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PsychoDermatology_Meta-analysis_Protocol

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Protocol status: Working

We use this protocol and it's working

Created: January 19, 2026



Last Modified: January 31, 2026

Protocol Integer ID: 238922

Keywords: meta-analysis, systematic review, depression, anxiety, psoriasis, alopecia, urticaria, dermatitis, hidradenitis, anxiety in chronic inflammatory skin disease, chronic inflammatory skin disease, psychodermatology-meta, analysis on prevalence, prevalence, analysis-protocol method

Abstract

Method for a systematic review and meta-analysis on prevalence of depression and anxiety in chronic inflammatory skin disease

Guidelines

Follow PRISMA guidelines

Materials

Database construction (Excel)

Risk of bias tool

Safety warnings

- ! Each selection step must be carried out independently by two people and validated by a third person in case of disagreement.

Ethics statement

Not applicable

Search Strategy

- 1 Medical database =
 - PubMed
 - PsychINFO
 - Science Direct
 - EMBASE
 - Cochrane Database
- 2 Equation
 - 2.1 Dermatological diseases
 - 1) Alopecia areata
 - 2) Atopic dermatitis
 - 3) Bullous pemphigoid
 - 4) Chronic urticaria
 - 5) (Cutaneous lupus erythematosus OR skin-restricted lupus)
 - 6) Hidradenitis suppurativa
 - 7) Pityriasis rubra pilaris
 - 8) Psoriasis
 - 2.2 Psychiatry
 - 9) (depression OR depressive OR anxiety OR anxious OR agoraphobia OR phobia OR panic OR obsessive compulsive OR obsession compulsion OR ocd OR ptsd OR posttraumatic)
 - 2.3 Search

One different equation for each dermatological pathology:

 - 1) AND 9)
 - 2) AND 9)
 - 3) AND 9)
 - 4) AND 9)
 - 5) AND 9)
 - 6) AND 9)
 - 7) AND 9)
 - 8) AND 9)
- 3 Date

31 December 2019

Selection



- 4 Titles and abstracts
Two persons independently
If any disagreement $\Rightarrow$ consensus with a third person
- 5 Full-text
Two persons independently
If any disagreement $\Rightarrow$ consensus with a third person

Eligibility

- 6 Inclusion
 - 6.1 Data on selected dermatological diseases
 - 6.2 Prevalence of depression or anxiety
% or number of patients
clinical diagnosis or according to a questionnaire (% or number of patients higher than threshold)
- 7 Exclusion
 - 7.1 Studies including exclusively psoriatic arthritis patients
 - 7.2 Studies including exclusively systemic lupus patients
 - 7.3 Studies with depression/anxiety scores (means) without prevalence
 - 7.4 Studies including only participants with current psychiatric disorder or excluding patients with known current psychiatric disorder
 - 7.5 Studies including children or adolescents
 - 7.6 Case reports, reviews and books



8 Other

8.1 only abstract available ⇒ request author

8.2 Cohort = incidence = exclusion
included if baseline description with prevalence

8.3 Several articles with the same population = inclusion of the most described
Exclusion of others (duplicate)

8.4 Studies excluding participants with a psychiatric history or with psychotropic drugs use
⇒ Inclusion ⇒
High risk of bias

8.5 Case-control studies
⇒ healthy control ⇒ prevalence patients + OR
⇒ no healthy control (other control) ⇒ prevalence patients only

8.6 All language, all date

Data extraction

9 Sociodemographic (proportion of females, mean age), medical (mean age of diagnosis and duration of CISD, number of participants with anxiety/depression), and methodological (prospective or retrospective study, number of patients included, method of psychiatric assessment, presence and type of controls) data

 DataSet.xlsx 19KB

10 Verification by a person who don't collect data

Risk of bias



11  2012 Hoy Risk of bias article.pdf 128.9KB

 2012 Hoy risk of bias tool.pdf 852.9KB

12 Two persons independently
If any disagreement $\Rightarrow$ consensus with a third person

Statistics

13 Stata metaprop command for prevalence
Stata metan command for odd ratio (OR)

14 Analysis stratified by skin disease

15 Separate analysis for each psychiatric symptom and disorder

16 Results expressed as % [95% CI] or OR [95% CI]
Forest plot

17 Heterogeneity (I²) assessment
Publication bias assessment (Egger's test, funnel plots and confidence intervals inspection)

18 Comparison of prevalences and OR between the skin diseases
Metaregressions, results expressed as regression coefficients (Estimated coefficient [95% CI])

19 Metaregressions to compare and to study the relationship between variations in prevalence and characteristics of the studies such as year of publication, risk of bias, mean age of patients included, proportion of females included, geographical area and type of controls.

20 Sensitivity analyses

20.1 without studies with publications bias/heterogeneity

20.2 without studies with small populations (< 50 patients)



20.3 without studies with high risk of bias

20.4 without studies with psoriasis