

PRO INSTRUMENTS USED IN STUDIES OF BIPOLAR DISORDER SINCE 1960

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Objectives

To create an evidence map of the different patient-reported outcome instruments used in studies of patients with bipolar disorder, the geographical settings in which these studies were conducted and the interventions assessed.

Methods

We searched the heoro.com database (www.heoro.com) for PRO studies on bipolar disorder published between 1960 and 16 December 2016, and analysed the abstracts identified by the search to determine the different PRO instruments cited across the range of geographical locations and interventions. We presented the findings as an evidence map.

Results

	Geographical jurisdiction											
	Australia	Brazil	Canada	Chile	Czech Republic	Denmark	France	Germany	India	International or unknown	Italy	Korea
No. of studies	6	6	7	1	1	1	3	2	1	8	7	2
	Netherlands	Nigeria	Norway	Saudi Arabia	Spain	Switzerland	Taiwan	Thailand	Turkey	UK	US	
No. of studies	2	1	1	1	6	2	2	1	2	8	56	

	PRO Instrument																	
	ASI Addiction Severity Index	BAI Beck Anxiety Inventory	BAS Caregiver burden scale	BDI Beck Depression Inventory	BDQ Brief Disability Q'naire	BPRS Brief Psychiatric Rating Scale	CES-D Center for Epidemiological Studies-Depression	CFS Cognitive Function Scale	CGAS Children's Global Assessment Scale	CGI-BP Clinical Global Impression for Bipolar Disorder	CGI-S Clinical Global Impression-Severity of Illness	CHQ Child Health Q'naire	CIDI Composite International Diagnostic Interview	CODS Consequences of Depression Scale	CORE-OM Clinical Outcomes in Routine Evaluation - Outcome Measure	CTD Cognitive Test for Delirium	CUDOS Clinically Useful Depression Outcome Scale	
No. of studies	1	1	1	1	1	2	1	1	1	7	3	3	2	1	1	1	1	
	DAI-10, DAI-30 Drug Attitude Inventory	EQ-5D EuroQol 5 item scale	EWPS Endicott Workplace Productivity Scale	FAST Functioning Assessment Short Test	GAD-7 Generalised Anxiety Disorder Assessment	GAF Global Assessment of Functioning	GAS Global Assessment Scale	GDS Geriatric Depression Scale	GHQ-12 General Health Q'naire	HADS Hospital Anxiety and Depression Scale	HAM-A Hamilton Anxiety Rating Scale	HAM-D Hamilton Depression Rating Scale	HoNOS Health of the Nation Outcome Scales	HWPQ WHO Health and Work Performance Q'naire	IDS-C30 Inventory of Depressive Symptomatology-Clinician-Rated	IIRS Illness Intrusiveness Rating Scale	IPAQ Impact on Participation and Autonomy Q'naire	
No. of studies	3	7	1	1	2	5	1	1	1	1	4	15	1	1	2	1	1	
	ISS Internal State Scale	IWQOL-Lite Impact of Weight on Quality of Life-Lite	KINDL-R Revised Children Quality of Life Q'naire	LIFE-RIFT Longitudinal Interval Follow-up Evaluation-Range of Impaired Functioning	LLE List of Life Events	LSP Life Skills Profile	MADRS Montgomery Asberg Depression Rating Scale	Mastery Scale	MARS Medication Adherence Rating Scale	MDQ Mood Disorder Q'naire	MHI-17 Mental Health Index-17	MINI Mini International Neuropsychiatric Interview	MMPI Minnesota Multiphasic Personality Inventory	MRTF Medication Recommendation Tracking Form	MSQ Mood Swings Q'naire	MSS Mood Spectrum Self-Report	NEO-5 NEO Five-Factor Personality Inventory	
No. of studies	2	1	1	5	1	1	13	1	1	5	1	1	1	1	2	1	1	
	OCDS Obsessive Compulsive Drinking Scale	OPQ Occupational Performance Q'naire	PANSS Positive and Negative Syndrome Scale	PCASEE Q'naire	PGWB Psychological General Well-Being	PHQ-9 Patient Health Q'naire	PREDIMED Mediterranean Diet Q'naire	PRISE Patient Rated Inventory of Side Effects	PSPS Personal and Social Performance Scale	PSQI Pittsburgh Sleep Quality Index	QIDS-16 Quick Inventory of Depressive Symptoms	QLDS Quality of Life in Depression Scale	Q-LES-Q Quality of Life Enjoyment and Satisfaction Q'naire	QLI Lehman Brief Quality of Life Interview	QWB Quality of Well-Being scale	RSES Rosenberg's Self-Esteem Scale	SADS Schedule for Affective Disorders and Schizophrenia	
No. of studies	1	1	2	1	3	3	1	1	1	6	1	3	17	3	1	1	2	
	SAFTEE Q'naire	SBQOL SmithKline Beecham Quality of Life Q'naire	SCID Structured Clinical Interview for DSM	SCI-MOODS Q'naire	SDS Sheehan Disability Scale	SF-6D Short-form-6 items	SF-12 Short-form-12 items	SF-36 Short-form-36 items	SG Standard Gamble	SMAQ Simplified Medication Adherence Q'naire	TCAS Therapeutic Community Assessment scale	ToOL Tolerability and Quality of Life Q'naire	TRQ Tablet Routine Q'naire	UKU Udvalg for Kliniske Undersogelser	WHOQOL-BREF WHO Brief Quality of Life Scale	YMRS Young Mania Rating Scale		
No. of studies	1	1	4	1	3	2	10	26	1	1	1	1	1	1	10	18		

	Interventions												
	Psychological therapy, general	CBT	Dialectical behavioural therapy	Psycho-education	Self-management	Drug therapy, general	Aripiprazole	Armodafinil	Asenapine	Divalproex	Duloxetine	Fluoxetine	Haloperidol
No. of studies	3	6	1	6	2	3	1	1	1	1	1	1	2
	Imipramine	Lamotrigine	Lithium	Olanzapine	Quetiapine	Risperidone	Valproic acid	Venlafaxine	Ziprasidone	Zonisamide	Lifestyle	Housing	Other therapy
No. of studies	1	2	5	11	6	3	2	1	1	1	2	2	2

	Type of PRO assessment							Publication year				
	General QOL	Utility	Disease-specific	Comorbidity	Work	Medication	Caregiver	1960-1999	2000-2004	2005-2009	2010-2014	2015-2016
No. of studies	46	41	58	15	3	9	1	7	24	48	40	9

Numbers refer to number of studies identified for each category. Where a study is set in two or three locations, these are all listed separately. Studies set in five or more jurisdictions, or systematic reviews are classified as International. Studies are mapped to all relevant subcategories. Number of studies in each subgroup may not add up to the total score because of double-counting.

Conclusions

A wide range of PRO tools have been used in studies of bipolar disorder, but only ten tools were cited in more than five abstracts each. Research into the quality of life in bipolar disorder has generally been assessed from a US perspective.