

Supplementary Table 1. Weighted prevalence rates of high psychological distress by impairment types, with and without comorbid psychosocial impairment

Types	with psychosocial impairment	without psychosocial impairment
Sensory/speech impairments	0.64, 0.59-0.69	0.07, 0.06-0.09
Intellectual impairments	0.73, 0.68-0.77	0.39, 0.29-0.48
Physical restrictions	0.74, 0.71-0.77	0.24, 0.22-0.25
Traumatic head injuries, stroke or acquired brain injury	0.63, 0.56-0.70	0.07, 0-0.21

Supplementary Table 2.1. Odds ratios and 95% confidence intervals of predisposing factors in relation to high psychological distress by different impairment types without excluding comorbid psychosocial impairment

Variables*	All	Sensory	Intellectual	Physical	Psychosocial	Head injury
Predisposing factors						
Age (years)						
<=44						
45-64	0.79, 0.64-0.98	1.12, 0.68-1.83	0.75, 0.37-1.52	0.78, 0.6-1.01	0.89, 0.58-1.36	0.71, 0.27-1.87
65-84	0.43, 0.32-0.56	0.64, 0.35-1.15	0.45, 0.14-1.42	0.4, 0.29-0.56	0.71, 0.38-1.34	0.14, 0.04-0.43
>=85	0.31, 0.20-0.49	0.38, 0.18-0.78	0.04, 0.01-0.27	0.26, 0.16-0.44	0.47, 0.16-1.35	0.05, 0.01-0.26
Country of birth						
Australia						
Main English speaking	1.17, 0.95-1.45	1.21, 0.84-1.75	1.78, 0.80-3.99	1.20, 0.94-1.53	1.38, 0.83-2.29	1.45, 0.61-3.43
Non-English speaking	2.24, 1.86-2.69	2.27, 1.56-3.31	3.32, 1.2-9.23	2.36, 1.91-2.91	1.77, 1.02-3.08	3.47, 1.50-8.01
Marital Status						
Married						
Separated	1.00, 0.72-1.38	1.63, 0.89-3.00	2.27, 0.46-11.24	0.93, 0.64-1.33	1.20, 0.62-2.33	0.78, 0.18-3.38
Divorced	0.74, 0.60-0.92	0.87, 0.56-1.36	0.80, 0.31-2.02	0.75, 0.59-0.95	0.77, 0.47-1.27	0.93, 0.39-2.24
Widowed	0.64, 0.50-0.82	0.71, 0.47-1.09	1.41, 0.47-4.21	0.67, 0.51-0.88	0.62, 0.33-1.15	0.66, 0.26-1.70
Never married	0.77, 0.63-0.94	0.81, 0.52-1.24	2.07, 1.13-3.82	0.67, 0.52-0.86	0.85, 0.56-1.30	0.62, 0.29-1.31
Sex						
Male						
Female	0.96, 0.83-1.12	0.94, 0.69-1.26	1.25, 0.73-2.14	0.84, 0.70-1.00	1.08, 0.77-1.50	1.15, 0.62-2.13
Highest educational attainment						
Bachelor's degree or higher						
Diploma or certificate	1.38, 1.13-1.7	1.36, 0.92-2.02	3.23, 1.22-8.56	1.25, 0.98-1.59	1.65, 1.04-2.61	1.61, 0.64-4.07
High school	1.47, 1.21-1.79	1.33, 0.92-1.92	2.56, 1.02-6.44	1.46, 1.17-1.83	1.59, 1.05-2.42	1.54, 0.62-3.83
Not finish high school	2.06, 1.61-2.64	1.93, 1.24-3.02	6.67, 2.16-20.63	1.81, 1.37-2.38	3.57, 1.88-6.76	4.67, 1.57-13.94
Housing tenure						
Outright owner						
Owner with a mortgage	1.12, 0.92-1.36	1.17, 0.77-1.77	1.78, 0.63-5.00	0.97, 0.78-1.21	1.28, 0.80-2.03	0.9, 0.39-2.05
Renter	1.26, 1.05-1.51	1.47, 1.03-2.09	0.81, 0.34-1.94	1.25, 1.02-1.53	1.34, 0.90-1.99	1.23, 0.62-2.44
Rurality of residence						

Major cities						
	0.78,	0.82,	0.97,	0.83,	0.85,	1.26,
Inner regional	0.66-0.92	0.60-1.13	0.55-1.71	0.69-1.00	0.59-1.22	0.66-2.4
	1.00,	1.06,	0.49,	1.08,	0.97,	1.31,
Outer regional	0.83-1.22	0.74-1.54	0.25-0.97	0.86-1.34	0.63-1.51	0.61-2.82
Government concession cards						
No						
	1.35,	1.54,	0.74,	1.31,	1.21,	2.87,
Yes	1.14-1.61	1.03-2.30	0.38-1.45	1.06-1.60	0.81-1.80	1.20-6.86

\*Unclassified categories were not presented.

Supplementary Table 2.2 Odds ratios and 95% confidence intervals of enabling factors in relation to high psychological distress by different impairment types without excluding comorbid psychosocial impairment

Variables*	All	Sensory	Intellectual	Physical	Psychosocial	Head injury
Communication limitation						
No						
Yes	1.54, 1.27-1.89	1.32, 0.99-1.75	2.56, 1.33-5.00	1.37, 1.08-1.75	1.85, 1.18-2.94	1.56, 0.82-2.94
Whether has avoided situations due to disability in the last 12 months						
No						
Yes	1.23, 1.05-1.44	1.30, 0.95-1.77	1.62, 0.95-2.78	1.23, 1.03-1.47	1.50, 1.08-2.08	1.84, 1.04-3.26
Feelings of safety home alone during the day						
Safe						
Unsafe	1.42, 1.05-1.92	0.52, 0.28-0.97	1.85, 0.77-4.50	1.36, 0.96-1.94	2.67, 1.43-4.98	0.79, 0.25-2.47
Feelings of safety home alone after dark						
Safe						
Unsafe	1.61, 1.31-1.99	2.09, 1.32-3.30	0.90, 0.45-1.80	1.74, 1.36-2.21	1.33, 0.90-1.98	1.53, 0.62-3.77
Whether leaves home as often as would like						
As often as would like						
Not as often as would like	1.78, 1.53-2.07	1.63, 1.22-2.20	1.47, 0.87-2.49	1.84, 1.55-2.17	2.01, 1.45-2.79	1.89, 1.05-3.4
Whether support is available in a time of crisis from someone not living in the same household						
No						
Yes	0.75, 0.59-0.95	0.79, 0.49-1.27	0.83, 0.33-2.14	0.77, 0.59-1.01	0.71, 0.41-1.24	1.51, 0.58-3.91
Whether attended selected cultural venues and events in last 12 months						
No						
Yes	0.74, 0.64-0.85	0.67, 0.51-0.89	0.40, 0.24-0.67	0.70, 0.60-0.83	0.85, 0.62-1.17	0.63, 0.36-1.13

Supplementary Table 2.3 Odds ratios and 95% confidence intervals of health-need factors in relation to high psychological distress by different impairment types without excluding comorbid psychosocial impairment

Variables*	All	Sensory	Intellectual	Physical	Psychosocial	Head injury
Saw GP in last 12 months						
No need						
Delayed due to cost	1.78, 1.09-2.91	1.21, 0.50-2.96	1.51, 0.29-7.72	1.92, 1.01-3.64	1.08, 0.38-3.01	1.10, 0.10-12.43
Delayed due to other reasons	1.60, 1.06-2.41	0.81, 0.41-1.63	1.25, 0.33-4.76	1.78, 1.03-3.08	0.99, 0.41-2.38	1.10, 0.19-6.46
When needed	1.13, 0.76-1.69	0.52, 0.27-1.02	1.03, 0.28-3.87	1.31, 0.77-2.25	0.67, 0.29-1.57	0.57, 0.10-3.22
Went to hospital in last 12 months						
No need						
Delayed due to cost	4.22, 1.22-14.59	4.22, 1.22-14.59	1.21, 0.06-23.98	3.89, 0.96-15.66	1.65, 0.41-6.63	8.45, 0.27-267.92
Delayed due to other reasons	1.21, 0.76-1.92	1.21, 0.76-1.92	1.54, 0.44-5.34	1.23, 0.71-2.15	1.41, 0.59-3.38	2.70, 0.34-21.24
When needed	1.01, 0.86-1.18	1.01, 0.86-1.18	1.14, 0.61-2.11	0.95, 0.79-1.13	1.31, 0.92-1.88	1.23, 0.70-2.17
Saw 3 or more health professionals for the same condition in last 12 months						
No						
Yes	1.10, 0.95-1.28	1.04, 0.78-1.40	1.63, 0.95-2.80	1.10, 0.93-1.30	0.97, 0.71-1.34	1.22, 0.68-2.21
Saw a dental professional in last 12 months						
No need						
Delayed due to cost	1.32, 1.09-1.60	24.27, 1.24-476.1	1.23, 0.63-2.41	1.31, 1.04-1.64	1.17, 0.78-1.75	0.90, 0.40-2.03
Delayed due to other reasons	0.90, 0.70-1.16	2.23, 0.65-7.58	0.29, 0.10-0.79	0.89, 0.66-1.19	0.76, 0.45-1.29	0.96, 0.36-2.58
When needed	0.93, 0.79-1.08	1.05, 0.78-1.40	0.40, 0.22-0.73	1.05, 0.88-1.26	0.82, 0.58-1.17	1.39, 0.73-2.64
Whether needs assistance or has difficulty with self-care						
No						
Yes	1.24, 1.05-1.46	1.13, 0.79-1.61	2.06, 1.04-4.09	1.2, 1.00-1.43	1.28, 0.88-1.86	1.64, 0.85-3.15
Whether needs assistance or has difficulty with cognitive or emotional tasks						
No						
Yes	3.00, 2.56-3.52	2.82, 2.09-3.80	3.77, 2.00-7.10	2.85, 2.37-3.42	2.30, 1.60-3.32	1.92, 1.04-3.53
Whether needs assistance to cope with feelings or emotions						
No						
Yes	1.85, 1.46-2.35	1.59, 0.99-2.55	2.80, 1.47-5.34	2.22, 1.64-3.00	1.72, 1.19-2.50	2.00, 0.79-5.12
Whether needs assistance or has difficulty with household chores						
No						
Yes	1.42, 1.0-1.68	1.84, 1.30-2.60	0.41, 0.21-0.81	1.42, 1.19-1.69	0.98, 0.67-1.44	0.66, 0.32-1.33
Number of impairment	1.13, 1.08-1.18	1.18, 1.09-1.27	1.20, 1.03-1.39	1.13, 1.07-1.18	1.16, 1.07-1.26	1.23, 1.10-1.37

Nervous or emotional condition						
No						
Yes	1.67, 1.33-2.08	1.77, 1.13-2.78	2.04, 1.12-3.71	1.54, 1.17-2.03	2.31, 1.54-3.47	4.39, 1.64-11.77
Shortness of breath or difficulty breathing						
No						
Yes	1.28, 1.09-1.50	1.25, 0.92-1.69	2.37, 1.31-4.30	1.31, 1.11-1.56	1.15, 0.82-1.62	3.06, 1.65-5.67
Cancer						
No						
Yes	1.21, 0.89-1.65	1.04, 0.55-1.99	1.06, 0.28-4.02	1.17, 0.84-1.62	0.56, 0.25-1.26	0.26, 0.09-0.82
Endocrine condition						
No						
Yes	0.97, 0.83-1.14	1.21, 0.92-1.61	0.93, 0.48-1.82	0.91, 0.77-1.09	0.67, 0.47-0.95	0.64, 0.33-1.22
Psychological condition						
No						
Yes	1.98, 1.61-2.44	1.46, 0.97-2.21	1.55, 0.74-3.28	2.05, 1.59-2.65	1.88, 1.12-3.16	0.58, 0.22-1.48
Sight condition						
No						
Yes	0.71, 0.53-0.96	0.77, 0.54-1.10	1.03, 0.35-3.09	0.85, 0.60-1.21	0.90, 0.47-1.73	1.15, 0.41-3.23
Cardiovascular condition						
No						
Yes	1.11, 0.96-1.29	1.11, 0.83-1.49	0.57, 0.30-1.08	1.07, 0.91-1.27	1.20, 0.84-1.71	1.84, 0.91-3.73
Musculoskeletal condition						
No						
Yes	0.99, 0.85-1.15	0.96, 0.73-1.27	1.33, 0.79-2.24	0.93, 0.77-1.12	0.98, 0.69-1.38	0.67, 0.34-1.30
Symptoms and signs						
No						
Yes	1.05, 0.83-1.33	1.35, 0.89-2.04	0.96, 0.45-2.04	1.09, 0.85-1.41	0.77, 0.45-1.30	0.49, 0.22-1.13

Supplementary Table 3.1. Odds ratios and 95% confidence intervals of predisposing factors in relation to high psychological distress by different impairment types, after excluding comorbid psychosocial impairment\*

Variables^	Sensory	Intellectual	Physical	Head injury
Age (years)				
<=44				
45-64	0.99, 0.48-2.01	0.43, 0.12-1.51	0.71, 0.54-0.95	0.15, 0-7.11
65-84	0.55, 0.21-1.46	0.13, 0.01-1.70	0.35, 0.23-0.52	0, 0-0.21
>=85	0.38, 0.13-1.12	0, 0-1.49	0.24, 0.13-0.44	0, 0-0.46
Country of birth				
Australia				
Main English speaking	1.12, 0.71-1.76	1.23, 0.21-7.21	1.15, 0.89-1.47	1.42, 0.07-28.77
Non-English speaking	2.33, 1.48-3.66	7.89, 0.73-85.27	2.41, 1.89-3.08	6.91, 0.48-99.79
Marital Status				
Married				
Separated	1.87, 0.95-3.69	9.88, 0.11-inf	0.82, 0.52-1.29	0.91, 0.02-38.08
Divorced	0.78, 0.42-1.43	0.67, 0.11-4.01	0.74, 0.57-0.97	0.81, 0.03-25.73
Widowed	0.60, 0.34-1.04	2.79, 0.14-54.00	0.66, 0.46-0.94	0.27, 0.01-7.43
Never married	0.59, 0.33-1.04	3.98, 1.49-10.65	0.62, 0.45-0.84	0.13, 0-6.49
Sex				
Male				
Female	1.00, 0.69-1.44	0.67, 0.11-4.23	0.77, 0.61-0.98	2.07, 0.21-20.65
Highest educational attainment				
Bachelor's degree or higher				
Diploma or certificate	1.33, 0.81-2.17	4.70, 0.66-33.31	1.27, 1.01-1.60	0.23, 0.01-4.75
High school	1.35, 0.81-2.25	2.35, 0.39-14.26	1.51, 1.26-1.82	0.60, 0.04-9.04
Not finish high school	1.87, 1.11-3.16	4.57, 0.20-inf	1.75, 1.30-2.37	5.56, 0.12-inf
Housing tenure				
Outright owner				
Owner with a mortgage	1.01, 0.60-1.71	0.78, 0.05-11.19	0.95, 0.74-1.23	0.03, 0-2.75
Renter	1.43, 0.92-2.23	0.25, 0.03-2.27	1.22, 0.96-1.56	1.27, 0.18-8.80
Rurality of residence				
Major cities				
Inner regional	0.77, 0.49-1.20	0.41, 0.12-1.47	0.80, 0.62-1.02	1.99, 0.19-21.21
Outer regional	0.95, 0.64-1.40	0.64, 0.08-4.84	1.06, 0.86-1.32	3.60, 0.15-85.44
Government concession cards				
No				
Yes	1.47, 0.82-2.66	0.61, 0.09-4.31	1.31, 1.04-1.66	12.35, 0.32-inf

\*Point and upper limit risk estimate values greater than 100 were replaced by "inf" sign.

^Unclassified categories were not presented

Supplementary Table 3.2. Odds ratios and 95% confidence intervals of enabling factors in relation to high psychological distress by different impairment types, after excluding comorbid psychosocial impairment\*

Variables^	Sensory	Intellectual	Physical	Head injury
Communication limitation				
No				
Yes	1.39, 0.95-2.04	2.70, 0.58-12.50	1.39, 1.06-1.82	1.72, 0.27-11.11
Whether has avoided situations due to disability in the last 12 months				
No				
Yes	1.40, 0.96-2.05	1.45, 0.31-6.71	1.17, 0.93-1.47	6.00, 0.45-80.12
Feelings of safety home alone during the day				
Safe				
Unsafe	0.36, 0.16-0.80	1.24, 0.05-30.5	1.16, 0.72-1.85	0.34, 0-76.98
Feelings of safety home alone after dark				
Safe				
Unsafe	2.31, 1.37-3.91	3.09, 0.47-20.49	1.85, 1.39-2.47	35.34, 0.73-inf
Whether leaves home as often as would like				
As often as would like				
Not as often as would like	1.51, 1.05-2.16	1.70, 0.41-7.03	1.74, 1.45-2.09	1.55, 0.13-18.74
Whether support is available in a time of crisis from someone not living in the same household				
No				
Yes	0.59, 0.35-0.98	0.52, 0.09-2.91	0.78, 0.59-1.02	6.77, 0.13-inf
Whether attended selected cultural venues and events in last 12 months				
No				
Yes	0.63, 0.44-0.90	0.38, 0.11-1.36	0.71, 0.59-0.85	0.33, 0.03-4.29

\*Point and upper limit risk estimate values greater than 100 were replaced by "inf" sign.

^Unclassified categories were not presented



Supplementary Table 3.3. Odds ratios and 95% confidence intervals of health-need factors in relation to high psychological distress by different impairment types, after excluding comorbid psychosocial impairment\*

Variables^	Sensory	Intellectual	Physical	Head injury
Saw GP in last 12 months				
No need				
Delayed due to cost	0.82, 0.24-2.75	2.21, 0.09-52.31	2.39, 1.12-5.11	15.15, 0-inf
Delayed due to other reasons	0.75, 0.34-1.67	1.01, 0.07-13.76	2.11, 1.08-4.11	0.06, 0-inf
When needed	0.46, 0.22-0.97	0.81, 0.11-5.94	1.57, 0.80-3.09	0.10, 0-inf
Went to hospital in last 12 months				
No need				
Delayed due to cost	inf, 0-inf	inf, 0-inf	6.17, 1.05-36.32	inf, 0-inf
Delayed due to other reasons	2.64, 0.14-48.37	1.46, 0.08-28.13	1.09, 0.51-2.33	4.18, 0-inf
When needed	0.95, 0.73-1.25	0.94, 0.27-3.24	0.93, 0.75-1.15	2.58, 0.41-16.18
Saw 3 or more health professionals for the same condition in last 12 months				
No				
Yes	1.10, 0.76-1.58	2.88, 0.80-10.36	1.12, 0.95-1.32	0.61, 0.06-5.88
Saw a dental professional in last 12 months				
No need				
Delayed due to cost	1.11, 0.67-1.85	1.31, 0.23-7.47	1.40, 1.11-1.78	0.38, 0.01-15.47
Delayed due to other reasons	0.88, 0.50-1.57	0.50, 0.07-3.51	0.96, 0.72-1.30	0.29, 0.01-16.09
When needed	1.06, 0.70-1.61	0.29, 0.09-0.96	1.09, 0.91-1.31	3.91, 0.31-49.40
Whether needs assistance or has difficulty with self-care				
No				
Yes	1.03, 0.65-1.64	2.07, 0.48-8.99	1.18, 0.96-1.45	0.82, 0.08-8.05
Whether needs assistance or has difficulty with cognitive or emotional tasks				
No				
Yes	3.29, 2.07-5.22	2.71, 0.50-14.56	3.13, 2.45-3.99	3.80, 0.59-24.42
Whether needs assistance to cope with feelings or emotions				
No				
Yes	0.75, 0.35-1.63	0.04, 0.01-0.35	0.46, 0.30-0.70	0.77, 0.01-95.85
Whether needs assistance or has difficulty with household chores				
No				
Yes	2.02, 1.38-2.98	0.43, 0.08-2.31	1.53, 1.22-1.93	2.68, 0.23-31.99
Number of impairment	1.13, 1.03-1.24	1.34, 0.79-2.27	1.11, 1.04-1.18	0.98, 0.54-1.80
Nervous or emotional condition				
No				
Yes	1.31, 0.70-2.46	5.60, 1.15-27.29	1.27, 0.88-1.84	8.53, 0.06-inf
Shortness of breath or difficulty breathing				
No				

	Yes	1.31, 0.84-2.04	2.50, 0.52-11.98	1.41, 1.17-1.69	5.04, 0.48-53.22
Cancer					
	No				
	Yes	1.38, 0.75-2.53	31.36, 0.37-inf	1.37, 0.90-2.07	0.16, 0-15.34
Endocrine condition					
	No				
	Yes	1.48, 1.04-2.10	1.06, 0.16-6.80	1.01, 0.86-1.17	2.09, 0.29-14.98
Psychological condition					
	No				
	Yes	1.73, 0.99-3.00	10.69, 0.83-inf	2.11, 1.57-2.85	0.54, 0.02-11.74
Sight condition					
	No				
	Yes	0.68, 0.41-1.12	0.26, 0-16.09	0.88, 0.59-1.30	0.78, 0.01-98.36
Cardiovascular condition					
	No				
	Yes	1.17, 0.82-1.66	0.37, 0.07-1.90	1.08, 0.86-1.34	2.32, 0.18-30.74
Musculoskeletal condition					
	No				
	Yes	1.07, 0.72-1.58	1.88, 0.49-7.22	0.97, 0.79-1.20	1.48, 0.07-33.12
Symptoms and signs					
	No				
	Yes	1.41, 0.91-2.21	1.76, 0.22-14.00	1.20, 0.96-1.50	0.04, 0-1.61

\*Point and upper limit risk estimate values greater than 100 were replaced by "inf" sign.

^Unclassified categories were not presented