

Appendix 1 Search strategies

If all or a substantive part of the search strategies below are reused in another publication, please cite this report!

Multi-database searching: Academic Search Premiere/APA PsycInfo/CINAHL /SocINDEX via EBSCO 26 August 2025

Title: Alkoholkonsumtion och värden av fosfatidyletanoler (PEth) i blodet.

Search terms	Items found
Index test: Peth	
1. TI ((Peth OR phosphatidylethanol OR B-Phosphatidylethanol OR "phosphatidyl ethanol" OR B-PEth)) OR AB ((Peth OR phosphatidylethanol OR B-Phosphatidylethanol OR "phosphatidyl ethanol" OR B-PEth))	925
2. TI ("direct biomarker*" OR "Alcohol biomarker*" OR "ethanol biomarker*" OR "blood alcohol concentration") OR AB ("direct biomarker*" OR "Alcohol biomarker*" OR "ethanol biomarker*" OR "blood alcohol concentration")	4 564
3. 1 OR 2	5 251
Outcome: ökad risk för skadligt bruk	
4. TI((Alcohol* OR Drink*) N1 (abuse OR At-risk OR binge OR chronic OR depend* OR disorder* OR excessive OR harmful OR hazardous OR High-risk OR heavy OR intoxica* OR misuse OR problem* OR risk* OR Unhealthy) OR alcoholism OR "operating while intoxicated" OR "Under the influence") OR AB((Alcohol* OR Drink*) N1 (abuse OR At-risk OR binge OR chronic OR depend* OR disorder* OR excessive OR harmful OR hazardous OR High-risk OR heavy OR intoxica* OR misuse OR problem* OR risk* OR Unhealthy) OR alcoholism OR "operating while intoxicated" OR "Under the influence")	288 129
Study types: systematic reviews and meta-analyses	
5. TI((systematic N3 review) OR "meta analys*" OR metaanalys*) OR AB((systematic N3 review) OR "meta analys*" OR metaanalys*) OR SU((systematic N3 review) OR "meta analys*" OR metaanalys*)	775 005
Final result	
6. 3 AND 5 (SÖ)	110
7. 1 NOT 6 (övriga studier)	909

The final search result, usually found at the end of the documentation, forms the list of abstracts.

AB = Abstract; **AU** = Author; **DE** = Term from the thesaurus; **EM** = Entry date; **KW** (Available in Academic Search Premiere / SocINDEX / PsycInfo) = Author keyword; **MH** = Exact Subject Heading from CINAHL Subject Headings; **MM** = Major Concept; **RD** = Release date; **SU** = Searches for a part of or an entire subject heading; **TI** = Title; **TX** = All Text. Performs a keyword search of all the database's searchable fields; **ZC** = Methodology Index; * = Truncation; " " = Citation Marks; searches for an exact phrase; # = replaces one or no letters; ? = replaces one letter; **N** = Near Operator (N) finds the words if they are a maximum of x words apart from one another, regardless of the order in which they appear.; **W** = Within Operator (W) finds the words if they are within x words of one another, in the order in which you entered them

Epistemonikos 27 August 2025

Title: Alkoholkonsumtion och värden av fosfatidyletanoler (PEth) i blodet

Search terms		Items found
Index test: Peth		
1.	Title/abstract: (Peth OR phosphatidylethanol OR B-Phosphatidylethanol OR "phosphatidyl ethanol" OR B-PEth)	230
Final result		
2.	1 limited to systematic review	9
3.	1 limited to primary studies	220

The final search result, usually found at the end of the documentation, forms the list of abstracts.

AB = Abstract; **AU** = Author; **DE** = Term from the thesaurus; **EM** = Entry date; **KW** (Available in Academic Search Premiere / SocINDEX / PsycInfo) = Author keyword; **MH** = Exact Subject Heading from CINAHL Subject Headings; **MM** = Major Concept; **RD** = Release date; **SU** = Searches for a part of or an entire subject heading; **TI** = Title; **TX** = All Text. Performs a keyword search of all the database's searchable fields; **ZC** = Methodology Index; * = Truncation; " " = Citation Marks; searches for an exact phrase; # = replaces one or no letters; ? = replaces one letter; **N** = Near Operator (N) finds the words if they are a maximum of x words apart from one another, regardless of the order in which they appear.; **W** = Within Operator (W) finds the words if they are within x words of one another, in the order in which you entered them

Medline via OvidSP 27 August 2025

Title: Alkoholkonsumtion och värden av fosfatidyletanoler (PEth) i blodet

Search terms		Items found
Index test: Peth /biomarkers		
1.	(Peth OR phosphatidylethanol OR B-Phosphatidylethanol OR "phosphatidyl ethanol" OR B-PEth).ti,ab,kf,bt OR phosphatidylethanol.nm.	1219
2.	Biomarkers/ OR biomarker.ti OR "direct biomarker*".ti,ab,kf,bt OR "Alcohol biomarker*".ti,ab,kf,bt OR "ethanol biomarker*" OR "blood alcohol concentration".ti,ab,kf,bt	390719
Outcome: ökad risk för skadligt bruk		
3.	Alcoholism/ OR Substance Abuse Detection/ OR Exp Alcohol Drinking/ OR exp alcohol-related disorders/	194966
4.	((Alcohol* OR Drink*) ADJ1 (abuse OR At-risk OR binge OR chronic OR depend* OR disorder* OR excessive OR harmful OR hazardous OR High-risk OR heavy OR intoxica* OR misuse OR problem* OR risk* OR Unhealthy) OR alcoholism OR "operating while intoxicated" OR "Under the influence").ti,ab,kf,bt	122309
5.	2 AND (3 OR 4)	4356
Study types: systematic reviews and meta-analyses		
6.	(Systematic Review/ or Meta-Analysis/ or Cochrane Database Syst Rev.ja. or Meta-Analysis as Topic/ or Network Meta-Analysis/ or Technology Assessment, Biomedical/ or Systematic Reviews as Topic/ or ((systematic* adj4 review*) or (systematic* adj4 bibliographic*) or (systematic* adj4 literature) or (comprehensive* adj4 literature) or (comprehensive* adj4 bibliographic*) or (integrative adj4 review) or (integrative adj4 review) or (meta-analy* or metaanaly*) or (information adj3 synthesis) or (data adj3 synthesis) or (data adj3 extract*) or (medline or pubmed or psyclit or cinahl or (psycinfo not psycinfo database) or web of science or scopus or embase)).ab,bt,ti. or (systematic overview* or systemic review* or scoping review or scoping literature review or mapping review or umbrella review* or review of reviews or overview of reviews or meta-review or integrative overview or meta-synthesis or metasynthesis or quantitative review or quantitative synthesis or meta-ethnography or research synthesis or systematic literature search or systematic literature research or evidence-based review or evidence synthesis).bt,ti. or (research overview* or collaborative review* or collaborative overview* or technology assessment* or technology overview* or technology appraisal* or hta or htas or methodological overview* or methodologic overview* or methodological review* or methodologic review* or quantitative overview*).ab,bt,ti.) NOT (Editorial/ or Letter/ or Case Reports/)	815431
Final result		
7.	(1 OR 5) AND 6	73
8.	(1 NOT 7) NOT (animals NOT humans).sh.	849

The final search result, usually found at the end of the documentation, forms the list of abstracts.

.ab. = Abstract; **.ab,ti.** = Abstract or title; **.af.** = All fields; **.bt.** = Book title; **dt** = Create date; **exp** = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy; **.fs.** = Floating sub-heading, does not include terms found below this term in the MeSH hierarchy; **.kf.** = Author keyword; **.sh.** = Term from the Medline controlled vocabulary; **.ti.** = Title; **.xs.** = Floating sub-heading, includes terms found below this term in the MeSH hierarchy; **/** = Term from the Medline controlled vocabulary, but does not include terms found below this term in the MeSH hierarchy; ***** = Focus (if found in front of a MeSH-term); *** or \$** = Truncation (if found at the end of a free text term); **.mp.** = Text, heading word, subject area node, title; **" "** = Citation Marks; searches for an exact phrase; **adjn** = Positional operator that lets you retrieve records that contain your terms (in any order) within a specified number (n) of words of each other; **?** = replaces one or no letters; **#** = replaces one letter

Scopus via Elsevier 25 August 2025

Title: Alkoholkonsumtion och värden av fosfatidyletanoler (PEth) i blodet

Search terms		Items found
Index test: Peth /biomarkers and alcohol drinking		
1.	TITLE-ABS-KEY (Peth OR phosphatidylethanol OR B-Phosphatidylethanol OR "phosphatidyl ethanol" OR B-PEth)	1,517
2.	TITLE-ABS-KEY ("direct biomarker*" OR "Alcohol biomarker*" OR "ethanol biomarker*" OR "blood alcohol concentration") OR TITLE (biomarker*)	550
3.	TITLE-ABS-KEY ((Alcohol* OR Drink*) W/1 (abuse OR At-risk OR binge OR chronic OR depend* OR disorder* OR excessive OR harmful OR hazardous OR High-risk OR heavy OR intoxica* OR misuse OR problem* OR risk* OR Unhealthy) OR alcoholism OR "operating while intoxicated" OR "Under the influence")	227,848
4.	2 AND 3	304
5.	1 OR 4	1,673
Study types: systematic reviews and meta-analyses		
6.	(INDEXTERMS ("systematic review" OR "meta analysis" OR "biomedical technology assessment" OR "network meta-analysis" OR "technology assessment, biomedical" OR "systematic reviews as topic")) OR (KEY ("systematic review" OR "meta analysis" OR "health technology assessment")) OR (TITLE-ABS ((systematic* W/3 review*) OR (systematic* W/3 bibliographic*) OR (systematic* W/3 literature) OR (comprehensive* W/3 literature) OR (comprehensive* W/3 bibliographic*) OR (integrative W/3 review) OR meta-analy* OR metaanaly* OR (information W/2 synthesis) OR (data W/2 synthesis) OR (data W/2 extract*) OR medline OR pubmed OR psyclit OR cinahl OR psycinfo OR "web of science" OR scopus OR embase)) OR (TITLE ("systematic overview*" OR "systemic review*" OR "scoping review" OR "scoping literature review" OR "mapping review" OR "umbrella review*" OR ("review of reviews" OR "overview of reviews") OR meta-review OR ("integrative overview" OR meta-synthesis OR metasynthesis OR "quantitative review" OR "quantitative synthesis" OR meta-ethnography OR "research synthesis") OR "Systematic literature search" OR "Systematic literature research" OR "evidence-based review" OR "evidence synthesis")) OR (TITLE-ABS ("research overview*" OR "collaborative review*" OR "collaborative overview*" OR "technology assessment*" OR "technology overview*" OR "technology appraisal*" OR hta OR htas OR "methodological overview*" OR "methodologic overview*" OR "methodological review*" OR "methodologic review*" OR "quantitative overview*")) AND (EXCLUDE (DOCTYPE , "le") OR EXCLUDE (DOCTYPE , "ed"))	1,358,691
Final results		
7.	5 AND 6	21
8.	(5 NOT 7)	1,612

The final search result, usually found at the end of the documentation, forms the list of abstracts.

TITLE-ABS-KEY = Title or abstract or keywords; **ALL** = All fields; **PRE/n** = "precedes by". The first term in the search must precede the second by a specified number of terms (n).; **W/n** = "Within". The terms in the search must be within a specified number of terms (n) in any order.; * = Truncation; " " = Citation Marks; searches for a phrase; ? = replaces one letter; **LIMIT-TO (SRCTYPE, "j"** = Limit to source type journal; **LIMIT-TO (DOCTYPE, "ar"** = Limit to document type article; **LIMIT-TO (DOCTYPE, "re"** = Limit to document type review