Table I contd.

First author, year published, Country	Study design	Study duration (years)	Inclusion (I)/exclusion (E)	Patients n	Mean age (% male)	Criteria	Time post-stroke	Percent with anxiety 95% CI	Quality rating
Tang, 2013, (38), China	Cross-sectional	Jun 2008–Sep 2011	I: Acute stroke, Chinese ethnicity, Cantonese as primary language, age ≥18 years E. TIA, SDH, SAH, cerebral haemorrhage, nervous system disease, severe cognitive impairment, aphasia, physical frailty, severe auditory or visual impairment, recurrent stroke	374	Not stated (58)	HADS-A >7	3 m	23	High
Verbraak, 2012, (40), Netherlands	Prospective longitudinal	May 2006–May 2008	I: TIA or NDS, no need for rehabilitation E: Age ≤ 18 years, nor understanding or talking Dutch	45	69 (62)	HADS-A >7	1 m	27	High
White, 2013, (41), Australia	Prospective cohort	Dec 2007–	I: Stroke E: Severe language or cognitive impairment	134	75 (48)	HADS-A >7	1 w	47	High
Wolfe, 2011, (42), UK	Prospective	Jan 1995–Dec 2006	I: First ever stroke	3,373	70 (51)	HADS-A >7	3 m	37.7	High
Vuletic, 2011, (44), Croatia	Prospective	Feb 2008–Mars 2008	I: First ever stroke, hospitalized 3 months before testing E: recurrent stroke, major medical illness, alcohol abuse, decreased level of consciousness, dysphasia, severe cognitive impairment	35	62 (57)	HADS-A >7	3 m	37	Medium
Vuletic, 2012, (45), Croatia	Prospective	May 2006	I: First ever acute stroke E: TIA, previous emotional problems, severe aphasia, clouding of consciousness	40	72 (50)	HADS-A >7	3–5 d	40	Medium
Yuan, 2013, (51), China	Prospective	Apr 2008–Apr 2010	I: Acute stroke, at hospital 14 days post-stroke, age ≥18 years, could finish examinations, written informed consent E: Haemorrhagic stroke, missing HDRS data	1953	60 (M), 65 (FM), (67)	HDRS-17	2 w	32.3	Medium
Arba, 2016, (56), Italy	Prospective Cohort	Not stated	I: Ischaemic stroke, available HADS data	2160	64 (67)	HADS-A >7	1 y	19.5	Medium
De Weerd, 2012, (66), Netherlands	Observational Case-control	Nov 2007–Nov 2008	I: Ischaemic stroke E: <60 years, referral to a nursing home, rehabilitation centre or another hospital department after discharge	88	73 (64)	HADS-A ≥8	1 y	12.3	Medium
Donnellan, 2016, (69), Ireland	Prospective	Not stated	I: ≥ 18 years, stroke within 1 month, ability to participate in interview E: TIA, aphasia or FAST ≤ 13/20, medically unstable, pre-stroke vascular dementia or cognitive visual or hearing impairment, TBI, neurodegenerative disease	64	61 (67)	HADS-A ≥8	2 w	27	High
Kim, 2017, (79), Korea	Cross-sectional	Mars 2014–Sep 2015	I: ICD-10 codes (I60, 61, 62, 63, or I64), first onset stroke, age ≥18 years, satisfactory cognitive function E: MMSE ≤ 10 or MMSE score 11–23, cognitive in-competence, aphasia, transient ischaemic attack, severe auditory or visual impairment	214	Not stated (55)	HADS-A ≥11	1 m	29.4	Medium
Kneebone, 2015, (80), Australia	Prospective longitudinal	Mars 2013–Feb 2015	I: inpatients, stroke between 2 weeks and 6 months previously, age ≥65 years, medically stable E: Abbreviated Mental Test < 8, MMSE 16 or < 24, aphasia, psychiatric disorder other than anxiety or depression	69	79 (52)	DSM IV	48 d (median)	11.6	Medium
Kootker, 2016, (81), Netherlands	Prospective longitudinal cohort	Mars 2011–Mars 2013	I: Signed informed, cerebral stroke, ≥18 years, speak or understand Dutch E: Serious comorbid condition, pre-stroke BI ≤ 17, pre-stroke HAC ≥ 1	307	67 (65)	HADS-A >7	2 m	20.1	Medium

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Ku, 2013, (82), Taiwan	Cross-sectional	Sep 2009–Jun 2010	I: Acute ischaemic stroke E: Severe language disturbance, history of severe psychiatric disease, drug or alcohol abuse, dementia, cognitive impairment	26	61 (73)	HADS-A ≥8	1 w	77.3	Medium
Mihalov, 2015, (89), Slovakia	Prospective cohort	Oct 2013–May 2014	I: stroke E: persistent severe aphasia or severe cognitive deficit, using antidepressants >6 months	47	67 (64)	HADS-A ≥8	6 m	17	Medium
Mutai, 2016, (91), Japan	Cross-sectional	Oct 2012–Nov 2013	I: ischaemic or haemorrhagic stroke E: Severe confusion, severe aphasia, immobility	101	74 (66)	HADS-A ≥11	2 w	26.8	Medium
Nijsse, 2015, (92), Netherlands	Cross-sectional	Mar 2011–Mar 2013	I: diagnosis of stroke in the last 7 days, ≥ 18 years E: condition interfering with the study outcomes, BI ≤17, do not speak or understand Dutch, pre-stroke HAC ≥ 1	350	66 (64)	HADS-A >7	2 m	20.4	Medium
Ojagbemi, 2017, (93), Nigeria	Cross-sectional	Not stated	I: stroke E: severe communication difficulties or aphasia, severe cognitive impairments or dementia CSID ≤ 20, global disability MRS ≥3, significant comorbid medical illnesses	391	57 (64)	HADS-A ≥11	1 m	19,7	Medium
Oosterveer, 2017, (95), Netherlands	Cross-sectional	2009–2011	I: stroke. E: pre-existing dementia, patients with terminal conditions	238	71 (55)	HADS-A ≥8	6 w	22.3	Medium
Parker, 2014, (96), Turkey	Cross-sectional	Jan 2010–Sep 2013	I: stroke E: recurrent stroke, stroke duration >1 year, type 1 diabetics, aphasia	118	64 (36)	HADS-A >7		69.5	Low
Pedroso, 2015, (98), Brazil	Cross-sectional	Not stated	I: acute ischaemic stroke, >45 years E: haemorrhagic stroke, infectious or autoimmune diseases, MI, dementia, GCS <14, aphasia, recent neurosurgery	60	64 (70)	HADS-A >6	5.4 d	23.3	Medium
Ponchel, 2016, (100), France	Prospective cohort	Not stated	I: ≥18 year, acute stroke, no dementia E. dementia IQCODE >64, meningeal or intraventricular haemorrhage, contraindication for MRI, don't speak or understand French, aphasia	153	64 (61)	HAMA >6	6 m	41.8	Medium
Van der Kemp, (107), 2015, Netherlands	Prospective	Mar 2011–Mar 2013	I: mild-to-moderate stroke ≤7 days, age ≥18 years, employee E: another serious health, BI <18, do not speak or understand Dutch, HAC ≥1, NIHSS ≥16	121	56 (73)	HADS-A >9	2 m	18.8	Medium
Wu, 2015, (111), China	Cross-sectional	Oct 2013–Sep 2014	I: stroke onset < days, 18–80 years E: a decreased consciousness, cognitive dysfunction, aphasia, dysarthria, history of anxiety or other psychiatric disorder, previous stroke, CNS or physical diseases	226	63 (63)	HAMA >7	1 m	26.5	Medium
Yu, 2015, (112), Australia	Prospective cohort	Not stated	I: ischaemic stroke	182	76 (57)	HADS-A ≥8	2 w	22.5	Medium

HADS-A: Hospital Anxiety and Depression Scale-Anxiety; STAI: Stait-Trait Anxiety Inventory; HAM-A: Hamilton Anxiety Rating Scale; TBI: traumatic brain injury; TIA: transient ischaemic attack; GAD-7: Generalized Anxiety Disorder 7-item Scale; MRI: magnetic resonance imaging; SAH: subarachnoid haemorrhage; CT: computed tomography; MAS: Motor Assessment Scale; CNS: central nervous system; SDH: subdural hematoma; HDRS: Hamilton Depression Rating Scale; FAST: Facial drooping, Arm weakness, Speech difficulties and Time to call emergency services-test; MMSE: Mini-Mental State Examination; ICD: International Classification of Diseases; HAC: Heteroanamnesis List Cognition; GCS: Glasgow Coma Scale; NIHSS: National Institutes of Health Stroke Scale.