

**Supplementary Table 2.** Summary of included articles and quality assessment

Study	Country	Study design	Study cohort	Method of diagnosis for depression	Method of diagnosis for anxiety	Depression diagnosis	Anxiety diagnosis	Time of depression diagnosis	Total patients	No. of depression	No. of anxiety	Age (years)	BMI (kg/m <sup>2</sup> )	Female (%)	Diabetes (%)	Smoking (%)	Alcohol (%)	Cirrhosis (%)	Curative treatment (%)	JBI Quality Assessment
Paro et al. <sup>1</sup> (2021)	USA	Retrospective	Population-based	Clinician-rated		ICD-9/ DSM-V		During treatment	4,441	142										8
Feldbrügge et al. <sup>2</sup> (2021)	Germany	Prospective	Hospital cohort	Self-rated	Self-rated	HADS	HADS	After treatment	98	7	19	68.5±26.34	29.83±2.32	27.6					100.0	8
Wang et al. <sup>3</sup> (2019)	China	Prospective	Hospital cohort	Self-rated	Self-rated	HADS	HADS	After treatment	136	40	33	59.4±11		19.1	11.0				100.0	7
Lee et al. <sup>4</sup> (2019)	Taiwan	Prospective	Hospital cohort	Self-rated	Self-rated	BDI	BAI	After treatment	410	70	37	61.1±10.7	24.8±3.5	30.0		16.8	17.6	40.2	4.39	8
Jia et al. <sup>5</sup> (2019)	China	Prospective	Hospital cohort	Clinician-rated	Self-rated	Hamilton-D	BAI	During treatment	269	134	107	59±9.56		19.0		40.5	37.5	100.0		8
Cheng et al. <sup>6</sup> (2019)	USA	Prospective	Hospital cohort	Self-rated		CES-D		During treatment	266	64		62.91±10.26		21.1			11.3	83.1		7
Temtap and Nilmanat <sup>7</sup> (2018)	Thailand	Prospective	Hospital cohort	Self-rated	Self-rated	HADS	HADS	During treatment	96	64	67			18.8						7
Agarwal et al. <sup>8</sup> (2018)	USA	Retrospective	Hospital cohort	Self-reported	Self-reported			During treatment	149	32	15	63.6±7.48							52.3	8
Hwa et al. <sup>9</sup> (2015)	USA	Retrospective	Hospital cohort	Self-reported	Self-reported			After treatment	100	36		63.33±5.27	28.6±5.2		24.0	84.0		27.0	50.0	8
Chang et al. <sup>10</sup> (2015)	Taiwan	Retrospective	Population-based	Clinician-rated		ICD-9/ DSM-V		During treatment	55,973	1,041		61.3±13.6		32.5	13.1			36.5		9
Hong and Tian <sup>11</sup> (2014)	China	Prospective	Hospital cohort	Self-rated	Self-rated	HADS	HADS	After treatment	57	39	1									8
Mikoshiba et al. <sup>12</sup> (2013)	Japan	Retrospective	Hospital cohort	Self-rated		CES-D		After treatment	127	36		69.02±8.4		36.2					100.0	7
Lai et al. <sup>13</sup> (2013)	Taiwan	Retrospective	Population-based	Clinician-rated		ICD-9/ DSM-V		At diagnosis	1,815	114		74.31±6.29		37.6	35.0		1.3	54.5		8
Palmieri et al. <sup>14</sup> (2012)	Italy	Prospective	Hospital cohort	Clinician-rated		Hamilton-D		During treatment	32	15										8
Chu et al. <sup>15</sup> (2011)	Taiwan	Prospective	Hospital cohort	Self-rated		HADS		After treatment	106	11		56.6±12.3		20.8					100.0	7
Jia et al. <sup>16</sup> (2010)	China	Prospective	Hospital cohort	Clinician-rated		Hamilton-D		After treatment	60	36										8
Tian et al. <sup>17</sup> (2006)	China	Retrospective	Hospital cohort	Self-rated	Self-rated	SDS	SAS	After treatment	112	60	58								100.0	7

Values are presented as mean±standard deviation or number unless otherwise indicated.

BMI, body mass index; JBI, Joanna Briggs Institute; ICD-9, International Classification of Disease, ninth revision; DSM-V, Diagnostic and Statistical Manual of Mental Disorders, 5th edition; HADS, Hospital Anxiety and Depression Scale; BDI, Beck's Depression Inventory; BAI, Beck's Anxiety Inventory; CES-D, Center for Epidemiological Studies-Depression; SDS, Zung Self-Rating Depression Scale; SAS, Zung Self-Rating Anxiety Scale.