

Table S1. Sociodemographic and clinical characteristics of respondents

Variable	n = 100
Gender	
Male	43
Female	57
Age, years (Mean: 58.9 ± 10.7)	
16–45 (young)	14
46–65 (middle-aged)	58
66–77 (elderly)	28
Occupation	
Professionals	29
Skilled/semiskilled workers	18
Unskilled workers	48
Others	5
Formal Education	
None	32
Primary (1–6 years)	20
Secondary (7–12 years)	29
Tertiary (>12 years)	19
Marital status	
Married	78
Widowed	14
Single/Cohabiting/Separated	8
Stroke type (WHO scale)	
Ischemic	28
Hemorrhagic	23
Indeterminate	49
Post-stroke duration (months) 43.5 ± 57.9	
Median = 17, Range = 1–348	
Modified Rankin Scale (disability)	
No significant disability	16
Slight disability	27
Moderate disability	35
Moderately severe disability	20
Severe disability	2
Stroke levity score (impairment)	
0–5 (severe impairment)	6
6–10 (moderate impairment)	14
11–15 (mild impairment)	80

Table S2. 'Known groups' validity of HRQOLISP and SF-36

Modified Rankin Scale	1 Mean, SD	2 Mean, SD	3 Mean, SD	4 Mean, SD	5 Mean, SD	ANOVA: F, p	Kruskal- Wallis χ^2 , p
<i>HRQOLISP domains</i>							
Physical	92.5, 7.2	76.9, 11.7	69.9, 11.9	59.1, 11.8	-	8.94, 0.0001	15.60, 0.001
Psychological	82.6, 10.6	76.8, 11.9	74.1, 12.9	64.3, 12.2	62.7, 9.0	5.57, 0.001	18.96, 0.001
Cognitive	81.4, 9.4	71.4, 10.1	74.6, 13.3	63.9, 15.4	57.3, 1.3	4.99, 0.001	18.38, 0.001
Soul	80.2, 6.8	77.3, 5.3	75.6, 7.7	76.3, 8.5		0.52, 0.673	1.67, 0.643
Spirit	83.3, 9.4	78.3, 11.7	77.6, 11.3	78.3, 10.4	68.3, 2.4	1.26, 0.290	5.77, 0.217
Eco-Social	74.4, 10.4	72.5, 6.6	68.6, 10.8	61.3, 8.2	62.7	4.00, 0.006	14.43, 0.006
Spiritual	78.8, 13.4	78.2, 13.9	76.8, 14.1	74.4, 12.5	78.0, 8.5	0.30, 0.877	1.02, 0.906
interaction							
<i>SF-36 subscales</i>							
Physical functioning	79.0, 24.0	58.5, 21.3	45.7, 29.6	16.8, 20.2	2.5, 3.5	15.31, 0.000001	35.25, 0.00001
Role limitation-physical	45.0, 44.5	16.3, 29.1	12.5, 28.4	0.0, 0.0	0.0, 0.0	5.67, 0.00001	18.77, 0.001
Role limitation-emotional	68.9, 40.8	34.7, 44.6	35.4, 47.1	13.3, 33.2	0.0, 0.0	4.02, 0.005	17.44, 0.002
Vitality	70.8, 22.4	63.3, 20.1	62.1, 24.0	45.0, 19.1	28.8, 8.8	4.53, 0.002	15.16, 0.004
General mental health	80.3, 18.7	79.2, 17.1	76.5, 21.8	60.9, 19.0	57.0, 18.4	3.39, 0.013	13.35, 0.010
Social functioning	79.2, 30.5	63.0, 31.3	52.3, 29.7	40.6, 25.9	31.3, 8.8	4.54, 0.002	16.42, 0.003
Bodily pain	83.7, 22.7	80.1, 23.1	69.8, 29.4	57.0, 28.5	61.3, 8.8	2.98, 0.023	10.86, 0.028
General health	74.4, 14.4	66.8, 14.5	58.3, 20.5	50.8, 13.8	47.5, 3.5	5.61, 0.00001	19.65, 0.001
Health transition	70.3, 33.2	67.6, 30.1	61.4, 39.1	37.5, 34.9	25.0, 0.0	3.28, 0.015	10.83, 0.029

Table S3. Construct validity of the HRQOLISP and SF-36 using correlation statistics

Spearman ranks' correlations	SLS-based construct validity		mRS-based construct validity		HRQOLISP and SF-36	
	Convergent ρ , p	Discriminant ρ , p	Convergent ρ , p	Discriminant ρ , p	Convergent validity	ρ , p
HRQOLISP domains						
Physical	0.47, 0.002		-0.59, 0.000003		Physical facet* SF-36 (<i>Cr</i> α = 0.722)	0.79, 0.0000001
Psychological	0.54, 0.0000001		-0.45, 0.000001		Psychological facet† SF-36 (<i>Cr</i> α = 0.641)	0.69, 0.0000001
Cognitive	0.35, 0.001		-0.36, 0.001		-	-
Soul		0.17, 0.313		-0.18, 0.283	-	-
Spirit		0.08, 0.475		-0.16, 0.115	-	-
Eco-Social	0.44, 0.0004		-0.48, 0.000009		Social functioning (SF- 36)	0.47, 0.0002
Spiritual interaction		0.13, 0.225		-0.09, 0.383	-	-
SF-36 subscales						
Physical functioning	0.67, 0.0000001		-0.64, 0.0000001			
Role limitation- physical	0.43, 0.000002		-0.42, 0.000002			
Role limitation- emotional	0.35, 0.001		-0.39, 0.0001			
Vitality	0.41, 0.000008		-0.36, 0.0005			
Mental health	0.36, 0.001		-0.31, 0.002			
Social functioning	0.45, 0.000006		-0.41, 0.000003			
Bodily pain	0.32, 0.002		-0.33, 0.001			
General health	0.33, 0.002		-0.46, 0.000003			
Health transition	0.37, 0.0002		-0.29, 0.004			

*Physical facet score of the SF-36 was generated by averaging physical-functioning, role limitation-physical and pain scores.

†Psychological facet score was generated by averaging role limitation-emotional, vitality and mental health scores. *Cr* α : Cronbach's alpha.

Table S4. Correlation matrix of SF-36 subscales and HRQOLISP domains

SF-36 HRQOLISP		Physical	Role-	Role-	Vitality	Mental	Social	Bodily	General
		functioning	physical	emotional		health	functioning	pain	health
Physical	ρ	0.782	0.473	0.678	0.625	0.574	0.619	0.570	0.620
	p	<0.0001	0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Psychological	ρ	0.683	0.500	0.502	0.672	0.601	0.554	0.571	0.612
	p	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cognitive	ρ	0.541	0.296	0.490	0.487	0.427	0.423	0.316	0.449
	p	<0.0001	0.006	<0.0001	<0.0001	<0.0001	<0.0001	0.003	<0.0001
Soul	ρ	0.596	0.418	0.507	0.435	.553	0.472	0.425	0.665
	p	0.060	0.134	0.051	0.449	0.495	0.354	0.293	0.089
Spirit	ρ	0.224	0.108	0.129	0.262	0.175	0.146	0.190	0.120
	p	0.042	0.298	0.209	0.011	0.094	0.159	0.067	0.246
Eco-social	ρ	0.596	0.418	0.507	0.435	0.553	0.472	0.425	0.665
	p	<0.0001	0.001	<0.0001	0.001	<0.0001	<0.0001	0.001	<0.0001
Spiritual interaction	ρ	0.068	0.249	0.266	0.098	0.153	0.111	0.038	0.054
	p	0.538	0.016	0.010	0.349	0.145	0.289	0.719	0.607

Table S5. Which is more valid for stroke patients-SF36 or HRQOLISP?

Parameter	Premise/observation [3, 7, 17, 33]		Inference
	HRQOLISP	SF-36	
Floor and ceiling effects	No significant floor or ceiling effect	Massive floor effects in role-physical and role-emotional subscales as well as conspicuous ceiling effects in role-emotional, mental health, pain and transition	SF-36 much worse
Skewness	Not significant	Role-emotional and role-physical were positively skewed while the mental health and pain were negatively skewed	SF-36 worse
Internal consistency validity	Cronbach's alpha range for all domain and global scores surpasses Nunnally's criterion except for the spirit domain	It was less than 0.7 in the social function and general health subscales	HRQOLISP better
Face and content validity	Contains recommended items in literature [3, 7], no new item added by the 100 stroke respondents.	It does not assess cognitive functioning, satisfaction with care and personal constructs including spirituality	HRQOLISP better
'Known groups' validity	Discriminates among mRS strata in stroke patients (table S3)	Discriminates among mRS strata in stroke patients (table S3)	Similar for existent domains
Construct validity (convergent and discriminant)	Relationships to SLS, mRS and SF-36 (tables S4, S5) fulfils a priori hypotheses	Relationships to SLS, mRS and HRQOLISP (tables S4, S5) fulfils a priori hypotheses	Similar for existent domains
Criterion validity	No gold standard measure [3, 24]	No gold standard measure [3, 24]	Not assessable