

Appendix

Search Strategies

PubMed

("multiple chemical sensitivity"[MeSH Terms] OR ("multiple"[Title/Abstract] AND "chemical"[Title/Abstract] AND "sensitivity"[Title/Abstract]) OR "multiple chemical sensitivity"[Title/Abstract] OR ("multiple"[Title/Abstract] AND "chemical"[Title/Abstract] AND "sensitivities"[Title/Abstract]) OR "multiple chemical sensitivities"[Title/Abstract] OR "MCS syndrome"[Title/Abstract] OR "chemical intolerance"[Title/Abstract] OR "chemically intolerant"[Title/Abstract] OR "chemical hypersensitivity"[Title/Abstract] OR "chemical AIDS"[Title/Abstract] OR "chemical sensitivity disorder"[Title/Abstract] OR "chemical sensitivity syndromes"[Title/Abstract] OR "chemophobia"[Title/Abstract] OR "environmental chemical odor intolerance"[Title/Abstract] OR "sensitivity to environmental chemicals"[Title/Abstract] OR ("chemical"[Title/Abstract] AND "environmental illness"[Title/Abstract]) OR "chemically induced environmental illnesses"[Title/Abstract] OR "total allergy syndrome"[Title/Abstract] OR "twentieth century disease"[Title/Abstract] OR "20th century disease"[Title/Abstract] OR "building-related illness"[Title/Abstract] OR "toxicant induced loss of tolerance"[Title/Abstract] OR "Toxicant-Induced Loss of Tolerance"[Title/Abstract] OR chemical hyperreactivity[Title/Abstract] OR chemosensory[Title/Abstract] OR "idiopathic environmental intolerance"[Title/Abstract] OR "idiopathic environmental intolerances"[Title/Abstract] OR "idiopathic environmental illness"[Title/Abstract] OR "symptoms associated with environmental factors"[Title/Abstract])
Filter: English

Agricultural & Environmental Science Collection

(noft("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome") OR noft("chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia") OR noft("environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses") OR noft("total allergy syndrome") OR noft("twentieth century disease" OR "20th century disease" OR "building-related illness") OR noft("toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance") OR noft("chemical hyperreactivity OR chemosensory") OR noft("idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors"))
AND
(stype.exact("Scholarly Journals" OR "Other Sources" OR "Reports")
AND
la.exact("ENG"))

BIOSIS

TS=("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced

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AND

Article (Document Types)

AND

English (Languages)

CINAHL

TI ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness") OR SU ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness") OR AB ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors")

AND

English language

Current Contents

TS=("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR

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AND

English (Language)

AND

Article or Review Article or Correction (Document Types)

EMBASE

'multiple chemical sensitivity':ti,ab,kw OR 'multiple chemical sensitivities':ti,ab,kw OR 'mcs syndrome':ti,ab,kw OR 'chemical intolerance':ti,ab,kw OR 'chemically intolerant':ti,ab,kw OR 'chemical hypersensitivity':ti,ab,kw OR 'chemical aids':ti,ab,kw OR 'chemical sensitivity disorder':ti,ab,kw OR 'chemical sensitivity syndromes':ti,ab,kw OR 'chemophobia':ti,ab,kw OR 'environmental chemical odor intolerance':ti,ab,kw OR 'sensitivity to environmental chemicals':ti,ab,kw OR ('chemical':ti,ab,kw AND 'environmental illness':ti,ab,kw) OR 'chemically induced environmental illnesses':ti,ab,kw OR 'total allergy syndrome':ti,ab,kw OR 'twentieth century disease':ti,ab,kw OR '20th century disease':ti,ab,kw OR 'building-related illness':ti,ab,kw OR 'toxicant induced loss of tolerance':ti,ab,kw OR 'toxicant-induced loss of tolerance':ti,ab,kw OR 'chemical hyperreactivity':ti,ab,kw OR 'chemosensory':ti,ab,kw OR 'idiopathic environmental intolerance':ti,ab,kw OR 'idiopathic environmental intolerances':ti,ab,kw OR 'idiopathic environmental illness':ti,ab,kw OR 'symptoms associated with environmental factors':ti,ab,kw

AND

english:la

AND

('article'/it OR 'review'/it)

Environment Index

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Environmental Science

Search: TI ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors") OR SU ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors") OR AB ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th

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 AND
 Source Type: Reports, Scholarly Journals, Working Papers
 AND
 Language: English

Healthcare Administration

noft("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR “twentieth century disease” OR “20th century disease” OR “building-related illness” OR “toxicant induced loss of tolerance” OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR “symptoms associated with environmental factors”)
 Limits applied
 AND
 Source type: Reports, Scholarly Journals
 AND
 Language: English

HERO

"multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR “twentieth century disease” OR “20th century disease” OR “building-related illness” OR “toxicant induced loss of tolerance” OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR “symptoms associated with environmental factors”
 AND
 Language: English

PsycINFO

((Language: (English))) AND (((title: ("multiple chemical sensitivity")) OR (title: ("multiple chemical sensitivities")) OR (title: ("MCS syndrome")) OR (title: ("chemical intolerance")) OR (title: ("chemically intolerant")) OR (title: ("chemical hypersensitivity")) OR (title: ("chemical AIDS")) OR (title: ("chemical sensitivity disorder")) OR (title: ("chemical sensitivity syndromes")) OR (title: ("chemophobia")) OR (title: ("environmental chemical odor

intolerance")) OR (title: ("sensitivity to environmental chemicals")) OR ((title: ("chemical")) AND (title: ("environmental illness"))) OR (title: ("chemically induced environmental illnesses")) OR (title: ("total allergy syndrome")) OR (title: ("twentieth century disease")) OR (title: ("20th century disease")) OR (title: ("building-related illness")) OR (title: ("toxicant induced loss of tolerance")) OR (title: ("Toxicant-Induced Loss of Tolerance")) OR (title: ("chemical hyperreactivity")) OR (title: ("chemosensory")) OR (title: ("idiopathic environmental intolerance")) OR (title: ("idiopathic environmental intolerances")) OR (title: ("idiopathic environmental illness")) OR (title: ("symptoms associated with environmental factors"))) OR ((abstract: ("multiple chemical sensitivity")) OR (abstract: ("multiple chemical sensitivities")) OR (abstract: ("MCS syndrome")) OR (abstract: ("chemical intolerance")) OR (abstract: ("chemically intolerant")) OR (abstract: ("chemical hypersensitivity")) OR (abstract: ("chemical AIDS")) OR (abstract: ("chemical sensitivity disorder")) OR (abstract: ("chemical sensitivity syndromes")) OR (abstract: ("chemophobia")) OR (abstract: ("environmental chemical odor intolerance")) OR (abstract: ("sensitivity to environmental chemicals")) OR ((abstract: ("chemical")) AND (abstract: ("environmental illness"))) OR (abstract: ("chemically induced environmental illnesses")) OR (abstract: ("total allergy syndrome")) OR (abstract: ("twentieth century disease")) OR (abstract: ("20th century disease")) OR (abstract: ("building-related illness")) OR (abstract: ("toxicant induced loss of tolerance")) OR (abstract: ("Toxicant-Induced Loss of Tolerance")) OR (abstract: ("chemical hyperreactivity")) OR (abstract: ("chemosensory")) OR (abstract: ("idiopathic environmental intolerance")) OR (abstract: ("idiopathic environmental intolerances")) OR (abstract: ("idiopathic environmental illness")) OR (abstract: ("symptoms associated with environmental factors"))) OR ((Index Terms: ("multiple chemical sensitivity")) OR (Index Terms: ("multiple chemical sensitivities")) OR (Index Terms: ("MCS syndrome")) OR (Index Terms: ("chemical intolerance")) OR (Index Terms: ("chemically intolerant")) OR (Index Terms: ("chemical hypersensitivity")) OR (Index Terms: ("chemical AIDS")) OR (Index Terms: ("chemical sensitivity disorder")) OR (Index Terms: ("chemical sensitivity syndromes")) OR (Index Terms: ("chemophobia")) OR (Index Terms: ("environmental chemical odor intolerance")) OR (Index Terms: ("sensitivity to environmental chemicals")) OR ((Index Terms: ("chemical")) AND (Index Terms: ("environmental illness"))) OR (Index Terms: ("chemically induced environmental illnesses")) OR (Index Terms: ("total allergy syndrome")) OR (Index Terms: ("twentieth century disease")) OR (Index Terms: ("20th century disease")) OR (Index Terms: ("building-related illness")) OR (Index Terms: ("toxicant induced loss of tolerance")) OR (Index Terms: ("Toxicant-Induced Loss of Tolerance")) OR (Index Terms: ("chemical hyperreactivity")) OR (Index Terms: ("chemosensory")) OR (Index Terms: ("idiopathic environmental intolerance")) OR (Index Terms: ("idiopathic environmental intolerances")) OR (Index Terms: ("idiopathic environmental illness")) OR (Index Terms: ("symptoms associated with environmental factors")))))

AND

Publication Type: Peer Reviewed Journal

SciFinder

"multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR

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AND

English language

AND

Exclude: Patent, Book, Commentary, Conference, Dissertation, Editorial, Letter

SCOPUS

(TITLE-ABS-KEY ("multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" OR "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chemophobia" OR "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" OR "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors")

AND

(LIMIT-TO (DOCTYPE, "ar") OR LIMIT-TO (DOCTYPE, "re"))

AND

(LIMIT-TO (LANGUAGE, "English"))

Web of Science

"multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "MCS syndrome" or "chemical intolerance" OR "chemically intolerant" OR "chemical hypersensitivity" OR "chemical AIDS" OR "chemical sensitivity disorder" OR "chemical sensitivity syndromes" OR "chromophobia" or "environmental chemical odor intolerance" OR "sensitivity to environmental chemicals" OR ("chemical" AND "environmental illness") OR "chemically induced environmental illnesses" OR "total allergy syndrome" OR "twentieth century disease" OR "20th century disease" OR "building-related illness" or "toxicant induced loss of tolerance" OR "Toxicant-Induced Loss of Tolerance" OR "chemical hyperreactivity" OR "chemosensory" OR "idiopathic environmental intolerance" OR "idiopathic environmental intolerances" OR "idiopathic environmental illness" OR "symptoms associated with environmental factors"

(Topic)

AND

English (Language)

AND

Article or Review Article (Document Types)

G-I-N

"multiple chemical sensitivity" OR "multiple chemical sensitivities" OR "chemical intolerance"

ECRI

“multiple chemical sensitivity” OR “multiple chemical sensitivities” OR “chemical intolerance”

MAGICapp

mutiple chemical sensitivity, multiple chemical sensitivities, chemical intolerance

Guideline Resources Online

mutiple chemical sensitivity, multiple chemical sensitivities, chemical intolerance

TRIP Medical Database

mutiple chemical sensitivity, multiple chemical sensitivities, chemical intolerance

ClinicalKey

mutiple chemical sensitivity, multiple chemical sensitivities, chemical intolerance

ClinicalTrials.gov (classic website)

“multiple chemical sensitivity” OR “multiple chemical sensitivities” OR “chemical intolerance”
AND Completed Studies

WHO International Clinical Trials Registry Platform

“multiple chemical sensitivity” OR “multiple chemical sensitivities” OR “chemical intolerance”

Evidence Tables

Draft Operational MCS Definitions Component Table

Operational Definition	Disorder is acquired in relation to some documentable environmental exposure, insult or illness	Symptoms involve more than 1 organ system	Symptoms recur and abate in response to predictable stimuli	Symptoms are elicited by exposures to chemicals of diverse structural classes and toxicologic modes of actions	Symptoms are elicited by exposures that are demonstrable	Exposure that elicits symptoms must be very low	No single widely available test of organ systems function can explain symptoms
Reference: Cullen, 1987	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Draft Evidence Table KQ A: MCS Operational Definitions

Author, year Endorsing body	Terminology Definition	Diagnostic criteria	Changes and rationale^	Development process	Content validity	Construct validity	Criterion validity

Note: ^ if the definition is a modification of a published definition

Draft Evidence Table KQ B: MCS Diagnostic Tools

Author, year Country	Terminology Definition or criteria of MCS	Sample characteristics	Reference standard	Reliability	Validity	Index Tests Diagnostic performance

Draft Evidence Table KQ C: MCS Prevalence and Incidence

Author, year Year of	Recruitment strategy	Case definition of MCS	Incidence	Denominator: Prevalence: Denominator 2:
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estimate Size	Geographic region			Prevalence 2:

Draft Evidence Table KQ D: MCS as a Distinct Disorder

Author, year	Study aim	Analytic approach	Authors' conclusion regarding MCS as a distinct disorder

Draft Evidence Table KQ E: Underlying Mechanism Resulting in MCS

Author, year Mechanism category	Biological mechanism description Method to test the hypothesis Type of evidence	Strength of association Consistency	Specificity Discriminant validity	Temporality Biological gradient Plausibility Coherence	Experimental evidence Analog evidence	Authors' conclusion

Draft Evidence Table KQ F: MCS Interventions

Author, publication year Country Study design	MCS operationalization N Sample characteristics Clinical setting	Intervention type Intervention characteristics	Control / Comparator type Control / Comparator details	Effectiveness outcome measure and results	Adverse event measure and results

Draft Critical Appraisal Tables

Draft KQ A (Definition Validity) Critical Appraisal

Study ID	Validity testing	Evidence-based	Stakeholder engagement	Source

Draft KQB (Tool Performance) Critical Appraisal

Study ID	Patient selection	Index test	Reference standard	Flow and timing

Draft KQC (Prevalence and Incidence) Critical Appraisal

Study ID	Participants	Exposure / Intervention	Comparison	Measures	Setting	Design

Draft KQD (Distinct Disorder) Critical Appraisal

Study ID	Participants	Statistical analysis	Measured	Methods	Data	Setting	Size	Sample	Frame

Draft KQ E (Underlying Mechanism) Critical Appraisal

Study ID	Eligibility	Sample	Exposure	Condition measurement	Confounding	Outcome measurement	Other

Draft KQ F (Interventions) Critical Appraisal

Study ID	Selection bias	Performance bias	Attrition bias	Detection bias	Reporting bias	Other source of bias

Draft Summary of Findings and Certainty of Evidence Table

KQ	Study design, number of studies	Reasons for downgrading Quality of Evidence	Findings across publications	GRADE category
KQ A Definition				
Definitions				
KQ B Diagnosis				
Test / diagnostic marker				
Genetic marker				
KQC Prevalence				
Prevalence estimates				
Incidence estimates				
KQD Disorder evidence				
Direct evidence				
Mechanistic evidence				
Parallel evidence				
KQ E Biological mechanism				

Biological mechanism				
KQ F Interventions				
Intervention				
Comparator				
Outcome				