

Appendix L: Supplementary Screenshots Documenting Application States and Technical Validation

This appendix presents supplementary screenshots documenting the principal application states and technical validation workflows of SREMAN. The figures illustrate application initialization, PubMed record retrieval, cross-database bibliographic import, article screening, CSV export and import, JSON backup and restoration, validation of modified or malformed CSV files, and repeated PubMed searches. The validation workflows also document the handling of a large project comprising 30,963 bibliographic records.

Supplementary Figure L1. Overall SREMAN technical validation workflow.

Overview of the validation sequence, from application initialization through PubMed retrieval, cross-database import, article screening, data export, project clearing, JSON-based project restoration, and import into a new project.

Supplementary Figure L2. Initial application state of SREMAN.

Screenshot of the application in its initial empty or loading state before bibliographic records were loaded.

Supplementary Figure L3. CSV export and import of screening data for the 30,963-record project.

Screenshots documenting the export and subsequent import of article-level screening data associated with the 30,963-record project. Bibliographic records were imported from multiple sources as CSV or RIS files using SREMAN's standard import functionality. For CSV files, the column headers were required to match the corresponding SREMAN fields. The required field names can be identified from the CSV screening-data export shown in this figure; users can therefore replace database-specific headers with the corresponding SREMAN field names before importing the file. The workflow also includes records retrieved through integrated PubMed searches.

Supplementary Figure L4. JSON-based project backup and restoration.

Screenshots documenting the backup and subsequent restoration of the 30,963-record project using a JSON project file following the clearing of the application project. This workflow demonstrates the restoration of project data from the saved backup.

Supplementary Figure L5. Validation of modified and malformed CSV files.

Screenshots documenting application behaviour when processing deliberately modified, incomplete, or malformed CSV input files, providing evidence of input-validation procedures.

Supplementary Figure L6. Repeated PubMed searches and JSON-based project restoration.

Screenshots documenting repeated bibliographic retrieval through the integrated PubMed search functionality, together with the project information available following JSON-based backup and restoration.

Supplementary Figure L7. Additional validation and performance evidence.

Screenshots providing additional evidence of repeated PubMed searches and record retrieval within SREMAN, supplementing the validation workflows presented in the preceding figures.

The original files used during validation have been retained to facilitate independent inspection of the underlying data and verification of the documented workflows. These files provide supporting evidence beyond the screenshots and application-generated summaries.

Figure L1: SREMAN TECHNICAL VALIDATION
Functional and Performance Testing Workflow Architecture

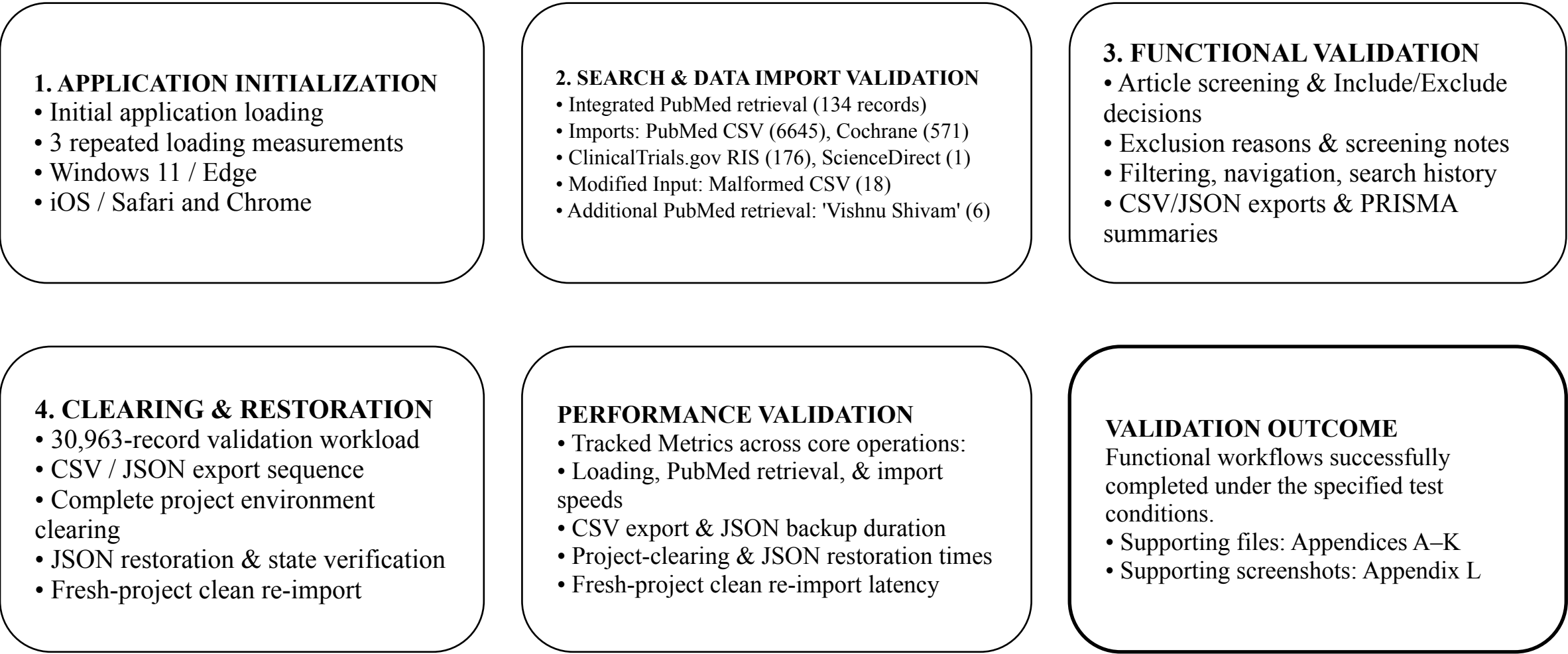


Figure L2: Initial application state of SREMAN

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01 Review & Eligibility Criteria

PICO

Review name

Example: Diabetes and Taste receptor

Population

Who are the patients/participants?

Intervention / Exposure

What intervention or exposure?

Comparator

Placebo, usual care, another treatment...

Outcomes

Primary and secondary outcomes...

Study design

RCT, cohort, case-control, etc.

Inclusion criteria

Describe the criteria for including studies...

Exclusion criteria

Describe the criteria for excluding studies...

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

Example: diabetes AND hypertension

Search PubMed

Local database statistics

Total articles in project: 0

Imported records: 0

Total records processed: 0

03 Title & Abstract Screening

Total: 0 Unscreened: 0 Include: 0 Exclude: 0

No articles loaded

All (0)

Unscreened (0)

Include (0)

Exclude (0)

Filter PMID, title, journal or author...

Browse records

Records available

0

Local screening database

Screened

0

0%

Included

0

0%

Excluded

0

0%

Eligibility criteria

POPULATION

Not specified

INTERVENTION / EXPOSURE

Not specified

COMPARATOR

Not specified

OUTCOME

Not specified

STUDY DESIGN

Not specified

REVIEW

Not specified

**No articles loaded**

Search PubMed above to begin screening.



No records in this view

Try another screening tab or search filter.

04 Search Information

No searches have been performed yet.

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.

Figure L3. CSV export and import of screening data for the 30,963-record project

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01 **Review & Eligibility Criteria**

PICO

Review name

Test 1

Population

Human

Intervention / Exposure

Polymorphisms

Comparator

Wild allele

Outcomes

Association

Study design

Observational

Inclusion criteria

Articles relevant to the PECOS

Exclusion criteria

Articles not relevant to the PECOS

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

Example: diabetes AND hypertension

Search PubMed

Restored 30,963 article(s).

Local database statistics

Total articles in project: 30,963

Imported records: 30,555

Total records processed: 30,963

03 Title & Abstract Screening

Total: **30,963**

Unscreened: **30,957**

Include: **2**

Exclude: **4**

Article 7 of 30963

All (30,963)

Unscreened (30,957)

Include (2)

Exclude (4)

Filter PMID, title, journal or author...

[Browse records](#)

Records available

30,963

Local screening database

Screened

6

0.0% of records

Included

2

33.3% of screened

Excluded

4

66.7% of screened

Eligibility criteria

POPULATION Human	INTERVENTION / EXPOSURE Polymorphisms	COMPARATOR Wild allele
OUTCOME Association	STUDY DESIGN Observational	REVIEW Test 1

Exclusion reason summary			
Not relevant	1	Duplicate	1
Review article	1	Animal study	1

Exercise-induced Erythropoiesis: the Mechanistic of Angiotensin II

PMID: Not available | Year: 2022

Authors: Not available

Abstract

The major aims are to determine the effect of acute (single dose) blockade of ANGII receptor 1 (AT1) on the EPO response to a single session of endurance exercise, as well as determine the effect of chronic (8-week) blockade of AT1 on ET-induced adaptations in total circulating red blood volume and hemoglobin.

Screening decision

✓ Include

✕ Exclude

Exclusion reason

-- Select reason --



Screening notes

Record the reason for your decision or any screening notes...



← Previous

Next →

Exercise-induced Erythropoiesis: the Mechanistic of Angiotensin II

PMID · 2022

Unscreened

Amifostine for salivary glands in high-dose radioactive iodine treated differentiated thyroid cancer

PMID · 2009 · Cochrane Database of Systematic Reviews

Unscreened

Control interventions in randomised trials among people with mental health disorders

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for preventing high altitude illness: Part 1. Commonly-used classes of drugs

PMID · 2017 · Cochrane Database of Systematic Reviews

Unscreened

The Effects of the Dopamine Receptor Agonist Pramipexole on Reward and Emotion Related Information Processing in Healthy Volunteers

PMID · 2018

Unscreened

Laboratory-based molecular test alternatives to RT-PCR for the diagnosis of SARS-CoV-2 infection

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Homeopathic medicinal products for preventing and treating acute respiratory tract infections in children

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

The Effects of Taste Receptors Regulation in Upper Airway Innate Immunity of CF Patients

PMID · 2019

Unscreened

Omega-3 fatty acids for bipolar disorder

PMID · 2008 · Cochrane Database of Systematic Reviews

Unscreened

Chinese herbal medicine for schizophrenia

PMID · 2005 · Cochrane Database of Systematic Reviews

Unscreened

Oral Astragalus (Huang qi) for preventing frequent episodes of acute respiratory tract infection in children

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Isolation and Establishment of Gustatory Cell Lines in Patients Operated on for Cancer of the Mobile Tongue - ImmortTasteCELL

PMID · 2017

Unscreened

Bitter Taste and Allele-specific Expression of the Human TAS2R38 Gene

PMID · 2016

Unscreened

Topical antiseptics for chronic suppurative otitis media

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

Prophylactic Treatment of Episodic Cluster Headache With an Angiotensin II Receptor Blocker (Candesartan Cilexetil); a Randomized, Placebo Controlled Parallel Study

PMID · 2005

Unscreened

Changes in Gut Microbiota and Postprandial GLP-1 Concentration Due to Sucralose Consumption

PMID · 2023

Unscreened

Guided imagery for treating hypertension in pregnancy

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Zinc for prevention and treatment of the common cold

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Zinc supplementation for improving pregnancy and infant outcome

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Acute Effects of the Two Alternative Sweeteners D-allulose and Erythritol on Gastrointestinal Hormone Secretion and Glycemic Control

PMID · 2019

Unscreened

Enteral nutrition for maintenance of remission in Crohn's disease

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Continuous interscalene brachial plexus block versus parenteral analgesia for postoperative pain relief after major shoulder surgery

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Clinical symptoms, signs and tests for identification of impending and current water-loss dehydration in older people

PMID · 2015 · Cochrane Database of Systematic Reviews

Unscreened

Ivermectin for preventing and treating COVID-19

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Melatonin and agomelatine for preventing seasonal affective disorder

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for American cutaneous and mucocutaneous leishmaniasis

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Oral xanthines as maintenance treatment for asthma in children

PMID · 2006 · Cochrane Database of Systematic Reviews

Unscreened

Eplerenone for hypertension

PMID · 2017 · Cochrane Database of Systematic Reviews

Unscreened

Metformin for endometrial hyperplasia

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Alpha-blockers as medical expulsive therapy for ureteral stones

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Effect of alcohol on blood pressure

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Topiramate for neuropathic pain and fibromyalgia in adults

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Dual antibiotics for bronchiectasis

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Vitamin D as an adjunct to antibiotics for the treatment of acute childhood pneumonia

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Genital ulcer disease treatment for reducing sexual acquisition of HIV

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Systemic opioids versus other analgesics and sedatives for postoperative pain in neonates

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Pharmacological and nutritional treatment for McArdle disease (Glycogen Storage Disease type V)

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Intranasal fentanyl for the management of acute pain in children

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Physical therapy for Bell's palsy (idiopathic facial paralysis)

PMID · 2011 · Cochrane Database of Systematic Reviews

Unscreened

Convalescent plasma for people with COVID-19

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for treating oral leukoplakia to prevent oral cancer

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Nutritional labelling for healthier food or non-alcoholic drink purchasing and consumption

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Vitamin D supplementation for chronic liver diseases in adults

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Metformin for endometrial hyperplasia

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Dietary advice with or without oral nutritional supplements for disease-related malnutrition in adults

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Optimum duration of regimens for Helicobacter pylori eradication

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

A Phase 1/2 Study of REGN7075 (EGFRxCD28 Costimulatory Bispecific Antibody) in Combination With Cemiplimab in Patients With Advanced Solid Tumors

PMID · 2020

Unscreened

Portion, package or tableware size for changing selection and consumption of food, alcohol and tobacco

PMID · 2015 · Cochrane Database of Systematic Reviews

Unscreened

Laboratory-based molecular test alternatives to RT-PCR for the diagnosis of SARS-CoV-2 infection

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

A Phase II, Single Arm, Open Label, Study on the Safety, Efficacy, Pharmacokinetics & Pharmacodynamics of Quizartinib + Chemotherapy and as Single-agent After High Dose Therapy in Newly Diagnosed Pediatric FLT3-ITD+ and NPM1wt AML Patients

PMID · 2024

Unscreened

Preoperative statin therapy for adults undergoing cardiac surgery

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Tartrazine exclusion for allergic asthma

PMID · 2001 · Cochrane Database of Systematic Reviews

Unscreened

Dietary advice with or without oral nutritional supplements for disease-related malnutrition in adults

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Snomezelen for dementia

PMID · 2002 · Cochrane Database of Systematic Reviews

Unscreened

A Randomized, Double Blinded, Placebo-controlled, Multicenter, Phase III Study to Evaluate the Efficacy and Safety of Losartan in Early Immunoglobulin A Nephropathy (IgAN) Patients

Unscreened

PMID · 2017

Opioids for restless legs syndrome

Unscreened

PMID · 2016 · Cochrane Database of Systematic Reviews

Lycopene for the prevention of prostate cancer

Unscreened

PMID · 2011 · Cochrane Database of Systematic Reviews

Interactions of Human Gut Microbiota With Intestinal Sweet Taste Receptors

Unscreened

PMID · 2016

Interventions to reduce harm from continued tobacco use

Unscreened

PMID · 2016 · Cochrane Database of Systematic Reviews

Omega-6 fats for the primary and secondary prevention of cardiovascular disease

Unscreened

PMID · 2018 · Cochrane Database of Systematic Reviews

Helminth therapy (worms) for allergic rhinitis

Unscreened

PMID · 2012 · Cochrane Database of Systematic Reviews

Multiple micronutrient powders for home (point-of-use) fortification of foods in pregnant women

Unscreened

PMID · 2015 · Cochrane Database of Systematic Reviews

Determination of Perinatal Exposure to Non-caloric Sweeteners. Implications for the Development of Preferences for Sweet Taste, and Weight Gain During the First Year of Life

Unscreened

PMID · 2019

Guided imagery for treating hypertension in pregnancy

Unscreened

PMID · 2019 · Cochrane Database of Systematic Reviews

Nebulised deoxyribonuclease for viral bronchiolitis in children younger than 24 months

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

N-acetylcysteine as an adjuvant therapy for Helicobacter pylori eradication

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Intranasal steroids for acute sinusitis

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Combined acclidinium bromide and long-acting beta2-agonist for chronic obstructive pulmonary disease (COPD)

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Pharmacological and nutritional treatment for McArdle disease (Glycogen Storage Disease type V)

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Effect of alcohol on blood pressure

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Pharmacological intervention for irritability, aggression, and self-injury in autism spectrum disorder (ASD)

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Needle size for vaccination procedures in children and adolescents

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for American cutaneous and mucocutaneous leishmaniasis

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Sodium channel blockers for cystic fibrosis

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Inhaled sodium cromoglycate for asthma in children

PMID · 2008 · Cochrane Database of Systematic Reviews

Unscreened

Pharmacologic Augmentation of TMS for Depression With D-serine

PMID · 2024

Unscreened

Rinse-free hand wash for reducing absenteeism among preschool and school children

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Influence of Medication Palatability on Prescribing Habits of Pediatric Prescribers

PMID · 2012

Unscreened

Iodine fortification of foods and condiments, other than salt, for preventing iodine deficiency disorders

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Thyrotropin-releasing hormone added to corticosteroids for women at risk of preterm birth for preventing neonatal respiratory disease

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Momordica charantia for type 2 diabetes mellitus

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Vitamin D as an adjunct to antibiotics for the treatment of acute childhood pneumonia

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

A Randomized Cross-Over Study to Investigate the Effect of the Non-Nutritive Sweetener Sucralose on Glucose Metabolism in Patients with Type 1 Diabetes

PMID · 2024

Unscreened

Nutritional labelling for healthier food or non-alcoholic drink purchasing and consumption

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Celiac Disease and Vitamin Status: Evaluation of the Effect of Supplementation With a Probiotic (VIVOMIXX®) on Vitamin B6, B12, 25'OH D, Folic Acid and Omocystein Levels, Metabolic and Inflammatory Status, and Gut Microbiota Metabolomics in a Cohort of Celiac Patients

PMID · 2019

Unscreened

Treatments for preventing recurrence of infection with Pseudomonas aeruginosa in people with cystic fibrosis

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Vitamin C for preventing and treating pneumonia

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Antibody tests for identification of current and past infection with SARS-CoV-2

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Echinacea for preventing and treating the common cold

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Crave Crush: Sugar Cravings and ad Lib Candy Uptake

PMID · 2016

Unscreened

Fortification of condiments and seasonings with iron for preventing anaemia and improving health

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Long-acting muscarinic antagonists (LAMA) added to combination long-acting beta2-agonists and inhaled corticosteroids (LABA/ICS) versus LABA/ICS for adults with asthma

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

N-acetylcysteine as an adjuvant therapy for Helicobacter pylori eradication

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

A Study on the Correlation Between Oral Health and Delirium in Surgical Inpatients

PMID · 2025

Unscreened

Intranasal corticosteroids for non-allergic rhinitis

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

A 6-month Multicenter, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy, Safety and PK/PD of an age-and Body Weight-adjusted Oral Finerenone Regimen, in Addition to an ACEI or ARB, for the Treatment of Children, 6 Months to <18 Years of Age, With Chronic Kidney Disease and Proteinuria

PMID · 2022

Unscreened

Melatonin for the prevention and treatment of jet lag

PMID · 2002 · Cochrane Database of Systematic Reviews

Unscreened

A Randomized, Double-blind, Placebo-controlled, Crossover Study to Evaluate the Influence of the A118G Polymorphism in the mu Opioid Receptor Gene (OPRM1) on Effects of GSK1521498 and Naltrexone on Physiological and Behavioural Markers of Brain Function in Healthy Social Drinkers

PMID · 2012

Unscreened

Melatonin in cancer treatment

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

Short-course oral steroids as an adjunct therapy for chronic rhinosinusitis

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Showing the first 100 matching records. Use the filter to narrow the list.

vishnu shivam

PubMed · 6 matching records · 6 retrieved · 10/7/2026, 12:21:30 PM

5-HTTLPR AND suicide

PubMed · 134 matching records · 134 retrieved · 10/7/2026, 11:53:04 AM

5-HTTLPR AND suicide

PubMed · 134 matching records · 134 retrieved · 10/7/2026, 11:52:53 AM

5-HTTLPR AND suicide

PubMed · 134 matching records · 134 retrieved · 10/7/2026, 11:52:33 AM

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.

Figure L4. JSON-based project backup and restoration

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01 Review & Eligibility Criteria

PICO

Review name

Example: Diabetes and Taste receptor

Population

Who are the patients/participants?

Intervention / Exposure

What intervention or exposure?

Comparator

Placebo, usual care, another treatment...

Outcomes

Primary and secondary outcomes...

Study design

RCT, cohort, case-control, etc.

Inclusion criteria

Describe the criteria for including studies...

Exclusion criteria

Describe the criteria for excluding studies...

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

Example: diabetes AND hypertension

Search PubMed

Import complete: 30,963 record(s) imported.

Local database statistics

Total articles in project: 30,963

Imported records: 30,963

Total records processed: 30,963

03

Title & Abstract
Screening

Total: 30,963

Unscreened: 30,957

Include: 2

Article 1 of 30963

Exclude: 4

All (30,963)

Unscreened (30,957)

Include (2)

Exclude (4)

Filter PMID, title, journal or author...

[Browse records](#)

Records available

30,963

Local screening database

Screened

6

0.0% of records

Included

2

33.3% of screened

Excluded

4

66.7% of screened

Eligibility criteria

POPULATION

Not specified

INTERVENTION / EXPOSURE

Not specified

COMPARATOR

Not specified

OUTCOME

Not specified

STUDY DESIGN

Not specified

REVIEW

Not specified

Exclusion reason summary

Duplicate

1

Not relevant

1

Review article

1

Animal study

1

Colchicine for acute gout

PMID: Not available | **Year:** 2021 | **Journal:** Cochrane Database of Systematic Reviews

Authors: McKenzie, BJ, Wechalekar, MD, Johnston, RV, Schlesinger, N, Buchbinder, R

[Open DOI](#)

Abstract

Abstract - Background This is an updated Cochrane Review, first published in 2006 and updated in 2014. Gout is one of the most common rheumatic diseases worldwide. Despite the use of colchicine as one of the first-line therapies for the treatment of acute gout, evidence for its benefits and harms is relatively limited. **Objectives** To update the available evidence of the benefits and harms of colchicine for the treatment of acute gout. **Search methods** We updated the search of CENTRAL, MEDLINE, Embase, Clinicaltrials.gov and WHO ICTRP registries to 28 August 2020. We did not impose any date or language restrictions in the search. **Selection criteria** We considered published randomised controlled trials (RCTs) and quasi-randomised controlled trials (quasi-RCTs) evaluating colchicine therapy compared with another therapy (placebo or active) in acute gout; low-dose colchicine at clinically relevant doses compared with placebo was the primary comparison. The major outcomes were pain, participant global assessment of treatment success (proportion with 50% or greater decrease in pain from baseline up to 32 to 36 hours), reduction of inflammation, function of target joint, serious adverse events, total adverse events and withdrawals due to adverse events. **Data collection and analysis** We used standard methodological procedures as expected by Cochrane in this review update. **Main results** We included four trials (803 randomised participants), including two new trials, in this updated review. One three-arm trial compared high-dose colchicine (52 participants), low-dose colchicine (74 participants) and placebo (59 participants); one trial compared high-dose colchicine with placebo (43 participants); one trial compared low-dose colchicine with non-steroidal anti-inflammatory drugs (NSAIDs) (399 participants):

Screening decision

✓ Include

✗ Exclude

Exclusion reason

-- Select reason --

Screening notes

Record the reason for your decision or any screening notes...

← Previous

Next →

Colchicine for acute gout

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Zinc supplementation for the prevention of type 2 diabetes mellitus in adults with insulin resistance

PMID · 2015 · Cochrane Database of Systematic Reviews

Unscreened

Cranberries for preventing urinary tract infections

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Treatment for recurrent vulvovaginal candidiasis (thrush)

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Smectite for acute infectious diarrhoea in children

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Acute Effects of the Two Alternative Sweeteners D-allulose and Erythritol on Gastrointestinal Hormone Secretion and Glycemic Control

PMID · 2019

Unscreened

Interventions for deliberately altering blood pressure in acute stroke

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Helicobacter pylori eradication for the prevention of gastric neoplasia

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Surgical interventions for chronic rhinosinusitis with nasal polyps

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Pharmacological interventions for prevention of weight gain in people with schizophrenia

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Corrector therapies (with or without potentiators) for people with cystic fibrosis with class II CFTR gene variants (most commonly F508del)

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Wheat flour fortification with iron and other micronutrients for reducing anaemia and improving iron status in populations

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Smell, Taste, Salivary Flow, and Oral Health in Patient Receiving Dialysis: A Before and After Study

PMID · 2020

Unscreened

Oral protein-based supplements versus placebo or no treatment for people with chronic kidney disease requiring dialysis

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Anticholinergic therapy for chronic asthma in children over two years of age

PMID · 2003 · Cochrane Database of Systematic Reviews

Unscreened

Topical benzoyl peroxide for acne

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Enteral nutrition for maintenance of remission in Crohn's disease

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Siponimod for multiple sclerosis

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Ketamine and other glutamate receptor modulators for depression in adults with unipolar major depressive disorder

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Hyperimmune immunoglobulin for people with COVID-19

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Preprocedural mouth rinses for preventing transmission of infectious diseases through aerosols in dental healthcare providers

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Green tea for weight loss and weight maintenance in overweight or obese adults

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Protein and energy supplementation in elderly people at risk from malnutrition

PMID · 2009 · Cochrane Database of Systematic Reviews

Unscreened

Antiplatelet agents for the treatment of adults with COVID-19

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Intranasal steroids for acute sinusitis

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Risedronate for the primary and secondary prevention of osteoporotic fractures in postmenopausal women

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Interventions to improve adherence to antiretroviral therapy in children with HIV infection

PMID · 2011 · Cochrane Database of Systematic Reviews

Unscreened

Macrolides for treatment of Haemophilus ducreyi infection in sexually active adults

PMID · 2017 · Cochrane Database of Systematic Reviews

Unscreened

Tobacco packaging design for reducing tobacco use

PMID · 2017 · Cochrane Database of Systematic Reviews

Unscreened

D-penicillamine for primary biliary cirrhosis

PMID · 2004 · Cochrane Database of Systematic Reviews

Unscreened

Chloroquine or hydroxychloroquine for prevention and treatment of COVID-19

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Physical interventions to interrupt or reduce the spread of respiratory viruses

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Over the counter (OTC) artificial tear drops for dry eye syndrome

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Fixed-dose combinations of drugs versus single-drug formulations for treating pulmonary tuberculosis

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Herbal medicines for fatty liver diseases

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Misoprostol for intrauterine device placement

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

Vitamin B12 supplementation for growth, development, and cognition in children

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Treatments for iron-deficiency anaemia in pregnancy

PMID · 2011 · Cochrane Database of Systematic Reviews

Unscreened

Dietary sodium manipulation and asthma

PMID · 2011 · Cochrane Database of Systematic Reviews

Unscreened

Oral nutritional interventions in hospitalised older people at nutritional risk: a network meta-analysis of individual participant data

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Oral water soluble contrast for malignant bowel obstruction

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Chinese medicinal herbs for influenza

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Antiviral therapy for Ramsay Hunt syndrome (herpes zoster oticus with facial palsy) in adults

PMID · 2008 · Cochrane Database of Systematic Reviews

Unscreened

Desmopressin for nocturnal enuresis in children

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

A Randomized, Multicenter, Open-label, Phase III Study of Lapatinib (GW572016) in Combination With Weekly Paclitaxel Versus Weekly Paclitaxel Alone in the Second Line Treatment of ErbB2 Amplified Advanced Gastric Cancer

PMID · 2007

Unscreened

Vitamin B12 supplementation for growth, development, and cognition in children

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Citalopram versus other anti-depressive agents for depression

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Alendronate for the primary and secondary prevention of osteoporotic fractures in postmenopausal women

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

Community-based supplementary feeding for food insecure, vulnerable and malnourished populations – an overview of systematic reviews

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Helicobacter pylori eradication for the prevention of gastric neoplasia

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Muscle relaxants for pain management in rheumatoid arthritis

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Oral Astragalus (Huang qi) for preventing frequent episodes of acute respiratory tract infection in children

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Dual antibiotics for bronchiectasis

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Omega-3 fatty acid supplementation for depression in children and adolescents

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Antiviral treatment for preventing postherpetic neuralgia

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Antioxidants for male subfertility

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Medical interventions for treating anthracycline-induced symptomatic and asymptomatic cardiotoxicity during and after treatment for childhood cancer

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Ganoderma lucidum (Reishi mushroom) for cancer treatment

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Janus kinase inhibitors for the treatment of COVID-19

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Zinc supplementation for tinnitus

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Adhesives for fixed orthodontic bands

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Modafinil for people with schizophrenia or related disorders

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for hyperthyroidism pre-pregnancy and during pregnancy

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Antibiotics to prevent complications following tooth extractions

PMID · 2021 · Cochrane Database of Systematic Reviews

Unscreened

Blood pressure lowering efficacy of diuretics as second-line therapy for primary hypertension

PMID · 2009 · Cochrane Database of Systematic Reviews

Unscreened

Antiamoebic drugs for treating amoebic colitis

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Prophylactic TCM for Mitigation of EGFR-TKI Related Dermatological Adverse Effect

PMID · 2021

Unscreened

Acupuncture for Bell's palsy

PMID · 2010 · Cochrane Database of Systematic Reviews

Unscreened

The Role of Bladder Cancer TAS2R38 Expression on Chemotherapy-Induced Bitter Taste

PMID · 2020

Unscreened

Effect of alcohol on blood pressure

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Anticholinergic therapy for chronic asthma in children over two years of age

PMID · 2003 · Cochrane Database of Systematic Reviews

Unscreened

Short- and Long-term Effects of Once Weekly Semaglutide 2.4 mg on Appetite, Eating Behavior, and Psychosocial Status

PMID · 2022

Unscreened

Oral nicotine pouches for cessation or reduction of use of other tobacco or nicotine products

PMID · 2025 · Cochrane Database of Systematic Reviews

Unscreened

CFTR modulator monotherapy for people with cystic fibrosis with class II CFTR gene variants (most commonly F508del)

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Zinc for the common cold

PMID · 2015 · Cochrane Database of Systematic Reviews

Unscreened

Thoracic imaging tests for the diagnosis of COVID-19

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Xylitol for preventing acute otitis media in children up to 12 years of age

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Drugs for nocturnal enuresis in children (other than desmopressin and tricyclics)

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Ghrelin for the management of cachexia associated with cancer

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for increasing fruit and vegetable consumption in children aged five years and under

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Metformin for endometrial hyperplasia

PMID · 2024 · Cochrane Database of Systematic Reviews

Unscreened

Pain relief in hysterosalpingography

PMID · 2015 · Cochrane Database of Systematic Reviews

Unscreened

Replacing salt with low-sodium salt substitutes (LSSS) for cardiovascular health in adults, children and pregnant women

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Dual antibiotics for bronchiectasis

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Helminth therapy (worms) for induction of remission in inflammatory bowel disease

PMID · 2014 · Cochrane Database of Systematic Reviews

Unscreened

Zinc supplementation for the prevention of pneumonia in children aged 2 months to 59 months

PMID · 2016 · Cochrane Database of Systematic Reviews

Unscreened

Isolation and Establishment of Gustatory Cell Lines in Patients Operated on for Cancer of the Mobile Tongue - ImmortTasteCELL

PMID · 2017

Unscreened

Impact of active placebo controls on estimated drug effects in randomised trials: a systematic review of trials with both active placebo and standard placebo

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Convalescent plasma for people with COVID-19

PMID · 2026 · Cochrane Database of Systematic Reviews

Unscreened

Caregiver involvement in interventions for improving children's dietary intake and physical activity behaviors

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

A Randomized, Multicenter, Adaptive Phase II/III Study To Evaluate The Efficacy And Safety Of Trastuzumab Emtansine (T-DM1) Versus Taxane (Docetaxel Or Paclitaxel) In Patients With Previously Treated Locally Advanced Or Metastatic HER2-Positive Gastric Cancer, Including Adenocarcinoma Of The Gastroesophageal Junction

PMID · 2012

Unscreened

Thoracic imaging tests for the diagnosis of COVID-19

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Preventive lipid-based nutrient supplements given with complementary foods to infants and young children 6 to 23 months of age for health, nutrition, and developmental outcomes

PMID · 2019 · Cochrane Database of Systematic Reviews

Unscreened

Nebulised hypertonic saline for cystic fibrosis

PMID · 2023 · Cochrane Database of Systematic Reviews

Unscreened

Pharmaceutical interventions for emotionalism after stroke

PMID · 2022 · Cochrane Database of Systematic Reviews

Unscreened

Folic acid with or without vitamin B12 for the prevention and treatment of healthy elderly and demented people

PMID · 2008 · Cochrane Database of Systematic Reviews

Unscreened

Probiotic treatment for women with gestational diabetes to improve maternal and infant health and well-being

PMID · 2020 · Cochrane Database of Systematic Reviews

Unscreened

Smectite for acute infectious diarrhoea in children

PMID · 2018 · Cochrane Database of Systematic Reviews

Unscreened

Interventions for hyperthyroidism pre-pregnancy and during pregnancy

PMID · 2013 · Cochrane Database of Systematic Reviews

Unscreened

Silver acetate for smoking cessation

PMID · 2012 · Cochrane Database of Systematic Reviews

Unscreened

Showing the first 100 matching records. Use the filter to narrow the list.

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.

Figure L5. Validation of modified and malformed CSV files

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01 Review & Eligibility Criteria

PICO

Review name

Example: Diabetes and Taste receptor

Population

Who are the patients/participants?

Intervention / Exposure

What intervention or exposure?

Comparator

Placebo, usual care, another treatment...

Outcomes

Primary and secondary outcomes...

Study design

RCT, cohort, case-control, etc.

Inclusion criteria

Describe the criteria for including studies...

Exclusion criteria

Describe the criteria for excluding studies...

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

Example: diabetes AND hypertension

Search PubMed

Import complete: 18 record(s) imported.

Local database statistics

Total articles in project: 18

Imported records: 18

Total records processed: 18

03 Title & Abstract Screening

Total: 18 Unscreened: 18 Include: 0 Exclude: 0

Article 1 of 18

All (18)

Unscreened (18)

Include (0)

Exclude (0)

Filter PMID, title, journal or author...

Browse records

Records available

18

Local screening database

Screened

0

0.0% of records

Included

0

0%

Excluded

0

0%

Eligibility criteria

POPULATION

Not specified

INTERVENTION / EXPOSURE

Not specified

COMPARATOR

Not specified

OUTCOME

Not specified

STUDY DESIGN

Not specified

REVIEW

Not specified

Discrepancy in Combined Genotype Distribution Data Between Two Related Studies of 5-HTTLPR and Posttraumatic Stress Disorder Risk.

PMID: Not available | Year: 2026 | Journal: American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Authors: Shivam V

Abstract

No abstract available.

Screening decision

✓ Include

✕ Exclude

Exclusion reason

-- Select reason --



Screening notes

Record the reason for your decision or any screening notes...

← Previous

Next →

Discrepancy in Combined Genotype Distribution Data Between Two Related Studies of 5-HTTLPR and Posttraumatic Stress Disorder Risk.

PMID · 2026 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

A meta-analysis on polymorphic trait of taste perception mediated by TAS2R38 genotype.

PMID · 2024 · Experimental and clinical psychopharmacology

Unscreened

Association of Thyroid Function and Severity of Illness in Liver Cirrhosis as Measured by Child-Pugh Score.

PMID 37155441 · 2023 · Cureus

Unscreened

Association of Thyroid Function and Severity of Illness in Liver Cirrhosis as Measured by Child-Pugh Score.

PMID 37155441 · 2023 · Cureus

Unscreened

Association of Thyroid Function and Severity of Illness in Liver Cirrhosis as Measured by Child-Pugh Score.

PMID 37155441 · 2023 · Cureus

Unscreened

Risk Factors of Central Line-Associated Bloodstream Infection (CLABSI): A Prospective Study From a Paediatric Intensive Care Unit in South India.

PMID 37700998 · 2023 · Cureus

Unscreened

Risk Factors of Central Line-Associated Bloodstream Infection (CLABSI): A Prospective Study From a Paediatric Intensive Care Unit in South India.

PMID 37700998 · 2023 · Cureus

Unscreened

Risk Factors of Central Line-Associated Bloodstream Infection (CLABSI): A Prospective Study From a Paediatric Intensive Care Unit in South India.

PMID 37700998 · 2023

Unscreened

Taste perception genomics in gestational diabetes mellitus: A systematic review.

PMID 38192264 · 2024 · Diabetes, obesity & metabolism

Unscreened

Taste perception genomics in gestational diabetes mellitus: A systematic review.

PMID 38192264 · 2024 · Diabetes, obesity & metabolism

Unscreened

Taste perception genomics in gestational diabetes mellitus: A systematic review.

PMID 38192264 · Diabetes, obesity & metabolism

Unscreened

A meta-analysis on polymorphic trait of taste perception mediated by TAS2R38 genotype.

PMID 38815112 · 2024 · Experimental and clinical psychopharmacology

Unscreened

A meta-analysis on polymorphic trait of taste perception mediated by TAS2R38 genotype.

PMID 38815112 · 2024 · Experimental and clinical psychopharmacology

Unscreened

Childhood adversity and 5-HTTLPR across mental health outcomes: A transdiagnostic meta-analysis.

PMID 41546921 · Child abuse & neglect

Unscreened

Childhood adversity and 5-HTTLPR across mental health outcomes: A transdiagnostic meta-analysis.

PMID 41546921 · 2026 · Child abuse & neglect

Unscreened

PMID 41546921 · 2026 · Child abuse & neglect

Unscreened

Discrepancy in Combined Genotype Distribution Data Between Two Related Studies of 5-HTTLPR and Posttraumatic Stress Disorder Risk.

PMID 41804671 · 2026

Unscreened

Discrepancy in Combined Genotype Distribution Data Between Two Related Studies of 5-HTTLPR and Posttraumatic Stress Disorder Risk.

PMID 41804671 · 2026 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.

Figure L6: Repeated PubMed searches and JSON-based project

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01 Review & Eligibility Criteria

PICO

Review name

Example: Diabetes and Taste receptor

Population

Who are the patients/participants?

Intervention / Exposure

What intervention or exposure?

Comparator

Placebo, usual care, another treatment...

Outcomes

Primary and secondary outcomes...

Study design

RCT, cohort, case-control, etc.

Inclusion criteria

Describe the criteria for including studies...

Exclusion criteria

Describe the criteria for excluding studies...

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

childhood maltreatment AND 5-HTTLPR

Search PubMed

Restored 189 article(s).

Local database statistics

Total articles in project: 189

Imported records: 0

Total records processed: 189

03 Title & Abstract Screening

Total: 189 Unscreened: 185 Include: 1 Exclude: 3

Article 3 of 189

All (189)

Unscreened (185)

Include (1)

Exclude (3)

Filter PMID, title, journal or author...

[Browse records](#)

Records available

189

Local screening database

Screened

4

2.1% of records

Included

1

25.0% of screened

Excluded

3

75.0% of screened

Eligibility criteria

POPULATION

Not specified

INTERVENTION / EXPOSURE

Not specified

COMPARATOR

Not specified

OUTCOME

Not specified

STUDY DESIGN

Not specified

REVIEW

Not specified

Exclusion reason summary

Not relevant

1

Duplicate

1

Other

1

A serotonin transporter gene promoter polymorphism (5-HTTLPR) and prefrontal cortical binding in major depression and suicide.

PMID: 10920459 | **Year:** 2000 | **Journal:** Archives of general psychiatry | **Article type:** Journal Article Research Support, Non-U.S. Gov't Research Support, U.S. Gov't, P.H.S.

Authors: Mann JJ, Huang YY, Underwood MD, Kassir SA, Oppenheim S, Kelly TM, Dwork AJ, Arango V

Abstract

BACKGROUND: Major depression and suicide are associated with fewer serotonin transporter (5-HTT) sites. The 5'-flanking promoter region of the 5-HTT gene has a biallelic insertion/deletion (5-HTTLPR). We assayed prefrontal cortical (PFC) 5-HTT binding in major depression and suicide and examine the relationship to the 5-HTTLPR allele.

METHODS: Postmortem brain samples from 220 individuals were genotyped for the 5-HTTLPR polymorphism. Binding of 5-HTT was assayed by quantitative autoradiography in the PFC of a subset of subjects (n = 159). Clinical information, including DSM-III-R Axis I diagnoses, was obtained by psychological autopsy and medical chart review.

RESULTS: Binding to 5-HTT was lower in the ventral PFC of suicides compared with nonsuicides and was lower throughout the PFC of subjects with a history of major depression. The 5-HTTLPR genotype was associated with major depression but not with suicide or 5-HTT binding.

CONCLUSIONS: A diffuse reduction of 5-HTT binding in the PFC of individuals with major depression may reflect a widespread impairment of serotonergic function consistent with the range of psychopathologic features in major depression. The localized reduction in 5-HTT binding in the ventral PFC of suicides may reflect reduced serotonin input to that brain region, underlying the predisposition to

Screening decision

☒ Include☒ Exclude

Exclusion reason

Duplicate



Screening notes

Record the reason for your decision or any screening notes...

[← Previous](#)[Next →](#)

A novel functional polymorphism within the promoter of the serotonin transporter gene: possible role in susceptibility to affective disorders.

Include

PMID 9154246 · 1996 · Molecular psychiatry

Possible association of the short allele of the serotonin transporter promoter gene polymorphism (5-HTTLPR) with violent suicide.

Exclude

PMID 10822348 · 2000 · Molecular psychiatry

A serotonin transporter gene promoter polymorphism (5-HTTLPR) and prefrontal cortical binding in major depression and suicide.

Exclude

PMID 10920459 · 2000 · Archives of general psychiatry

Serotonin transporter gene polymorphisms, alcoholism, and suicidal behavior.

Unscreened

PMID 10960156 · 2000 · Biological psychiatry

Possible association between serotonin transporter gene polymorphism and violent suicidal behavior in mood disorders.

Unscreened

PMID 10960164 · 2000 · Biological psychiatry

Attempted suicide and polymorphism of the serotonin transporter gene in Chinese patients with schizophrenia.

Unscreened

PMID 11166082 · 2000 · Psychiatry research

A rare short allele of the serotonin transporter promoter region (5-HTTLPR) found in an aggressive schizophrenic patient of Jewish Libyan origin.

Unscreened

PMID 11324943 · 2000 · Psychiatric genetics

Association between violent suicidal behavior and the low activity allele of the serotonin transporter gene.

Unscreened

PMID 11326306 · 2001 · Molecular psychiatry

Family-based association study of serotonin transporter promoter in suicidal adolescents: no association with suicidality but possible role in violence traits.

Unscreened

PMID 11353442 · 2001 · American journal of medical genetics

Association between suicide attempts and 5-HTTLPR-S-allele in alcohol-dependent and control subjects: further evidence from a German alcohol-dependent inpatient sample.

Unscreened

PMID 11690601 · 2001 · Biological psychiatry

A polymorphism in the promoter of the serotonin transporter gene is not associated with suicidal behavior.

Unscreened

PMID 11702061 · 2001 · Psychiatric genetics

Serotonin transporter gene polymorphism and psychiatric disorders in NF1 patients.

PMID 11803526 · 2001 · American journal of medical genetics

Unscreened

No association between non-violent suicidal behavior and the serotonin transporter promoter polymorphism.

PMID 12497618 · 2003 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Possible association between serotonin transporter promoter region polymorphism and impulsivity in Koreans.

PMID 12759157 · 2003 · Psychiatry research

Unscreened

Genetics of the serotonergic system in suicidal behavior.

PMID 12849930 · 2003 · Journal of psychiatric research

Unscreened

Serotonin transporter gene promoter (5-HTTLPR) and intron 2 (VNTR) polymorphisms in Croatian suicide victims.

PMID 14573315 · 2003 · Biological psychiatry

Unscreened

Is there an association between serotonin transporter gene polymorphism and family history of depression?

PMID 14612228 · 2003 · Journal of affective disorders

Unscreened

Serotonin transporter gene may be involved in short-term risk of subsequent suicide attempts.

PMID 14706424 · 2004 · Biological psychiatry

Unscreened

Serotonin transporter 5HTTLPR polymorphism and affective disorders: no evidence of association in a large European multicenter study.

PMID 14735161 · 2004 · European journal of human genetics : EJHG

Unscreened

Association between low-activity serotonin transporter genotype and heroin dependence: behavioral and personality correlates.

PMID 15048645 · 2004 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Association between serotonin transporter gene promoter polymorphism and suicide: results of a meta-analysis.

PMID 15121487 · 2004 · Biological psychiatry

Unscreened

Familial suicide behaviour: association with probands suicide attempt characteristics and 5-HTTLPR polymorphism.

PMID 15521831 · 2004 · Acta psychiatrica Scandinavica

Unscreened

Relationship between suicidal behavior of psychotic inpatients and serotonin transporter gene in Han Chinese.

Unscreened

PMID 15531095 · 2004 · Neuroscience letters

Male-specific association between the 5-HTTLPR S allele and suicide attempts in alcohol-dependent subjects.

Unscreened

PMID 15589566 · 2005 · Journal of psychiatric research

Relationships between serotonin transporter promoter polymorphism, platelet serotonin transporter binding and clinical phenotype in suicidal and non-suicidal adolescent inpatients.

Unscreened

PMID 15657646 · 2005 · Journal of neural transmission (Vienna, Austria : 1996)

Meta-analysis in psychiatric genetics.

Unscreened

PMID 15802092 · 2005 · Current psychiatry reports

The socio-economic status of communities predicts variation in brain serotonergic responsivity.

Unscreened

PMID 15856722 · 2005 · Psychological medicine

Association study of a novel functional polymorphism of the serotonin transporter gene in bipolar disorder and suicidal behaviour.

Unscreened

PMID 15986189 · 2005 · Psychopharmacology

STin2 variant and family history of suicide as significant predictors of suicide completion in major depression.

Unscreened

PMID 16125146 · 2006 · Biological psychiatry

Association study between the novel functional polymorphism of the serotonin transporter gene and suicidal behaviour in schizophrenia.

Unscreened

PMID 16274962 · 2006 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

The genetics of depression: a review.

Unscreened

PMID 16300747 · 2006 · Biological psychiatry

[Suicide attempt, psychopathology and genetics].

Unscreened

PMID 16389730 · 2005 · Psychiatria Hungarica : A Magyar Pszichiatriai Tarsasag tudomanyos folyoirata

Genetics of suicide.

Unscreened

PMID 16462816 · 2006 · Molecular psychiatry

The serotonin transporter promoter polymorphism and suicide.

PMID 16510244 · 2006 · Neuroscience letters

Unscreened

Association between serotonin transporter gene and borderline personality disorder.

PMID 16690085 · 2006 · Journal of psychiatric research

Unscreened

Association between suicide attempts in south Brazilian depressed patients with the serotonin transporter polymorphism.

PMID 16859753 · 2006 · Psychiatry research

Unscreened

Association of a triallelic serotonin transporter gene promoter region (5-HTTLPR) polymorphism with stressful life events and severity of depression.

PMID 16946185 · 2006 · The American journal of psychiatry

Unscreened

Serotonin transporter gene promoter (5-HTTLPR) and intron 2 (VNTR) polymorphisms: a study on Slovenian population of suicide victims.

PMID 16969272 · 2006 · Psychiatric genetics

Unscreened

Meta-analysis supports association between serotonin transporter (5-HTT) and suicidal behavior.

PMID 16969368 · 2007 · Molecular psychiatry

Unscreened

The serotonin transporter gene: polymorphism and haplotype analysis in Russian suicide attempters.

PMID 17028448 · 2006 · Neuropsychobiology

Unscreened

Association of the serotonin transporter promoter polymorphism with suicide attempters with a high medical damage.

PMID 17029913 · 2007 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Unscreened

Serotonin transporter (5-HTTLPR) genotype, childhood abuse, and suicide attempts in adult psychiatric inpatients.

PMID 17250473 · 2006 · Suicide & life-threatening behavior

Unscreened

Interaction between childhood trauma and serotonin transporter gene variation in suicide.

PMID 17356577 · 2007 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

Unscreened

Gene-by-environment (serotonin transporter and childhood maltreatment) interaction for anxiety sensitivity, an intermediate phenotype for anxiety disorders.

PMID 17460615 · 2008 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

Unscreened

Is the 5-HTTLPR polymorphism associated with bipolar disorder or with suicidal behavior of bipolar disorder patients?

Unscreened

PMID 17579356 · 2008 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Analysis of association of clinical correlates and 5-HTTLPR polymorphism with suicidal behavior among Chinese methamphetamine abusers.

Unscreened

PMID 17875025 · 2007 · Psychiatry and clinical neurosciences

Relationship of SERT polymorphisms to depressive and anxiety symptoms in irritable bowel syndrome.

Unscreened

PMID 17909168 · 2007 · Biological research for nursing

Association between the serotonin transporter gene and personality traits in borderline personality disorder patients evaluated with Zuckerman-Zuhlman Personality Questionnaire (ZKPQ).

Unscreened

PMID 18004675 · 2007 · Actas espanolas de psiquiatria

[Treatment of depression from the point of view of suicide prevention].

Unscreened

PMID 18064872 · 2007 · Seishin shinkeigaku zasshi = Psychiatria et neurologia Japonica

Serotonin transporter gene polymorphisms: effect on serotonin transporter availability in the brain of suicide attempters.

Unscreened

PMID 18314311 · 2008 · Psychiatry research

Serotonin transporter polymorphism (5-HTTLPR) and citalopram effectiveness and side effects in children with depression and/or anxiety disorders.

Unscreened

PMID 18315446 · 2007 · Journal of child and adolescent psychopharmacology

Depression and the serotonin transporter 5-HTTLPR polymorphism: a review and a hypothesis concerning gene-environment interaction.

Unscreened

PMID 18534686 · 2008 · Journal of affective disorders

Interaction between gene variants of the serotonin transporter promoter region (5-HTTLPR) and catechol O-methyltransferase (COMT) in borderline personality disorder.

Unscreened

PMID 18756498 · 2009 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Association between the A-1438G polymorphism of the serotonin 2A receptor gene and nonimpulsive suicide attempts.

Unscreened

PMID 18797395 · 2008 · Psychiatric genetics

Novel allelic variants in the human serotonin transporter gene linked polymorphism (5-HTTLPR) among depressed patients with suicide attempt.

Unscreened

PMID 19103261 · 2009 · Neuroscience letters

Reported childhood abuse is associated with low serotonin transporter binding in vivo in major depressive disorder.

Unscreened

PMID 19288578 · 2009 · Synapse (New York, N.Y.)

Molecular epidemiology of major depressive disorder.

Unscreened

PMID 19568851 · 2009 · Environmental health and preventive medicine

Association of adverse childhood environment and 5-HTTLPR Genotype with late-life depression.

Unscreened

PMID 19573496 · 2009 · The Journal of clinical psychiatry

Life-time adversities, reported thirteen years after a suicide attempt: relationship to recovery, 5HTTLPR genotype, and past and present morbidity.

Unscreened

PMID 19590996 · 2009 · Archives of suicide research : official journal of the International Academy for Suicide Research

The serotonin transporter gene polymorphism (5-HTTLPR) and affective symptoms among women diagnosed with borderline personality disorder.

Unscreened

PMID 19699062 · 2010 · European psychiatry : the journal of the Association of European Psychiatrists

Interaction of child maltreatment and 5-HTT polymorphisms: suicidal ideation among children from low-SES backgrounds.

Unscreened

PMID 19779024 · 2010 · Journal of pediatric psychology

Is the serotonin transporter polymorphism (5-HTTLPR) a potential marker for suicidal behavior in bipolar disorder patients?

Unscreened

PMID 20096463 · 2010 · Journal of affective disorders

Association of serotonin transporter promoter gene polymorphism (5-HTTLPR) with depression in Costa Rican schizophrenic patients.

Unscreened

PMID 20397838 · 2010 · Journal of neurogenetics

Investigation of serotonin transporter gene promoter (5-HTTLPR) and intron 2 (variable number of tandem repeats) polymorphisms with suicidal behavior in a Turkish population.

Unscreened

PMID 20438360 · 2010 · DNA and cell biology

Timing is critical: gene, environment and timing interactions in genetics of suicide in children and adolescents.

Unscreened

PMID 20444577 · 2010 · European psychiatry : the journal of the Association of European Psychiatrists

Serotonin transporter gene, childhood emotional abuse and cognitive vulnerability to depression.

Unscreened

PMID 20455953 · 2010 · Genes, brain, and behavior

Early-life stress, corticotropin-releasing factor, and serotonin transporter gene: a pilot study.

Unscreened

PMID 20692103 · 2011 · Psychoneuroendocrinology

The possible contributory role of the S allele of 5-HTTLPR in the emergence of suicidality.

Unscreened

PMID 20837566 · 2011 · Journal of psychopharmacology (Oxford, England)

Rare genotype combination of the serotonin transporter gene associated with treatment response in severe personality disorder.

Unscreened

PMID 20862697 · 2010 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

The serotonin transporter promoter variant (5-HTTLPR), stress, and depression meta-analysis revisited: evidence of genetic moderation.

Unscreened

PMID 21199959 · 2011 · Archives of general psychiatry

Life stress, 5-HTTLPR and mental disorder: findings from a 30-year longitudinal study.

Unscreened

PMID 21282783 · 2011 · The British journal of psychiatry : the journal of mental science

5-HTTLPR as a potential moderator of the effects of adverse childhood experiences on risk of antisocial personality disorder.

Unscreened

PMID 21399568 · 2011 · Psychiatric genetics

Serotonin transporter gene moderates childhood maltreatment's effects on persistent but not single-episode depression: replications and implications for resolving inconsistent results.

Unscreened

PMID 21439648 · 2011 · Journal of affective disorders

Interaction of 5-HTTLPR genotype and unipolar major depression in the emergence of aggressive/hostile traits.

Unscreened

PMID 21492940 · 2011 · Journal of affective disorders

The 5-HTTLPR polymorphism, impulsivity and suicide behavior in euthymic bipolar patients.

Unscreened

PMID 21550122 · 2011 · Journal of affective disorders

Role of serotonergic-related systems in suicidal behavior: Data from a case-control association study.

Unscreened

PMID 21575667 · 2011 · Progress in neuro-psychopharmacology & biological psychiatry

Serotonin transporter gene and childhood trauma--a G × E effect on anxiety sensitivity.

PMID 21681867 · 2011 · Depression and anxiety

Unscreened

Association between suicide attempt and a tri-allelic functional polymorphism in serotonin transporter gene promoter in Chinese patients with schizophrenia.

PMID 21964390 · 2011 · Neuroscience letters

Unscreened

Serotonin transporter polymorphism in major depressive disorder (MDD), psychiatric disorders, and in MDD in response to stressful life events: causes and treatment with antidepressant.

PMID 22021682 · 2011 · In vivo (Athens, Greece)

Unscreened

Negative affectivity moderated by BDNF and stress response.

PMID 22044630 · 2012 · Journal of affective disorders

Unscreened

Suicide ideators and attempters with schizophrenia--the role of 5-HTTLPR, rs25531, and 5-HTT VNTR Intron 2 variants.

PMID 22520017 · 2012 · Journal of psychiatric research

Unscreened

Serotonin system gene polymorphisms are associated with impulsivity in a context dependent manner.

PMID 22735397 · 2012 · Progress in neuro-psychopharmacology & biological psychiatry

Unscreened

The effects of child maltreatment on early signs of antisocial behavior: genetic moderation by tryptophan hydroxylase, serotonin transporter, and monoamine oxidase A genes.

PMID 22781862 · 2012 · Development and psychopathology

Unscreened

Star-crossed? The association of the 5-HTTLPR s allele with season of birth in a healthy female population, and possible consequences for temperament, depression and suicide.

PMID 22840619 · 2012 · Journal of affective disorders

Unscreened

Interaction between specific forms of childhood maltreatment and the serotonin transporter gene (5-HTT) in recurrent depressive disorder.

PMID 22840631 · 2013 · Journal of affective disorders

Unscreened

Serotonin transporter length polymorphism, childhood maltreatment, and chronic depression: a specific gene-environment interaction.

PMID 22847957 · 2013 · Depression and anxiety

Unscreened

[The neuroscience of suicide].

PMID 22868884 · 2012 · Brain and nerve = Shinkei kenkyu no shinpo

Unscreened

Influence of serotonin transporter promoter variation on the effects of separation from parent/partner on depression.

Unscreened

PMID 22884012 · 2013 · Journal of affective disorders

Contributions of maltreatment and serotonin transporter genotype to depression in childhood, adolescence, and early adulthood.

Unscreened

PMID 22951355 · 2013 · Journal of affective disorders

Strong effects of environmental factors on prevalence and course of major depressive disorder are not moderated by 5-HTTLPR polymorphisms in a large Dutch sample.

Unscreened

PMID 23021380 · 2013 · Journal of affective disorders

Association of the 5-HTT gene-linked promoter region (5-HTTLPR) polymorphism with psychiatric disorders: review of psychopathology and pharmacotherapy.

Unscreened

PMID 23226060 · 2012 · Pharmacogenomics and personalized medicine

Brain-derived neurotrophic factor serum levels and genotype: association with depression during interferon- α treatment.

Unscreened

PMID 23303061 · 2013 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

An association study of suicide and candidate genes in the serotonergic system.

Unscreened

PMID 23313272 · 2013 · Journal of affective disorders

Neurobiology of suicide: do biomarkers exist?

Unscreened

PMID 23430141 · 2014 · International journal of legal medicine

Testing the diathesis-stress model: 5-HTTLPR, childhood emotional maltreatment, and vulnerability to social anxiety disorder.

Unscreened

PMID 23475832 · 2013 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Three-way interaction effect of 5-HTTLPR, BDNF Val66Met, and childhood adversity on depression: a replication study.

Unscreened

PMID 23481907 · 2013 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Independent effects of 5' and 3' functional variants in the serotonin transporter gene on suicidal behavior in the context of childhood trauma.

Unscreened

PMID 23558235 · 2013 · Journal of psychiatric research

The interaction between child maltreatment, adult stressful life events and the 5-HTTLPR in major depression.

Unscreened

PMID 23618376 · 2013 · Journal of psychiatric research

Serotonergic genes and suicide: a systematic review.

PMID 23742855 · 2013 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Unscreened

Genetic association studies between SNPs and suicidal behavior: a meta-analytical field synopsis.

PMID 23831262 · 2013 · Progress in neuro-psychopharmacology & biological psychiatry

Unscreened

Showing the first 100 matching records. Use the filter to narrow the list.

04 Search Information

childhood maltreatment AND 5-HTTLPR

PubMed · 47 matching records · 47 retrieved · 10/7/2026, 2:09:39 PM

suicide AND 5-HTTLPR

PubMed · 134 matching records · 134 retrieved · 10/7/2026, 2:09:16 PM

Vishnu Shivam AND 5-HTTLPR

PubMed · 2 matching records · 2 retrieved · 10/7/2026, 2:08:56 PM

Vishnu Shivam

PubMed · 6 matching records · 6 retrieved · 10/7/2026, 2:08:35 PM

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.

Figure L7. Additional validation and performance evidence

SREMAN

Systematic Reviews, Evidence Synthesis & Meta-Analysis Manager

01

Review & Eligibility Criteria

PICO

Review name

5-HTTLPR AND childhood maltreatment

Population

Humans

Intervention / Exposure

Polymorphism in the 5-HTTLPR

Comparator

Wild allele

Outcomes

Interaction of 5-HTTLPR with childhood maltreatment in mental health outcomes

Study design

Relevant observational study

Inclusion criteria

Studies relevant to the inclusion PECOS criteria

Exclusion criteria

Studies not relevant to the PECOS criteria

✓ Criteria automatically saved in this browser.

02 Search PubMed

PUBMED

PubMed search query

5-HTTLPR AND suicide

Search PubMed

Completed PubMed search. 134 matching record(s). 134 article(s) retrieved.

PubMed Search Details

Search entered: 5-HTTLPR AND suicide

PubMed matching records: 134

PubMed query translation:

```
"5-HTTLPR"[All Fields] AND ("suicid"[All Fields] OR "suicidal ideation"[MeSH Terms] OR ("suicidal"[All Fields] AND "ideation"[All Fields]) OR "suicidal ideation"[All Fields] OR "suicidality"[All Fields] OR "suicidal"[All Fields] OR "suicidally"[All Fields] OR "suicidals"[All Fields] OR "suicide"[MeSH Terms] OR "suicide"[All Fields] OR "suicides"[All Fields] OR "suicide s"[All Fields] OR "suicided"[All Fields] OR "suicides"[All Fields])
```

Local database statistics

Total articles in project: 189

Imported records: 0

Total records processed: 189

03 Title & Abstract Screening

Total: 189 **Unscreened: 186** **Include: 1** **Exclude: 2**

Article 185 of 189

All (189)

Unscreened (186)

Include (1)

Exclude (2)

Filter PMID, title, journal or author...

[Browse records](#)

Records available

Screened

Included

Excluded

189

Local screening database

3

1.6% of records

1

33.3% of screened

2

66.7% of screened

Eligibility criteria

POPULATION

Humans

INTERVENTION / EXPOSURE

Polymorphism in the 5-HTTLPR

COMPARATOR

Wild allele

OUTCOME

Interaction of 5-HTTLPR with childhood maltreatment in mental health outcomes

STUDY DESIGN

Relevant observational study

REVIEW

5-HTTLPR AND childhood maltreatment

Exclusion reason summary

Duplicate

1

Not relevant

1

Childhood adversity and 5-HTTLPR across mental health outcomes: A transdiagnostic meta-analysis.

PMID: [41546921](#) | Year: 2026 | Journal: Child abuse & neglect | Article type: Journal Article Meta-Analysis

Authors: Shivam V

[Open PubMed](#)

[Open DOI](#)

Abstract

BACKGROUND: Childhood maltreatment is associated with increased risk for various psychiatric disorders, although individual responses to early adversity vary. The serotonin transporter-linked polymorphic region (5-HTTLPR) has been examined as a potential moderator of sensitivity to environmental stress, but findings across studies have been inconsistent.

OBJECTIVE: This meta-analysis examined whether 5-HTTLPR polymorphisms moderate the association between childhood adversity and clinically diagnosed psychiatric disorders.

PARTICIPANTS AND SETTINGS: Fourteen studies (N = 3479) were included, representing community, population-based, and clinical samples from multiple regions. Childhood adversity was assessed using validated interviews, questionnaires, or official electronic records.

METHODS: Systematic searches of eight databases (last updated 3 December 2025) identified studies reporting 5-HTTLPR genotype, childhood adversity, and psychiatric diagnoses. Ratio-of-odds-ratios (ROR) quantifies differences in adversity effects between S-allele carriers and LL homozygotes. Multilevel random-effects models generated pooled estimates. Sensitivity, moderator, and publication-bias analyses were performed. Study quality was assessed using the Newcastle-Ottawa Scale, and certainty of evidence using GRADE.

RESULTS: Pooled analyses indicated no statistically significant interaction between childhood adversity and 5-HTTLPR genotype (ROR = 1.11, 95% CI 0.89-1.37). Analyses restricted to SS-only or SL-only groups and sexual abuse-specific subgroups produced similar results. Heterogeneity was moderate, and small-study effects were borderline. Moderator analyses did not identify consistent influences of diagnosis or ancestry.

Screening decision

✓ Include

✗ Exclude

Exclusion reason

Not relevant



Screening notes

Record the reason for your decision or any screening notes...

← Previous

Next →

► Found by search (1)

A novel functional polymorphism within the promoter of the serotonin transporter gene: possible role in susceptibility to affective disorders.

Unscreened

PMID 9154246 · 1996 · Molecular psychiatry

Possible association of the short allele of the serotonin transporter promoter gene polymorphism (5-HTTLPR) with violent suicide.

Unscreened

PMID 10822348 · 2000 · Molecular psychiatry

A serotonin transporter gene promoter polymorphism (5-HTTLPR) and prefrontal cortical binding in major depression and suicide.

Unscreened

PMID 10920459 · 2000 · Archives of general psychiatry

Serotonin transporter gene polymorphisms, alcoholism, and suicidal behavior.

Unscreened

PMID 10960156 · 2000 · Biological psychiatry

Possible association between serotonin transporter gene polymorphism and violent suicidal behavior in mood disorders.

Unscreened

PMID 10960164 · 2000 · Biological psychiatry

Attempted suicide and polymorphism of the serotonin transporter gene in Chinese patients with schizophrenia.

Unscreened

PMID 11166082 · 2000 · Psychiatry research

A rare short allele of the serotonin transporter promoter region (5-HTTLPR) found in an aggressive schizophrenic patient of Jewish Libyan origin.

PMID 11324943 · 2000 · Psychiatric genetics

Unscreened

Association between violent suicidal behavior and the low activity allele of the serotonin transporter gene.

PMID 11326306 · 2001 · Molecular psychiatry

Unscreened

Family-based association study of serotonin transporter promoter in suicidal adolescents: no association with suicidality but possible role in violence traits.

PMID 11353442 · 2001 · American journal of medical genetics

Unscreened

Association between suicide attempts and 5-HTTLPR-S-allele in alcohol-dependent and control subjects: further evidence from a German alcohol-dependent inpatient sample.

PMID 11690601 · 2001 · Biological psychiatry

Unscreened

A polymorphism in the promoter of the serotonin transporter gene is not associated with suicidal behavior.

PMID 11702061 · 2001 · Psychiatric genetics

Unscreened

Serotonin transporter gene polymorphism and psychiatric disorders in NF1 patients.

PMID 11803526 · 2001 · American journal of medical genetics

Unscreened

No association between non-violent suicidal behavior and the serotonin transporter promoter polymorphism.

PMID 12497618 · 2003 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Possible association between serotonin transporter promoter region polymorphism and impulsivity in Koreans.

PMID 12759157 · 2003 · Psychiatry research

Unscreened

Genetics of the serotonergic system in suicidal behavior.

PMID 12849930 · 2003 · Journal of psychiatric research

Unscreened

Serotonin transporter gene promoter (5-HTTLPR) and intron 2 (VNTR) polymorphisms in Croatian suicide victims.

PMID 14573315 · 2003 · Biological psychiatry

Unscreened

Is there an association between serotonin transporter gene polymorphism and family history of depression?

PMID 14612228 · 2003 · Journal of affective disorders

Unscreened

Serotonin transporter gene may be involved in short-term risk of subsequent suicide attempts.

PMID 14706424 · 2004 · Biological psychiatry

Unscreened

Serotonin transporter 5HTTLPR polymorphism and affective disorders: no evidence of association in a large European multicenter study.

PMID 14735161 · 2004 · European journal of human genetics : EJHG

Unscreened

Association between low-activity serotonin transporter genotype and heroin dependence: behavioral and personality correlates.

PMID 15048645 · 2004 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Association between serotonin transporter gene promoter polymorphism and suicide: results of a meta-analysis.

PMID 15121487 · 2004 · Biological psychiatry

Unscreened

Familial suicide behaviour: association with probands suicide attempt characteristics and 5-HTTLPR polymorphism.

PMID 15521831 · 2004 · Acta psychiatrica Scandinavica

Unscreened

Relationship between suicidal behavior of psychotic inpatients and serotonin transporter gene in Han Chinese.

PMID 15531095 · 2004 · Neuroscience letters

Unscreened

Male-specific association between the 5-HTTLPR S allele and suicide attempts in alcohol-dependent subjects.

PMID 15589566 · 2005 · Journal of psychiatric research

Unscreened

Relationships between serotonin transporter promoter polymorphism, platelet serotonin transporter binding and clinical phenotype in suicidal and non-suicidal adolescent inpatients.

Unscreened

PMID 15657646 · 2005 · Journal of neural transmission (Vienna, Austria : 1996)

Meta-analysis in psychiatric genetics.

Unscreened

PMID 15802092 · 2005 · Current psychiatry reports

The socio-economic status of communities predicts variation in brain serotonergic responsivity.

Unscreened

PMID 15856722 · 2005 · Psychological medicine

Association study of a novel functional polymorphism of the serotonin transporter gene in bipolar disorder and suicidal behaviour.

Unscreened

PMID 15986189 · 2005 · Psychopharmacology

STin2 variant and family history of suicide as significant predictors of suicide completion in major depression.

Unscreened

PMID 16125146 · 2006 · Biological psychiatry

Association study between the novel functional polymorphism of the serotonin transporter gene and suicidal behaviour in schizophrenia.

Unscreened

PMID 16274962 · 2006 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

The genetics of depression: a review.

Unscreened

PMID 16300747 · 2006 · Biological psychiatry

[Suicide attempt, psychopathology and genetics].

Unscreened

PMID 16389730 · 2005 · Psychiatria Hungarica : A Magyar Pszichiatriai Tarsasag tudomanyos folyoirata

Genetics of suicide.

Unscreened

PMID 16462816 · 2006 · Molecular psychiatry

The serotonin transporter promoter polymorphism and suicide.

PMID 16510244 · 2006 · Neuroscience letters

Unscreened

Association between serotonin transporter gene and borderline personality disorder.

PMID 16690085 · 2006 · Journal of psychiatric research

Unscreened

Association between suicide attempts in south Brazilian depressed patients with the serotonin transporter polymorphism.

PMID 16859753 · 2006 · Psychiatry research

Unscreened

Association of a triallelic serotonin transporter gene promoter region (5-HTTLPR) polymorphism with stressful life events and severity of depression.

PMID 16946185 · 2006 · The American journal of psychiatry

Exclude

Serotonin transporter gene promoter (5-HTTLPR) and intron 2 (VNTR) polymorphisms: a study on Slovenian population of suicide victims.

PMID 16969272 · 2006 · Psychiatric genetics

Unscreened

Meta-analysis supports association between serotonin transporter (5-HTT) and suicidal behavior.

PMID 16969368 · 2007 · Molecular psychiatry

Unscreened

The serotonin transporter gene: polymorphism and haplotype analysis in Russian suicide attempters.

PMID 17028448 · 2006 · Neuropsychobiology

Unscreened

Association of the serotonin transporter promoter polymorphism with suicide attempters with a high medical damage.

PMID 17029913 · 2007 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Unscreened

Serotonin transporter (5-HTTLPR) genotype, childhood abuse, and suicide attempts in adult psychiatric inpatients.

PMID 17250473 · 2006 · Suicide & life-threatening behavior

Unscreened

Interaction between childhood trauma and serotonin transporter gene variation in suicide.

PMID 17356577 · 2007 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

Unscreened

Gene-by-environment (serotonin transporter and childhood maltreatment) interaction for anxiety sensitivity, an intermediate phenotype for anxiety disorders.

Unscreened

PMID 17460615 · 2008 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

Is the 5-HTTLPR polymorphism associated with bipolar disorder or with suicidal behavior of bipolar disorder patients?

Unscreened

PMID 17579356 · 2008 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Analysis of association of clinical correlates and 5-HTTLPR polymorphism with suicidal behavior among Chinese methamphetamine abusers.

Unscreened

PMID 17875025 · 2007 · Psychiatry and clinical neurosciences

Relationship of SERT polymorphisms to depressive and anxiety symptoms in irritable bowel syndrome.

Unscreened

PMID 17909168 · 2007 · Biological research for nursing

Association between the serotonin transporter gene and personality traits in borderline personality disorder patients evaluated with Zuckerman-Zuhlman Personality Questionnaire (ZKPQ).

Unscreened

PMID 18004675 · 2007 · Actas espanolas de psiquiatria

[Treatment of depression from the point of view of suicide prevention].

Unscreened

PMID 18064872 · 2007 · Seishin shinkeigaku zasshi = Psychiatria et neurologia Japonica

Serotonin transporter gene polymorphisms: effect on serotonin transporter availability in the brain of suicide attempters.

Unscreened

PMID 18314311 · 2008 · Psychiatry research

Serotonin transporter polymorphism (5-HTTLPR) and citalopram effectiveness and side effects in children with depression and/or anxiety disorders.

Unscreened

PMID 18315446 · 2007 · Journal of child and adolescent psychopharmacology

Depression and the serotonin transporter 5-HTTLPR polymorphism: a review and a hypothesis concerning gene-environment interaction.

Unscreened

PMID 18534686 · 2008 · Journal of affective disorders

Interaction between gene variants of the serotonin transporter promoter region (5-HTTLPR) and catechol O-methyltransferase (COMT) in borderline personality disorder.

PMID 18756498 · 2009 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Association between the A-1438G polymorphism of the serotonin 2A receptor gene and nonimpulsive suicide attempts.

PMID 18797395 · 2008 · Psychiatric genetics

Unscreened

Novel allelic variants in the human serotonin transporter gene linked polymorphism (5-HTTLPR) among depressed patients with suicide attempt.

PMID 19103261 · 2009 · Neuroscience letters

Unscreened

Reported childhood abuse is associated with low serotonin transporter binding in vivo in major depressive disorder.

PMID 19288578 · 2009 · Synapse (New York, N.Y.)

Unscreened

Molecular epidemiology of major depressive disorder.

PMID 19568851 · 2009 · Environmental health and preventive medicine

Unscreened

Association of adverse childhood environment and 5-HTTLPR Genotype with late-life depression.

PMID 19573496 · 2009 · The Journal of clinical psychiatry

Unscreened

Life-time adversities, reported thirteen years after a suicide attempt: relationship to recovery, 5HTTLPR genotype, and past and present morbidity.

PMID 19590996 · 2009 · Archives of suicide research : official journal of the International Academy for Suicide Research

Unscreened

The serotonin transporter gene polymorphism (5-HTTLPR) and affective symptoms among women diagnosed with borderline personality disorder.

PMID 19699062 · 2010 · European psychiatry : the journal of the Association of European Psychiatrists

Unscreened

Interaction of child maltreatment and 5-HTT polymorphisms: suicidal ideation among children from low-SES backgrounds.

PMID 19779024 · 2010 · Journal of pediatric psychology

Unscreened

Is the serotonin transporter polymorphism (5-HTTLPR) a potential marker for suicidal behavior in bipolar disorder patients?

PMID 20096463 · 2010 · Journal of affective disorders

Unscreened

Association of serotonin transporter promoter gene polymorphism (5-HTTLPR) with depression in Costa Rican schizophrenic patients.

PMID 20397838 · 2010 · Journal of neurogenetics

Unscreened

Investigation of serotonin transporter gene promoter (5-HTTLPR) and intron 2 (variable number of tandem repeats) polymorphisms with suicidal behavior in a Turkish population.

PMID 20438360 · 2010 · DNA and cell biology

Unscreened

Timing is critical: gene, environment and timing interactions in genetics of suicide in children and adolescents.

PMID 20444577 · 2010 · European psychiatry : the journal of the Association of European Psychiatrists

Unscreened

Serotonin transporter gene, childhood emotional abuse and cognitive vulnerability to depression.

PMID 20455953 · 2010 · Genes, brain, and behavior

Unscreened

Early-life stress, corticotropin-releasing factor, and serotonin transporter gene: a pilot study.

PMID 20692103 · 2011 · Psychoneuroendocrinology

Unscreened

The possible contributory role of the S allele of 5-HTTLPR in the emergence of suicidality.

PMID 20837566 · 2011 · Journal of psychopharmacology (Oxford, England)

Unscreened

Rare genotype combination of the serotonin transporter gene associated with treatment response in severe personality disorder.

PMID 20862697 · 2010 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

The serotonin transporter promoter variant (5-HTTLPR), stress, and depression meta-analysis revisited: evidence of genetic moderation.

PMID 21199959 · 2011 · Archives of general psychiatry

Unscreened

Life stress, 5-HTTLPR and mental disorder: findings from a 30-year longitudinal study.

PMID 21282783 · 2011 · The British journal of psychiatry : the journal of mental science

Unscreened

5-HTTLPR as a potential moderator of the effects of adverse childhood experiences on risk of antisocial personality disorder.

PMID 21399568 · 2011 · Psychiatric genetics

Unscreened

Serotonin transporter gene moderates childhood maltreatment's effects on persistent but not single-episode depression: replications and implications for resolving inconsistent results.

PMID 21439648 · 2011 · Journal of affective disorders

Unscreened

Interaction of 5-HTTLPR genotype and unipolar major depression in the emergence of aggressive/hostile traits.

PMID 21492940 · 2011 · Journal of affective disorders

Unscreened

The 5-HTTLPR polymorphism, impulsivity and suicide behavior in euthymic bipolar patients.

PMID 21550122 · 2011 · Journal of affective disorders

Unscreened

Role of serotonergic-related systems in suicidal behavior: Data from a case-control association study.

PMID 21575667 · 2011 · Progress in neuro-psychopharmacology & biological psychiatry

Unscreened

Serotonin transporter gene and childhood trauma--a G × E effect on anxiety sensitivity.

PMID 21681867 · 2011 · Depression and anxiety

Unscreened

Association between suicide attempt and a tri-allelic functional polymorphism in serotonin transporter gene promoter in Chinese patients with schizophrenia.

PMID 21964390 · 2011 · Neuroscience letters

Unscreened

Serotonin transporter polymorphism in major depressive disorder (MDD), psychiatric disorders, and in MDD in response to stressful life events: causes and treatment with antidepressant.

PMID 22021682 · 2011 · In vivo (Athens, Greece)

Unscreened

Negative affectivity moderated by BDNF and stress response.

PMID 22044630 · 2012 · Journal of affective disorders

Unscreened

Suicide ideators and attempters with schizophrenia--the role of 5-HTTLPR, rs25531, and 5-HTT VNTR Intron 2 variants.

PMID 22520017 · 2012 · Journal of psychiatric research

Unscreened

Serotonin system gene polymorphisms are associated with impulsivity in a context dependent manner.

PMID 22735397 · 2012 · Progress in neuro-psychopharmacology & biological psychiatry

Unscreened

The effects of child maltreatment on early signs of antisocial behavior: genetic moderation by tryptophan hydroxylase, serotonin transporter, and monoamine oxidase A genes.

PMID 22781862 · 2012 · Development and psychopathology

Unscreened

Star-crossed? The association of the 5-HTTLPR s allele with season of birth in a healthy female population, and possible consequences for temperament, depression and suicide.

PMID 22840619 · 2012 · Journal of affective disorders

Unscreened

Interaction between specific forms of childhood maltreatment and the serotonin transporter gene (5-HTT) in recurrent depressive disorder.

PMID 22840631 · 2013 · Journal of affective disorders

Unscreened

Serotonin transporter length polymorphism, childhood maltreatment, and chronic depression: a specific gene-environment interaction.

PMID 22847957 · 2013 · Depression and anxiety

Unscreened

[The neuroscience of suicide].

PMID 22868884 · 2012 · Brain and nerve = Shinkei kenkyu no shinpo

Unscreened

Influence of serotonin transporter promoter variation on the effects of separation from parent/partner on depression.

PMID 22884012 · 2013 · Journal of affective disorders

Unscreened

Contributions of maltreatment and serotonin transporter genotype to depression in childhood, adolescence, and early adulthood.

PMID 22951355 · 2013 · Journal of affective disorders

Unscreened

Strong effects of environmental factors on prevalence and course of major depressive disorder are not moderated by 5-HTTLPR polymorphisms in a large Dutch sample.

PMID 23021380 · 2013 · Journal of affective disorders

Unscreened

Association of the 5-HTT gene-linked promoter region (5-HTTLPR) polymorphism with psychiatric disorders: review of psychopathology and pharmacotherapy.

PMID 23226060 · 2012 · Pharmacogenomics and personalized medicine

Unscreened

Brain-derived neurotrophic factor serum levels and genotype: association with depression during interferon- α treatment.

PMID 23303061 · 2013 · Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology

Unscreened

An association study of suicide and candidate genes in the serotonergic system.

PMID 23313272 · 2013 · Journal of affective disorders

Unscreened

Neurobiology of suicide: do biomarkers exist?

PMID 23430141 · 2014 · International journal of legal medicine

Unscreened

Testing the diathesis-stress model: 5-HTTLPR, childhood emotional maltreatment, and vulnerability to social anxiety disorder.

PMID 23475832 · 2013 · American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics

Unscreened

Three-way interaction effect of 5-HTTLPR, BDNF Val66Met, and childhood adversity on depression: a replication study.

PMID 23481907 · 2013 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Unscreened

Independent effects of 5' and 3' functional variants in the serotonin transporter gene on suicidal behavior in the context of childhood trauma.

PMID 23558235 · 2013 · Journal of psychiatric research

Unscreened

The interaction between child maltreatment, adult stressful life events and the 5-HTTLPR in major depression.

PMID 23618376 · 2013 · Journal of psychiatric research

Unscreened

Serotonergic genes and suicide: a systematic review.

PMID 23742855 · 2013 · European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology

Unscreened

Genetic association studies between SNPs and suicidal behavior: a meta-analytical field synopsis.

PMID 23831262 · 2013 · Progress in neuro-psychopharmacology & biological psychiatry

Unscreened

Showing the first 100 matching records. Use the filter to narrow the list.

04 Search Information

5-HTTLPR AND suicide

PubMed · 134 matching records · 134 retrieved · 10/8/2026, 4:32:56 PM

vishnu shivam

PubMed · 6 matching records · 6 retrieved · 10/8/2026, 4:32:46 PM

5-HTTLPR AND vishnu shivam

PubMed · 2 matching records · 2 retrieved · 10/8/2026, 4:32:39 PM

5-HTTLPR AND childhood maltreatment

PubMed · 47 matching records · 47 retrieved · 10/8/2026, 4:32:19 PM

05 Project Data & Backup

Manage, export, import, and preserve your review data. Project data, including screening records and review settings, is stored locally in your browser.

Export Screening Data (CSV)

Export Summary Statistics (CSV)

Backup Project Data (JSON)

Import Screening Data (CSV/RIS)

Restore Project Data (JSON)

Clear Project Data

Citation: Vishnu Shivam. (2026). SREMAN: Systematic Reviews, Evidence Synthesis and Meta Analysis Manager.

Data preservation notice: This application stores project data locally in your browser. Local browser data may be lost if site data is cleared, browser storage is removed, or the application environment changes. For completed or important reviews, create and securely retain a project backup before clearing project data or removing browser data. Do not rely on browser storage as the sole copy of your review.