.00039	0.00056	98.93%	51.65	99.19%	0.00869	15.43	77.43%	36.35	98.88%	0.01173	20.82	70.04%	32.71	98.40%	0.01656	29.39	56.22%	28.21
40	0.00156	0.00094	0.00125	98.14%	42.02		0.01125	8.98	70.23%	29.55		0.01498	11.96	61.43%	26.59		0.02091	16.70	46.73%	22.92
50	0.00335	0.00214	0.00274	96.40%	32.67		0.01559	5.68	61.64%	22.95		0.02040	7.43	51.68%	20.64		0.02803	10.22	36.74%	17.78
60	0.00797	0.00526	0.00662	92.54%	23.80		0.02426	3.67	50.95%	16.67		0.03085	4.66	40.37%	14.98		0.04133	6.25	26.22%	12.89
70	0.01935	0.01301	0.01618	83.67%	15.73		0.04288	2.65	37.10%	10.95		0.05285	3.27	27.08%	9.82		0.06870	4.25	15.41%	8.43
80	0.05555	0.03999	0.04777	63.44%	8.94		0.09473	1.98	19.63%	6.13		0.11227	2.35	12.48%	5.47		0.14015	2.93	5.68%	4.66
90	0.16790	0.13835	0.15313	25.70%	4.32		0.25025	1.63	3.73%	2.83		0.28654	1.87	1.76%	2.49		0.34420	2.25	0.49%	2.07
100	0.37248	0.33058	0.35153	1.71%	2.15		0.54683	1.56	0.03%	1.38		0.61980	1.76	0.01%	1.22		0.73575	2.09	0.00%	1.03

Target and fitted criteria are as follows:

Severe motor and cognitive disabilities, normal bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	80%	80%	0.005
2	20	62%	62%	0.006
2	30	50%	50%	0.001
Total				0.0114

Severe motor, cognitive and visual disabilities, low bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	70%	70%	0.000
2	20	49%	49%	0.000
2	30	37%	37%	0.000
Total				0.0000

Severe motor, cognitive and visual disabilities, normal bw

Probabilities of survival

From	To	Target	Fitted	Deviation
2	10	62%	62%	0.001
2	20	40%	40%	0.002
2	30	29%	29%	0.000
Total				0.0028

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United Kingdom, 2014-16)					Adjusted life table					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						1.38%					2.43%					3.24%				
0	0.00423	0.00352	0.00387	100.00%	80.91	97.01%	0.03365	8.70	100.00%	32.40	95.03%	0.05341	13.80	100.00%	24.70	93.09%	0.07266	18.78	100.00%	20.07
1	0.00031	0.00025	0.00028	99.61%	80.22	97.05%	0.02976	107.81	96.63%	32.51	95.15%	0.04879	176.78	94.66%	25.06	93.32%	0.06708	243.03	92.73%	20.61
2	0.00016	0.00014	0.00015	99.59%	79.25	97.09%	0.02923	194.84	93.76%	32.50	95.27%	0.04749	316.60	90.04%	25.32	93.53%	0.06479	431.95	86.51%	21.05
3	0.00013	0.00011	0.00012	99.57%	78.26	97.13%	0.02879	248.21	91.02%	32.46	95.38%	0.04631	399.19	85.76%	25.56	93.74%	0.06267	540.22	80.91%	21.48
4	0.00009	0.00008	0.00009	99.56%	77.27	97.17%	0.02837	331.79	88.40%	32.41	95.49%	0.04515	528.11	81.79%	25.78	93.95%	0.06061	708.87	75.84%	21.88
5	0.00009	0.00007	0.00008	99.55%	76.27	97.21%	0.02797	351.85	85.89%	32.34	95.60%	0.04405	554.11	78.10%	25.97	94.14%	0.05864	737.62	71.24%	22.26
6	0.00009	0.00007	0.00008	99.54%	75.28	97.25%	0.02759	334.43	83.49%	32.25	95.71%	0.04299	521.03	74.66%	26.15	94.33%	0.05674	687.81	67.06%	22.61
7	0.00009	0.00007	0.00008	99.53%	74.29	97.29%	0.02721	342.25	81.18%	32.15	95.81%	0.04194	527.53	71.45%	26.30	94.52%	0.05490	690.63	63.26%	22.95
8	0.00007	0.00006	0.00006	99.53%	73.29	97.32%	0.02682	425.69	78.98%	32.04	95.92%	0.04090	649.29	68.45%	26.43	94.69%	0.05311	843.04	59.79%	23.25
9	0.00009	0.00007	0.00008	99.52%	72.30	97.36%	0.02646	343.68	76.86%	31.91	96.01%	0.03993	518.51	65.65%	26.53	94.87%	0.05140	667.60	56.61%	23.53
10	0.00009	0.00006	0.00008	99.51%	71.30	97.40%	0.02610	341.17	74.82%	31.76	96.11%	0.03896	509.22	63.03%	26.62	95.03%	0.04974	650.20	53.70%	23.77
11	0.00010	0.00006	0.00008	99.50%	70.31	97.43%	0.02574	319.81	72.87%	31.60	96.21%	0.03801	472.22	60.58%	26.67	95.19%	0.04813	597.94	51.03%	23.99
12	0.00010	0.00006	0.00008	99.50%	69.31	97.47%	0.02539	327.58	70.99%	31.42	96.30%	0.03709	478.56	58.27%	26.71	95.35%	0.04657	600.94	48.57%	24.18
13	0.00010	0.00010	0.00010	99.49%	68.32	97.50%	0.02506	242.17	69.19%	31.23	96.39%	0.03621	349.89	56.11%	26.72	95.50%	0.04509	435.66	46.31%	24.34
14	0.00013	0.00011	0.00012	99.48%	67.33	97.54%	0.02473	208.73	67.46%	31.02	96.48%	0.03535	298.31	54.08%	26.70	95.65%	0.04365	368.32	44.22%	24.46
15	0.00016	0.00014	0.00015	99.47%	66.33	97.57%	0.02442	165.03	65.79%	30.79	96.56%	0.03452	233.25	52.17%	26.66	95.79%	0.04226	285.56	42.29%	24.55
16	0.00021	0.00016	0.00019	99.45%	65.34	97.61%	0.02413	129.03	64.18%	30.55	96.65%	0.03372	180.34	50.37%	26.60	95.92%	0.04094	218.90	40.50%	24.62
17	0.00030	0.00015	0.00023	99.43%	64.36	97.64%	0.02383	105.93	62.63%	30.29	96.73%	0.03294	146.42	48.67%	26.51	96.06%	0.03965	176.22	38.85%	24.65
18	0.00041	0.00021	0.00031	99.41%	63.37	97.67%	0.02359	75.74	61.14%	30.02	96.81%	0.03223	103.47	47.07%	26.40	96.18%	0.03846	123.45	37.31%	24.64
19	0.00045	0.00021	0.00033	99.38%	62.39	97.70%	0.02329	70.37	59.70%	29.73	96.88%	0.03147	95.09	45.55%	26.26	96.31%	0.03724	112.50	35.87%	24.61
20	0.00047	0.00021	0.00034	99.35%	61.41	97.73%	0.02298	67.90	58.31%	29.43	96.96%	0.03072	90.77	44.12%	26.10	96.43%	0.03605	106.49	34.54%	24.54
21	0.00051	0.00022	0.00036	99.31%	60.43	97.77%	0.02270	62.35	56.97%	29.11	97.03%	0.03001	82.44	42.76%	25.91	96.54%	0.03491	95.92	33.29%	24.44
22	0.00050	0.00022	0.00036	99.28%	59.45	97.80%	0.02238	62.35	55.68%	28.78	97.11%	0.02928	81.57	41.48%	25.69	96.66%	0.03379	94.12	32.13%	24.31
23	0.00056	0.00023	0.00039	99.24%	58.47	97.83%	0.02211	56.13	54.43%	28.42	97.18%	0.02861	72.63	40.26%	25.45	96.76%	0.03274	83.10	31.04%	24.14
24	0.00055	0.00023	0.00039	99.20%	57.50	97.86%	0.02181	56.00	53.23%	28.06	97.25%	0.02792	71.69	39.11%	25.19	96.87%	0.03169	81.35	30.03%	23.94
25	0.00059	0.00025	0.00042	99.16%	56.52	97.89%	0.02154	51.60	52.06%	27.67	97.31%	0.02728	65.34	38.02%	24.90	96.97%	0.03070	73.53	29.08%	23.71
26	0.00063	0.00027	0.00045	99.12%	55.54	97.92%	0.02128	47.30	50.94%	27.27	97.38%	0.02666	59.24	36.98%	24.58	97.07%	0.02975	66.11	28.18%	23.44
27	0.00063	0.00027	0.00045	99.08%	54.57	97.94%	0.02100	46.61	49.86%	26.85	97.44%	0.02602	57.76	35.99%	24.24	97.16%	0.02880	63.93	27.34%	23.14
28	0.00067	0.00033	0.00050	99.03%	53.59	97.97%	0.02076	41.77	48.81%	26.42	97.50%	0.02545	51.20	35.06%	23.88	97.26%	0.02793	56.19	26.56%	22.81
29	0.00070	0.00035	0.00052	98.98%	52.62	98.00%	0.02051	39.10	47.80%	25.96	97.56%	0.02487	47.41	34.17%	23.49	97.34%	0.02706	51.60	25.82%	22.46
30	0.00074	0.00039	0.00056	98.93%	51.65	98.03%	0.02027	35.97	46.82%	25.50	97.62%	0.02431	43.15	33.32%	23.07	97.43%	0.02624	46.57	25.12%	22.07
40	0.00156	0.00094	0.00125	98.14%	42.02		0.02547	20.34	37.33%	20.71		0.03044	24.31	25.38%	18.73		0.03281	26.20	18.73%	17.91
50	0.00335	0.00214	0.00274	96.40%	32.67		0.03389	12.35	27.85%	16.06		0.04028	14.68	17.88%	14.51		0.04333	15.79	12.83%	13.88
60	0.00797	0.00526	0.00662	92.54%	23.80		0.04938	7.46	18.53%	11.63		0.05815	8.79	11.02%	10.50		0.06234	9.42	7.62%	10.03
70	0.01935	0.01301	0.01618	83.67%	15.73		0.08089	5.00	9.83%	7.59		0.09416	5.82	5.22%	6.84		0.10050	6.21	3.42%	6.53
80	0.05555	0.03999	0.04777	63.44%	8.94		0.16158	3.38	3.04%	4.18		0.18493	3.87	1.33%	3.74		0.19607	4.10	0.79%	3.56
90	0.16790	0.13835	0.15313	25.70%	4.32		0.38853	2.54	0.17%	1.83		0.43682	2.85	0.05%	1.61		0.45986	3.00	0.02%	1.51
100	0.37248	0.33058	0.35153	1.71%	2.15		0.82488	2.35	0.00%	0.92		0.92200	2.62	0.00%	0.82		0.96832	2.75	0.00%	0.78

Target and fitted criteria are as follows:

Severe ambulation disability

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	68%	67%	0.074
0	20	49%	50%	0.157
0	30	40%	40%	0.043
0	40	33%	33%	0.000
Total				0.2743

Severe manual dexterity disability

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	68%	68%	0.008
0	20	49%	50%	0.146
0	30	40%	38%	0.694
0	40	30%	31%	0.164
Total				1.0121

Severe cognative disability

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	64%	60%	2.042
0	20	40%	42%	1.522
0	30	32%	33%	0.350
0	40	29%	28%	0.700
Total				4.6144

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
		Regular life table (United Kingdom, 2014-16)				Adjusted life table					Adjusted life table					Adjusted life table				
						2.65%					1.85%					3.41%				
0	0.00423	0.00352	0.00387	100.00%	80.91	95.68%	0.04687	12.11	100.00%	30.54	95.98%	0.04394	11.35	100.00%	29.01	94.33%	0.06032	15.59	100.00%	26.76
1	0.00031	0.00025	0.00028	99.61%	80.22	95.80%	0.04229	153.22	95.31%	31.02	96.05%	0.03975	144.01	95.61%	29.32	94.53%	0.05500	199.27	93.97%	27.45
2	0.00016	0.00014	0.00015	99.59%	79.25	95.91%	0.04105	273.70	91.28%	31.36	96.12%	0.03890	259.30	91.81%	29.51	94.71%	0.05301	353.42	88.80%	28.02
3	0.00013	0.00011	0.00012	99.57%	78.26	96.02%	0.03994	344.30	87.53%	31.69	96.20%	0.03815	328.86	88.24%	29.68	94.89%	0.05118	441.17	84.09%	28.56
4	0.00009	0.00008	0.00009	99.56%	77.27	96.12%	0.03885	454.44	84.04%	31.98	96.27%	0.03742	437.61	84.87%	29.84	95.07%	0.04940	577.82	79.79%	29.07
5	0.00009	0.00007	0.00008	99.55%	76.27	96.23%	0.03782	475.75	80.77%	32.26	96.34%	0.03672	461.89	81.69%	29.98	95.24%	0.04771	600.18	75.85%	29.56
6	0.00009	0.00007	0.00008	99.54%	75.28	96.33%	0.03683	446.37	77.72%	32.50	96.40%	0.03605	436.92	78.69%	30.11	95.40%	0.04609	558.69	72.23%	30.01
7	0.00009	0.00007	0.00008	99.53%	74.29	96.42%	0.03585	450.93	74.86%	32.73	96.47%	0.03538	445.02	75.86%	30.21	95.56%	0.04452	559.98	68.90%	30.44
8	0.00007	0.00006	0.00006	99.53%	73.29	96.52%	0.03489	553.75	72.17%	32.93	96.53%	0.03471	550.97	73.17%	30.30	95.71%	0.04299	682.31	65.83%	30.83
9	0.00009	0.00007	0.00008	99.52%	72.30	96.61%	0.03398	441.26	69.66%	33.10	96.60%	0.03408	442.66	70.63%	30.38	95.85%	0.04153	539.40	63.00%	31.20
10	0.00009	0.00006	0.00008	99.51%	71.30	96.70%	0.03308	432.40	67.29%	33.24	96.66%	0.03346	437.33	68.23%	30.43	96.00%	0.04012	524.42	60.38%	31.53
11	0.00010	0.00006	0.00008	99.50%	70.31	96.79%	0.03221	400.11	65.06%	33.36	96.72%	0.03284	407.99	65.94%	30.47	96.13%	0.03876	481.44	57.96%	31.82
12	0.00010	0.00006	0.00008	99.50%	69.31	96.87%	0.03135	404.58	62.97%	33.46	96.78%	0.03224	415.94	63.78%	30.48	96.26%	0.03743	483.00	55.72%	32.09
13	0.00010	0.00011	0.00010	99.49%	68.32	96.95%	0.03055	295.18	60.99%	33.52	96.84%	0.03167	305.95	61.72%	30.48	96.39%	0.03618	349.59	53.63%	32.32
14	0.00013	0.00011	0.00012	99.48%	67.33	97.04%	0.02976	251.14	59.13%	33.57	96.90%	0.03110	262.43	59.77%	30.46	96.51%	0.03497	295.07	51.69%	32.51
15	0.00016	0.00014	0.00015	99.47%	66.33	97.11%	0.02900	195.97	57.37%	33.58	96.96%	0.03055	206.45	57.91%	30.42	96.63%	0.03380	228.41	49.88%	32.67
16	0.00021	0.00016	0.00019	99.45%	65.34	97.19%	0.02828	151.21	55.71%	33.57	97.02%	0.03003	160.59	56.14%	30.37	96.75%	0.03269	174.83	48.20%	32.79
17	0.00030	0.00015	0.00023	99.43%	64.36	97.26%	0.02757	122.53	54.13%	33.53	97.07%	0.02952	131.18	54.45%	30.29	96.86%	0.03162	140.54	46.62%	32.89
18	0.00041	0.00021	0.00031	99.41%	63.37	97.34%	0.02693	86.45	52.64%	33.47	97.12%	0.02906	93.29	52.85%	30.20	96.97%	0.03063	98.34	45.15%	32.94
19	0.00045	0.00021	0.00033	99.38%	62.39	97.41%	0.02624	79.29	51.22%	33.38	97.18%	0.02855	86.24	51.31%	30.09	97.07%	0.02962	89.48	43.76%	32.97
20	0.00047	0.00021	0.00034	99.35%	61.41	97.48%	0.02556	75.52	49.88%	33.27	97.23%	0.02803	82.82	49.85%	29.96	97.17%	0.02862	84.56	42.47%	32.96
21	0.00051	0.00022	0.00036	99.31%	60.43	97.54%	0.02492	68.47	48.60%	33.12	97.28%	0.02755	75.68	48.45%	29.81	97.27%	0.02768	76.05	41.25%	32.92
22	0.00050	0.00022	0.00036	99.28%	59.45	97.61%	0.02427	67.59	47.39%	32.96	97.33%	0.02704	75.32	47.11%	29.64	97.36%	0.02675	74.50	40.11%	32.84
23	0.00056	0.00023	0.00039	99.24%	58.47	97.67%	0.02367	60.07	46.24%	32.77	97.38%	0.02658	67.46	45.84%	29.45	97.45%	0.02588	65.69	39.04%	32.73
24	0.00055	0.00023	0.00039	99.20%	57.50	97.73%	0.02305	59.17	45.15%	32.55	97.43%	0.02609	66.99	44.62%	29.24	97.54%	0.02501	64.20	38.03%	32.58
25	0.00059	0.00025	0.00042	99.16%	56.52	97.79%	0.02247	53.83	44.11%	32.30	97.48%	0.02564	61.43	43.46%	29.01	97.62%	0.02419	57.95	37.08%	32.41
26	0.00063	0.00027	0.00045	99.12%	55.54	97.85%	0.02192	48.71	43.11%	32.04	97.52%	0.02521	56.02	42.34%	28.76	97.70%	0.02341	52.03	36.18%	32.20
27	0.00063	0.00027	0.00045	99.08%	54.57	97.91%	0.02135	47.40	42.17%	31.74	97.57%	0.02475	54.95	41.28%	28.49	97.78%	0.02263	50.23	35.33%	31.96
28	0.00067	0.00033	0.00050	99.03%	53.59	97.96%	0.02085	41.94	41.27%	31.42	97.61%	0.02435	48.99	40.25%	28.20	97.86%	0.02192	44.10	34.53%	31.69
29	0.00070	0.00035	0.00052	98.98%	52.62	98.02%	0.02033	38.77	40.41%	31.08	97.66%	0.02394	45.64	39.27%	27.89	97.93%	0.02121	40.45	33.78%	31.39
30	0.00074	0.00039	0.00056	98.93%	51.65	98.07%	0.01985	35.22	39.59%	30.72	97.70%	0.02354	41.78	38.33%	27.56	98.00%	0.02055	36.46	33.06%	31.06
40	0.00156	0.00094	0.00125	98.14%	42.02	98.52%	0.01599	12.76	33.03%	25.89	98.09%	0.02031	16.22	30.70%	23.24	98.59%	0.01536	12.27	27.58%	26.32
50	0.00335	0.00214	0.00274	96.40%	32.67		0.02169	7.91	27.47%	20.09		0.02725	9.93	24.31%	18.03		0.02089	7.61	23.10%	20.43
60	0.00797	0.00526	0.00662	92.54%	23.80		0.03263	4.93	21.14%	14.58		0.04026	6.09	17.51%	13.07		0.03153	4.77	17.94%	14.83
70	0.01935	0.01301	0.01618	83.67%	15.73		0.05554	3.43	13.87%	9.56		0.06709	4.15	10.43%	8.55		0.05387	3.33	11.93%	9.72
80	0.05555	0.03999	0.04777	63.44%	8.94		0.11699	2.45	6.15%	5.32		0.13731	2.87	3.93%	4.74		0.11406	2.39	5.42%	5.41
90	0.16790	0.13835	0.15313	25.70%	4.32		0.29631	1.94	0.80%	2.41		0.33833	2.21	0.36%	2.11		0.29025	1.90	0.74%	2.46
100	0.37248	0.33058	0.35153	1.71%	2.15		0.63945	1.82	0.00%	1.18		0.72394	2.06	0.00%	1.04		0.62726	1.78	0.00%	1.20

Target and fitted criteria are as follows:

Severe visual disability

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	77%	77%	0.005
0	20	63%	64%	0.055
0	30	56%	55%	0.291
0	40	48%	49%	0.074
Total				0.4250

Severe motor, cognitive and visual

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	57%	60%	1.173
0	20	39%	39%	0.033
0	30	30%	27%	3.493
0	40	18%	20%	1.342
Total				6.0405

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United Kingdom, 2014-16)					Adjusted life table					Adjusted life table				
	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						2.70%					1.67%				
0	0.00423	0.00352	0.00387	100.00%	80.91	97.17%	0.03202	8.27	100.00%	41.37	94.61%	0.05754	14.87	100.00%	21.85
1	0.00031	0.00025	0.00028	99.61%	80.22	97.25%	0.02777	100.61	96.80%	41.72	94.70%	0.05323	192.88	94.25%	22.15
2	0.00016	0.00014	0.00015	99.59%	79.25	97.32%	0.02690	179.34	94.11%	41.90	94.79%	0.05223	348.18	89.23%	22.37
3	0.00013	0.00011	0.00012	99.57%	78.26	97.40%	0.02615	225.39	91.58%	42.05	94.88%	0.05132	442.44	84.57%	22.57
4	0.00009	0.00008	0.00009	99.56%	77.27	97.47%	0.02541	297.21	89.18%	42.16	94.96%	0.05044	589.90	80.23%	22.77
5	0.00009	0.00007	0.00008	99.55%	76.27	97.54%	0.02472	310.96	86.92%	42.25	95.05%	0.04959	623.74	76.18%	22.95
6	0.00009	0.00007	0.00008	99.54%	75.28	97.60%	0.02406	291.62	84.77%	42.31	95.13%	0.04876	591.05	72.40%	23.12
7	0.00009	0.00007	0.00008	99.53%	74.29	97.67%	0.02341	294.43	82.73%	42.34	95.21%	0.04794	603.06	68.87%	23.28
8	0.00007	0.00006	0.00006	99.53%	73.29	97.73%	0.02276	361.28	80.79%	42.34	95.29%	0.04713	748.03	65.57%	23.43
9	0.00009	0.00007	0.00008	99.52%	72.30	97.79%	0.02216	287.80	78.95%	42.31	95.37%	0.04635	601.96	62.48%	23.56
10	0.00009	0.00006	0.00008	99.51%	71.30	97.85%	0.02156	281.87	77.20%	42.26	95.45%	0.04558	595.76	59.59%	23.68
11	0.00010	0.00006	0.00008	99.50%	70.31	97.91%	0.02099	260.70	75.54%	42.18	95.53%	0.04482	556.74	56.87%	23.79
12	0.00010	0.00006	0.00008	99.50%	69.31	97.97%	0.02042	263.46	73.95%	42.07	95.60%	0.04407	568.59	54.32%	23.88
13	0.00010	0.00010	0.00010	99.49%	68.32	98.02%	0.01989	192.21	72.44%	41.94	95.67%	0.04335	418.88	51.93%	23.96
14	0.00013	0.00011	0.00012	99.48%	67.33	98.07%	0.01937	163.49	71.00%	41.78	95.75%	0.04264	359.86	49.68%	24.02
15	0.00016	0.00014	0.00015	99.47%	66.33	98.13%	0.01888	127.58	69.63%	41.60	95.82%	0.04196	283.51	47.56%	24.07
16	0.00021	0.00016	0.00019	99.45%	65.34	98.18%	0.01841	98.47	68.31%	41.39	95.89%	0.04130	220.84	45.56%	24.10
17	0.00030	0.00015	0.00023	99.43%	64.36	98.23%	0.01796	79.82	67.05%	41.16	95.96%	0.04064	180.64	43.68%	24.12
18	0.00041	0.00021	0.00031	99.41%	63.37	98.27%	0.01756	56.39	65.85%	40.90	96.02%	0.04005	128.57	41.91%	24.12
19	0.00045	0.00021	0.00033	99.38%	62.39	98.32%	0.01712	51.71	64.69%	40.62	96.09%	0.03940	119.05	40.23%	24.10
20	0.00047	0.00021	0.00034	99.35%	61.41	98.37%	0.01667	49.25	63.59%	40.32	96.16%	0.03876	114.50	38.64%	24.07
21	0.00051	0.00022	0.00036	99.31%	60.43	98.41%	0.01625	44.66	62.53%	40.00	96.22%	0.03814	104.78	37.14%	24.02
22	0.00050	0.00022	0.00036	99.28%	59.45	98.45%	0.01582	44.07	61.51%	39.65	96.28%	0.03750	104.46	35.73%	23.95
23	0.00056	0.00023	0.00039	99.24%	58.47	98.50%	0.01544	39.18	60.54%	39.28	96.35%	0.03691	93.69	34.39%	23.87
24	0.00055	0.00023	0.00039	99.20%	57.50	98.54%	0.01503	38.58	59.60%	38.89	96.41%	0.03630	93.19	33.12%	23.76
25	0.00059	0.00025	0.00042	99.16%	56.52	98.58%	0.01466	35.11	58.71%	38.47	96.47%	0.03572	85.56	31.92%	23.64
26	0.00063	0.00027	0.00045	99.12%	55.54	98.61%	0.01430	31.79	57.85%	38.04	96.53%	0.03516	78.14	30.78%	23.50
27	0.00063	0.00027	0.00045	99.08%	54.57	98.65%	0.01393	30.92	57.02%	37.58	96.59%	0.03458	76.76	29.69%	23.34
28	0.00067	0.00033	0.00050	99.03%	53.59	98.69%	0.01361	27.39	56.22%	37.10	96.64%	0.03405	68.52	28.67%	23.15
29	0.00070	0.00035	0.00052	98.98%	52.62	98.72%	0.01329	25.33	55.46%	36.61	96.70%	0.03352	63.91	27.69%	22.95
30	0.00074	0.00039	0.00056	98.93%	51.65	98.76%	0.01298	23.03	54.72%	36.10	96.75%	0.03300	58.57	26.76%	22.73
40	0.00156	0.00094	0.00125	98.14%	42.02	99.06%	0.01069	8.53	48.59%	30.05	97.26%	0.02863	22.86	19.55%	19.41
50	0.00335	0.00214	0.00274	96.40%	32.67		0.01487	5.42	42.92%	23.34		0.03795	13.83	14.07%	15.04
60	0.00797	0.00526	0.00662	92.54%	23.80		0.02327	3.52	35.78%	16.96		0.05495	8.31	8.91%	10.89
70	0.01935	0.01301	0.01618	83.67%	15.73		0.04138	2.56	26.38%	11.14		0.08932	5.52	4.40%	7.10
80	0.05555	0.03999	0.04777	63.44%	8.94		0.09209	1.93	14.24%	6.24		0.17642	3.69	1.20%	3.89
90	0.16790	0.13835	0.15313	25.70%	4.32		0.24480	1.60	2.83%	2.89		0.41922	2.74	0.05%	1.68
100	0.37248	0.33058	0.35153	1.71%	2.15		0.53587	1.52	0.03%	1.41		0.88660	2.52	0.00%	0.85

Target and fitted criteria are as follows:

GMFCS V

Probabilities of survival

From	To	Target	Fitted	Deviation
2	5	92%	92%	0.009
2	10	82%	81%	0.193
2	15	71%	71%	0.018
2	20	61%	62%	0.093
Total				0.3131

Survival adjustment parameters that best replicate the above criteria yields the following life table:

| Age | Regular life table (Sweden, smoothed, 2013-2016) | | | | | Adjusted life table | | | | |
	Male	Female	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%				
0	0.00261	0.00215	0.00238	100.00%	81.99	97.37%	0.02861	12.04	100.00%	29.16
1	0.00019	0.00017	0.00018	99.76%	81.18	97.37%	0.02647	148.10	97.14%	29.01
2	0.00013	0.00012	0.00012	99.74%	80.20	97.37%	0.02642	217.43	94.57%	28.78
3	0.00011	0.00010	0.00010	99.73%	79.21	97.37%	0.02640	254.09	92.07%	28.55
4	0.00010	0.00010	0.00010	99.72%	78.22	97.37%	0.02639	272.13	89.64%	28.31
5	0.00009	0.00008	0.00008	99.71%	77.22	97.37%	0.02638	311.05	87.27%	28.06
6	0.00008	0.00008	0.00008	99.70%	76.23	97.37%	0.02638	333.97	84.97%	27.81
7	0.00007	0.00008	0.00007	99.70%	75.24	97.37%	0.02637	365.41	82.73%	27.55
8	0.00006	0.00007	0.00007	99.69%	74.24	97.37%	0.02636	396.93	80.55%	27.28
9	0.00005	0.00007	0.00006	99.68%	73.25	97.37%	0.02636	410.12	78.42%	27.01
10	0.00006	0.00007	0.00007	99.68%	72.25	97.37%	0.02636	401.06	76.36%	26.73
11	0.00007	0.00008	0.00007	99.67%	71.26	97.37%	0.02637	352.47	74.34%	26.44
12	0.00009	0.00009	0.00009	99.66%	70.26	97.37%	0.02638	308.21	72.38%	26.14
13	0.00011	0.00010	0.00010	99.65%	69.27	97.37%	0.02640	256.43	70.47%	25.83
14	0.00014	0.00011	0.00012	99.64%	68.27	97.37%	0.02642	217.88	68.61%	25.52
15	0.00018	0.00012	0.00015	99.63%	67.28	97.37%	0.02644	177.25	66.80%	25.20
16	0.00023	0.00014	0.00019	99.62%	66.29	97.37%	0.02648	142.77	65.03%	24.87
17	0.00030	0.00016	0.00023	99.60%	65.31	97.37%	0.02652	115.57	63.31%	24.53
18	0.00038	0.00017	0.00027	99.57%	64.32	97.37%	0.02657	96.82	61.63%	24.19
19	0.00045	0.00019	0.00032	99.55%	63.34	97.37%	0.02661	82.93	59.99%	23.83
20	0.00052	0.00020	0.00036	99.52%	62.36	97.37%	0.02665	73.86	58.40%	23.47
21	0.00057	0.00022	0.00039	99.48%	61.38		0.02710	68.90	56.84%	23.10
22	0.00062	0.00023	0.00043	99.44%	60.40		0.02757	64.63	55.30%	22.73
23	0.00065	0.00025	0.00045	99.40%	59.43		0.02804	62.29	53.78%	22.36
24	0.00069	0.00026	0.00047	99.35%	58.46		0.02852	60.41	52.27%	21.99
25	0.00072	0.00026	0.00049	99.31%	57.48		0.02901	59.00	50.78%	21.62
26	0.00073	0.00027	0.00050	99.26%	56.51		0.02951	58.83	49.31%	21.25
27	0.00074	0.00028	0.00051	99.21%	55.54		0.03003	58.64	47.85%	20.88
28	0.00074	0.00029	0.00051	99.16%	54.57		0.03056	59.38	46.41%	20.51
29	0.00074	0.00031	0.00052	99.11%	53.60		0.03111	59.53	45.00%	20.14
30	0.00076	0.00032	0.00054	99.05%	52.62		0.03169	58.66	43.60%	19.78
40	0.00097	0.00055	0.00076	98.46%	42.91		0.03896	51.45	30.63%	16.08
50	0.00230	0.00157	0.00193	97.33%	33.34		0.05110	26.43	19.55%	12.44
60	0.00640	0.00435	0.00537	94.29%	24.23		0.07303	13.59	10.55%	8.96
70	0.01736	0.01166	0.01451	86.32%	15.94		0.11737	8.09	4.10%	5.79
80	0.05367	0.03705	0.04536	67.05%	8.87		0.23016	5.07	0.73%	3.06
90	0.17937	0.13966	0.15951	27.06%	4.07		0.56240	3.53	0.01%	1.18
100	0.42540	0.37565	0.40053	1.33%	1.79		1.31638	3.29	0.00%	0.54

Target and fitted criteria are as follows:

Mild+0

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	100%	99%	0.022
0	20	99%	99%	0.001
0	30	98%	99%	0.006
0	40	98%	98%	0.000
Total				0.0291

Moderate+0

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	99%	98%	0.120
0	20	99%	97%	0.735
0	30	98%	95%	0.881
0	40	89%	93%	1.434
Total				3.1703

Severe+0

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	91%	93%	0.309
0	20	90%	88%	0.537
0	30	84%	84%	0.092
Total				0.9380

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Males	Females	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
		Regular life table (Australia, 2014-16)				Adjusted life table					Adjusted life table					Adjusted life table				
						0.00%					0.00%					3.32%				
0	0.00357	0.00330	0.00344	100.00%	82.38	99.99%	0.00356	1.03	100.00%	81.86	99.85%	0.00489	1.42	100.00%	76.42	99.17%	0.01167	3.40	100.00%	65.89
1	0.00029	0.00022	0.00026	99.66%	81.66	99.99%	0.00038	1.47	99.64%	81.15	99.85%	0.00171	6.72	99.51%	75.79	99.20%	0.00824	32.31	98.83%	65.66
2	0.00016	0.00013	0.00015	99.63%	80.69	99.99%	0.00027	1.83	99.61%	80.18	99.85%	0.00160	11.06	99.34%	74.92	99.23%	0.00786	54.24	98.02%	65.20
3	0.00014	0.00011	0.00013	99.62%	79.70	99.99%	0.00025	1.96	99.58%	79.20	99.85%	0.00158	12.67	99.18%	74.04	99.25%	0.00759	60.70	97.25%	64.72
4	0.00012	0.00010	0.00011	99.60%	78.71	99.99%	0.00023	2.10	99.56%	78.22	99.85%	0.00157	14.26	99.02%	73.16	99.28%	0.00733	66.59	96.51%	64.21
5	0.00011	0.00009	0.00010	99.59%	77.72	99.99%	0.00022	2.21	99.53%	77.24	99.85%	0.00156	15.59	98.87%	72.27	99.30%	0.00708	70.76	95.80%	63.68
6	0.00010	0.00008	0.00009	99.58%	76.72	99.99%	0.00021	2.34	99.51%	76.26	99.85%	0.00155	17.21	98.71%	71.38	99.33%	0.00683	75.94	95.13%	63.13
7	0.00009	0.00007	0.00008	99.57%	75.73	99.99%	0.00020	2.51	99.49%	75.27	99.85%	0.00154	19.24	98.56%	70.49	99.35%	0.00660	82.51	94.48%	62.56
8	0.00008	0.00007	0.00008	99.57%	74.74	99.99%	0.00020	2.61	99.47%	74.29	99.85%	0.00153	20.45	98.41%	69.60	99.37%	0.00638	85.06	93.85%	61.97
9	0.00008	0.00007	0.00008	99.56%	73.74	99.99%	0.00020	2.61	99.45%	73.30	99.85%	0.00153	20.45	98.26%	68.71	99.39%	0.00617	82.27	93.25%	61.37
10	0.00008	0.00007	0.00008	99.55%	72.75	99.99%	0.00020	2.61	99.43%	72.32	99.85%	0.00153	20.45	98.11%	67.81	99.41%	0.00597	79.57	92.68%	60.74
11	0.00009	0.00008	0.00009	99.54%	71.75	99.99%	0.00021	2.42	99.41%	71.33	99.85%	0.00154	18.16	97.96%	66.92	99.43%	0.00578	68.02	92.12%	60.11
12	0.00010	0.00009	0.00010	99.54%	70.76	99.99%	0.00022	2.27	99.39%	70.34	99.85%	0.00155	16.36	97.81%	66.02	99.45%	0.00560	58.98	91.59%	59.45
13	0.00012	0.00010	0.00011	99.53%	69.77	99.99%	0.00023	2.10	99.37%	69.36	99.85%	0.00157	14.26	97.65%	65.12	99.47%	0.00543	49.41	91.08%	58.78
14	0.00016	0.00013	0.00015	99.52%	68.77	99.99%	0.00027	1.83	99.35%	68.37	99.85%	0.00160	11.06	97.50%	64.22	99.49%	0.00529	36.50	90.58%	58.10
15	0.00022	0.00015	0.00019	99.50%	67.78	99.99%	0.00031	1.65	99.32%	67.39	99.85%	0.00164	8.89	97.34%	63.32	99.50%	0.00516	27.90	90.10%	57.41
16	0.00030	0.00018	0.00024	99.48%	66.80	99.99%	0.00036	1.50	99.29%	66.41	99.85%	0.00170	7.08	97.18%	62.43	99.52%	0.00505	21.05	89.64%	56.70
17	0.00038	0.00020	0.00029	99.46%	65.81	99.99%	0.00041	1.42	99.25%	65.44	99.85%	0.00175	6.03	97.02%	61.53	99.53%	0.00494	17.04	89.19%	55.99
18	0.00045	0.00021	0.00033	99.43%	64.83	99.99%	0.00045	1.37	99.21%	64.46	99.85%	0.00179	5.42	96.85%	60.64	99.55%	0.00483	14.63	88.75%	55.27
19	0.00052	0.00022	0.00037	99.40%	63.85	99.99%	0.00049	1.33	99.17%	63.49	99.85%	0.00183	4.94	96.68%	59.75	99.57%	0.00472	12.75	88.32%	54.53
20	0.00056	0.00023	0.00040	99.36%	62.87	99.99%	0.00052	1.31	99.12%	62.52	99.85%	0.00185	4.69	96.50%	58.86	99.58%	0.00460	11.64	87.90%	53.79
21	0.00059	0.00023	0.00041	99.32%	61.90	99.99%	0.00053	1.29	99.07%	61.56	99.85%	0.00187	4.56	96.32%	57.97	99.59%	0.00447	10.91	87.50%	53.03
22	0.00061	0.00024	0.00043	99.28%	60.92	99.99%	0.00055	1.28	99.02%	60.59	99.85%	0.00188	4.43	96.14%	57.07	99.61%	0.00435	10.24	87.11%	52.27
23	0.00063	0.00025	0.00044	99.24%	59.95	99.99%	0.00056	1.27	98.96%	59.62	99.85%	0.00190	4.31	95.96%	56.18	99.62%	0.00424	9.63	86.73%	51.50
24	0.00064	0.00026	0.00045	99.19%	58.98	99.99%	0.00057	1.27	98.91%	58.65	99.85%	0.00191	4.24	95.78%	55.29	99.63%	0.00412	9.16	86.36%	50.71
25	0.00065	0.00027	0.00046	99.15%	58.00	99.99%	0.00058	1.26	98.85%	57.69	99.85%	0.00192	4.17	95.60%	54.39	99.64%	0.00401	8.72	86.00%	49.92
26	0.00066	0.00028	0.00047	99.10%	57.03	99.99%	0.00059	1.26	98.79%	56.72	99.85%	0.00193	4.10	95.41%	53.49	99.66%	0.00390	8.30	85.66%	49.12
27	0.00068	0.00029	0.00049	99.06%	56.06	99.99%	0.00061	1.25	98.74%	55.75	99.85%	0.00194	4.01	95.23%	52.60	99.67%	0.00380	7.84	85.32%	48.31
28	0.00070	0.00031	0.00051	99.01%	55.08	99.99%	0.00063	1.24	98.68%	54.79	99.85%	0.00196	3.89	95.04%	51.70	99.68%	0.00371	7.35	85.00%	47.49
29	0.00073	0.00033	0.00053	98.96%	54.11	99.99%	0.00065	1.23	98.61%	53.82	99.85%	0.00199	3.75	94.86%	50.80	99.69%	0.00363	6.85	84.68%	46.67
30	0.00077	0.00036	0.00057	98.91%	53.14	99.99%	0.00069	1.21	98.55%	52.86	99.85%	0.00202	3.58	94.67%	49.90	99.70%	0.00356	6.31	84.38%	45.84
40	0.00142	0.00078	0.00110	98.14%	43.51	99.99%	0.00122	1.11	97.67%	43.28	99.85%	0.00256	2.33	92.57%	40.91		0.00476	4.33	81.02%	37.52
50	0.00298	0.00180	0.00239	96.59%	34.12		0.00254	1.06	96.00%	33.94		0.00425	1.78	89.64%	32.07		0.00706	2.95	76.54%	29.41
60	0.00675	0.00398	0.00537	93.23%	25.15		0.00557	1.04	92.49%	25.01		0.00789	1.47	84.69%	23.63		0.01170	2.18	70.01%	21.65
70	0.01613	0.00994	0.01304	85.99%	16.79		0.01335	1.02	85.09%	16.70		0.01681	1.29	75.77%	15.76		0.02253	1.73	59.81%	14.42
80	0.04793	0.03188	0.03991	68.61%	9.59		0.04045	1.01	67.62%	9.53		0.04652	1.17	57.53%	8.98		0.05652	1.42	42.10%	8.19
90	0.15455	0.12362	0.13909	31.16%	4.58		0.14023	1.01	30.45%	4.55		0.15293	1.10	23.59%	4.26		0.17387	1.25	14.76%	3.85
100	0.34389	0.31851	0.33120	2.52%	2.20		0.33358	1.01	2.41%	2.18		0.36003	1.09	1.47%	2.02		0.40362	1.22	0.61%	1.81

Target and fitted criteria are as follows:

Severe+1

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	86%	87%	0.148
0	20	78%	77%	0.238
0	30	69%	67%	0.422
0	40	57%	58%	0.442
Total				1.2500

Severe+2

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	80%	81%	0.165
0	20	68%	66%	0.782
0	30	52%	53%	0.221
Total				1.1684

Severe+3

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	81%	73%	7.338
0	20	52%	53%	0.582
0	30	35%	39%	3.891
0	40	31%	28%	1.896
Total				13.7075

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Males	Females	Mortality	Probability of survival	Life expectancy	[S+1] Survival adjustment	[S+1] Mortality	[S+1] Implied mortality ratio	[S+1] Probability of survival	[S+1] Life expectancy	[S+2] Survival adjustment	[S+2] Mortality	[S+2] Implied mortality ratio	[S+2] Probability of survival	[S+2] Life expectancy	[S+3] Survival adjustment	[S+3] Mortality	[S+3] Implied mortality ratio	[S+3] Probability of survival	[S+3] Life expectancy
						0.00%					0.00%					0.00%				
0	0.00357	0.00330	0.00344	100.00%	82.38	98.71%	0.01629	4.74	100.00%	47.22	97.95%	0.02384	6.94	100.00%	35.71	96.95%	0.03387	9.86	100.00%	28.03
1	0.00029	0.00022	0.00026	99.66%	81.66	98.71%	0.01315	51.58	98.37%	46.99	97.95%	0.02072	81.27	97.62%	35.57	96.95%	0.03079	120.73	96.61%	28.00
2	0.00016	0.00013	0.00015	99.63%	80.69	98.71%	0.01304	89.95	97.08%	46.61	97.95%	0.02062	142.18	95.59%	35.31	96.95%	0.03068	211.58	93.64%	27.87
3	0.00014	0.00011	0.00013	99.62%	79.70	98.71%	0.01302	104.19	95.81%	46.22	97.95%	0.02060	164.78	93.62%	35.05	96.95%	0.03066	245.28	90.77%	27.74
4	0.00012	0.00010	0.00011	99.60%	78.71	98.71%	0.01301	118.26	94.56%	45.82	97.95%	0.02058	187.11	91.69%	34.77	96.95%	0.03065	278.60	87.98%	27.60
5	0.00011	0.00009	0.00010	99.59%	77.72	98.71%	0.01300	129.99	93.33%	45.42	97.95%	0.02057	205.72	89.81%	34.49	96.95%	0.03064	306.36	85.29%	27.46
6	0.00010	0.00008	0.00009	99.58%	76.72	98.71%	0.01299	144.32	92.12%	45.01	97.95%	0.02056	228.47	87.96%	34.21	96.95%	0.03063	340.29	82.67%	27.31
7	0.00009	0.00007	0.00008	99.57%	75.73	98.71%	0.01298	162.24	90.92%	44.60	97.95%	0.02055	256.91	86.15%	33.91	96.95%	0.03062	382.71	80.14%	27.15
8	0.00008	0.00007	0.00008	99.57%	74.74	98.71%	0.01297	172.99	89.74%	44.18	97.95%	0.02055	273.97	84.38%	33.62	96.95%	0.03061	408.16	77.69%	27.00
9	0.00008	0.00007	0.00008	99.56%	73.74	98.71%	0.01297	172.99	88.58%	43.75	97.95%	0.02055	273.97	82.65%	33.31	96.95%	0.03061	408.16	75.31%	26.83
10	0.00008	0.00007	0.00008	99.55%	72.75	98.71%	0.01297	172.99	87.43%	43.32	97.95%	0.02055	273.97	80.95%	33.00	96.95%	0.03061	408.16	73.00%	26.66
11	0.00009	0.00008	0.00009	99.54%	71.75	98.71%	0.01298	152.75	86.30%	42.88	97.95%	0.02056	241.86	79.28%	32.68	96.95%	0.03062	360.25	70.77%	26.49
12	0.00010	0.00009	0.00010	99.54%	70.76	98.71%	0.01299	136.78	85.17%	42.44	97.95%	0.02057	216.50	77.65%	32.36	96.95%	0.03063	322.43	68.60%	26.31
13	0.00012	0.00010	0.00011	99.53%	69.77	98.71%	0.01301	118.26	84.07%	41.99	97.95%	0.02058	187.11	76.06%	32.03	96.95%	0.03065	278.60	66.50%	26.13
14	0.00016	0.00013	0.00015	99.52%	68.77	98.71%	0.01304	89.95	82.97%	41.54	97.95%	0.02062	142.18	74.49%	31.69	96.95%	0.03068	211.58	64.46%	25.94
15	0.00022	0.00015	0.00019	99.50%	67.78	98.71%	0.01308	70.72	81.89%	41.08	97.95%	0.02066	111.65	72.96%	31.34	96.95%	0.03072	166.05	62.49%	25.74
16	0.00030	0.00018	0.00024	99.48%	66.80	98.71%	0.01314	54.74	80.82%	40.62	97.95%	0.02071	86.29	71.45%	31.00	96.95%	0.03077	128.22	60.57%	25.54
17	0.00038	0.00020	0.00029	99.46%	65.81	98.71%	0.01319	45.47	79.76%	40.15	97.95%	0.02076	71.58	69.97%	30.64	96.95%	0.03082	106.28	58.70%	25.34
18	0.00045	0.00021	0.00033	99.43%	64.83	98.71%	0.01323	40.08	78.71%	39.68	97.95%	0.02080	63.02	68.52%	30.28	96.95%	0.03086	93.51	56.89%	25.13
19	0.00052	0.00022	0.00037	99.40%	63.85	98.71%	0.01327	35.85	77.67%	39.21	97.95%	0.02084	56.32	67.09%	29.91	96.95%	0.03090	83.51	55.14%	24.91
20	0.00056	0.00023	0.00040	99.36%	62.87	98.71%	0.01329	33.65	76.64%	38.73	97.95%	0.02086	52.81	65.69%	29.54	96.95%	0.03092	78.28	53.43%	24.69
21	0.00059	0.00023	0.00041	99.32%	61.90	98.71%	0.01330	32.45	75.62%	38.25	97.95%	0.02088	50.92	64.32%	29.16	96.95%	0.03094	75.46	51.78%	24.46
22	0.00061	0.00024	0.00043	99.28%	60.92	98.71%	0.01332	31.34	74.61%	37.75	97.95%	0.02089	49.15	62.98%	28.77	96.95%	0.03095	72.83	50.18%	24.23
23	0.00063	0.00025	0.00044	99.24%	59.95	98.71%	0.01333	30.31	73.62%	37.26	97.95%	0.02091	47.51	61.67%	28.37	96.95%	0.03097	70.38	48.63%	23.99
24	0.00064	0.00026	0.00045	99.19%	58.98	98.71%	0.01334	29.65	72.64%	36.75	97.95%	0.02092	46.48	60.38%	27.97	96.95%	0.03098	68.83	47.12%	23.74
25	0.00065	0.00027	0.00046	99.15%	58.00	98.71%	0.01335	29.03	71.67%	36.24	97.95%	0.02093	45.49	59.11%	27.55	96.95%	0.03099	67.36	45.66%	23.48
26	0.00066	0.00028	0.00047	99.10%	57.03	98.71%	0.01336	28.43	70.71%	35.73	97.95%	0.02093	44.54	57.88%	27.13	96.95%	0.03099	65.95	44.25%	23.21
27	0.00068	0.00029	0.00049	99.06%	56.06	98.71%	0.01338	27.58	69.77%	35.20	97.95%	0.02095	43.19	56.66%	26.70	96.95%	0.03101	63.94	42.87%	22.94
28	0.00070	0.00031	0.00051	99.01%	55.08	98.71%	0.01340	26.53	68.83%	34.68	97.95%	0.02097	41.52	55.48%	26.26	96.95%	0.03103	61.44	41.55%	22.66
29	0.00073	0.00033	0.00053	98.96%	54.11	98.71%	0.01342	25.33	67.91%	34.14	97.95%	0.02099	39.61	54.31%	25.81	96.95%	0.03105	58.59	40.26%	22.37
30	0.00077	0.00036	0.00057	98.91%	53.14	98.71%	0.01346	23.82	67.00%	33.60	97.95%	0.02103	37.22	53.17%	25.35	96.95%	0.03109	55.02	39.01%	22.07
40	0.00142	0.00078	0.00110	98.14%	43.51	98.71%	0.01399	12.71	58.38%	27.83		0.02609	23.72	42.08%	20.73	96.95%	0.03161	28.73	28.38%	18.55
50	0.00298	0.00180	0.00239	96.59%	34.12		0.01882	7.88	49.72%	21.79		0.03426	14.33	31.21%	16.21		0.04129	17.28	19.76%	14.50
60	0.00675	0.00398	0.00537	93.23%	25.15		0.02766	5.16	39.66%	16.01		0.04861	9.06	20.75%	11.88		0.05815	10.84	12.07%	10.62
70	0.01613	0.00994	0.01304	85.99%	16.79		0.04643	3.56	27.86%	10.62		0.07781	5.97	11.20%	7.84		0.09210	7.07	5.77%	6.99
80	0.04793	0.03188	0.03991	68.61%	9.59		0.09838	2.47	14.19%	5.96		0.15332	3.84	3.67%	4.34		0.17834	4.47	1.54%	3.85
90	0.15455	0.12362	0.13909	31.16%	4.58		0.26148	1.88	2.50%	2.69		0.37647	2.71	0.24%	1.88		0.42885	3.08	0.06%	1.63
100	0.34389	0.31851	0.33120	2.52%	2.20		0.58605	1.77	0.01%	1.24		0.82546	2.49	0.00%	0.88		0.93452	2.82	0.00%	0.78

Note: "Regular life table (Australia, 2014-16)" spans the Males / Females / Mortality / Probability of survival / Life expectancy columns. Each of the three groups (Severe+1, Severe+2, Severe+3) is headed "Adjusted life table" spanning its Survival adjustment / Mortality / Implied mortality ratio / Probability of survival / Life expectancy columns.

I   Touyama et al (2013)

Target and fitted criteria are as follows:

GMFCS V

Probabilities of survival

From	To	Target	Fitted	Deviation
2	5	94%	93%	0.094
2	10	84%	84%	0.001
2	15	76%	77%	0.108
2	20	72%	71%	0.044
Total				0.2466

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (Japan)					Adjusted life table				
	Male	Female	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						3.47%				
0	0.00194	0.00198	0.00194	100.00%	80.98	97.38%	0.02804	14.45	100.00%	43.70
1	0.00031	0.00029	0.00031	99.81%	80.14	97.48%	0.02555	82.41	97.20%	43.94
2	0.00021	0.00019	0.00021	99.78%	79.16	97.56%	0.02458	117.02	94.71%	44.08
3	0.00014	0.00012	0.00014	99.75%	78.18	97.65%	0.02366	169.02	92.39%	44.18
4	0.00010	0.00009	0.00010	99.74%	77.19	97.73%	0.02281	228.08	90.20%	44.24
5	0.00009	0.00007	0.00009	99.73%	76.20	97.81%	0.02201	244.57	88.14%	44.26
6	0.00009	0.00007	0.00009	99.72%	75.21	97.88%	0.02125	236.13	86.20%	44.24
7	0.00008	0.00006	0.00008	99.71%	74.21	97.96%	0.02051	256.36	84.37%	44.19
8	0.00007	0.00005	0.00007	99.70%	73.22	98.03%	0.01979	282.73	82.64%	44.11
9	0.00007	0.00006	0.00007	99.70%	72.22	98.10%	0.01911	272.97	81.00%	43.99
10	0.00007	0.00006	0.00007	99.69%	71.23	98.16%	0.01845	263.54	79.46%	43.84
11	0.00007	0.00007	0.00007	99.68%	70.23	98.23%	0.01781	254.45	77.99%	43.65
12	0.00008	0.00007	0.00008	99.68%	69.24	98.29%	0.01721	215.08	76.60%	43.43
13	0.00010	0.00007	0.00010	99.67%	68.24	98.35%	0.01663	166.33	75.28%	43.19
14	0.00013	0.00008	0.00013	99.66%	67.25	98.40%	0.01609	123.76	74.03%	42.91
15	0.00017	0.00009	0.00017	99.65%	66.26	98.46%	0.01558	91.62	72.84%	42.60
16	0.00021	0.00011	0.00021	99.63%	65.27	98.51%	0.01508	71.81	71.71%	42.27
17	0.00026	0.00012	0.00026	99.61%	64.28	98.56%	0.01462	56.21	70.62%	41.91
18	0.00031	0.00013	0.00031	99.58%	63.30	98.61%	0.01417	45.70	69.59%	41.52
19	0.00038	0.00014	0.00038	99.55%	62.32	98.66%	0.01376	36.20	68.61%	41.11
20	0.00045	0.00016	0.00045	99.51%	61.34	98.71%	0.01336	29.69	67.66%	40.68
21	0.00049	0.00019	0.00049	99.47%	60.37	98.75%	0.01295	26.44	66.76%	40.22
22	0.00050	0.00022	0.00050	99.42%	59.40	98.80%	0.01253	25.06	65.89%	39.74
23	0.00051	0.00024	0.00051	99.37%	58.43	98.84%	0.01212	23.77	65.07%	39.24
24	0.00051	0.00025	0.00051	99.32%	57.46	98.88%	0.01172	22.98	64.28%	38.72
25	0.00052	0.00026	0.00052	99.27%	56.49	98.92%	0.01134	21.81	63.53%	38.17
26	0.00053	0.00025	0.00053	99.22%	55.52	98.95%	0.01098	20.71	62.80%	37.60
27	0.00054	0.00025	0.00054	99.16%	54.55	98.99%	0.01063	19.68	62.12%	37.01
28	0.00055	0.00025	0.00055	99.11%	53.58	99.03%	0.01029	18.70	61.46%	36.41
29	0.00056	0.00027	0.00056	99.06%	52.61	99.06%	0.00996	17.78	60.82%	35.78
30	0.00058	0.00028	0.00058	99.00%	51.63	99.09%	0.00965	16.64	60.22%	35.13
40	0.00098	0.00060	0.00098	98.30%	41.96		0.01214	12.39	54.10%	28.53
50	0.00264	0.00151	0.00264	96.75%	32.54		0.01704	6.45	46.95%	22.09
60	0.00670	0.00306	0.00670	92.83%	23.68		0.02649	3.95	38.08%	16.02
70	0.01702	0.00707	0.01702	83.34%	15.72		0.04682	2.75	26.82%	10.57
80	0.04718	0.02308	0.04718	63.28%	8.93		0.09965	2.11	13.62%	5.90
90	0.15129	0.09489	0.15129	25.60%	4.31		0.26004	1.72	2.35%	2.71
100	0.37355	0.29406	0.37355	1.59%	2.17		0.58944	1.58	0.01%	1.38

Target and fitted criteria are as follows:

Does not lift head, Tube fed

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	68%	66%	0.795
4	15	48%	47%	0.086
4	20	33%	35%	0.963
4	25	25%	26%	0.382
4	30	21%	20%	0.770
Total				2.9959

Does not lift head, Fed orally by others

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	80%	78%	0.455
4	15	66%	64%	0.470
4	20	51%	53%	1.000
4	25	43%	44%	0.500
4	30	39%	37%	0.648
Total				3.0729

Does not lift head, Feeds self orally

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	95%	94%	0.226
4	15	88%	90%	0.410
4	20	88%	87%	0.076
Total				0.7124

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Regular life table (United States Life Tables, 2014) Mortality	Mortality	Mortality	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						1.21%					0.96%					6.05%				
0	0.00633	0.00531	0.00582	100.00%	78.72	92.69%	0.07851	13.49	100.00%	14.58	95.71%	0.04844	8.32	100.00%	23.20	98.37%	0.02207	3.79	100.00%	55.62
1	0.00039	0.00034	0.00037	99.42%	78.18	92.78%	0.07258	196.40	92.15%	14.77	95.75%	0.04281	115.86	95.16%	23.35	98.46%	0.01572	42.53	97.79%	55.86
2	0.00028	0.00022	0.00025	99.38%	77.20	92.86%	0.07159	288.93	85.46%	14.89	95.80%	0.04229	170.67	91.08%	23.37	98.56%	0.01467	59.21	96.26%	55.74
3	0.00021	0.00016	0.00018	99.36%	76.22	92.95%	0.07066	385.51	79.34%	15.00	95.84%	0.04182	228.15	87.23%	23.38	98.64%	0.01373	74.92	94.84%	55.57
4	0.00019	0.00013	0.00016	99.34%	75.24	93.04%	0.06978	443.07	73.74%	15.10	95.88%	0.04139	262.81	83.58%	23.38	98.73%	0.01289	81.83	93.54%	55.33
5	0.00016	0.00012	0.00014	99.32%	74.25	93.12%	0.06893	487.23	68.59%	15.20	95.92%	0.04098	289.69	80.12%	23.37	98.80%	0.01210	85.55	92.34%	55.05
6	0.00014	0.00011	0.00013	99.31%	73.26	93.20%	0.06808	542.16	63.86%	15.29	95.95%	0.04057	323.11	76.84%	23.35	98.88%	0.01136	90.50	91.22%	54.72
7	0.00013	0.00010	0.00011	99.30%	72.27	93.29%	0.06724	596.85	59.52%	15.37	95.99%	0.04017	356.55	73.72%	23.31	98.94%	0.01067	94.72	90.18%	54.34
8	0.00011	0.00009	0.00010	99.29%	71.28	93.37%	0.06642	656.05	55.51%	15.44	96.03%	0.03977	392.85	70.76%	23.27	99.01%	0.01002	98.98	89.22%	53.92
9	0.00010	0.00008	0.00009	99.28%	70.28	93.45%	0.06560	712.31	51.83%	15.50	96.07%	0.03938	427.58	67.95%	23.21	99.07%	0.00941	102.19	88.33%	53.46
10	0.00009	0.00008	0.00009	99.27%	69.29	93.53%	0.06481	732.43	48.43%	15.56	96.11%	0.03900	440.74	65.27%	23.14	99.12%	0.00884	99.96	87.49%	52.97
11	0.00010	0.00009	0.00010	99.26%	68.30	93.61%	0.06403	668.90	45.29%	15.60	96.15%	0.03863	403.55	62.73%	23.06	99.18%	0.00832	86.94	86.72%	52.43
12	0.00014	0.00010	0.00012	99.25%	67.30	93.68%	0.06328	527.04	42.39%	15.63	96.18%	0.03828	318.85	60.30%	22.97	99.23%	0.00785	65.37	86.00%	51.87
13	0.00021	0.00013	0.00017	99.24%	66.31	93.76%	0.06255	378.78	39.71%	15.65	96.22%	0.03796	229.84	57.99%	22.86	99.27%	0.00743	44.96	85.32%	51.28
14	0.00030	0.00016	0.00023	99.22%	65.32	93.84%	0.06186	272.50	37.22%	15.66	96.26%	0.03765	165.87	55.79%	22.74	99.32%	0.00705	31.05	84.69%	50.66
15	0.00040	0.00019	0.00029	99.20%	64.34	93.91%	0.06117	208.47	34.92%	15.66	96.29%	0.03735	127.30	53.69%	22.61	99.36%	0.00670	22.84	84.09%	50.01
16	0.00050	0.00023	0.00036	99.17%	63.36	93.98%	0.06050	166.87	32.78%	15.65	96.33%	0.03706	102.23	51.69%	22.47	99.40%	0.00638	17.60	83.53%	49.35
17	0.00062	0.00027	0.00044	99.13%	62.38	94.06%	0.05984	135.54	30.80%	15.63	96.36%	0.03679	83.32	49.77%	22.32	99.43%	0.00610	13.81	83.00%	48.66
18	0.00075	0.00031	0.00053	99.09%	61.41	94.13%	0.05920	112.08	28.96%	15.59	96.40%	0.03652	69.13	47.94%	22.15	99.47%	0.00584	11.06	82.49%	47.95
19	0.00089	0.00034	0.00062	99.04%	60.44	94.20%	0.05858	95.10	27.24%	15.54	96.43%	0.03626	58.87	46.19%	21.97	99.50%	0.00561	9.10	82.01%	47.23
20	0.00103	0.00038	0.00070	98.97%	59.47	94.27%	0.05796	82.25	25.65%	15.48	96.47%	0.03600	51.09	44.51%	21.78	99.53%	0.00539	7.65	81.55%	46.50
21	0.00116	0.00041	0.00079	98.90%	58.52	94.34%	0.05734	73.02	24.16%	15.40	96.50%	0.03574	45.51	42.91%	21.57		0.00555	7.07	81.11%	45.75
22	0.00125	0.00044	0.00085	98.83%	57.56	94.41%	0.05671	66.93	22.78%	15.30	96.54%	0.03546	41.85	41.38%	21.35		0.00569	6.72	80.66%	45.00
23	0.00131	0.00047	0.00089	98.74%	56.61	94.48%	0.05607	63.17	21.48%	15.19	96.57%	0.03516	39.62	39.91%	21.12		0.00581	6.55	80.20%	44.25
24	0.00133	0.00050	0.00091	98.66%	55.66	94.54%	0.05543	60.70	20.28%	15.07	96.60%	0.03486	38.17	38.51%	20.87		0.00592	6.49	79.73%	43.51
25	0.00135	0.00052	0.00093	98.57%	54.71	94.61%	0.05479	58.61	19.16%	14.92	96.64%	0.03455	36.96	37.17%	20.61		0.00603	6.45	79.26%	42.77
26	0.00137	0.00055	0.00096	98.47%	53.76	94.67%	0.05416	56.41	18.11%	14.76	96.67%	0.03425	35.68	35.88%	20.33		0.00615	6.40	78.78%	42.02
27	0.00139	0.00058	0.00099	98.38%	52.81	94.74%	0.05354	54.23	17.13%	14.57	96.70%	0.03396	34.39	34.65%	20.03		0.00627	6.35	78.30%	41.28
28	0.00142	0.00061	0.00102	98.28%	51.86	94.80%	0.05293	51.96	16.21%	14.37	96.73%	0.03367	33.05	33.48%	19.72		0.00640	6.28	77.81%	40.54
29	0.00146	0.00064	0.00105	98.18%	50.92	94.87%	0.05234	49.68	15.35%	14.15	96.76%	0.03339	31.70	32.35%	19.39		0.00653	6.20	77.31%	39.79
30	0.00150	0.00068	0.00109	98.08%	49.97	94.93%	0.05175	47.45	14.55%	13.90	96.79%	0.03311	30.36	31.27%	19.04		0.00667	6.12	76.81%	39.05
40	0.00214	0.00135	0.00174	96.79%	40.56		0.06415	36.80	8.10%	11.23		0.04119	23.63	21.57%	15.41		0.00862	4.94	71.28%	31.68
50	0.00503	0.00321	0.00412	94.34%	31.47		0.08456	20.51	3.82%	8.63		0.05497	13.33	13.37%	11.89		0.01298	3.15	64.29%	24.55
60	0.01137	0.00672	0.00904	88.70%	23.11		0.11857	13.11	1.35%	6.25		0.07827	8.65	6.86%	8.65		0.02111	2.33	54.55%	18.00
70	0.02270	0.01514	0.01892	78.15%	15.50		0.18228	9.64	0.29%	4.07		0.12218	6.46	2.52%	5.69		0.03691	1.95	41.49%	12.02
80	0.05750	0.04213	0.04981	57.65%	9.04		0.32994	6.62	0.02%	2.20		0.22688	4.55	0.43%	3.17		0.08067	1.62	24.10%	6.94
90	0.16233	0.12810	0.14521	23.77%	4.49		0.70916	4.88	0.00%	0.87		0.50169	3.45	0.01%	1.37		0.20734	1.43	6.14%	3.36
100	1.00000	1.00000	1.00000	1.80%	2.22		2.14286	2.14	0.00%	1.03		1.72240	1.72	0.00%	1.29		1.12589	1.13	0.13%	1.97

Target and fitted criteria are as follows:

Lifts head but not chest, Tube fed

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	73%	74%	0.282
4	15	58%	59%	0.085
4	20	48%	47%	0.419
4	25	38%	37%	0.183
4	30	29%	30%	0.245
Total				1.2141

Lifts head but not chest, Fed orally by others

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	85%	83%	0.563
4	15	73%	71%	0.685
4	20	61%	60%	0.064
4	25	49%	51%	1.187
4	30	44%	44%	0.015
Total				2.5142

Lifts head but not chest, Feeds self orally

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	95%	93%	0.367
4	15	89%	88%	0.171
4	20	84%	83%	0.240
4	25	74%	78%	1.704
4	30	74%	73%	0.204
Total				2.6871

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United States Life Tables, 2014)					Adjusted life table					Adjusted life table					Adjusted life table				
	Mortality	Mortality	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.64%					0.00%					0.00%				
0	0.00633	0.00531	0.00582	100.00%	78.72	95.01%	0.05547	9.53	100.00%	19.57	96.92%	0.03646	6.27	100.00%	26.77	98.83%	0.01742	2.99	100.00%	46.79
1	0.00039	0.00034	0.00037	99.42%	78.18	95.04%	0.04997	135.23	94.45%	19.69	96.92%	0.03118	84.38	96.35%	26.76	98.83%	0.01203	32.56	98.26%	46.62
2	0.00028	0.00022	0.00025	99.38%	77.20	95.07%	0.04954	199.94	89.73%	19.70	96.92%	0.03106	125.38	93.35%	26.60	98.83%	0.01191	48.07	97.08%	46.18
3	0.00021	0.00016	0.00018	99.36%	76.22	95.10%	0.04916	268.21	85.29%	19.70	96.92%	0.03100	169.13	90.45%	26.44	98.83%	0.01185	64.63	95.92%	45.73
4	0.00019	0.00013	0.00016	99.34%	75.24	95.13%	0.04882	309.99	81.10%	19.69	96.92%	0.03098	196.68	87.65%	26.27	98.83%	0.01182	75.06	94.78%	45.27
5	0.00016	0.00012	0.00014	99.32%	74.25	95.16%	0.04850	342.83	77.14%	19.67	96.92%	0.03096	218.86	84.93%	26.10	98.83%	0.01181	83.45	93.66%	44.81
6	0.00014	0.00011	0.00013	99.31%	73.26	95.19%	0.04817	383.65	73.39%	19.65	96.92%	0.03095	246.45	82.30%	25.91	98.83%	0.01179	93.89	92.56%	44.33
7	0.00013	0.00010	0.00011	99.30%	72.27	95.23%	0.04785	424.75	69.86%	19.62	96.92%	0.03093	274.57	79.75%	25.73	98.83%	0.01178	104.54	91.47%	43.86
8	0.00011	0.00009	0.00010	99.29%	71.28	95.26%	0.04754	469.55	66.52%	19.58	96.92%	0.03092	305.44	77.29%	25.53	98.83%	0.01177	116.22	90.39%	43.37
9	0.00010	0.00008	0.00009	99.28%	70.28	95.29%	0.04722	512.75	63.35%	19.53	96.92%	0.03091	335.65	74.90%	25.33	98.83%	0.01176	127.65	89.33%	42.88
10	0.00009	0.00008	0.00009	99.27%	69.29	95.32%	0.04692	530.27	60.36%	19.48	96.92%	0.03091	349.34	72.58%	25.12	98.83%	0.01175	132.83	88.28%	42.39
11	0.00010	0.00009	0.00010	99.26%	68.30	95.35%	0.04663	487.09	57.53%	19.41	96.92%	0.03092	322.98	70.34%	24.91	98.83%	0.01176	122.86	87.24%	41.89
12	0.00014	0.00010	0.00012	99.25%	67.30	95.38%	0.04635	386.07	54.85%	19.34	96.92%	0.03094	257.71	68.16%	24.68	98.83%	0.01178	98.15	86.21%	41.38
13	0.00021	0.00013	0.00017	99.24%	66.31	95.41%	0.04610	279.14	52.31%	19.25	96.92%	0.03098	187.62	66.05%	24.46	98.83%	0.01183	71.63	85.20%	40.87
14	0.00030	0.00016	0.00023	99.22%	65.32	95.44%	0.04586	202.05	49.89%	19.16	96.92%	0.03104	136.76	64.01%	24.22	98.83%	0.01189	52.38	84.19%	40.35
15	0.00039	0.00019	0.00029	99.20%	64.34	95.46%	0.04564	155.52	47.61%	19.06	96.92%	0.03111	106.02	62.02%	23.98	98.83%	0.01196	40.74	83.19%	39.83
16	0.00050	0.00023	0.00036	99.17%	63.36	95.49%	0.04541	125.26	45.43%	18.94	96.92%	0.03118	85.99	60.09%	23.74	98.83%	0.01202	33.17	82.19%	39.31
17	0.00062	0.00027	0.00044	99.13%	62.38	95.52%	0.04520	102.37	43.37%	18.82	96.92%	0.03125	70.78	58.22%	23.48	98.83%	0.01210	27.41	81.20%	38.78
18	0.00075	0.00031	0.00053	99.09%	61.41	95.55%	0.04499	85.18	41.41%	18.69	96.92%	0.03134	59.32	56.40%	23.23	98.83%	0.01219	23.07	80.22%	38.25
19	0.00089	0.00034	0.00062	99.04%	60.44	95.58%	0.04479	72.73	39.55%	18.55	96.92%	0.03142	51.01	54.63%	22.96	98.83%	0.01227	19.93	79.24%	37.71
20	0.00103	0.00038	0.00070	98.97%	59.47	95.61%	0.04460	63.29	37.78%	18.39	96.92%	0.03151	44.71	52.91%	22.69	98.83%	0.01236	17.54	78.27%	37.18
21	0.00116	0.00041	0.00079	98.90%	58.52	95.64%	0.04439	56.53	36.09%	18.23	96.92%	0.03159	40.22	51.25%	22.41	98.83%	0.01244	15.84	77.30%	36.63
22	0.00125	0.00044	0.00085	98.83%	57.56	95.66%	0.04417	52.13	34.49%	18.05	96.92%	0.03165	37.35	49.63%	22.13	98.83%	0.01250	14.76	76.34%	36.09
23	0.00131	0.00047	0.00089	98.74%	56.61	95.69%	0.04393	49.50	32.97%	17.86	96.92%	0.03168	35.70	48.06%	21.83	98.83%	0.01254	14.13	75.39%	35.54
24	0.00133	0.00050	0.00091	98.66%	55.66	95.72%	0.04368	47.84	31.52%	17.66	96.92%	0.03171	34.73	46.54%	21.53	98.83%	0.01257	13.76	74.44%	34.99
25	0.00135	0.00052	0.00093	98.57%	54.71	95.75%	0.04343	46.46	30.14%	17.44	96.92%	0.03173	33.94	45.06%	21.22	98.83%	0.01259	13.47	73.51%	34.42
26	0.00137	0.00055	0.00096	98.47%	53.76	95.77%	0.04318	44.98	28.83%	17.21	96.92%	0.03175	33.08	43.63%	20.90	98.83%	0.01261	13.14	72.58%	33.86
27	0.00139	0.00058	0.00099	98.38%	52.81	95.80%	0.04294	43.49	27.59%	16.97	96.92%	0.03178	32.19	42.24%	20.57	98.83%	0.01264	12.80	71.67%	33.28
28	0.00142	0.00061	0.00102	98.28%	51.86	95.83%	0.04270	41.92	26.40%	16.70	96.92%	0.03181	31.23	40.90%	20.23	98.83%	0.01267	12.44	70.76%	32.70
29	0.00146	0.00064	0.00105	98.18%	50.92	95.85%	0.04247	40.31	25.27%	16.43	96.92%	0.03184	30.23	39.60%	19.88	98.83%	0.01271	12.06	69.86%	32.12
30	0.00150	0.00068	0.00109	98.08%	49.97	95.88%	0.04224	38.73	24.20%	16.13	96.92%	0.03188	29.23	38.34%	19.51	98.83%	0.01274	11.69	68.97%	31.52
40	0.00214	0.00135	0.00174	96.79%	40.56		0.05243	30.08	15.04%	13.04		0.03967	22.76	26.82%	15.79		0.01610	9.23	59.84%	25.56
50	0.00503	0.00321	0.00412	94.34%	31.47		0.06945	16.85	8.16%	10.05		0.05301	12.86	16.92%	12.19		0.02262	5.49	49.58%	19.79
60	0.01137	0.00672	0.00904	88.70%	23.11		0.09800	10.84	3.50%	7.29		0.07561	8.36	8.90%	8.87		0.03424	3.79	37.57%	14.48
70	0.02270	0.01514	0.01892	78.15%	15.50		0.15160	8.01	0.99%	4.78		0.11821	6.25	3.39%	5.84		0.05650	2.99	24.29%	9.63
80	0.05750	0.04213	0.04981	57.65%	9.04		0.27734	5.57	0.11%	2.62		0.22007	4.42	0.62%	3.26		0.11425	2.29	10.80%	5.51
90	0.16233	0.12810	0.14521	23.77%	4.49		0.60326	4.15	0.00%	1.09		0.48798	3.36	0.01%	1.41		0.27494	1.89	1.58%	2.59
100	1.00000	1.00000	1.00000	1.80%	2.22		1.92824	1.93	0.00%	1.15		1.69462	1.69	0.00%	1.31		1.26289	1.26	0.01%	1.75

Target and fitted criteria are as follows:

Lifts head and chest, Tube fed

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	77%	80%	1.161
4	15	65%	66%	0.303
4	20	59%	55%	2.658
4	25	48%	46%	1.266
4	30	35%	38%	1.991
Total				7.3794

Lifts head and chest, Fed orally by others

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	90%	87%	0.738
4	15	81%	78%	1.001
4	20	73%	70%	1.441
4	25	62%	62%	0.003
4	30	52%	55%	2.118
Total				5.3017

Lifts head and chest, Feeds self orally

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	96%	95%	0.097
4	15	93%	91%	0.398
4	20	91%	87%	1.631
4	25	85%	83%	0.368
4	30	75%	79%	2.612
Total				5.1061

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United States Life Tables, 2014) Mortality	Mortality	Mortality	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Adjusted life table Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%					0.00%					0.00%				
0	0.00633	0.00531	0.00582	100.00%	78.72	96.36%	0.04202	7.22	100.00%	23.60	97.80%	0.02773	4.76	100.00%	33.58	99.17%	0.01410	2.42	100.00%	53.18
1	0.00039	0.00034	0.00037	99.42%	78.18	96.36%	0.03677	99.50	95.80%	23.61	97.80%	0.02240	60.61	97.23%	33.53	99.17%	0.00870	23.54	98.59%	52.93
2	0.00028	0.00022	0.00025	99.38%	77.20	96.36%	0.03665	147.92	92.28%	23.49	97.80%	0.02228	89.91	95.05%	33.28	99.17%	0.00858	34.63	97.73%	52.39
3	0.00021	0.00016	0.00018	99.36%	76.22	96.36%	0.03659	199.61	88.89%	23.37	97.80%	0.02221	121.19	92.93%	33.03	99.17%	0.00852	46.46	96.89%	51.84
4	0.00019	0.00013	0.00016	99.34%	75.24	96.36%	0.03656	232.14	85.64%	23.24	97.80%	0.02219	140.88	90.87%	32.77	99.17%	0.00849	53.90	96.07%	51.28
5	0.00016	0.00012	0.00014	99.32%	74.25	96.36%	0.03655	258.35	82.51%	23.10	97.80%	0.02217	156.74	88.85%	32.50	99.17%	0.00847	59.90	95.25%	50.72
6	0.00014	0.00011	0.00013	99.31%	73.26	96.36%	0.03653	290.94	79.49%	22.96	97.80%	0.02216	176.46	86.88%	32.23	99.17%	0.00846	67.36	94.45%	50.15
7	0.00013	0.00010	0.00011	99.30%	72.27	96.36%	0.03652	324.16	76.59%	22.81	97.80%	0.02214	196.56	84.96%	31.94	99.17%	0.00845	74.96	93.65%	49.57
8	0.00011	0.00009	0.00010	99.29%	71.28	96.36%	0.03651	360.62	73.79%	22.66	97.80%	0.02213	218.63	83.08%	31.66	99.17%	0.00843	83.31	92.86%	48.99
9	0.00010	0.00008	0.00009	99.28%	70.28	96.36%	0.03650	396.30	71.10%	22.50	97.80%	0.02212	240.22	81.24%	31.36	99.17%	0.00842	91.48	92.07%	48.40
10	0.00009	0.00008	0.00009	99.27%	69.29	96.36%	0.03650	412.47	68.50%	22.33	97.80%	0.02212	250.01	79.44%	31.06	99.17%	0.00842	95.18	91.30%	47.81
11	0.00010	0.00009	0.00010	99.26%	68.30	96.36%	0.03650	381.34	66.00%	22.16	97.80%	0.02213	231.17	77.68%	30.75	99.17%	0.00843	88.05	90.53%	47.21
12	0.00014	0.00010	0.00012	99.25%	67.30	96.36%	0.03653	304.23	63.60%	21.98	97.80%	0.02215	184.50	75.96%	30.44	99.17%	0.00845	70.40	89.77%	46.61
13	0.00021	0.00013	0.00017	99.24%	66.31	96.36%	0.03657	221.44	61.27%	21.79	97.80%	0.02220	134.40	74.28%	30.11	99.17%	0.00850	51.45	89.01%	46.00
14	0.00030	0.00016	0.00023	99.22%	65.32	96.36%	0.03663	161.37	59.03%	21.60	97.80%	0.02226	98.05	72.63%	29.79	99.17%	0.00856	37.70	88.25%	45.39
15	0.00039	0.00019	0.00029	99.20%	64.34	96.36%	0.03669	125.05	56.87%	21.40	97.80%	0.02232	76.07	71.02%	29.45	99.17%	0.00862	29.39	87.49%	44.78
16	0.00050	0.00023	0.00036	99.17%	63.36	96.36%	0.03676	101.40	54.78%	21.20	97.80%	0.02239	61.76	69.43%	29.11	99.17%	0.00869	23.98	86.74%	44.16
17	0.00062	0.00027	0.00044	99.13%	62.38	96.36%	0.03684	83.43	52.77%	20.99	97.80%	0.02247	50.88	67.88%	28.77	99.17%	0.00877	19.87	85.99%	43.55
18	0.00075	0.00031	0.00053	99.09%	61.41	96.36%	0.03692	69.89	50.82%	20.77	97.80%	0.02255	42.69	66.35%	28.42	99.17%	0.00886	16.77	85.23%	42.93
19	0.00089	0.00034	0.00062	99.04%	60.44	96.36%	0.03700	60.08	48.95%	20.55	97.80%	0.02264	36.75	64.85%	28.06	99.17%	0.00894	14.52	84.48%	42.31
20	0.00103	0.00038	0.00070	98.97%	59.47	96.36%	0.03709	52.64	47.14%	20.32	97.80%	0.02272	32.25	63.39%	27.70	99.17%	0.00903	12.82	83.72%	41.68
21	0.00116	0.00041	0.00079	98.90%	58.52	96.36%	0.03717	47.33	45.39%	20.08	97.80%	0.02280	29.04	61.95%	27.33	99.17%	0.00911	11.60	82.97%	41.06
22	0.00125	0.00044	0.00085	98.83%	57.56	96.36%	0.03723	43.94	43.70%	19.84	97.80%	0.02286	26.98	60.53%	26.96	99.17%	0.00917	10.83	82.21%	40.43
23	0.00131	0.00047	0.00089	98.74%	56.61	96.36%	0.03727	41.98	42.08%	19.58	97.80%	0.02290	25.80	59.15%	26.58	99.17%	0.00921	10.38	81.46%	39.80
24	0.00133	0.00050	0.00091	98.66%	55.66	96.36%	0.03729	40.84	40.51%	19.32	97.80%	0.02293	25.11	57.80%	26.19	99.17%	0.00924	10.12	80.70%	39.17
25	0.00135	0.00052	0.00093	98.57%	54.71	96.36%	0.03731	39.92	39.00%	19.05	97.80%	0.02295	24.55	56.47%	25.79	99.17%	0.00926	9.91	79.96%	38.53
26	0.00137	0.00055	0.00096	98.47%	53.76	96.36%	0.03734	38.89	37.54%	18.77	97.80%	0.02297	23.93	55.17%	25.39	99.17%	0.00929	9.67	79.22%	37.88
27	0.00139	0.00058	0.00099	98.38%	52.81	96.36%	0.03736	37.84	36.14%	18.48	97.80%	0.02300	23.30	53.91%	24.99	99.17%	0.00931	9.43	78.48%	37.23
28	0.00142	0.00061	0.00102	98.28%	51.86	96.36%	0.03739	36.71	34.79%	18.18	97.80%	0.02303	22.61	52.67%	24.55	99.17%	0.00934	9.17	77.75%	36.58
29	0.00146	0.00064	0.00105	98.18%	50.92	96.36%	0.03743	35.53	33.49%	17.86	97.80%	0.02306	21.90	51.45%	24.12	99.17%	0.00938	8.90	77.03%	35.92
30	0.00150	0.00068	0.00109	98.08%	49.97	96.36%	0.03746	34.35	32.24%	17.54	97.80%	0.02310	21.18	50.27%	23.67	99.17%	0.00941	8.63	76.30%	35.25
40	0.00214	0.00135	0.00174	96.79%	40.56		0.04655	26.70	21.16%	14.19		0.02886	16.55	38.84%	19.18		0.01200	6.88	68.69%	28.59
50	0.00503	0.00321	0.00412	94.34%	31.47		0.06187	15.01	12.31%	10.94		0.03907	9.48	27.79%	14.82		0.01734	4.21	59.63%	22.15
60	0.01137	0.00672	0.00904	88.70%	23.11		0.08768	9.69	5.81%	7.95		0.05663	6.26	17.31%	10.82		0.02704	2.99	48.08%	16.22
70	0.02270	0.01514	0.01892	78.15%	15.50		0.13620	7.20	1.88%	5.22		0.08990	4.75	8.43%	7.16		0.04576	2.42	34.00%	10.81
80	0.05750	0.04213	0.04981	57.65%	9.04		0.25093	5.04	0.26%	2.89		0.17152	3.44	2.34%	4.03		0.09584	1.92	17.51%	6.22
90	0.16233	0.12810	0.14521	23.77%	4.49		0.55010	3.79	0.00%	1.22		0.39024	2.69	0.12%	1.81		0.23788	1.64	3.49%	2.97
100	1.00000	1.00000	1.00000	1.80%	2.22		1.82051	1.82	0.00%	1.22		1.49654	1.50	0.00%	1.48		1.18780	1.19	0.04%	1.86

Target and fitted criteria are as follows:

Full rolling, Tube fed

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	87%	87%	0.001
4	15	81%	78%	1.413
4	20	73%	69%	2.124
4	25	60%	61%	0.297
4	30	52%	54%	1.133
Total				4.9677

Full rolling, Fed orally by others

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	95%	94%	0.035
4	15	91%	90%	0.109
4	20	86%	86%	0.013
4	25	82%	81%	0.048
4	30	76%	77%	0.201
Total				0.4063

Full rolling, Feeds self orally

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	98%	98%	0.001
4	15	97%	97%	0.020
4	20	95%	95%	0.002
4	25	93%	93%	0.000
4	30	91%	91%	0.004
Total				0.0274

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (United States Life Tables, 2014)					Adjusted life table					Adjusted life table					Adjusted life table				
	Mortality	Mortality	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%					0.00%					0.00%				
0	0.00633	0.00531	0.00582	100.00%	78.72	97.74%	0.02833	4.87	100.00%	33.01	99.06%	0.01516	2.61	100.00%	50.98	99.69%	0.00885	1.52	100.00%	67.19
1	0.00039	0.00034	0.00037	99.42%	78.18	97.74%	0.02301	62.26	97.17%	32.96	99.06%	0.00976	26.42	98.48%	50.75	99.69%	0.00342	9.25	99.11%	66.78
2	0.00028	0.00022	0.00025	99.38%	77.20	97.74%	0.02289	92.38	94.93%	32.72	99.06%	0.00964	38.92	97.52%	50.25	99.69%	0.00330	13.31	98.78%	66.01
3	0.00021	0.00016	0.00018	99.36%	76.22	97.74%	0.02282	124.52	92.76%	32.48	99.06%	0.00958	52.27	96.58%	49.73	99.69%	0.00323	17.64	98.45%	65.23
4	0.00019	0.00013	0.00016	99.34%	75.24	97.74%	0.02280	144.76	90.64%	32.23	99.06%	0.00955	60.66	95.66%	49.21	99.69%	0.00321	20.37	98.13%	64.44
5	0.00016	0.00012	0.00014	99.32%	74.25	97.74%	0.02278	161.06	88.57%	31.97	99.06%	0.00954	67.43	94.74%	48.68	99.69%	0.00319	22.57	97.82%	63.64
6	0.00014	0.00011	0.00013	99.31%	73.26	97.74%	0.02277	181.33	86.56%	31.70	99.06%	0.00952	75.84	93.84%	48.14	99.69%	0.00318	25.30	97.50%	62.84
7	0.00013	0.00010	0.00011	99.30%	72.27	97.74%	0.02276	201.98	84.59%	31.43	99.06%	0.00951	84.42	92.94%	47.60	99.69%	0.00316	28.08	97.19%	62.04
8	0.00011	0.00009	0.00010	99.29%	71.28	97.74%	0.02274	224.66	82.66%	31.15	99.06%	0.00950	93.83	92.06%	47.05	99.69%	0.00315	31.14	96.89%	61.24
9	0.00010	0.00008	0.00009	99.28%	70.28	97.74%	0.02274	246.86	80.78%	30.86	99.06%	0.00949	103.04	91.19%	46.50	99.69%	0.00314	34.13	96.58%	60.43
10	0.00009	0.00008	0.00009	99.27%	69.29	97.74%	0.02273	256.91	78.94%	30.57	99.06%	0.00949	107.21	90.32%	45.94	99.69%	0.00314	35.48	96.28%	59.62
11	0.00010	0.00009	0.00010	99.26%	68.30	97.74%	0.02274	237.55	77.15%	30.27	99.06%	0.00949	99.18	89.46%	45.38	99.69%	0.00315	32.87	95.98%	58.81
12	0.00014	0.00010	0.00012	99.25%	67.30	97.74%	0.02276	189.59	75.40%	29.96	99.06%	0.00952	79.27	88.61%	44.81	99.69%	0.00317	26.41	95.67%	57.99
13	0.00021	0.00013	0.00017	99.24%	66.31	97.74%	0.02281	138.10	73.68%	29.64	99.06%	0.00956	57.90	87.77%	44.23	99.69%	0.00322	19.47	95.37%	57.17
14	0.00030	0.00016	0.00023	99.22%	65.32	97.74%	0.02287	100.74	72.00%	29.32	99.06%	0.00962	42.40	86.93%	43.65	99.69%	0.00328	14.44	95.06%	56.36
15	0.00039	0.00019	0.00029	99.20%	64.34	97.74%	0.02293	78.15	70.35%	29.00	99.06%	0.00969	33.02	86.10%	43.07	99.69%	0.00334	11.40	94.75%	55.54
16	0.00050	0.00023	0.00036	99.17%	63.36	97.74%	0.02300	63.44	68.74%	28.67	99.06%	0.00976	26.92	85.26%	42.49	99.69%	0.00341	9.41	94.44%	54.72
17	0.00062	0.00027	0.00044	99.13%	62.38	97.74%	0.02308	52.27	67.16%	28.33	99.06%	0.00984	22.28	84.43%	41.90	99.69%	0.00349	7.91	94.11%	53.91
18	0.00075	0.00031	0.00053	99.09%	61.41	97.74%	0.02316	43.85	65.61%	27.99	99.06%	0.00992	18.78	83.60%	41.32	99.69%	0.00358	6.77	93.78%	53.10
19	0.00089	0.00034	0.00062	99.04%	60.44	97.74%	0.02325	37.74	64.09%	27.64	99.06%	0.01001	16.25	82.77%	40.72	99.69%	0.00367	5.95	93.45%	52.29
20	0.00103	0.00038	0.00070	98.97%	59.47	97.74%	0.02333	33.12	62.60%	27.29	99.06%	0.01010	14.33	81.94%	40.13	99.69%	0.00375	5.33	93.11%	51.48
21	0.00116	0.00041	0.00079	98.90%	58.52	97.74%	0.02341	29.82	61.14%	26.93	99.06%	0.01018	12.96	81.11%	39.54	99.69%	0.00383	4.88	92.76%	50.67
22	0.00125	0.00044	0.00085	98.83%	57.56	97.74%	0.02347	27.70	59.71%	26.56	99.06%	0.01024	12.08	80.29%	38.94	99.69%	0.00390	4.60	92.40%	49.86
23	0.00131	0.00047	0.00089	98.74%	56.61	97.74%	0.02351	26.49	58.31%	26.19	99.06%	0.01028	11.58	79.47%	38.33	99.69%	0.00394	4.43	92.04%	49.05
24	0.00133	0.00050	0.00091	98.66%	55.66	97.74%	0.02354	25.78	56.93%	25.81	99.06%	0.01030	11.28	78.65%	37.73	99.69%	0.00396	4.34	91.68%	48.25
25	0.00135	0.00052	0.00093	98.57%	54.71	97.74%	0.02356	25.20	55.59%	25.42	99.06%	0.01032	11.05	77.84%	37.11	99.69%	0.00398	4.26	91.32%	47.44
26	0.00137	0.00055	0.00096	98.47%	53.76	97.74%	0.02358	24.57	54.28%	25.02	99.06%	0.01035	10.78	77.04%	36.50	99.69%	0.00401	4.18	90.95%	46.62
27	0.00139	0.00058	0.00099	98.38%	52.81	97.74%	0.02361	23.91	53.00%	24.61	99.06%	0.01038	10.51	76.24%	35.87	99.69%	0.00404	4.09	90.59%	45.81
28	0.00142	0.00061	0.00102	98.28%	51.86	97.74%	0.02364	23.21	51.75%	24.19	99.06%	0.01041	10.22	75.45%	35.24	99.69%	0.00407	3.99	90.22%	44.99
29	0.00146	0.00064	0.00105	98.18%	50.92	97.74%	0.02367	22.47	50.53%	23.76	99.06%	0.01044	9.91	74.66%	34.61	99.69%	0.00410	3.89	89.86%	44.17
30	0.00150	0.00068	0.00109	98.08%	49.97	97.74%	0.02371	21.74	49.33%	23.33	99.06%	0.01048	9.61	73.88%	33.97	99.69%	0.00414	3.79	89.49%	43.35
40	0.00214	0.00135	0.00174	96.79%	40.56		0.02961	16.98	37.86%	18.90		0.01331	7.63	65.73%	27.55		0.00550	3.15	85.40%	35.18
50	0.00503	0.00321	0.00412	94.34%	31.47		0.04004	9.71	26.85%	14.60		0.01903	4.62	56.22%	21.34		0.00896	2.17	79.79%	27.28
60	0.01137	0.00672	0.00904	88.70%	23.11		0.05795	6.41	16.53%	10.66		0.02934	3.24	44.44%	15.62		0.01563	1.73	70.94%	20.01
70	0.02270	0.01514	0.01892	78.15%	15.50		0.09186	4.86	7.92%	7.05		0.04919	2.60	30.54%	10.41		0.02875	1.52	57.70%	13.39
80	0.05750	0.04213	0.04981	57.65%	9.04		0.17490	3.51	2.13%	3.97		0.10173	2.04	15.01%	5.97		0.06667	1.34	37.38%	7.76
90	0.16233	0.12810	0.14521	23.77%	4.49		0.39703	2.73	0.10%	1.78		0.24973	1.72	2.71%	2.84		0.17914	1.23	11.88%	3.80
100	1.00000	1.00000	1.00000	1.80%	2.22		1.51031	1.51	0.00%	1.47		1.21180	1.21	0.02%	1.83		1.06876	1.07	0.47%	2.07

Target and fitted criteria are as follows:

Walks unaided, Tube fed

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	95%	94%	0.087
4	15	93%	89%	1.375
4	20	84%	85%	0.088
4	25	79%	80%	0.239
Total				1.7889

Walks unaided, Fed orally by others

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	96%	98%	0.259
4	15	95%	96%	0.037
4	20	95%	94%	0.235
4	25	95%	91%	1.449
4	30	86%	89%	1.085
Total				3.0646

Walks unaided, Feeds self orally

Probabilities of survival

From	To	Target	Fitted	Deviation
4	10	99%	99%	0.000
4	15	99%	98%	0.071
4	20	98%	97%	0.068
4	25	96%	96%	0.000
4	30	94%	95%	0.071
Total				0.2099

Survival adjustment parameters that best replicate the above criteria yields the f...

Age	Regular life table (United States Life Tables, 2014)					Adjusted life table					Adjusted life table					Adjusted life table				
	Mortality	Mortality	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.00%					0.00%					0.00%				
0	0.00633	0.00531	0.00582	100.00%	78.72	99.00%	0.01574	2.71	100.00%	49.05	99.60%	0.00976	1.68	100.00%	64.33	99.84%	0.00737	1.27	100.00%	72.43
1	0.00039	0.00034	0.00037	99.42%	78.18	99.00%	0.01035	28.00	98.43%	48.82	99.60%	0.00433	11.71	99.02%	63.96	99.84%	0.00192	5.21	99.26%	71.96
2	0.00028	0.00022	0.00025	99.38%	77.20	99.00%	0.01023	41.28	97.41%	48.33	99.60%	0.00421	16.98	98.60%	63.23	99.84%	0.00180	7.27	99.07%	71.10
3	0.00021	0.00016	0.00018	99.36%	76.22	99.00%	0.01016	55.45	96.41%	47.82	99.60%	0.00414	22.60	98.18%	62.50	99.84%	0.00174	9.48	98.89%	70.23
4	0.00019	0.00013	0.00016	99.34%	75.24	99.00%	0.01014	64.37	95.43%	47.31	99.60%	0.00412	26.14	97.77%	61.76	99.84%	0.00171	10.87	98.72%	69.35
5	0.00016	0.00012	0.00014	99.32%	74.25	99.00%	0.01012	71.55	94.46%	46.79	99.60%	0.00410	28.99	97.37%	61.01	99.84%	0.00170	11.99	98.55%	68.47
6	0.00014	0.00011	0.00013	99.31%	73.26	99.00%	0.01011	80.49	93.51%	46.26	99.60%	0.00408	32.53	96.97%	60.26	99.84%	0.00168	13.38	98.39%	67.58
7	0.00013	0.00010	0.00011	99.30%	72.27	99.00%	0.01009	89.59	92.56%	45.73	99.60%	0.00407	36.14	96.58%	59.50	99.84%	0.00167	14.80	98.22%	66.69
8	0.00011	0.00009	0.00010	99.29%	71.28	99.00%	0.01008	99.59	91.63%	45.19	99.60%	0.00406	40.11	96.18%	58.74	99.84%	0.00166	16.36	98.06%	65.81
9	0.00010	0.00008	0.00009	99.28%	70.28	99.00%	0.01007	109.37	90.70%	44.65	99.60%	0.00405	43.99	95.79%	57.98	99.84%	0.00165	17.88	97.89%	64.91
10	0.00009	0.00008	0.00009	99.27%	69.29	99.00%	0.01007	113.80	89.79%	44.09	99.60%	0.00405	45.75	95.40%	57.22	99.84%	0.00164	18.57	97.73%	64.02
11	0.00010	0.00009	0.00010	99.26%	68.30	99.00%	0.01008	105.27	88.89%	43.54	99.60%	0.00406	42.36	95.02%	56.45	99.84%	0.00165	17.24	97.57%	63.12
12	0.00014	0.00010	0.00012	99.25%	67.30	99.00%	0.01010	84.13	87.99%	42.98	99.60%	0.00408	33.98	94.63%	55.67	99.84%	0.00167	13.95	97.41%	62.23
13	0.00021	0.00013	0.00017	99.24%	66.31	99.00%	0.01015	61.43	87.10%	42.41	99.60%	0.00412	24.97	94.25%	54.90	99.84%	0.00172	10.41	97.25%	61.33
14	0.00030	0.00016	0.00023	99.22%	65.32	99.00%	0.01021	44.96	86.22%	41.84	99.60%	0.00419	18.44	93.86%	54.13	99.84%	0.00178	7.85	97.08%	60.44
15	0.00039	0.00019	0.00029	99.20%	64.34	99.00%	0.01027	35.01	85.34%	41.27	99.60%	0.00425	14.49	93.47%	53.35	99.84%	0.00185	6.30	96.91%	59.54
16	0.00050	0.00023	0.00036	99.17%	63.36	99.00%	0.01034	28.52	84.46%	40.69	99.60%	0.00432	11.92	93.07%	52.58	99.84%	0.00192	5.29	96.73%	58.65
17	0.00062	0.00027	0.00044	99.13%	62.38	99.00%	0.01042	23.60	83.59%	40.11	99.60%	0.00440	9.96	92.67%	51.80	99.84%	0.00200	4.52	96.54%	57.76
18	0.00075	0.00031	0.00053	99.09%	61.41	99.00%	0.01050	19.89	82.72%	39.53	99.60%	0.00449	8.49	92.26%	51.03	99.84%	0.00208	3.94	96.35%	56.88
19	0.00089	0.00034	0.00062	99.04%	60.44	99.00%	0.01059	17.20	81.85%	38.94	99.60%	0.00457	7.43	91.84%	50.26	99.84%	0.00217	3.52	96.15%	56.00
20	0.00103	0.00038	0.00070	98.97%	59.47	99.00%	0.01068	15.16	80.98%	38.35	99.60%	0.00466	6.62	91.42%	49.49	99.84%	0.00226	3.21	95.94%	55.12
21	0.00116	0.00041	0.00079	98.90%	58.52	99.00%	0.01076	13.70	80.12%	37.76	99.60%	0.00474	6.04	91.00%	48.72	99.84%	0.00234	2.98	95.73%	54.24
22	0.00125	0.00044	0.00085	98.83%	57.56	99.00%	0.01082	12.77	79.25%	37.17	99.60%	0.00480	5.67	90.57%	47.95	99.84%	0.00240	2.83	95.50%	53.37
23	0.00131	0.00047	0.00089	98.74%	56.61	99.00%	0.01086	12.24	78.40%	36.57	99.60%	0.00484	5.46	90.13%	47.17	99.84%	0.00244	2.75	95.27%	52.49
24	0.00133	0.00050	0.00091	98.66%	55.66	99.00%	0.01089	11.92	77.55%	35.96	99.60%	0.00487	5.33	89.69%	46.40	99.84%	0.00247	2.70	95.04%	51.62
25	0.00135	0.00052	0.00093	98.57%	54.71	99.00%	0.01091	11.67	76.70%	35.35	99.60%	0.00489	5.23	89.26%	45.63	99.84%	0.00249	2.66	94.80%	50.75
26	0.00137	0.00055	0.00096	98.47%	53.76		0.01111	11.57	75.87%	34.74	99.60%	0.00492	5.12	88.82%	44.85	99.84%	0.00251	2.62	94.57%	49.87
27	0.00139	0.00058	0.00099	98.38%	52.81		0.01132	11.46	75.02%	34.12	99.60%	0.00494	5.01	88.38%	44.07	99.84%	0.00254	2.57	94.33%	49.00
28	0.00142	0.00061	0.00102	98.28%	51.86		0.01154	11.33	74.17%	33.51	99.60%	0.00497	4.88	87.95%	43.28	99.84%	0.00257	2.52	94.09%	48.12
29	0.00146	0.00064	0.00105	98.18%	50.92		0.01177	11.17	73.32%	32.89	99.60%	0.00501	4.76	87.51%	42.50	99.84%	0.00261	2.47	93.85%	47.24
30	0.00150	0.00068	0.00109	98.08%	49.97		0.01201	11.01	72.45%	32.28	99.60%	0.00505	4.63	87.07%	41.71	99.84%	0.00264	2.42	93.61%	46.37
40	0.00214	0.00135	0.00174	96.79%	40.56		0.01519	8.72	63.38%	26.17		0.00662	3.80	82.27%	33.84		0.00366	2.10	90.81%	37.63
50	0.00503	0.00321	0.00412	94.34%	31.47		0.02146	5.21	53.05%	20.27		0.01040	2.52	75.90%	26.24		0.00659	1.60	86.63%	29.19
60	0.01137	0.00672	0.00904	88.70%	23.11		0.03265	3.61	40.75%	14.83		0.01760	1.95	66.36%	19.24		0.01240	1.37	79.16%	21.42
70	0.02270	0.01514	0.01892	78.15%	15.50		0.05413	2.86	26.88%	9.87		0.03167	1.67	52.70%	12.86		0.02393	1.26	66.97%	14.35
80	0.05750	0.04213	0.04981	57.65%	9.04		0.11019	2.21	12.35%	5.65		0.07169	1.44	32.83%	7.45		0.05840	1.17	46.24%	8.34
90	0.16233	0.12810	0.14521	23.77%	4.49		0.26676	1.84	1.94%	2.67		0.18925	1.30	9.65%	3.63		0.16250	1.12	16.72%	4.11
100	1.00000	1.00000	1.00000	1.80%	2.22		1.24632	1.25	0.01%	1.78		1.08923	1.09	0.31%	2.03		1.03504	1.04	0.91%	2.14

K Himmelmann et al (2015)

Target and fitted criteria are as follows:

CP Type (Hagberg) - Tetraplegia

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	76%	69%	6.269
0	20	51%	48%	1.979
0	30	35%	33%	1.145
0	40	19%	23%	7.355
Total				16.7474

CP Type (Hagberg) - Dyskinetic

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	96%	92%	1.610
0	20	86%	85%	0.140
0	30	77%	78%	0.146
0	40	71%	72%	0.063
Total				1.9594

CP Type (SCPE) - Dyskinetic

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	98%	93%	2.295
0	20	88%	87%	0.090
0	30	81%	81%	0.002
0	40	74%	75%	0.283
Total				2.6693

Survival adjustment parameters that best replicate the above criteria yields the following life table:

Age	Male	Female	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
		Regular life table (Sweden, smoothed, 2013-2016)						Adjusted life table					Adjusted life table					Adjusted life table		
						0.00%					0.00%					0.00%				
0	0.00261	0.00215	0.00238	100.00%	81.99	96.40%	0.03827	16.10	100.00%	24.29	99.21%	0.01027	4.32	100.00%	55.40	99.34%	0.00900	3.78	100.00%	58.50
1	0.00019	0.00017	0.00018	99.76%	81.18	96.40%	0.03615	202.23	96.17%	24.23	99.21%	0.00809	45.23	98.97%	54.97	99.34%	0.00681	38.11	99.10%	58.03
2	0.00013	0.00012	0.00012	99.74%	80.20	96.40%	0.03609	297.07	92.70%	24.12	99.21%	0.00803	66.08	98.17%	54.41	99.34%	0.00675	55.59	98.43%	57.42
3	0.00011	0.00010	0.00010	99.73%	79.21	96.40%	0.03608	347.23	89.35%	24.01	99.21%	0.00801	77.10	97.38%	53.85	99.34%	0.00674	64.84	97.76%	56.81
4	0.00010	0.00010	0.00010	99.72%	78.22	96.40%	0.03607	371.91	86.13%	23.89	99.21%	0.00800	82.53	96.60%	53.28	99.34%	0.00673	69.39	97.10%	56.19
5	0.00009	0.00008	0.00008	99.71%	77.22	96.40%	0.03606	425.14	83.02%	23.76	99.21%	0.00799	94.23	95.83%	52.71	99.34%	0.00672	79.21	96.45%	55.57
6	0.00008	0.00008	0.00008	99.70%	76.23	96.40%	0.03605	456.50	80.03%	23.63	99.21%	0.00799	101.12	95.07%	52.13	99.34%	0.00671	84.99	95.80%	54.94
7	0.00007	0.00008	0.00007	99.70%	75.24	96.40%	0.03605	499.51	77.14%	23.50	99.21%	0.00798	110.58	94.31%	51.54	99.34%	0.00671	92.92	95.16%	54.31
8	0.00006	0.00007	0.00007	99.69%	74.24	96.40%	0.03604	542.62	74.36%	23.36	99.21%	0.00797	120.05	93.55%	50.95	99.34%	0.00670	100.87	94.52%	53.67
9	0.00005	0.00007	0.00006	99.68%	73.25	96.40%	0.03604	560.67	71.68%	23.21	99.21%	0.00797	124.02	92.81%	50.36	99.34%	0.00670	104.20	93.89%	53.03
10	0.00006	0.00007	0.00007	99.68%	72.25	96.40%	0.03604	548.28	69.10%	23.06	99.21%	0.00797	121.29	92.07%	49.76	99.34%	0.00670	101.91	93.26%	52.39
11	0.00007	0.00008	0.00007	99.67%	71.26	96.40%	0.03605	481.81	66.61%	22.91	99.21%	0.00798	106.68	91.33%	49.16	99.34%	0.00671	89.66	92.63%	51.74
12	0.00009	0.00009	0.00009	99.66%	70.26	96.40%	0.03606	421.26	64.21%	22.75	99.21%	0.00799	93.38	90.60%	48.55	99.34%	0.00672	78.49	92.01%	51.08
13	0.00011	0.00010	0.00010	99.65%	69.27	96.40%	0.03608	350.43	61.89%	22.58	99.21%	0.00801	77.81	89.88%	47.94	99.34%	0.00674	65.43	91.39%	50.42
14	0.00014	0.00011	0.00012	99.64%	68.27	96.40%	0.03609	297.68	59.66%	22.40	99.21%	0.00803	66.21	89.16%	47.32	99.34%	0.00675	55.71	90.78%	49.76
15	0.00018	0.00012	0.00015	99.63%	67.28	96.40%	0.03612	242.11	57.50%	22.22	99.21%	0.00806	54.00	88.44%	46.70	99.34%	0.00678	45.46	90.16%	49.10
16	0.00023	0.00014	0.00019	99.62%	66.29	96.40%	0.03616	194.94	55.43%	22.04	99.21%	0.00809	43.63	87.73%	46.07	99.34%	0.00682	36.76	89.55%	48.43
17	0.00030	0.00016	0.00023	99.60%	65.31	96.40%	0.03620	157.73	53.42%	21.85	99.21%	0.00814	35.45	87.02%	45.44	99.34%	0.00686	29.90	88.94%	47.76
18	0.00038	0.00017	0.00027	99.57%	64.32	96.40%	0.03624	132.08	51.49%	21.65	99.21%	0.00818	29.81	86.31%	44.81	99.34%	0.00691	25.17	88.33%	47.09
19	0.00045	0.00019	0.00032	99.55%	63.34	96.40%	0.03629	113.08	49.62%	21.44	99.21%	0.00823	25.64	85.61%	44.18	99.34%	0.00695	21.67	87.72%	46.41
20	0.00052	0.00020	0.00036	99.52%	62.36	96.40%	0.03632	100.68	47.82%	21.23	99.21%	0.00827	22.91	84.90%	43.54	99.34%	0.00699	19.38	87.11%	45.73
21	0.00057	0.00022	0.00039	99.48%	61.38	96.40%	0.03636	92.43	46.09%	21.01	99.21%	0.00830	21.10	84.20%	42.90	99.34%	0.00702	17.86	86.50%	45.05
22	0.00062	0.00023	0.00043	99.44%	60.40	96.40%	0.03639	85.31	44.41%	20.79	99.21%	0.00833	19.53	83.50%	42.25	99.34%	0.00706	16.55	85.90%	44.36
23	0.00065	0.00025	0.00045	99.40%	59.43	96.40%	0.03641	80.89	42.79%	20.55	99.21%	0.00835	18.56	82.81%	41.61	99.34%	0.00708	15.73	85.29%	43.68
24	0.00069	0.00026	0.00047	99.35%	58.46	96.40%	0.03643	77.18	41.24%	20.31	99.21%	0.00838	17.74	82.12%	40.95	99.34%	0.00710	15.05	84.68%	42.98
25	0.00072	0.00026	0.00049	99.31%	57.48	96.40%	0.03645	74.13	39.73%	20.06	99.21%	0.00840	17.07	81.43%	40.29	99.34%	0.00712	14.48	84.08%	42.29
26	0.00073	0.00027	0.00050	99.26%	56.51	96.40%	0.03646	72.68	38.29%	19.80	99.21%	0.00841	16.76	80.74%	39.63	99.34%	0.00713	14.22	83.48%	41.59
27	0.00074	0.00028	0.00051	99.21%	55.54	96.40%	0.03647	71.22	36.89%	19.53	99.21%	0.00842	16.44	80.07%	38.96	99.34%	0.00714	13.95	82.89%	40.88
28	0.00074	0.00029	0.00051	99.16%	54.57	96.40%	0.03647	70.87	35.54%	19.25	99.21%	0.00842	16.36	79.39%	38.29	99.34%	0.00715	13.88	82.30%	40.17
29	0.00074	0.00031	0.00052	99.11%	53.60	96.40%	0.03648	69.81	34.25%	18.96	99.21%	0.00843	16.12	78.72%	37.61	99.34%	0.00715	13.69	81.71%	39.46
30	0.00076	0.00032	0.00054	99.05%	52.62	96.40%	0.03650	67.55	33.00%	18.66	99.21%	0.00844	15.63	78.06%	36.92	99.34%	0.00717	13.27	81.12%	38.74
40	0.00097	0.00055	0.00076	98.46%	42.91	96.40%	0.03671	48.47	22.74%	14.96	99.21%	0.00866	11.43	71.67%	29.78	99.34%	0.00739	9.75	75.45%	31.28
50	0.00230	0.00157	0.00193	97.33%	33.34		0.04820	24.93	14.91%	10.26		0.01210	6.26	64.82%	22.37		0.01046	5.41	69.23%	23.63
60	0.00640	0.00435	0.00537	94.29%	24.23		0.09793	18.22	6.57%	7.21		0.02572	4.79	53.11%	16.14		0.02244	4.18	58.28%	17.06
70	0.01736	0.01166	0.01451	86.32%	15.94		0.15522	10.70	1.82%	4.63		0.04544	3.13	37.85%	10.55		0.04046	2.79	43.27%	11.16
80	0.05367	0.03705	0.04536	67.05%	8.87		0.29817	6.57	0.18%	2.40		0.10093	2.22	19.30%	5.77		0.09198	2.03	23.64%	6.12
90	0.17937	0.13966	0.15951	27.06%	4.07		0.71065	4.46	0.00%	0.86		0.28066	1.76	3.08%	2.50		0.26114	1.64	4.41%	2.67
100	0.42540	0.37565	0.40053	1.33%	1.79		1.65340	4.13	0.00%	0.43		0.67592	1.69	0.01%	1.06		0.63155	1.58	0.02%	1.14

K   Himmelmann et al (2015)

Target and fitted criteria are as follows:

CP Type (SCPE) - Bilateral spastic cerebral palsy

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	98%	96%	0.238
0	20	93%	93%	0.005
0	30	90%	90%	0.004
0	40	86%	86%	0.019
Total				0.2662

Severe motor impairment

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	91%	89%	0.396
0	20	80%	80%	0.029
0	30	71%	71%	0.008
0	40	62%	63%	0.123
Total				0.5553

Severe mental retardation

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	88%	88%	0.010
0	20	76%	77%	0.170
0	30	69%	68%	0.238
0	40	59%	59%	0.032
Total				0.4508

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Male	Female	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
		Regular life table (Sweden, smoothed, 2013-2016)				Adjusted life table					Adjusted life table					Adjusted life table				
						0.00%					0.00%					0.09%				
0	0.00261	0.00215	0.00238	100.00%	81.99	99.67%	0.00563	2.37	100.00%	68.55	98.88%	0.01350	5.68	100.00%	48.74	98.72%	0.01511	6.36	100.00%	46.31
1	0.00019	0.00017	0.00018	99.76%	81.18	99.67%	0.00344	19.24	99.44%	67.93	98.88%	0.01133	63.37	98.65%	48.40	98.72%	0.01293	72.35	98.49%	46.01
2	0.00013	0.00012	0.00012	99.74%	80.20	99.67%	0.00338	27.83	99.10%	67.17	98.88%	0.01127	92.77	97.53%	47.95	98.73%	0.01286	105.87	97.21%	45.61
3	0.00011	0.00010	0.00010	99.73%	79.21	99.67%	0.00336	32.38	98.76%	66.39	98.88%	0.01125	108.32	96.43%	47.49	98.73%	0.01283	123.53	95.96%	45.20
4	0.00010	0.00010	0.00010	99.72%	78.22	99.67%	0.00336	34.61	98.43%	65.61	98.88%	0.01125	115.97	95.35%	47.02	98.73%	0.01282	132.14	94.73%	44.78
5	0.00009	0.00008	0.00008	99.71%	77.22	99.67%	0.00334	39.44	98.10%	64.83	98.88%	0.01124	132.47	94.28%	46.55	98.73%	0.01279	150.82	93.52%	44.35
6	0.00008	0.00008	0.00008	99.70%	76.23	99.67%	0.00334	42.28	97.77%	64.05	98.88%	0.01123	142.19	93.22%	46.08	98.73%	0.01277	161.75	92.32%	43.92
7	0.00007	0.00008	0.00007	99.70%	75.24	99.67%	0.00333	46.18	97.44%	63.26	98.88%	0.01122	155.52	92.17%	45.59	98.73%	0.01276	176.77	91.14%	43.48
8	0.00006	0.00007	0.00007	99.69%	74.24	99.67%	0.00333	50.08	97.12%	62.47	98.88%	0.01122	168.88	91.13%	45.11	98.73%	0.01274	191.79	89.98%	43.04
9	0.00005	0.00007	0.00006	99.68%	73.25	99.67%	0.00332	51.72	96.79%	61.68	98.88%	0.01121	174.47	90.11%	44.61	98.73%	0.01272	197.96	88.83%	42.59
10	0.00006	0.00007	0.00007	99.68%	72.25	99.67%	0.00333	50.60	96.47%	60.88	98.88%	0.01122	170.63	89.10%	44.11	98.74%	0.01271	193.42	87.70%	42.13
11	0.00007	0.00008	0.00007	99.67%	71.26	99.67%	0.00333	44.57	96.15%	60.09	98.88%	0.01123	150.03	88.10%	43.61	98.74%	0.01271	169.89	86.59%	41.67
12	0.00009	0.00009	0.00009	99.66%	70.26	99.67%	0.00335	39.09	95.83%	59.28	98.88%	0.01124	131.26	87.11%	43.10	98.74%	0.01271	148.49	85.49%	41.20
13	0.00011	0.00010	0.00010	99.65%	69.27	99.67%	0.00336	32.67	95.51%	58.48	98.88%	0.01125	109.31	86.13%	42.58	98.74%	0.01272	123.52	84.40%	40.72
14	0.00014	0.00011	0.00012	99.64%	68.27	99.67%	0.00338	27.89	95.19%	57.68	98.88%	0.01127	92.96	85.17%	42.06	98.74%	0.01272	104.93	83.33%	40.24
15	0.00018	0.00012	0.00015	99.63%	67.28	99.67%	0.00341	22.85	94.87%	56.87	98.88%	0.01130	75.73	84.21%	41.53	98.74%	0.01274	85.38	82.27%	39.75
16	0.00023	0.00014	0.00019	99.62%	66.29	99.67%	0.00345	18.58	94.54%	56.06	98.88%	0.01133	61.11	83.25%	41.00	98.74%	0.01276	68.81	81.22%	39.26
17	0.00030	0.00016	0.00023	99.60%	65.31	99.67%	0.00349	15.20	94.22%	55.26	98.88%	0.01138	49.58	82.31%	40.47	98.74%	0.01279	55.75	80.18%	38.76
18	0.00038	0.00017	0.00027	99.57%	64.32	99.67%	0.00353	12.88	93.89%	54.45	98.88%	0.01142	41.63	81.37%	39.93	98.74%	0.01283	46.75	79.16%	38.26
19	0.00045	0.00019	0.00032	99.55%	63.34	99.67%	0.00358	11.16	93.56%	53.64	98.88%	0.01147	35.74	80.44%	39.38	98.75%	0.01286	40.08	78.14%	37.75
20	0.00052	0.00020	0.00036	99.52%	62.36	99.67%	0.00362	10.03	93.22%	52.83	98.88%	0.01151	31.90	79.52%	38.83	98.75%	0.01289	35.72	77.14%	37.23
21	0.00057	0.00022	0.00039	99.48%	61.38	99.67%	0.00365	9.29	92.89%	52.02	98.88%	0.01154	29.34	78.61%	38.28	98.75%	0.01291	32.82	76.14%	36.71
22	0.00062	0.00023	0.00043	99.44%	60.40	99.67%	0.00369	8.64	92.55%	51.21	98.88%	0.01157	27.13	77.70%	37.72	98.75%	0.01293	30.31	75.16%	36.18
23	0.00065	0.00025	0.00045	99.40%	59.43	99.67%	0.00371	8.24	92.21%	50.40	98.88%	0.01160	25.76	76.80%	37.16	98.75%	0.01294	28.75	74.19%	35.65
24	0.00069	0.00026	0.00047	99.35%	58.46	99.67%	0.00373	7.90	91.86%	49.58	98.88%	0.01162	24.61	75.91%	36.59	98.75%	0.01295	27.44	73.23%	35.11
25	0.00072	0.00026	0.00049	99.31%	57.48	99.67%	0.00375	7.63	91.52%	48.77	98.88%	0.01164	23.67	75.03%	36.01	98.75%	0.01296	26.36	72.28%	34.57
26	0.00073	0.00027	0.00050	99.26%	56.51	99.67%	0.00376	7.50	91.18%	47.95	98.88%	0.01165	23.22	74.15%	35.43	98.75%	0.01296	25.83	71.34%	34.01
27	0.00074	0.00028	0.00051	99.21%	55.54	99.67%	0.00377	7.36	90.83%	47.13	98.88%	0.01166	22.77	73.29%	34.84	98.75%	0.01296	25.30	70.42%	33.45
28	0.00074	0.00029	0.00051	99.16%	54.57	99.67%	0.00377	7.33	90.49%	46.30	98.88%	0.01166	22.66	72.44%	34.25	98.76%	0.01295	25.16	69.51%	32.89
29	0.00074	0.00031	0.00052	99.11%	53.60	99.67%	0.00378	7.24	90.15%	45.48	98.88%	0.01167	22.33	71.59%	33.64	98.76%	0.01294	24.77	68.61%	32.31
30	0.00076	0.00032	0.00054	99.05%	52.62	99.67%	0.00380	7.03	89.81%	44.65	98.88%	0.01169	21.63	70.76%	33.03	98.76%	0.01295	23.97	67.72%	31.73
40	0.00097	0.00055	0.00076	98.46%	42.91	99.67%	0.00402	5.30	86.40%	36.21	98.88%	0.01190	15.71	62.87%	26.56	98.77%	0.01305	17.23	59.44%	25.47
50	0.00230	0.00157	0.00193	97.33%	33.34		0.00613	3.17	82.35%	27.73		0.01627	8.42	54.82%	19.71		0.01775	9.18	51.15%	18.76
60	0.00640	0.00435	0.00537	94.29%	24.23		0.01376	2.56	74.47%	20.09		0.03406	6.34	41.89%	14.18		0.03762	7.00	37.95%	13.47
70	0.01736	0.01166	0.01451	86.32%	15.94		0.02726	1.88	61.54%	13.18		0.05813	4.01	26.90%	9.25		0.06353	4.38	23.30%	8.78
80	0.05367	0.03705	0.04536	67.05%	8.87		0.06827	1.51	40.28%	7.27		0.12372	2.73	11.48%	5.02		0.13343	2.94	9.21%	4.76
90	0.17937	0.13966	0.15951	27.06%	4.07		0.20946	1.31	11.21%	3.25		0.33034	2.07	1.22%	2.13		0.35150	2.20	0.82%	2.00
100	0.42540	0.37565	0.40053	1.33%	1.79		0.51407	1.28	0.18%	1.39		0.78887	1.97	0.00%	0.91		0.83697	2.09	0.00%	0.86

Target and fitted criteria are as follows:

Epilepsy

Probabilities of survival

From	To	Target	Fitted	Deviation
0	10	92%	90%	0.298
0	20	81%	82%	0.273
0	30	76%	76%	0.012
0	40	70%	70%	0.002
Total				0.5851

Survival adjustment parameters that best replicate the above criteria yields the f

Age	Regular life table (Sweden, smoothed, 2013-2016)					Adjusted life table				
	Male	Female	Mortality	Probability of survival	Life expectancy	Survival adjustment	Mortality	Implied mortality ratio	Probability of survival	Life expectancy
						0.94%				
0	0.00261	0.00215	0.00238	100.00%	81.99	98.98%	0.01255	5.28	100.00%	53.99
1	0.00019	0.00017	0.00018	99.76%	81.18	98.99%	0.01028	57.52	98.74%	53.67
2	0.00013	0.00012	0.00012	99.74%	80.20	99.00%	0.01013	83.38	97.73%	53.23
3	0.00011	0.00010	0.00010	99.73%	79.21	99.01%	0.01002	96.43	96.74%	52.77
4	0.00010	0.00010	0.00010	99.72%	78.22	99.02%	0.00992	102.27	95.77%	52.30
5	0.00009	0.00008	0.00008	99.71%	77.22	99.03%	0.00981	115.72	94.82%	51.81
6	0.00008	0.00008	0.00008	99.70%	76.23	99.04%	0.00972	123.04	93.89%	51.32
7	0.00007	0.00008	0.00007	99.70%	75.24	99.05%	0.00962	133.31	92.98%	50.82
8	0.00006	0.00007	0.00007	99.69%	74.24	99.05%	0.00952	143.40	92.08%	50.31
9	0.00005	0.00007	0.00006	99.68%	73.25	99.06%	0.00943	146.76	91.21%	49.79
10	0.00006	0.00007	0.00007	99.68%	72.25	99.07%	0.00935	142.19	90.34%	49.26
11	0.00007	0.00008	0.00007	99.67%	71.26	99.08%	0.00927	123.88	89.50%	48.72
12	0.00009	0.00009	0.00009	99.66%	70.26	99.09%	0.00919	107.39	88.67%	48.17
13	0.00011	0.00010	0.00010	99.65%	69.27	99.10%	0.00912	88.63	87.86%	47.61
14	0.00014	0.00011	0.00012	99.64%	68.27	99.11%	0.00906	74.70	87.05%	47.05
15	0.00018	0.00012	0.00015	99.63%	67.28	99.11%	0.00900	60.33	86.27%	46.47
16	0.00023	0.00014	0.00019	99.62%	66.29	99.12%	0.00895	48.28	85.49%	45.89
17	0.00030	0.00016	0.00023	99.60%	65.31	99.13%	0.00892	38.85	84.72%	45.30
18	0.00038	0.00017	0.00027	99.57%	64.32	99.14%	0.00888	32.36	83.97%	44.70
19	0.00045	0.00019	0.00032	99.55%	63.34	99.15%	0.00884	27.56	83.22%	44.10
20	0.00052	0.00020	0.00036	99.52%	62.36	99.16%	0.00880	24.40	82.49%	43.49
21	0.00057	0.00022	0.00039	99.48%	61.38	99.16%	0.00876	22.26	81.76%	42.87
22	0.00062	0.00023	0.00043	99.44%	60.40	99.17%	0.00871	20.42	81.04%	42.24
23	0.00065	0.00025	0.00045	99.40%	59.43	99.18%	0.00866	19.23	80.34%	41.61
24	0.00069	0.00026	0.00047	99.35%	58.46	99.19%	0.00860	18.22	79.64%	40.97
25	0.00072	0.00026	0.00049	99.31%	57.48	99.19%	0.00854	17.37	78.96%	40.32
26	0.00073	0.00027	0.00050	99.26%	56.51	99.20%	0.00848	16.90	78.28%	39.66
27	0.00074	0.00028	0.00051	99.21%	55.54	99.21%	0.00841	16.43	77.62%	39.00
28	0.00074	0.00029	0.00051	99.16%	54.57	99.22%	0.00834	16.21	76.97%	38.32
29	0.00074	0.00031	0.00052	99.11%	53.60	99.22%	0.00828	15.83	76.33%	37.64
30	0.00076	0.00032	0.00054	99.05%	52.62	99.23%	0.00822	15.21	75.69%	36.95
40	0.00097	0.00055	0.00076	98.46%	42.91	99.30%	0.00774	10.22	69.88%	29.62
50	0.00230	0.00157	0.00193	97.33%	33.34		0.01092	5.65	63.86%	21.92
60	0.00640	0.00435	0.00537	94.29%	24.23		0.02710	5.04	51.82%	15.78
70	0.01736	0.01166	0.01451	86.32%	15.94		0.04754	3.28	36.30%	10.31
80	0.05367	0.03705	0.04536	67.05%	8.87		0.10470	2.31	17.98%	5.63
90	0.17937	0.13966	0.15951	27.06%	4.07		0.28888	1.81	2.69%	2.43
100	0.42540	0.37565	0.40053	1.33%	1.79		0.69462	1.73	0.01%	1.03