Suppl. Table 4. Characteristics of patient-reported outcome measures

INSTRUMENT NAME (ACRONYM)	PSYCHOMETRIC STUDIES	Instrument Development Paper	Instrument Language(s) Available	INSTRUMENT SUMMARY	SCORING METHOD		
Psoriasis-Specific Measures							
Children's Scalpdex in Psoriasis (CSP)	Oostveen et al. [17]	Oostveen et al. [17]	Dutch English	Measurement of patient-reported experiences with pediatric scalp psoriasis. Based on the patient-reported outcomes questionnaire for adults, Scalpdex ^a 22-item instrument composed of 3 major constructs: symptoms, functioning, and emotions. All items enquire about patient's experience in the last 4 weeks Patients aged 6–12 may complete questionnaire with the assistance of a parent or guardian	Each item scored on a 5-point Likert scale ("never" = 0, "rarely" = 25, "sometimes" = 50, "often" = 75, "all the time" = 100) Item 19, "I feel that my knowledge about caring for my scalp psoriasis is adequate," is reversed scored Global score is equal to the mean of responses to all items Lower scores are representative of better quality of life		
Simplified Psoriasis Index (SPI)	Van Geel et al. [18]	Chularojanamontri et al. ^b	Dutch English	Measurement of patient-reported experiences with pediatric psoriasis. Consists of a Dutch translation of the saSPI questionnaire ^b for adults with psoriasis with slight modifications to increase comprehension in children Composed of 3 sections: saSPI-s measures patient-reported disease severity by 10 anatomical locations SPI-p measures psychosocial impact according to a visual analog scale SPI-i measures history and interventions according to 4 items on disease course and 6 items on previous treatments Patients may complete questionnaire with the assistance of a parent or guardian	Global scores calculated for each independent domain: saSPI-s domain score (range 0–50) is calculated by multiplying a composite psoriasis extent score (range 0–10) by an overall average severity score (range 0–5). Composite psoriasis extent score rated on a 3-point scale (0 = absent or minimal, 0.5 = noticeable, 1 = extensive) for each body area, with extra weight given to scalp, face, hands, feet, and anogenital skin. Higher scores indicate greater disease severity SPI-p domain score (range 0–10) calculated on a 0–10 Likert scale derived from a 10-cm visual analog scale. Higher scores indicate larger psychosocial impact SPI-i domain score (range 0–10) calculated by adding summing scores across items. Higher scores indicate more extensive treatment history		

DERMATOLOGY-SPEC	IFIC MEASURES					
Children's Dermatology Life Quality Index (CDLQI)	Oostveen et al. [21] De Jager et al. [22]	Lewis-Jones M.S. and Finlay A.Y. ^c	Afrikaans Arabic Bahasa Cantonese	Japanese Korean Latvian Norwegian	Measure of patient-reported psychosocial impact of pediatric psoriasis, ages 4–16 years	Each item scored on a 4-point Likert scale ("not at all" = 0, "only a little" = 1, "quite a lot" = 2, "very much" = 3)
Children's Dermatology Life Quality Index (CDLQI) Swedish version	Van Geel et al. [22] Van Geel et al. [23] Ganemo et al. [24]		Chinese Chinese Croatian Czech Danish Dutch English Estonian Filipino Finish French German Greek Hebrew Hindi Hungarian Italian	Persian Polish Portuguese Romanian Russian Slovak Serbian Spanish Swedish Taiwanese Thai Turkish Twi Ukranian Yoruba	10-item questionnaire with 6 domains: Symptoms and feelings (items 1 and 2) Leisure (items 4–6) School or holidays (item 7) Personal relationships (items 3 and 8) Sleep (item 9) Treatment (item 10)	Global score (range 0–30) is calculated by summing individual item scores Domain scores may also be calculated: Symptoms and feelings (0–6) Leisure (0–9) School or holidays (0–3) Personal relationships (0–6) Sleep (0–3) Treatment (0–3) Severity banding (effect on child's life) is assigned for the following scores ^d : 0–1 = no effect 2–6 = small effect 7-12 = moderate effect 13–18 = very large effect 19–30 = extremely large effect Interpretation of incorrectly completed items: If one question unanswered, assign score of 0 to that item If ≥2 questions unanswered, questionnaire is not scored If both parts of question 7 completed, count the higher of the two scores
Children's Dermatology Life Quality Index (CDLQI) English version	Langley et al. [25]					

Children's Dermatology Life Quality Index (CDLQI) Cartoon version	Langley et al. [25]	Holme et al.e	Afrikaans Bahasa Danish Dutch English French	German Hungarian Italian Japanese Romanian	Measure of patient-reported psychosocial impact of pediatric psoriasis. Identical to original CDLQI developed by Lewis-Jones and Finaly ^c with addition of graphics to improve comprehension in younger children	Each item scored on a 4-point Likert scale ("not at all" = 0, "only a little" = 1, "quite a lot" = 2, "very much" = 3) Global score (range 0–30) is calculated by summing individual item scores
					10-item questionnaire with 6 domains: Symptoms and feelings (items 1 and 2) Leisure (items 4–6) School or holidays (item 7) Personal relationships (items 3 and 8) Sleep (item 9) Treatment (item 10) Patients aged 4–7 may complete questionnaire with the assistance of a parent or guardian	Domain scores may also be calculated: Symptoms and feelings (0–6) Leisure (0–9) School or holidays (0–3) Personal relationships (0–6) Sleep (0–3) Treatment (0–3) Severity banding (effect on child's life) is assigned for the following scores ^d : 0–1 = no effect 2–6 = small effect 7–12 = moderate effect 13–18 = very large effect 19–30 = extremely large effect Interpretation of incorrectly completed items: If one question unanswered, assign score of 0 to that item If ≥2 questions unanswered, questionnaire is not scored If both parts of question 7 are completed, count the higher of the two scores

Pediatric Quality of	Langley et al. [25]	Varni et al.f	Afrikaans	Konkani	Measure of patient-reported health-related	Each item is administered on a 5-point Likert
Life Inventory	Langley et al. [23]	varni et al.	Arabic	Korean	quality of life in both healthy and ill children	scale ("never" = 0, "almost never" = 1,
(PedsQL)			Belarusian	Latvian	and adolescents. Designed to measure core	"sometimes" = 2, "often" = 3, "almost always" =
(T cusQL)			Bengali	Lithuanian	dimensions defined by the World Health	4). Each item is then reverse scored, transforming
			Bosnian	Malay	Organization with the addition of role	the 0–4 scale to a 0–100 scale (0 = 100, 1 = 75, 2
			Bulgarian	Marathi	functioning (school)	= 50, 3 = 25, 4 = 0)
			Cantonese	Norwegian	<i>g</i> (11 11)	,,
			Catalan	Polish	23-item questionnaire with 4 subscales:	Physical functioning summary score is calculated
			Chinese	Portuguese	Physical functioning (8 items)	as the sum of all items over the number of items
			(Mandarin)	Romanian	Emotional functioning (5 items)	answered in the physical functioning scale
			Croatian	Russian	Social functioning (5 items)	
			Czech	Serbian	School functioning (5 items)	Psychosocial health summary score is calculated
			Danish	Sesotho		as the sum of all items over the number of items
			Dutch	S'gaw	Four age-specific versions available: age 4,	answered in the emotional, social, and school
			English	Karen	ages 5–7, ages 8–12, and ages 13–17	functioning scales
			Estonian	Sinhalese		Total scale score is calculated by dividing the sun
			Farsi	Slovak	Two administration formats available:	of all items over the number of items answered
			Finnish	Slovenian	The Child Self-Report	70 70 1
			French	Spanish	The Parent Proxy Report	If >50% of items are missing, the scale score is
			Galician	Swedish		not calculated
			Georgian	Tagalog Tamil		Highan sagnes indicate botton boolth valeted quality
			German Greek			Higher scores indicate better health-related quality of life
			Hebrew	Telugu Thai		of file
			Hiligaynon	Tongan		
			Hindi	Turkish		
			Hungarian	Ukranian		
			Indonesian	Urdu		
			Italian	Welsh		
			Japanese	Xhosa		
			Kinyarwanda	Zulu		

saSPI-s, self-assessment Simplified Psoriasis Index – current severity domain; SPI-p, Simplified Psoriasis Index – psychosocial impact domain; SPI-I, Simplified Psoriasis Index – history and intervention domain.

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^bChularojanamontri L, Griffiths CE, Chalmers RJ: The Simplified Psoriasis Index (SPI): a practical tool for assessing psoriasis. J Invest Dermatol 2013;133:1956–1962.

Lewis-Jones MS, Finlay AY: The Children's Dermatology Life Quality Index (CDLQI): initial validation and practical use. Br J Dermatol 1995;132:942–949.

^dWaters A, Sandhu D, Beattie P, Ezughah F, Lewis-Jones S: Severity stratification of Children's Dermatology Life Quality Index (CDLQI) scores. Br J Dermatol 2010;163:121.

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