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Table SI. Terms and search strategy used in the international databases

#	Terms related to the disease
1	“Dermatitis, atopic” [Mesh]
2	“Atopic dermatitis”
3	“Atopic eczema”
	Terms related to pruritus
4	“Pruritus” [Mesh]
5	Pruritus
6	Itch
7	Itching
	Terms related to health outcomes
8	"Quality of Life"[Mesh]
9	“Quality of life”
10	"Health Related Quality of Life"
11	“HRQoL”
12	“QoL”
13	“Patient reported outcome*”
14	“Patient related outcome*”
15	“PROs”
16	“PRO”
17	Sleeplessness
18	“Sleep disturbance*”
19	“Sleep disorder*”
20	“sleep quality”
21	Insomnia
22	Productivity
23	“WPAI”
24	“Activities of Daily Living”[Mesh]
25	“Activities of Daily Living”
26	“ADL”
27	“Activity impairment”

28 Emotions[Mesh]
29 Emotion*
30 Anxiety
31 Depression[Mesh]
32 Depression

Terms related to measuring tools

33 "surveys and questionnaires"[MeSH]
34 survey
35 questionnaire
36 Index
37 Indicator
38 Instrument
39 Scale
40 "Measure*"
41 score
42 "Patient reported outcomes measure*"
43 "PROM*"
44 "Patient Outcome Assessment"

Search strategy for Pubmed/Medline

(#1 OR #2 OR #3) AND (#4 OR #5 OR #6 OR #7) AND (#8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44)

("Dermatitis, atopic"[Mesh] OR "Atopic dermatitis"[tiab] OR "Atopic eczema"[tiab]) AND (Pruritus[Mesh] OR Pruritus[ti] OR Itch[ti] OR Itching[ti]) AND ("Quality of Life"[Mesh] OR "Quality of life" OR "Health Related Quality of Life" OR "HRQoL" OR "QoL" OR "Patient reported outcome*" OR "Patient related outcome*" OR "PROs" OR "PRO" OR Sleeplessness OR "Sleep disturbance*" OR "Sleep disorder*" OR "sleep quality" OR Insomnia OR Productivity OR "WPAI" OR "Activities of Daily Living"[Mesh] OR "Activities of Daily Living" OR "ADL" OR "Activity impairment" OR Emotions[Mesh] OR Emotion* OR Anxiety OR Depression[Mesh] OR depression OR "surveys and questionnaires"[MeSH] OR survey OR questionnaire OR Index OR Indicator OR Instrument OR Scale OR "Measure*" OR Score OR "Patient reported outcomes measure*" OR "PROM*" OR "Patient Outcome Assessment")

Search strategy for Scopus

(#2 OR #3) AND (#6 OR #7 OR #8) AND (#10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #26 OR #27 OR #28 OR #30 OR #31 OR #33 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45)
TITLE-ABS("Atopic dermatitis" OR "Atopic eczema") AND TITLE(Pruritus OR Itch OR Itching) AND ("Quality of Life" OR "Health Related Quality of Life" OR "HRQoL" OR "QoL" OR "Patient reported outcome*" OR "Patient related outcome*" OR "PROs" OR "PRO" OR Sleeplessness OR "Sleep disturbance*" OR "Sleep disorder*" OR "sleep quality" OR Insomnia OR Productivity OR "WPAI" OR "Activities of Daily Living" OR "ADL" OR "Activity impairment" OR Emotion* OR Anxiety OR Depression OR survey OR questionnaire OR Index OR Indicator OR Instrument OR Scale OR "Measure*" OR score OR "Patient reported outcomes measure*" OR "PROM*" OR "Patient Outcome Assessment")

Table SII. Terms and search strategy used in the Spanish databases

#	Terms related to the disease
1	Dermatitis atópica
2	Eczema atópico
	Terms related to pruritus
3	Pruritus
4	Picor
	Terms related to health outcomes
5	Calidad de vida
6	CVRS
7	Actividades cotidianas
8	Actividades diarias
9	Actividades vida diaria
10	sueño
11	Insomnio
12	Ansiedad
13	Depresión
	Terms related to measuring tools
33	Cuestionario
34	Indicador
35	Instrumento
36	Escala
37	Medida
38	Puntuación
	Search strategy for IBECS
	#2 AND (#3 OR #4) AND (#5 OR #6 OR #7 OR #8 OR #9 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR 21)
	“Eczema Atopico” AND (prurito OR picor) AND (“calidad de vida” OR CVRS OR “patient-reported outcomes” OR productividad OR ACTIVIDADESCOTIDIANAS OR ACTIVIDADESDIARIAS OR sueño OR insomnio OR ansiedad OR depresión OR cuestionario OR indicador OR instrumento OR escala OR medida OR puntuación)
	Search strategy for MEDES
	#1 AND (#3 OR #4)
	“Dermatitis atópica” AND (prurito OR picor)

Table SIII. Main characteristics of the reviewed studies evaluating the impact of pruritus on HRQoL

Author, year	Country	Study population (<i>N</i>, <i>pathology</i>)	Study design	Evaluation of pruritus impact	Tools used	Evaluated dimensions	Methodologic evaluation (STROBE)	Evidence level (OCEBM)
Chee, A. et al. 2020 (1)	Switzerland	Adults with AD and other pathologies N = 126; AD (18.3%)	Observational, cross-sectional	Direct evaluation	Specific pruritus questionnaire (ad-hoc)	Global HRQoL; sleep quality; emotional domain	14/22 (63.6%)	4
Gwillin, E. et al. 2021 (2)	United States	Adults with AD and other pathologies N = 120; AD (67.5%)	Observational, cross-sectional	Direct evaluation	Itch-specific HRQoL questionnaire for patients with pruritus (ItchyQoL)	Sleep quality; emotional domain	12/22 (54.5%)	4
Hawro, T. et al. 2021 (3)	Germany	Adults with AD and other pathologies N = 800; AD (16.1%)	Observational, cross-sectional	Indirect evaluation: correlation between pruritus intensity and HRQoL	Generic HRQoL questionnaires (SF-12) and itch-specific HRQoL questionnaire for patients with pruritus (ItchyQoL)	Global HRQoL; sleep quality; emotional domain; sexuality; productivity	16/22 (72.7%)	4

Steinke, S. et al. 2018 (4)	9 European countries	Adults with AD and other pathologies N = 552; AD (29.3%)	Observational, cross-sectional	Direct evaluation	Itch-specific HRQoL questionnaire for patients with pruritus (ItchyQoL)	Global HRQoL; emotional domain	16/22 (72.7%)	4
Huet, F. et al. 2019 (5)	France	AD N= 170 (age not specified)	Observational, cross-sectional	Direct evaluation	Itch-specific HRQoL questionnaire for patients with pruritus (5-D itch)	Global HRQoL; sleep quality	13/22 (59.1%)	4
Kaaz, K. et al. 2019 (6)	Poland	Adults with AD and other pathologies N = 250; AD (40%)	Observational, cross-sectional	Indirect evaluation: correlation between pruritus intensity and HRQoL	Specific HRQoL questionnaire for patients with dermatologic pathologies (DLQI)	Global HRQoL; sleep quality	15/22 (68.2%)	4
Lavery, M. et al. 2017 (7)	United States	AD and other pathologies N = 160; AD (18.8%) (age not specified)	Observational, cross-sectional	Direct evaluation of sleep quality and indirect evaluation: correlation between pruritus	Itch-specific HRQoL questionnaires for patients with pruritus (ItchyQoL y the itch questionnaire)	Global HRQoL; sleep quality; emotional domain physical functioning	14/22 (63.6%)	4

				intensity and HRQoL				
Stander, S. et al. 2019 (8)	United States	AD N = 1522 (all ages)	Clinical trial post-hoc analysis	Indirect evaluation: correlation between pruritus intensity and HRQoL	Specific HRQoL questionnaires for patients with dermatologic pathologies (DLQI, CDLQI and DFI)	Global HRQoL	NA	3
Dalgard F. et al. 2020 (9)	13 European countries	Adults with AD and other pathologies N = 3635; AD (4.5%)	Observational, cross- sectional	Indirect evaluation: comparison of HRQoL between patients with and without itch	Generic HRQoL questionnaire (EQ5D-VAS)	Global HRQoL; emotional domain	18/22 (81.8%)	4
Simpson, EL et al. 2021 (10)	United States	AD N = 1522 (all ages)	Clinical trial post-hoc analysis	Indirect evaluation: modelling effect intensity of pruritus on HRQoL	Specific HRQoL questionnaires for patients with dermatologic pathologies (DLQI y CDLQI)	Global HRQoL	NA	3

AD: atopic dermatitis; CDLQI: Children's Dermatology Life Quality Index; DFI: Dermatitis Family Impact; DLQI: Dermatology Life Quality Index; EQ5D-VAS: European Quality of Life-5 Dimensions-Visual Analogue Scale; HRQoL: health-related quality of life; NA: not available

OCEBM evidence levels: level 1: systematic review; level 2: randomised clinical trial; level 3: cohort study; level 4; case-control study; level 5: case report

Table SIV. Main characteristics of the tools used to assess the impact of pruritus on HRQoL identified in the review

Tool	Tool validation study	Tool identification study	Population	Number of dimensions	Dimensions	Items (n)	Answer options
ItchyQoL	Desai, NS. Et al. (11)	Egeberg, A. et al. (12); Erickson, S. et al. (13); Jang, YH. et al. (14); Lei, D. et al. (15); Udkoff, J. et al. (16); Vakharia, PP. et al. (17,18)	Chronic pruritus	5	Sleep quality, emotional/coping, physical function/daily activities, social, productivity	22	5-point Likert scale (frequency, impact level)
5-D itch scale	Elman, S. et al. (19)	Egeberg, A. et al. (12); Erickson, S. et al. (13); Lei, D. et al.(15); Udkoff, J. et al. (16); Vakharia, PP. Et al. (17,18)	Chronic pruritus	4	Sleep quality, physical function/daily activities, social, productivity	8	5-point Likert scale (frequency)
Itch Severity Scale	Majeski, CJ. Et al. (20)	Bruscky, MV. Et al. (21); Flores-Huachez, DCR. et al. (22); Jang, YH. et al. (14); Spuls,	Dermatologic pathologies (e.g., psoriasis and AD)	3	Sleep quality, emotional/coping, sexual	7	Single or multiple answer, 3-point Likert scale

		PI. et al. (23); Vakharia, PP. et al. (17)					
Eppendorf Pruritus Questionnaire	Darsow, U. et al. (24)	Darsow, U. et al. (24)	AD	1	Emotional/coping	137	5-point Likert scale (agreement)
Itch Cognitions Questionnaire	Heckman, CJ. Et al. (25)	Heckman, CJ. Et al. (25)	Dermatologic pathologies (e.g., psoriasis and AD)	1	Emotional/coping	20	5-point Likert scale (frequency)
Scratch Intensity and Impact Scale	Heckman, CJ. Et al. (26)	Heckman, CJ. Et al. (26)	Dermatologic pathologies (e.g., psoriasis and AD)	4	Sleep quality, emotional/coping, physical function/daily activities, productivity	13	5-point Likert scale (frequency)
Sleep-Related Itch and Scratch Scale	Heckman, CJ. Et al. (26)	Heckman, CJ. Et al. (26)	Dermatologic pathologies (e.g., psoriasis and AD)	1	Sleep quality	16	5-point Likert scale (frequency)
Atopic dermatitis itch scale	Martin, SA. (27)	Martin, SA. (27)	AD	1	Sleep quality	8	4-point Likert scale (impact level)
PROMIS Itch Questionnaire	Silverberg, JI. Et al. (28)	Silverberg et al. (28,29)	Chronic pruritus	6	Sleep quality, emotional/coping, physical function/daily activities, social, sexual, productivity	63	5-point Likert scale (frequency, agreement)

Chronic Itch Burden Scale	Theunis, J. et al. (30)	Theunis, J. et al. (30)	Chronic pruritus in dermatologic pathologies	5	Sleep quality, emotional/coping, physical function/daily activities, social, productivity	20	5-point Likert scale (impact level)
12-Item Pruritus Severity Scale	Reich, A. et al. (31)	Reich, A. et al. (31)	Chronic pruritus	3	Emotional/coping, physical function/daily activities, productivity	12	Agreement: Yes/ No
Severity of Pruritus Scale	Yosipovitch, G. et al. (32)	Yosipovitch, G. et al. (32)	AD	1	Sleep quality	1	Severity scale (4 levels)

AD: atopic dermatitis; PROMIS: Patient-Reported Outcome Measure Information System

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