

Supplementary Table 4. Detailed information on assessments and measurements for the biomarker based diagnostic algorithm for post-traumatic stress syndrome (BioPTS) study

Topic	Assessments and measurements	References	Methods
Trauma related assessments			
Type of injury	Life event check list- korean version ⁵²	Bae et al. ⁵²	SR
Injury severity	ISS ²²	Baker et al. ²²	Int
	GCS ²³	Teasdale and Jennett ²³	Int
Traumatic condition	Presence+ symptoms of disease, ICU admission	n/a	Int, GP
Subsequent traumatic events and stress	Life experiences survey ²⁶	Sarason et al. ²⁶	SR
General health state			
Body composition	Body weight, Height	n/a	ME
Blood pressure (BP)/Pulse rate	Systolic and diastolic BP assessment	n/a	ME
Menstruation (female)	Standard questions	n/a	ME
Presence of 15 disease	Standard self-report questions+GP data	n/a	Int, GP
Medication use	Drug container observation+GP data	n/a	Int, GP
Socio-demographic characteristics			
Age, gender, ethnicity	Standard questions	n/a	Int
Partner+household status	Standard questions	n/a	Int
Socio-economic status	Education, income, occupation	n/a	Int
Religion	Standard questions	n/a	Int
Smoking	Standard questions	n/a	SR
Drinking	Standard questions	n/a	SR
Depression			
Presence of depressive disorder (psychopathology)	MINI ²⁴ : Major depression, minor depression	Sheehan et al. ²⁴	Int
Severity of depressive symptom	Hamilton Depression Rating Scale ²⁷	Hamilton ²⁷	Int
	Hospital Anxiety and Depression Scale ²⁸	Zigmond and Snaith ²⁸	SR
	CGI-I, CGI-S ²⁹	Guy ²⁹	Int
Presence of suicide idea	BPRS/SADS ³⁰	Patterson et al. ³⁰	SR
Life time suicide attempt	Past suicide attempt questionair	n/a	Int
Anxiety			
Presence of anxiety disorder (psychopathology)	MINI ²⁴ : Panic disorder, generalized anxiety disorder, social phobia,	Sheehan et al. ²⁴	Int
Severity of anxiety symptom	Hamilton Anxiety rating scale ³¹	Hamilton ³¹	Int
	CGI-I, CGI-S ²⁹	Guy ²⁹	Int
	Hospital Anxiety and Depression Scale ²⁸	Zigmond and Snaith ²⁸	SR
Abnormal illness behavior	Illness attitude scale	Kellner ³²	SR
ASD & PTSD			
Presence of ASD & PTSD (psychopathology)	Clinician administered PTSD scale-5 ²⁵	Weather et al. ²⁵	Int
	Impact Event Scale-Revised ³⁴	Weiss and Marmar ³⁴	SR
Severity of ASD & PTSD symptoms	Clinician administered PTSD scale-5 ²⁵	Weather et al. ²⁵	Int
Cognitive function			
Presence of cognitive impairment	Korean Mini-Mental State Examination ³⁵	Kang et al. ³⁵	Int
	Perceived Deficits Questionnaire-Depression ³⁶	Kim et al. ³⁶	SR
Physical disabilities			
Activities of daily living and mobility	Modified bathel index ³⁷	Mahoney and Barthel ³⁷	Int
Health-related quality of life	EuroQol-5 dimension ³⁸	Rabin and De Charro ³⁸	SR
Functional disabilities			
Functional impairments			SR
Global rating of current functioning ranging	Sheehan disability scale ³⁹	Sheehan ³⁹	Int
Other psychosocial factors			
Previous psychiatric problem	SOFAS ⁴⁰	APA ⁴⁰	
Chilhood trauma	Standard questions	n/a	Int
Social support	Childhood adversity questionair ⁴¹	Kang et al. ⁴¹	SR
Perception of stress	Multidimensional Scale of Perceived social support ⁴²	Zimet et al. ⁴²	SR
Stress coping ability	Perceived Stress scale ⁴⁴	Cohen and Davidson ⁴⁴	SR
Personality	Conner-Davidson Resilence Scale ⁴³	Conner et al. ⁴³	SR
Blood biomarker	Big Five Inventory ⁴⁵	John and Srivastata ⁴⁵	SR
Electrophysiologic biomarker			
	Blood sample	n/a	Blood
	Heart rate variability	n/a	ME
	Systolic and diastolic BP, pulse rate	n/a	ME
Cortisol biomarker	Blood sample	n/a	Blood
Epigenetic biomarker	Blood sample	n/a	Blood
Genetic biomarker	Blood sample	n/a	Blood

SR: self-report, Int: interview, GP: data collection through general practitioner records, ME: medical examination, MINI: Mini International Neuropsychiatric Interview Version, BPRS/SADS: Brief Psychiatric Rating Scale/SAD PERSONS scale, CGI: Clinical Global Impression Scale, ASD: acute stress disorder, PTSD: post traumatic stress disorder, SR: self-report, Int: interview, SOFAS: Social and Occupational Functioning Assessment Scale