

Table SII. Description of selected studies

Study	Psychiatric assessment	Continent	Design	Number of patients	Age category	Age	Female	PASI	Duration	Age onset	Psoriatic Arthritis	Risk of bias	Prevalence [CI95%]	OR [CI95%]
Separation Anxiety Disorder														
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48		3.0	7.6		Moderate	11 [5-22]	6.6 [0.8-57]
Specific Phobia														
1987 Lyketsos ²⁷	Interview	Europe	Prospective	26	Adults							High	12 [4-29]	
1994 Mazzetti ²⁸	Interview	Europe	Prospective	80	Adults	34.7	48					Moderate	4 [1-10]	
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48		3.0	7.6		Moderate	7 [3-18]	1.4 [0.3-6.4]
Social Anxiety Disorder														
2006 Consoli ²⁹	Interview	Europe	Prospective	93	Adults	47.9	48	7.1	18.5			Moderate	1 [0-6]	
2007 Mehta ³⁰	Interview	Asia	Prospective	50	Children and adults	38.0		9.9	6.7	31.1		Moderate	2 [0-10]	
2009 Biljan ³¹	Interview	Europe	Prospective	70	Adults	51	49					Moderate	3 [1-10]	
2012 Golpour ³²	Interview	Middle East	Prospective	100	Adults	34.3	56					Moderate	4 [2-10]	4.1 [0.5-37.6]
2016 Luca ³³	Self-administered questionnaires	Europe	Prospective	102	Adults	48.7	50	6.0				High	46 [37-56] 47 [38-57]	
2017 Lakuta ³⁴	Self-administered questionnaire	Europe	Prospective	193	Adults	36.4	68		16.8	19.6	19	High	33 [27-40]	
2019 Belvisi ³⁵	Interview	Europe	Prospective	76	Adults	62.2	48			56.7		High		0.4 [0.0-8.6]
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48		3.0	7.6		Moderate	13 [6-24]	1.9 [0.5-6.8]
2019 Leisner ³⁶	Medical records	Europe	Retrospective	13 675	Children and adults		50					Low	0 [0-0]	1.6 [0.9-2.8]
Panic Disorder														
2006 Consoli ²⁹	Interview	Europe	Prospective	93	Adults	47.9	48	7.1	18.5			Moderate	6 [3-13]	
2009 Biljan ³¹	Interview	Europe	Prospective	70	Adults	51	49					Moderate	1 [0-8]	

2019 Belvisi ³⁵	Interview	Europe	Prospective	76	Adults	62.2	48			56.7	High	1 [0-7]	1.1 [0.1-17.2]
2019 Leisner ³⁶	Medical records	Europe	Retrospective	13 675	Children and adults						Low	0 [0-0]	1.3 [0.6-2.8]
Agoraphobia													
2006 Consoli ²⁹	Interview	Europe	Prospective	93	Adults	47.9	48	7.1	18.5		Moderate	5 [2-12]	
2019 Belvisi ³⁵	Interview	Europe	Prospective	76	Adults	62.2	48			56.7	High		0.4 [0-8.6]
Generalized Anxiety Disorder													
1987 Lyketsos ²⁷	Interview	Europe	Prospective	26	Adults						High	31 [17-50]	
1994 Mazzetti ²⁸	Interview	Europe	Prospective	80	Adults	34.7	48				Moderate	8 [3-15]	
2006 Consoli ²⁹	Interview	Europe	Prospective	93	Adults	47.9	48	7.1	18.5		Moderate	18 [12-27]	
2007 Mehta ³⁰	Interview	Asia	Prospective	50	Children and adults	38.0		9.9	6.7	31.1	Moderate	4 [1-13]	
2009 Biljan ³¹	Interview	Europe	Prospective	70	Adults	51.0	49				Moderate	10 [5-19]	
2014 Rayner ³⁷	Self-administered questionnaire	Europe	Prospective	330	Adults						Low	15 [11-19]	
2015 Lakshmy ³⁸	Self-administered questionnaire	Asia	Prospective	90	Adults	41.9	43				Moderate	77 [67-84]	
2016 Li ³⁹	Self-administered questionnaire	Asia	Prospective	200	Adults	40.6	47	8.0			Low	9 [6-14]	
2017 Jain ⁴⁰	Interview	Asia	Prospective	50	Adults	28.2	44		4.2		High	12 [6-24]	
2017 Lamb ⁴¹	Self-administered questionnaire	Europe	Prospective	607	Unknown	47.0	35	5.5		18	Low	13 [11-16]	
2019 Belvisi ³⁵	Interview	Europe	Prospective	76	Adults	62.2	48			56.7	High	8 [4-16]	0.4 [0.0-8.6]
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48		3.0	7.6	Moderate	22 [13-35]	15.1 [1.9-121.2]

2019 Leisner ³⁶	Medical records	Europe	Retrospective	13 675	Children and adults	50				Low	0 [0-0]	1.7 [1.0-2.9]
2019 Tian ⁴²	Self-administered questionnaire	Asia	Prospective	208	Adults	40.8	36	14.4		Moderate	11 [7-15]	

Unspecified Anxiety Disorder

1994 Mazzetti ²⁸	Interview	Europe	Prospective	80	Adults	34.7	48				Moderate	13 [7-22]	
2009 Biljan ³¹	Interview	Europe	Prospective	70	Adults	51.0	49				Moderate	64 [53-74]	
2011 Han ⁴³	Medical records	Europe	Retrospective	7971	Adults	47.2	50			Low	7 [6-8]	1.6 [1.5-1.8]	
2013 Lan ⁴⁴	Medical records	Asia	Retrospective	7921	Adults					High	23 [22-24]	1.3 [1.2-1.4]	
2014 Kimball ⁴⁵	Medical records	International	Prospective	11900	Adults	48.6	45	17.5	36		Moderate	11 [11-12]	
2014 Sahiner ⁴⁶	Interview	Middle East	Prospective	31	Adults	42.1	55			High	16 [7-33]		
2014 Sanchez-Carazo ⁴⁷	Report by the investigator	Europe	Prospective	1022	Adults	46.3	40	20.0	21.0	16	Moderate	16 [14-18]	
2015 Feldman ⁴⁸	Medical records	North America	Retrospective	5492	Adults	47.6	45			Low	6 [6-7]	1.5 [1.3-1.8]	
2015 Karia ⁴⁹	Interview	Asia	Prospective	50	Adults	39.8	30	4.4	8.6		Moderate	12 [6-24]	3.3 [0.6-17.0]
2016 Offidani ⁵⁰	Interview	Europe	Prospective	70	Adults	47.9	33				Moderate	9 [4-17]	
2017 Armstrong ⁵¹	Medical records	North America	Retrospective	18653	Unknown	48.1	49			12	Low	9 [9-10]	
2017 Sorour ⁵²	Interview	Africa	Prospective	300	Adults		44				Moderate	24 [20-29]	
2018 Feldman ⁵³	Medical records	North America	Retrospective	114824	Adults	53.0	54				Low	7 [7-8]	1.3 [1.3-1.4]
2018 Galili ⁵⁴	Interview	Europe	Prospective	1135	Adults						Moderate	1 [1-2]	2.0 [1.3-3.3]
2018 Huilaja ⁵⁵	Medical records	Europe	Retrospective	17318	Adults	41.6	58				Low	5 [5-5]	1.3 [1.2-1.5]s

2018 Strober ⁵⁶	Medical records	International	Retrospective	7490	Adults	48.0	40	17.8	13	Moderate	6 [5-6]	
2019 Bang ⁵⁷	Medical records	Asia	Retrospective	12 762	Adults					Low		2.9 [2.7-3.2]
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48	3.0	7.6	Moderate	65 [51-76]	9.2 [3.7-22.8]
2019 Paller ⁵⁸	Medical records	North America	Retrospective	7 686	Children	12.9	56			Moderate	0 [0-0]	2.6 [1.7-4.0]
2019 Parisi ⁵⁹	Medical records	Europe	Retrospective	56961	Adults		52			Low	18 [18-18]	1.2 [1.1-1.2]
2019 Patel ⁶⁰	Medical records	North America	Retrospective	188 089	Children and adults	59.9	48			Low	6 [6-6]	2.1 [2.1-2.2]
2019 Tzur Bitan ⁶¹	Medical records	Middle East	Retrospective	127 931	Adults					Low	3 [3-3]	1.2 [1.1-1.2]

Anxiety symptoms

1985 Jowett ⁶²	Self-report	Europe	Prospective	38	Adults	50.0		13		High	58 [42-72]	
1991 Price ⁶³	Self-administered questionnaire	Europe	Prospective	23	Adults	44.5	48	21.17		High	26 [13-46]	
1993 Finzi ⁶⁴	Self-administered questionnaire	Europe	Prospective	179	Adults					High	58 [51-65]	
2000 Scharloo ⁶⁵	Self-administered questionnaire	Europe	Prospective	69	Adults	48.3	45	26.6		Moderate	16 [9-25]	
2001 Kent ⁶⁶	Self-administered questionnaire	Europe	Prospective	141	Adults	50.0	50	24.6		Moderate	26 [20-34]	

2001 Richards ⁶⁷	Self-administered questionnaire	Europe	Prospective	115	Adults	41.5	47	9.1	18.7	22.8	Moderate	43 [35-53]	
2002 Hill ⁶⁸	Self-administered questionnaire	Europe	Prospective	89	Adults	49.7	63		28.1		Moderate	27 [19-37]	
2003 Fortune ⁶⁹	Self-administered questionnaire	Europe	Prospective	60	Adults	41.4	45	9.8	20	20.2	Moderate	33[23-46]	14.5 [3.2-65.5]
2003 Kowacs ⁷⁰	Self-administered questionnaire	South America	Prospective	34	Adults	43.5	40				High	18 [8-34]	0.7 [0.3-2.0]
2004 Fortune ⁷¹	Self-administered questionnaire	Europe	Prospective	72	Adults	42.0	38	12.4	19	23	Moderate	38 [27-49]	
2004 Richards ⁷²	Self-administered questionnaire	Europe	Prospective	43	Adults	50.0	51			27	High	37 [24-52]	
2004 Richards ⁷³	Self-administered questionnaire	Europe	Prospective	58	Adults	44.0	51		18.0	26.0	High	28 [18-40]	3.3 [1.2-9.2]
2005 Fortune ⁷⁴	Self-administered questionnaire	Europe	Prospective	300	Adults	43.5	46	9	19.7	23.4	Low	37 [31-42]	
2005 Fortune ⁷⁵	Self-administered questionnaire	Europe	Prospective	95	Adults	42.0	60		19.0	22.0	Moderate	37 [28-47]	

2005 Yang ⁷⁶	Self-administered questionnaire	Asia	Prospective	93	Adults	42.5	17	10	12.4	30.3	37	Moderate	34 [26-45]
2006 Consoli ²⁹	Self-administered questionnaire	Europe	Prospective	93	Adults	47.9	48	7.1	18.5			Moderate	48 [38-58]
2006 Gaikwad ⁷⁷	Self-report	Asia	Prospective	43	Children and adults		37	42.1				High	16 [8-30]
2006 Schneider ⁷⁸	Self-administered questionnaire	Europe	Prospective	91	Adults	52.2	48					Moderate	11 [5-19]
2007 Hawro ⁷⁹	Self-administered questionnaire	Europe	Prospective	32	Adults	36.8	50		13			High	28 [16-45]
2008 Kirby ⁸⁰	Self-administered questionnaire	Europe	Prospective	83	Adults	42.2	51			20.8		Moderate	42 [32-53]
2009 Daudén ⁸¹	Self-administered questionnaire	Europe	Prospective	697	Adults	45.0	28	22.35	21.8			Moderate	44 [41-48]
2010 Langley ⁸²	Self-administered questionnaire	North America	Prospective	1219	Adults	46.2	32	19.6	20.1			Low	20 [18-22]
2011 Chern ⁸³	Self-administered questionnaire	Asia	Prospective	48	Adults	39.5	31	27.1	13.7			Moderate	50 [36-64]
2011 McAleer ⁸⁴	Self-administered questionnaire	Europe	Prospective	135	Adults	43.0	32	6.1			17	Moderate	21 [15-28]

2012 Darwazeh ⁸⁵	Self-administered questionnaire	Middle East	Prospective	87	Adults	32.9	46		10.0			Moderate	37 [27-47]	
2012 Gniadecki ⁸⁶	Self-administered questionnaire	Europe	Prospective	752	Adults	46.5	37		18.9			Low	30 [27-33]	
2012 Golpour ³²	Self-administered questionnaire	Middle East	Prospective	100	Adults	34.3	56					Moderate	45 [35-55]	3.7 [2.0-7.1]
2012 Mizara ⁸⁷	Self-administered questionnaire	Europe	Prospective	55	Adults	42.2	47		18.6	24	25	Moderate	42 [30-55]	5.6 [2.1-15.4]
2013 Karababa ⁸⁸	Self-administered questionnaire	Middle East	Prospective	39	Adults	28.0	56					High	33 [21-49]	2.6 [0.7-9.3]
2013 Pujol ⁸⁹	Self-administered questionnaire	Europe	Prospective	1164	Adults	45.1	39	13.24		26.1		Low	40 [37-43]	
2014 Cepuch ⁹⁰	Self-administered questionnaire	Europe	Prospective	99	Adults							High	42 [33-52]	
2014 Bangemann ⁹¹	Self-administered questionnaire	Europe	Prospective	165	Adults							Low	31 [24-38]	
2014 Korkoliakou ⁹²	Self-administered questionnaire	Europe	Prospective	108	Adults	52.5	52					Moderate	31 [23-41]	

2014 McDonough ⁹³	Self-administered questionnaire	North America	Prospective	441	Adults	53.4	42	3.64		28.5	69	Low	13 [10-17]	
2014 Molina-Leyva ⁹⁴	Self-administered questionnaire	Europe	Prospective	133	Adults	45.0	41	2.25	16.4	24.4		High	42 [34-51]	
2015 AlShahwan ⁹⁵	Self-administered questionnaire	Middle East	Prospective	69	Adults							Moderate	30 [21-42]	
2015 Biçici ⁹⁶	Researcher-administered questionnaire	Middle East	Prospective	73	Adults	35.0		6.63				Moderate	23 [15-34]	5.2 [1.7-16.5]
2015 Dalgard ⁹⁷	Self-administered questionnaire	Europe	Prospective	626	Adults							Low	22 [19-26]	2.3 [1.8-3.0]
2015 Iskandar ⁹⁸	Self-report	Europe	Prospective	8399	Adults	45.5	42	16.2	21.4	24.1	17	Moderate	3 [3-4]	
2015 Molina-Leyva ⁹⁹	Self-administered questionnaire	Europe	Prospective	80	Adults	43.4	50				30	High	50 [39-61]	4.0 [2.0-8.1]
2015 Pärna ¹⁰⁰	Self-administered questionnaire	Europe	Prospective	40	Adults	41.8	45					High	35 [22-50]	
2015 Tsintsadze ¹⁰¹	Self-administered questionnaire	Middle East	Prospective	36	Adults		39					High	56 [40-70]	
2016 Abebe ¹⁰²	Self-administered questionnaire	Africa	Prospective	158	Adults							Moderate	43 [36-51]	

2016 Innamorati ¹⁰³	Self-administered questionnaire	Europe	Prospective	100	Adults	50.5	41	3.9			Moderate	35 [25-44]	4.5 [2.1-9.7]
2016 Petraskiene ¹⁰⁴	Self-administered questionnaire	Europe	Prospective	385	Adults		48		35		Moderate	37 [33-42]	
2016 Tee ¹⁰⁵	Self-administered questionnaire	Asia	Prospective	100	Adults	43.1	34		14.3		Moderate	17 [11-26]	
2017 Eckert ¹⁰⁶	Self-report	North America	Prospective	260	Adults	44.7	65				High	27 [22-32]	
2017 Kwan ¹⁰⁷	Self-administered questionnaire	Asia	Prospective	100	Adults	50.9	42				Moderate	37 [28-47]	
2017 Mendelson ¹⁰⁸	Self-report	North America	Retrospective	5107	Adults	52.6	49				Moderate	31 [30-32]	
2017 Pompili ¹⁰⁹	Researcher-administered questionnaire	Europe	Prospective	112	Adults	51.4	51				Moderate	25 [18-34]	
2018 Balp ¹¹⁰	Self-report	Europe	Retrospective	7857	Adults	47.9	53				Moderate	30 [29-31]	
2018 Gordon ¹¹¹	Self-administered questionnaire	International	Prospective	992	Adults	43.5	30	21.8	17.8		Low	19 [17-22]	
2018 Innamorati ¹¹²	Self-administered questionnaire	Europe	Prospective	50	Adults	42.0	44	4.6	16.4		High	22 [13-35]	2.1 [0.7-6.1]
2018 Madrid Alvarez ¹¹³	Self-administered questionnaire	Europe	Prospective	111	Adults	48.9	59	2.0	28.0		Moderate	32 [24-41]	

2018 Romiti ¹¹⁴	Self-administered questionnaire	South America	Prospective	1125	Adults		47					Moderate	39 [36-42]	
2019 Alariny ¹¹⁵	Self-administered questionnaire	Africa	Prospective	220	Adults	36.1	50		4.0			Moderate	54 [47-61]	1.8 [1.2-2.6]
2019 Deveci ¹¹⁶	Self-administered questionnaire	Europe	Prospective	37	Adults	42.0	70					High	43 [29-59]	1.8 [0.7-4.7]
2019 Jin ¹¹⁷	Self-administered questionnaire	Asia	Prospective	85	Adults	48.7	37	13.8	10.0			Moderate	15 [9-24]	
2019 Leman ¹¹⁸	Self-administered questionnaire	Europe	Prospective	132	Adults	45.2	37			24.0		Low	46 [38-55]	
2019 Lopes ¹¹⁹	Self-administered questionnaire	South America	Prospective	188	Adults	48.0	52			33.0	24	Low	32 [26-39]	
2019 Martinez-Ortega ¹²⁰	Self-administered questionnaire	Europe	Prospective	70	Adults	48.9	59		18.6	30.4		Moderate	51 [40-63]	5.1 [2.7-9.7]
2019 Nearchou ¹²¹	Self-administered questionnaire	Europe	Prospective	76	Adults							High	30 [21-41]	
2019 Reich ¹²²	Self-administered questionnaire	International	Prospective	992	Adults	43.5	30	21.8	17.8			Moderate	39 [36-42]	

2019 Sampogna ¹²³	Self-administered questionnaire	International	Prospective	518	Adults	44.5					Moderate	48 [44-53]
2019 Yang ¹²⁴	Self-administered questionnaire	Asia	Prospective	133	Adults	46.5	37	13.4	10.0		Low	17 [11-24]
2019 Zhang ¹²⁵	Self-administered questionnaire	Asia	Prospective	245	Adults		42	18.3			Moderate	61 [55-67]
Anxiety without other details												
2016 Luca ³³	Unknown	Europe	Prospective	102	Adults	48.7	50	6.0		41	Moderate	5 [2-11]
Obsessive-Compulsive Disorder												
2005 Demet ¹²⁶	Interview	Middle East	Prospective	9	Adults						High	11 [2-43]
2006 Consoli ²⁹	Interview	Europe	Prospective	93	Adults	47.9	48	7.1	18.5		Moderate	4 [2-11]
2017 Sorour ⁵²	Interview	Africa	Prospective	300	Adults		44				Moderate	3 [1-5]
2019 Kara ²⁶	Interview	Middle East	Prospective	54	Children	10.7	48		3.0	7.6	Moderate	9 [4-20] <i>5.4 [0.6-47.9]</i>
2019 Leisner ³⁶	Medical records	Europe	Retrospective	13 675	Children and adults		50				Low	0 [0-0] <i>1.1 [0.4-2.7]</i>

Age (Age), PASI score (PASI), psoriasis duration (Duration) and age at psoriasis onset (Age onset) of patients included in each studies are presented as mean when available.

Female and Psoriatic Arthritis are proportion (in percentage) of included patients.

Obsessive Compulsive Disorder was no longer classified among anxiety disorders in the DSM5 but we nevertheless elected to include in our analysis studies as it was used in previous versions of the DSM (Diagnostic and Statistical Manual of Mental Disorders).

OR: Odds ratio was determined for study with healthy participant comparison.

Prevalence and OR in italic are studies excluded from the corresponding meta-analyses because of heterogeneity or risk of publication bias.