Dermatology Practical & Conceptual

Supplementary File

Table S1. Literature Search Strategy.

Database	Search Strategy
PubMed (NIH/NLM)	1. ("Dermatitis, Seborrheic"[Mesh] OR "Dandruff"[Mesh] OR "seborrheic dermatitis"[tiab] OR "seborrheic eczema"[tiab] OR "seborrhic dermatitis"[tiab] OR "seborrhoeic dermatitis"[tiab] OR "seborrhoeic eczema"[tiab] OR "seborrhoic dermatitis"[tiab] OR "seborrhoic eczema"[tiab] OR "dermatitis seborrheica"[tiab] OR "eczema seborrhoicum"[tiab] OR "cradle cap"[tiab] OR "milk crust"[tiab] OR "crusta lactea"[tiab] OR dandruff[tiab] OR scruff[tiab]) 2. ("Quality of Life"[Mesh] OR "Well-Being"[Mesh] OR "Health Status Indicators"[Mesh] OR "quality of life"[tiab] OR "well-being"[tiab] OR "wellness"[tiab] OR "health-related quality of life"[tiab] OR "life satisfaction"[tiab] OR "distress"[tiab] OR "self-esteem"[tiab] OR QOL[tiab] OR HRQOL[tiab] OR DLQI[tiab] OR CDLQI[tiab] OR Skindex[tiab] OR health*[tiab] OR function*[tiab] OR "health utility index"[tiab] OR HUI[tiab]) 3. #1 AND #2 4. #3 AND(english[lang])
Scopus (Elsevier)	1. ("seborrheic dermatitis" OR "dandruff" OR "seborrheic eczema" OR "seborrhic dermatitis" OR "seborrhoeic dermatitis" OR "seborrhoeic eczema" OR "seborrhoic dermatitis" OR "seborrhoic eczema" OR "dermatitis seborrheica" OR "eczema seborrhoicum" OR "cradle cap" OR "milk crust" OR "crusta lactea" OR dandruff OR scruff) 2. ("quality of life" OR "well-being" OR "wellness" OR "health-related quality of life" OR "life satisfaction" OR "distress" OR "self-esteem" OR QOL OR HRQOL OR DLQI OR CDLQI OR Skindex OR health* OR function* OR "health utility index" OR HUI) 3. #1 AND #2 4. #3 AND (LIMIT-TO(LANGUAGE, "English")) AND (EXCLUDE(DOCTYPE, "cp"))
Embase (Elsevier)	1. ('seborrheic dermatitis'/exp OR 'dandruff'/exp OR 'seborrheic dermatitis':ti,ab OR 'seborrheic eczema':ti,ab OR 'seborrhic dermatitis':ti,ab OR 'seborrhoeic dermatitis':ti,ab OR 'seborrhoeic eczema':ti,ab OR 'seborrhoic dermatitis':ti,ab OR 'seborrhoic eczema':ti,ab OR 'dermatitis seborrheica':ti,ab OR 'eczema seborrhoicum':ti,ab OR 'cradle cap':ti,ab OR 'milk crust':ti,ab OR 'crusta lactea':ti,ab OR dandruff:ti,ab OR scruff:ti,ab) 2. ('quality of life'/exp OR 'well-being'/exp OR 'wellness'/exp OR 'health-related quality of life'/exp OR 'life satisfaction'/exp OR 'distress'/exp OR 'self-esteem'/exp OR QOL:ti,ab OR HRQOL:ti,ab OR DLQI:ti,ab OR CDLQI:ti,ab OR Skindex:ti,ab OR 'health*':ti,ab OR 'function*':ti,ab OR 'health utility index':ti,ab OR HUI:ti,ab) 3. #1 AND #2 4. #3 AND ([english]/lim) NOT ([conference abstract]/lim)
Cumulated Index in Nursing and Allied Health Literature (CINAHL)	1. (Seborrheic Dermatitis OR Dandruff OR "seborrheic dermatitis" OR "seborrheic eczema" OR "seborrhic dermatitis" OR "seborrhoeic dermatitis" OR "seborrhoeic eczema" OR "seborrhoic dermatitis" OR "seborrhoic eczema" OR "dermatitis seborrheica" OR "eczema seborrhoicum" OR "cradle cap" OR "milk crust" OR "crusta lactea" OR dandruff OR scruff) 2. ("quality of life" OR "well-being" OR "wellness" OR "health-related quality of life" OR "life satisfaction" OR "distress" OR "self-esteem" OR QOL OR HRQOL OR DLQI OR CDLQI OR Skindex OR health* OR function* OR "health utility index" OR HUI) 3. #1 AND #2 4. #3 (Limiters - English Language) NOT (Limiters - Conference Abstract)

Table S1 continues

Table S1. Literature Search Strategy. *(continued)*

Database	Search Strategy
Cochrane Database of Systemic Reviews (Wiley)	1. ("seborrheic dermatitis" OR "dandruff" OR "seborrheic eczema" OR "seborrhic dermatitis" OR "seborrhoeic dermatitis" OR "seborrhoeic eczema" OR "seborrhoic dermatitis" OR "seborrhoic eczema" OR "dermatitis seborrheica" OR "eczema seborrhoicum" OR "cradle cap" OR "milk crust" OR "crusta lactea" OR dandruff OR scruff) 2. ("quality of life" OR "well-being" OR "wellness" OR "health-related quality of life" OR "life satisfaction" OR "distress" OR "self-esteem" OR QOL OR HRQOL OR DLQI OR CDLQI OR Skindex OR health* OR function* OR "health utility index" OR HUI) 3. #1 AND #2 4. #3 AND (LIMIT-TO(LANGUAGE, "English"))

Table S2. Studies included in final analysis.

Number	Reference
1	Kondoh A, Ohta Y, Yamamoto K, et al. Feasibility of modified DLQI-based questionnaires for evaluation of clinical efficacy of herbal medicine in chronic skin diseases. *Tokai J Exp Clin Med*. 2005;30(2):97-102. PMID: 16146199.
2	Peyrí J, Lleonart M; Grupo español del Estudio SEBDERM. Perfil clínico, terapéutico y calidad de vida de los pacientes con dermatitis seborreica [Clinical and therapeutic profile and quality of life of patients with seborrheic dermatitis]. *Actas Dermosifiliogr*. 2007;98(7):476-482. PMID: 17669302
3	Lorette G, Ermosilla V. Clinical efficacy of a new ciclopiroxolamine/zinc pyrithione shampoo in scalp seborrheic dermatitis treatment. *Eur J Dermatol*. 2006;16(5):558-564. PMID: 17101479
4	Szepietowski JC, Reich A, Wesołowska-Szepietowska E, Baran E; National Quality of Life in Dermatology Group. Quality of life in patients suffering from seborrheic dermatitis: influence of age, gender and education level. *Mycoses*. 2009;52(4):357-363. doi:10.1111/j.1439-0507.2008.01624.x
5	Pärna E, Aluoja A, Kingo K. Quality of life and emotional state in chronic skin disease. *Acta Derm Venereol*. 2015;95(3):312-316. doi:10.2340/00015555-1920
6	Sampogna F, Linder D, Piaserico S, et al. Quality of life assessment of patients with scalp dermatitis using the Italian version of the Scalpdex. *Acta Derm Venereol*. 2014;94(4):411-414. doi:10.2340/00015555-1731
7	Seité S, Paries J, Reygagne P, et al. A lipohydroxyacid-containing shampoo improves scalp condition and quality of life in patients with seborrheic dermatitis and light-to-moderate scalp psoriasis. *J Cosmet Dermatol*. 2009;8(2):108-113. doi:10.1111/j.1473-2165.2009.00431.x
8	Kosaraju SK, Reddy KS, Vadlamani N, et al. Psychological Morbidity Among Dermatological Patients in a Rural Setting. *Indian J Dermatol*. 2015;60(6):635. doi:10.4103/0019-5154.169140
9	Araya M, Kulthanan K, Jiamton S. Clinical Characteristics and Quality of Life of Seborrheic Dermatitis Patients in a Tropical Country. *Indian J Dermatol*. 2015;60(5):519. doi:10.4103/0019-5154.164410
10	Abbas Z, Ghodsi SZ, Abedeni R. Effect of itraconazole on the quality of life in patients with moderate to severe seborrheic dermatitis: a randomized, placebo-controlled trial. *Dermatol Pract Concept*. 2016;6(3):11-16. Published 2016 Jul 31. doi:10.5826/dpc.0603a04
11	de Souza Leão Kamamoto C, Sanudo A, Hassun KM, Bagatin E. Low-dose oral isotretinoin for moderate to severe seborrhea and seborrheic dermatitis: a randomized comparative trial. *Int J Dermatol*. 2017;56(1):80-85. doi:10.1111/ijd.13408
12	Moodley N, Hoosen K, Dlova NC. Quality of life in patients with seborrhoeic dermatitis in KwaZulu-Natal, South Africa. *S Afr Med J*. 2016;106(5):428. doi:10.7196/samj.2016v106i5.10551
13	Sanclemente G, Burgos C, Nova J, et al. The impact of skin diseases on quality of life: A multicenter study. *Actas Dermosifiliogr*. 2017;108(3):244-252. doi:10.1016/j.ad.2016.11.008

Number	Reference
14	Zhao J, Sun W, Zhang C, et al. Comparison of different regimens of pimecrolimus 1% cream in the treatment of facial seborrheic dermatitis. *J Cosmet Dermatol*. 2018;17(1):90-94. doi:10.1111/jocd.12353
15	Agustin T, Rahmayunita G, Astriningrum R, Miranda E, Pusponegoro EHD, Widaty S. Quality of life assessment in patients with dandruff and scalp seborrheic dermatitis at a tertiary hospital in Indonesia. *Iran J Dermatol*. 2019;22(1):13-17. doi:10.22034/ijd.2019.99198
16	Alipour A, Oraki M, Zarghami M, Mollazadeh Mahally G. Comparative effectiveness of cognitive-behavioral group therapy and reality therapy on the quality of life of patients with seborrheic dermatitis. *J Nurs Midwifery Sci*. 2019;7(1):36-41. doi:10.4103/jnms.jnms_36_19
17	Xuan M, Lu C, He Z. Clinical characteristics and quality of life in seborrheic dermatitis patients: a cross-sectional study in China. *Health Qual Life Outcomes*. 2020;18(1):308. Published 2020 Sep 16. doi:10.1186/s12955-020-01558-y
18	Chernyshov PV, Vozianova SV, Chubar OV. Quality of Life of Infants, Toddlers and Preschoolers with Seborrhoeic, Allergic Contact and Atopic Dermatitis Before and During COVID-19 Pandemic. *Dermatol Ther (Heidelb)*. 2021;11(6):2017-2026. doi:10.1007/s13555-021-00617-6
19	Ozcan Y, Sungur MA, Ozcan BY, Eyup Y, Ozlu E. The Psychosocial Impact of Chronic Facial Dermatoses in Adults. *Dermatol Pract Concept*. 2023;13(1):e2023029. Published 2023 Jan 1. doi:10.5826/dpc.1301a29
20	Wang HC, Wang CS, Hsieh SC, Hung YT, Chen HH. Evaluation of a new-formula shampoo containing 6% glycyrrhetinic acid complex for scalp seborrheic dermatitis: A pilot study. *J Cosmet Dermatol*. 2022;21(8):3423-3430. doi:10.1111/jocd.14623
21	Parasramani SG, Vishwanath V, Ghia D, Gandhi MR, Dhoot D, Barkate H. Prospective, Open-Label, Multi-Centre, Randomized Study to Compare the Effectiveness, Safety, and Tolerability of Lulican™ Shampoo Versus Ketoconazole Shampoo in Indian Adult Patients With Mild to Moderate Scalp Seborrheic Dermatitis (LEAD Study). *Cureus*. 2022;14(11):e32035. Published 2022 Nov 30. doi:10.7759/cureus.32035
22	Svyatenko TV, Starostina OA, Zakharov SV, Solovyiova SV. The results of using blue cap® foam for skin care with signs of xerosis. *Medicni Perspektivi*. 2022;27(4):177-184. doi:10.26641/2307-0404.2022.4.271220
23	Barbosa V, Melo DF, Vañó-Galván S, Lutchmanen-Kolanthan V, Sant'Anna B, Leclerc-Mercier S, Reygagne P. A comparative randomized clinical study assessing the efficacy of a 1% selenium disulfide-based shampoo versus 2% ketoconazole shampoo in subjects with moderate to severe scalp seborrheic dermatitis. *Skin Appendage Disord*. 2024. doi:10.1159/000539209.
24	Blauvelt A, Draelos ZD, Stein Gold L, et al. Roflumilast foam 0.3% for adolescent and adult patients with seborrheic dermatitis: A randomized, double-blinded, vehicle-controlled, phase 3 trial. *J Am Acad Dermatol*. 2024;90(5):986-993. doi:10.1016/j.jaad.2023.12.065
25	Chan CS, Smith T, He Z, Garter C. The Sequelae and Moderators of Influence of Dandruff on Mental Health Among Mainland Chinese Adults. *Clin Cosmet Investig Dermatol*. 2024;17:1333-1346. Published 2024 Jun 11. doi:10.2147/CCID.S459498
26	Grimalt R, Skayem C, Mengeaud V, et al. Large-scale international study on scalp seborrheic dermatitis: Prevalence, demographics, healthcare trends and quality of life. *J Eur Acad Dermatol Venereol*. Published online July 2, 2024. doi:10.1111/jdv.20194

Table S3. Joanna Briggs Institute (JBI) Critical Appraisal of Included Randomized Controlled Trials (A), Quasi-Experimental Studies (B), and Cross-Sectional Studies (C).

JBI Critical Appraisal: Randomized Controlled Trials															
Study	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	% Yes	Risk (level of bias)
Zhao et al., 2017	Y	N	Y	N	U	Y	Y	Y	Y	Y	Y	Y	Y	77%	Low
Kamamoto et al., 2016	Y	U	Y	U	U	Y	U	Y	Y	Y	Y	Y	Y	69%	Moderate
Parasramani et al., 2022	Y	U	Y	U	U	Y	U	Y	Y	Y	Y	Y	N	67%	Moderate
Abbas et al., 2016	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low
Lorette et al., 2006	Y	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	85%	Low
Barbosa et al., 2024	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low
Alipour et al., 2019	Y	N	Y	N	N	Y	Y	Y	Y	Y	Y	U	Y	62%	Moderate
Blauvelt et al., 2024	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low

JBI Critical Appraisal: Quasi-Experimental Studies											
Study	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	% Yes	Risk (level of bias)
Wang et al., 2021	Y	N	Y	Y	Y	Y	Y	Y	Y	89%	Low
Svyatenko et al., 2022	Y	N	U	Y	Y	Y	Y	Y	Y	78%	Low
Kondoh et al., 2004	Y	N	Y	U	Y	Y	Y	Y	U	67%	Moderate

JBI Critical Appraisal: Cross-Sectional Studies										
Study	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	% Yes	Risk (level of bias)
Chan et al., 2024	Y	Y	Y	Y	Y	N	Y	Y	88%	Low
Grimalt et al., 2024	Y	Y	Y	U	N	N	U	Y	50%	Moderate
Chernyshov et al., 2021	Y	Y	Y	Y	Y	N	Y	Y	88%	Low
Sanclemente et al., 2016	Y	Y	Y	Y	Y	Y	N	Y	88%	Low
Moodley et al., 2016	U	Y	Y	Y	N	N	Y	U	50%	Moderate
Araya et al., 2015	Y	Y	Y	Y	N	N	Y	Y	75%	Low
Kosaraju et al., 2014	Y	Y	Y	Y	Y	N	Y	Y	88%	Low
Sampogna et al., 2013	Y	Y	Y	Y	N	N	Y	Y	75%	Low
Ozcan et al., 2021	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low
Xuan et al., 2020	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low
Agustin et al., 2019	Y	Y	Y	Y	Y	Y	Y	Y	100%	Low
Szepietowski et al., 2008	Y	Y	Y	Y	N	N	Y	Y	75%	Low
Pärna et al., 2012	Y	Y	Y	Y	Y	N	Y	Y	88%	Low
Peyrí et al., 2005	Y	Y	Y	Y	N	N	Y	Y	75%	Low

Abbreviations: Y: yes; N: no; U: unclear.