

Supplemental Material S1. Ratings of directional pairs by participant.

Directional Pairs			Participants													
From	To	1	2	3	4	5	6	7	8	9	10	11	Med	M	SD	
Lesion Size and Site	Aphasia Severity	10	10	10	9	9	9	10	7	9	10	8	9	9.18	0.98	
Motivation	Participation	5	6	10	9	10	9	10	7	9	8	10	9	8.45	1.75	
Depression	Motivation	5	9	10	8	6	10	10	8	6	8	10	8	8.18	1.83	
Loneliness	Depression	7	7	10	10	7	8	10	8	6	7	10	8	8.18	1.54	
Depression	Fatigue	5	9	9	9	8	7	8	7	9	7	10	8	8.00	1.41	
Depression	Participation	7	7	10	10	6	9	5	8	9	8	9	8	8.00	1.61	
Lesion Size and Site	Aphasia Type	5	10	10	9	8	9	10	0	5	10	10	9	7.82	3.22	
Social Support	Resilience	7	9	9	9	7	7	9	5	4	10	10	9	7.82	1.99	
Depression	Resilience	7	6	10	8	6	8	8	6	6	9	10	8	7.64	1.57	
Depression	Loneliness	7	6	10	10	3	7	10	5	10	5	10	7	7.55	2.58	
Social Support	Depression	5	5	10	8	7	8	8	10	2	7	10	8	7.27	2.49	
Social Support	Participation	5	8	10	9	6	8	7	6	6	7	8	7	7.27	1.49	
Fatigue	Participation	7	9	8	9	2	9	8	4	6	7	10	8	7.18	2.40	
Lesion Size and Site	Cognition	7	10	8	10	5	9	10	3	1	9	7	8	7.18	3.03	
Social Support	Motivation	5	5	9	8	8	8	8	4	7	8	9	8	7.18	1.72	
Resilience	Participation	4	8	9	8	9	7	8	4	2	9	10	8	7.09	2.59	
Social Support	Loneliness	9	8	0	8	8	8	10	7	10	7	3	8	7.09	3.02	
Aphasia Severity	Loneliness	5	7	8	10	4	7	5	5	7	8	10	7	6.91	2.02	
Depression	Anxiety	8	6	9	9	8	5	5	7	5	5	9	7	6.91	1.76	
Neuroplasticity	Aphasia Severity	7	10	9	8	7	9	10	0	3	8	4	8	6.82	3.19	
Time Post-onset	Neuroplasticity	5	9	8	5	7	8	9	7	4	5	8	7	6.82	1.78	
Fatigue	Motivation	5	7	9	9	7	8	5	4	5	5	10	7	6.73	2.05	
Neuroplasticity	Cognition	5	8	8	8	8	8	10	3	1	5	10	8	6.73	2.87	
Aphasia Severity	Depression	7	4	8	10	5	6	8	5	4	8	8	7	6.64	1.96	
Anxiety	Motivation	5	7	8	10	4	6	5	5	9	5	8	6	6.55	1.97	
Motivation	Resilience	4	1	7	7	9	7	9	5	6	8	8	7	6.45	2.38	
Participation	Neuroplasticity	5	10	8	8	6	8	10	5	0	7	4	7	6.45	2.91	
Age	Fatigue	4	10	8	7	5	6	3	6	5	9	7	6	6.36	2.11	

Age	Neuroplasticity	5	10	8	8	9	9	0	5	0	8	8	8	6.36	3.50
Loneliness	Motivation	4	7	7	9	5	8	6	6	2	7	9	7	6.36	2.11
Loneliness	Participation	5	7	8	10	8	7	5	4	4	5	7	7	6.36	1.91
Participation	Depression	3	6	7	8	9	7	2	7	8	7	6	7	6.36	2.11
Social Support	Anxiety	7	4	8	8	5	6	0	5	10	7	10	7	6.36	2.87
Anxiety	Participation	5	7	10	8	4	8	3	8	4	7	5	7	6.27	2.20
Loneliness	Resilience	4	5	8	8	6	6	8	5	4	7	8	6	6.27	1.62
Resilience	Motivation	4	5	9	8	8	7	7	3	1	7	10	7	6.27	2.72
Anxiety	Depression	4	6	10	8	8	3	5	5	7	7	5	6	6.18	2.04
Depression	Cognition	7	3	5	8	5	5	5	6	6	8	10	6	6.18	1.94
Lesion Size and Site	Neuroplasticity	8	1	7	7	9	9	9	5	2	8	3	7	6.18	2.96
Aphasia Severity	Participation	4	8	7	9	5	7	3	8	5	4	7	7	6.09	1.97
Aphasia Type	Loneliness	4	7	9	8	6	5	5	5	3	5	9	5	6.00	2.00
Anxiety	Fatigue	5	4	7	5	5	6	7	7	6	5	8	6	5.91	1.22
Aphasia Type	Depression	8	5	8	9	5	5	5	4	6	5	5	5	5.91	1.64
Cognition	Neuroplasticity	4	5	8	7	9	8	3	2	4	5	10	5	5.91	2.63
Participation	Motivation	0	3	8	8	8	7	5	3	8	7	8	7	5.91	2.77
Education	Cognition	2	8	7	5	8	9	5	3	2	5	10	5	5.82	2.79
Resilience	Loneliness	5	7	6	7	5	4	8	4	6	7	5	6	5.82	1.33
Anxiety	Resilience	4	6	8	5	5	7	3	7	3	8	7	6	5.73	1.85
Education	Neuroplasticity	3	9	8	6	9	7	3	3	3	5	7	6	5.73	2.45
Fatigue	Cognition	4	10	3	8	10	3	0	3	4	8	10	4	5.73	3.55
Aphasia Type	Anxiety	3	9	7	7	3	4	3	8	5	5	8	5	5.64	2.25
Cognition	Participation	7	6	5	8	10	5	0	7	5	3	6	6	5.64	2.62
Fatigue	Depression	4	6	8	9	6	2	4	5	1	7	10	6	5.64	2.80
Loneliness	Fatigue	5	6	3	8	6	6	5	4	6	5	8	6	5.64	1.50
Motivation	Depression	1	1	9	10	5	7	5	6	2	8	7	6	5.55	3.11
Time Post-onset	Participation	3	7	7	8	5	6	5	5	4	3	8	5	5.55	1.81
Aphasia Severity	Anxiety	5	3	8	9	2	5	5	3	8	5	7	5	5.45	2.30
Aphasia Severity	Fatigue	4	7	2	8	5	5	5	8	2	7	7	5	5.45	2.16
Cognition	Education	5	6	8	4	7	6	3	3	7	2	9	6	5.45	2.25
Cognition	Resilience	5	2	7	9	8	8	4	3	5	0	9	5	5.45	3.01

Fatigue	Anxiety	5	5	5	7	8	4	5	4	10	3	4	5	5.45	2.07
Loneliness	Anxiety	4	5	2	8	6	4	5	5	8	5	8	5	5.45	1.92
Aphasia Severity	Social Support	7	8	4	8	5	4	0	8	0	5	10	5	5.36	3.26
Fatigue	Resilience	3	3	9	8	8	4	2	3	6	5	8	5	5.36	2.54
Lesion Size and Site	Fatigue	8	7	7	7	5	6	3	2	3	9	2	6	5.36	2.50
Participation	Social Support	3	7	6	8	10	6	0	4	5	5	5	5	5.36	2.62
Time Post-onset	Depression	5	3	4	8	5	7	7	7	3	2	8	5	5.36	2.16
Time Post-onset	Loneliness	5	2	7	8	6	4	8	5	4	5	5	5	5.36	1.80
Resilience	Cognition	5	3	5	8	8	5	0	3	6	5	10	5	5.27	2.76
Anxiety	Loneliness	3	3	3	10	4	5	4	5	3	7	10	4	5.18	2.68
Aphasia Severity	Motivation	4	6	8	9	4	4	3	5	3	5	6	5	5.18	1.94
Depression	Social Support	3	4	2	5	2	6	8	5	5	7	10	5	5.18	2.48
Time Post-onset	Aphasia Severity	4	8	8	2	3	8	7	0	5	7	5	5	5.18	2.71
Lesion Size and Site	Depression	5	8	5	3	5	7	8	3	1	5	6	5	5.09	2.17
Lesion Size and Site	Participation	2	8	8	7	6	5	3	4	4	7	2	5	5.09	2.26
Participation	Fatigue	0	5	8	7	2	6	8	5	5	5	5	5	5.09	2.39
Fatigue	Neuroplasticity	4	7	0	3	6	8	0	3	8	7	9	6	5.00	3.19
Resilience	Depression	0	6	10	9	3	7	0	4	3	8	5	5	5.00	3.38
Age	Resilience	3	7	8	10	5	8	3	4	0	3	3	4	4.91	2.98
Age	Social Support	4	6	9	8	6	4	4	4	3	0	6	4	4.91	2.47
Neuroplasticity	Resilience	3	1	9	8	5	4	3	3	3	5	10	4	4.91	2.88
Participation	Loneliness	2	6	7	10	7	8	0	6	0	7	1	6	4.91	3.51
Resilience	Anxiety	4	7	8	6	8	4	0	6	3	8	0	6	4.91	2.98
Time Post-onset	Cognition	2	5	6	10	3	5	7	3	3	5	5	5	4.91	2.26
Aphasia Type	Fatigue	0	7	4	7	4	4	10	6	4	5	2	4	4.82	2.68
Resilience	Social Support	2	3	7	8	2	5	5	5	2	5	9	5	4.82	2.44
Aphasia Severity	Resilience	2	6	6	9	2	6	5	5	1	3	7	5	4.73	2.45
Aphasia Type	Cognition	3	7	3	10	6	2	3	2	5	3	8	3	4.73	2.69
Aphasia Type	Participation	3	8	8	5	5	7	3	5	2	5	1	5	4.73	2.33
Motivation	Loneliness	2	3	3	8	6	2	3	3	6	7	9	3	4.73	2.53
Motivation	Social Support	5	7	5	8	1	4	3	4	6	2	7	5	4.73	2.20
Participation	Aphasia Severity	1	8	0	7	8	4	8	0	10	3	3	4	4.73	3.61

Participation	Cognition	3	3	0	9	9	6	5	2	4	4	7	4	4.73	2.83
Participation	Resilience	4	2	0	7	10	5	8	5	5	0	6	5	4.73	3.13
Aphasia Severity	Neuroplasticity	6	1	6	7	8	5	3	3	5	3	4	5	4.64	2.06
Cognition	Loneliness	7	3	6	9	3	4	5	4	5	0	5	5	4.64	2.34
Social Support	Neuroplasticity	3	6	3	6	6	5	8	3	2	3	6	5	4.64	1.91
Time Post-onset	Motivation	2	1	8	8	3	7	4	5	0	3	10	4	4.64	3.23
Anxiety	Cognition	3	4	6	8	6	3	7	2	1	3	7	4	4.55	2.34
Aphasia Type	Motivation	3	9	3	9	5	5	5	4	2	5	0	5	4.55	2.70
Cognition	Motivation	4	1	7	8	5	4	3	4	7	0	7	4	4.55	2.58
Resilience	Fatigue	2	7	8	5	7	3	0	3	4	5	6	5	4.55	2.42
Resilience	Neuroplasticity	3	2	2	6	6	5	8	3	0	7	8	5	4.55	2.70
Time Post-onset	Fatigue	5	10	0	8	1	7	5	3	2	5	4	5	4.55	3.01
Neuroplasticity	Participation	4	2	7	8	6	4	0	3	3	3	9	4	4.45	2.73
Aphasia Type	Aphasia Severity	5	1	7	8	7	2	0	5	5	5	3	5	4.36	2.58
Aphasia Type	Social Support	4	9	4	7	4	3	0	6	4	0	7	4	4.36	2.80
Fatigue	Loneliness	3	4	3	5	5	5	0	3	8	5	7	5	4.36	2.16
Loneliness	Cognition	5	4	0	9	7	6	0	3	2	5	7	5	4.36	2.91
Time Post-onset	Resilience	4	6	4	8	5	6	5	4	3	3	0	4	4.36	2.06
Cognition	Depression	2	0	8	8	6	3	0	2	5	3	10	3	4.27	3.38
Participation	Anxiety	3	2	8	8	5	5	3	8	1	3	1	3	4.27	2.72
Depression	Neuroplasticity	4	5	0	5	7	7	0	3	3	7	5	5	4.18	2.52
Social Support	Cognition	5	3	5	2	8	6	3	3	3	2	6	3	4.18	1.94
Cognition	Anxiety	3	2	5	7	7	2	5	3	2	5	4	4	4.09	1.87
Lesion Size and Site	Anxiety	4	7	6	9	2	4	5	3	0	5	0	4	4.09	2.77
Loneliness	Neuroplasticity	4	6	0	7	6	3	0	5	7	5	2	5	4.09	2.55
Neuroplasticity	Motivation	3	4	4	9	5	6	3	2	2	2	5	4	4.09	2.12
Cognition	Fatigue	2	4	1	6	5	3	0	3	5	5	10	4	4.00	2.72
Fatigue	Aphasia Severity	2	9	0	6	3	6	5	0	2	5	6	5	4.00	2.83
Lesion Size and Site	Motivation	5	7	6	5	3	7	5	4	2	0	0	5	4.00	2.49
Motivation	Cognition	0	3	3	8	3	7	0	0	6	4	10	3	4.00	3.41
Age	Depression	1	6	6	6	5	4	0	6	2	4	3	4	3.91	2.17
Lesion Size and Site	Loneliness	3	7	8	0	2	3	5	5	2	5	3	3	3.91	2.34

Time Post-onset	Social Support	6	9	0	4	7	7	0	4	3	3	0	4	3.91	3.11
Age	Loneliness	3	4	7	5	6	5	0	3	3	0	6	4	3.82	2.32
Age	Motivation	1	5	8	8	5	4	0	5	0	5	1	5	3.82	2.93
Aphasia Severity	Cognition	5	6	0	10	4	4	3	0	2	5	3	4	3.82	2.82
Aphasia Type	Neuroplasticity	6	0	2	9	8	7	0	3	0	0	7	3	3.82	3.63
Aphasia Type	Resilience	5	4	6	8	4	4	4	3	3	0	1	4	3.82	2.18
Cognition	Aphasia Severity	7	7	1	10	3	3	0	0	5	3	3	3	3.82	3.16
Loneliness	Social Support	1	7	3	8	3	3	0	3	6	0	7	3	3.73	2.87
Motivation	Fatigue	0	6	7	0	4	3	5	2	6	7	1	4	3.73	2.69
Motivation	Neuroplasticity	3	1	0	5	6	7	5	2	2	5	5	5	3.73	2.24
Neuroplasticity	Depression	2	1	7	8	5	3	0	2	4	3	6	3	3.73	2.53
Age	Cognition	2	5	0	7	2	7	0	5	3	4	5	4	3.64	2.46
Anxiety	Social Support	4	7	0	7	5	4	0	4	6	0	3	4	3.64	2.66
Lesion Size and Site	Resilience	2	6	7	5	3	8	4	2	0	3	0	3	3.64	2.66
Aphasia Severity	Aphasia Type	6	0	4	5	0	1	8	5	0	2	8	4	3.55	3.11
Fatigue	Social Support	3	6	6	7	5	2	0	3	2	3	2	3	3.55	2.16
Age	Participation	0	5	6	6	5	4	0	4	3	5	0	4	3.45	2.38
Education	Motivation	0	1	7	7	3	6	0	2	9	0	3	3	3.45	3.27
Social Support	Fatigue	0	7	0	5	5	3	5	3	4	3	3	3	3.45	2.11
Cognition	Social Support	3	3	4	7	6	2	0	4	3	0	5	3	3.36	2.20
Motivation	Anxiety	0	1	6	4	4	4	3	3	7	4	1	4	3.36	2.11
Time Post-onset	Anxiety	3	5	6	7	2	4	0	5	0	4	1	4	3.36	2.38
Education	Resilience	0	4	7	6	6	5	0	0	4	0	4	4	3.27	2.76
Neuroplasticity	Education	0	1	0	8	2	4	0	0	8	3	10	2	3.27	3.74
Ethnicity/Race	Education	3	3	4	2	5	5	3	4	1	0	5	3	3.18	1.66
Sex	Social Support	4	8	5	7	3	4	0	4	0	0	0	4	3.18	2.89
Time Post-onset	Lesion Size and Site	7	0	0	7	0	3	0	0	2	8	8	2	3.18	3.57
Age	Anxiety	0	2	6	7	5	2	0	3	4	5	0	3	3.09	2.51
Education	Participation	1	7	0	3	7	4	0	0	5	2	5	3	3.09	2.70
Loneliness	Aphasia Severity	1	6	3	5	1	4	5	1	8	0	0	3	3.09	2.70
Neuroplasticity	Fatigue	0	3	4	8	4	4	0	0	3	2	6	3	3.09	2.55
Aphasia Type	Lesion Size and Site	5	4	0	0	7	0	10	0	7	0	0	0	3.00	3.74

Social Support	Education	3	8	7	0	5	3	0	0	7	0	0	3	3.00	3.26
Aphasia Severity	Lesion Size and Site	0	0	0	6	0	0	10	0	9	7	0	0	2.91	4.16
Neuroplasticity	Aphasia Type	3	5	0	7	0	7	0	2	3	3	2	3	2.91	2.55
Anxiety	Aphasia Severity	2	6	0	4	1	4	3	0	6	3	2	3	2.82	2.09
Lesion Size and Site	Social Support	2	8	4	3	5	0	0	3	3	0	3	3	2.82	2.40
Neuroplasticity	Loneliness	3	3	0	8	2	2	0	2	3	3	5	3	2.82	2.23
Depression	Aphasia Severity	2	7	0	6	3	7	0	0	2	3	0	2	2.73	2.80
Motivation	Aphasia Severity	0	5	0	6	2	6	0	0	3	5	3	3	2.73	2.49
Age	Education	2	1	8	1	2	4	5	6	0	0	0	2	2.64	2.73
Anxiety	Neuroplasticity	3	4	2	6	4	3	0	2	2	3	0	3	2.64	1.75
Education	Loneliness	2	0	4	6	6	0	0	2	5	0	4	2	2.64	2.46
Neuroplasticity	Anxiety	3	2	3	6	5	4	0	0	2	3	1	3	2.64	1.91
Neuroplasticity	Lesion Size and Site	0	0	7	9	0	3	0	0	7	0	3	0	2.64	3.47
Neuroplasticity	Social Support	2	6	3	7	3	0	0	3	0	0	5	3	2.64	2.54
Sex	Participation	0	7	6	6	5	4	0	0	1	0	0	1	2.64	2.94
Education	Anxiety	2	2	6	4	4	0	0	2	2	5	1	2	2.55	1.97
Ethnicity/Race	Anxiety	7	4	3	3	1	2	5	3	0	0	0	3	2.55	2.25
Ethnicity/Race	Participation	0	5	6	3	0	5	0	2	2	0	5	2	2.55	2.38
Ethnicity/Race	Social Support	2	0	6	3	2	1	0	4	0	5	5	2	2.55	2.21
Resilience	Aphasia Severity	0	5	0	8	5	2	0	3	3	2	0	2	2.55	2.62
Time Post-onset	Aphasia Type	5	4	0	0	0	8	0	3	2	5	0	2	2.45	2.77
Education	Depression	2	1	0	4	5	1	4	2	2	5	0	2	2.36	1.86
Education	Social Support	0	3	5	4	3	1	0	3	1	0	5	3	2.27	1.95
Sex	Depression	0	6	6	1	6	1	0	3	1	0	0	1	2.18	2.60
Age	Aphasia Severity	0	1	7	5	4	3	0	3	0	0	0	1	2.09	2.47
Ethnicity/Race	Depression	5	4	5	1	4	1	0	3	0	0	0	1	2.09	2.12
Sex	Anxiety	0	2	7	3	4	2	0	2	2	0	1	2	2.09	2.07
Participation	Education	0	3	0	8	4	0	0	0	2	0	5	0	2.00	2.72
Fatigue	Age	5	0	0	7	0	0	0	0	4	0	4	0	1.82	2.64
Motivation	Education	2	4	0	0	5	0	0	0	4	0	5	0	1.82	2.23
Resilience	Education	2	5	7	0	0	2	0	0	4	0	0	0	1.82	2.48
Sex	Education	2	0	7	0	2	4	3	2	0	0	0	2	1.82	2.23

[illegible]

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Lesion Size and Site	Age	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Lesion Size and Site	Education	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Participation	Age	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<i>Median</i>	3	4	4	7	4	4	0	3	3	3	4			
	<i>M</i>	2.77	3.97	4.16	5.54	4.06	3.78	2.70	2.77	3.28	3.18	4.22			
	<i>SD</i>	2.36	3.11	3.54	3.25	2.81	2.93	3.29	2.43	2.61	3.05	3.67			