



Folkhälsomyndigheten

# Bilaga 1b Utkast till sökstrategi med hjälp av AI-verktyget ChatGPT

## User instructions

I want to create efficient search strategies in the Pubmed database using relevant key words and MeSH terms to systematically search for peer-reviewed systematic literature reviews with or without a meta-analysis from 2013 and onward written in English.

The systematic literature reviews should be focused on the following questions "how to effectively improve participation of vulnerable migrant groups in health research?" and "what quantitative and qualitative strategies and methods exist to survey and follow-up health, living conditions and health-care of vulnerable migrant groups?"

I want to use all relevant key words and Mesh terms about quantitative and qualitative strategies as well as different words for vulnerable migrant groups or hidden groups or socially displaced groups. Include all aspects, concepts and definitions that you can find in order to identify proper key words and Mesh terms to use in a search strategy.

## Answer from ChatGPT

To create a comprehensive search strategy in the PubMed database for peer-reviewed systematic literature reviews with or without a meta-analysis from 2013 and onward, written in English and focusing on improving participation of vulnerable migrant groups in health research, as well as strategies and methods for surveying and following up their health, living conditions, and healthcare, you can use a combination of relevant keywords and MeSH terms. Here's a suggested search strategy:

Start with the main concepts:

Concept 1: Participation of vulnerable migrant groups in health research

Concept 2: Strategies and methods for surveying and following up health, living conditions, and healthcare of vulnerable migrant groups

Identify relevant keywords and synonyms for each concept:

Concept 1:

- vulnerable migrant groups
- migrant populations
- immigrant populations

- marginalized populations
- socially disadvantaged groups
- hidden populations
- hard-to-reach groups
- underserved populations
- minority populations

Concept 2:

- survey methods
- follow-up studies
- health surveys
- health assessments
- living conditions
- healthcare utilization
- healthcare access
- health outcomes
- health disparities
- health services research
- quantitative methods
- qualitative methods
- mixed methods

Search strategy with keywords and MeSH terms: Combine the keywords and MeSH terms using Boolean operators (AND, OR) to create a comprehensive search strategy. Here's an example:

```
(("vulnerable migrant groups" OR "migrant populations" OR "immigrant populations" OR "marginalized populations" OR "socially disadvantaged groups" OR "hidden populations" OR "hard-to-reach groups" OR "underserved populations" OR "minority populations") AND ("survey methods" OR "follow-up studies" OR "health surveys" OR "health assessments" OR "living conditions" OR "healthcare utilization" OR "healthcare access" OR "health outcomes" OR "health disparities" OR "health services research" OR "quantitative methods" OR "qualitative methods" OR "mixed methods")) AND (("systematic review" OR "systematic literature review") AND English[lang] AND ("2013/01/01"[PDAT]:3000[PDAT]))
```

Note: The search strategy includes the terms for vulnerable migrant groups, strategies, and methods related to health research, and limits the results to systematic reviews published in English between 2013 and the present.

Use the search strategy in the PubMed database:

1. Go to PubMed (<https://pubmed.ncbi.nlm.nih.gov/>)
2. Click on the "Advanced" search option
3. Enter the search strategy into the search box
4. Click "Search" to retrieve the relevant systematic literature reviews
5. Remember to review the search results, adjust the search strategy if necessary, and analyze the selected articles to address your guiding questions effectively.

## User

Please expand on concept 2 and give examples of survey methods, quantitative and qualitative methods.

## Answer from ChatGPT

Certainly! Here's an expanded list of keywords and concepts related to survey methods, quantitative methods, qualitative methods, and other relevant aspects for

Concept 2:

Survey Methods:

- Survey design
- Sampling methods
- Questionnaire development
- Data collection techniques
- Interview surveys
- Self-administered surveys
- Telephone surveys
- Web-based surveys
- Mixed-mode surveys
- Longitudinal surveys
- Cross-sectional surveys
- Panel surveys
- Population-based surveys
- Community surveys
- Epidemiological surveys
- Health behavior surveys
- Health interview surveys

- Household surveys
- National health surveys

Quantitative Methods:

- Statistical analysis
- Descriptive statistics
- Inferential statistics
- Regression analysis
- Multivariate analysis
- Logistic regression
- Survival analysis
- Cluster analysis
- Factor analysis
- Time series analysis
- Propensity score matching
- Case-control studies
- Cohort studies
- Randomized controlled trials (RCTs)
- Observational studies
- Statistical modeling

Qualitative Methods:

- Qualitative research
- Interviews (in-depth, semi-structured, etc.)
- Focus groups
- Ethnography
- Participant observation
- Grounded theory
- Phenomenology
- Content analysis
- Thematic analysis
- Narrative analysis
- Case studies
- Qualitative data collection
- Data coding and analysis

- Saturation
- Trustworthiness
- Living Conditions and Healthcare:
  - Housing conditions
  - Socioeconomic status
  - Employment status
  - Educational status
  - Access to healthcare
  - Healthcare utilization
  - Health insurance coverage
  - Language barriers
  - Cultural competency
  - Discrimination and stigma
  - Social support networks
  - Mental health services
  - Physical health services
  - Primary care services
  - Specialty care services
  - Emergency services
  - Maternal and child health services
  - Preventive services

By incorporating these additional keywords and concepts into your search strategy, you can enhance the comprehensiveness of your search and capture a broader range of relevant articles on strategies and methods for surveying and following up the health, living conditions, and healthcare of vulnerable migrant groups.

## User

Please expand on the sampling methods.

## Answer from ChatGPT

Certainly! Sampling methods are an essential component of survey research. Here are some keywords and concepts related to sampling methods that you can include in your search strategy:

Probability Sampling:

- Simple random sampling

- Stratified random sampling
- Cluster sampling
- Systematic sampling
- Multi-stage sampling
- Proportional sampling
- Disproportional sampling
- Random digit dialing
- Randomized controlled trials (RCTs)

#### Non-Probability Sampling:

- Convenience sampling
- Purposive sampling
- Snowball sampling
- Quota sampling
- Voluntary sampling
- Sequential sampling
- Expert sampling
- Maximum variation sampling
- Homogeneous sampling
- Opportunistic sampling

#### Sampling Strategies for Vulnerable Populations:

- Time-location sampling
- Venue-based sampling
- Respondent-driven sampling
- Hidden population sampling
- Hard-to-reach population sampling
- Adaptive sampling
- Sensitivity analysis
- Differential non-response

#### Sampling Techniques in Qualitative Research:

- Purposeful sampling
- Theoretical sampling
- Maximum variation sampling
- Homogeneous sampling

- Snowball sampling
- Convenience sampling
- Saturation

Including these keywords and concepts related to sampling methods will help you find systematic literature reviews that discuss different approaches and considerations when sampling vulnerable migrant groups in health research.

## User

Put all this together in to one comprehensive concept analysis with suggestions of efficient search strategies.

## Answer from ChatGPT

Certainly! Here's a comprehensive concept analysis and suggestions for search strategies incorporating all the aspects and concepts we've discussed so far:

### Concept 1: Recruitment of Vulnerable Migrant Groups in Health Research

Keywords and Synonyms:

- Vulnerable migrant groups
- Migrant populations
- Immigrant populations
- Marginalized populations
- Socially disadvantaged groups
- Hidden populations
- Hard-to-reach groups
- Underserved populations
- Minority populations

### Concept 2: Strategies and Methods for Surveying and Following up Health, Living Conditions, and Healthcare of Vulnerable Migrant Groups

Keywords and Synonyms:

- Survey methods
- Follow-up studies
- Health surveys
- Health assessments
- Living conditions
- Healthcare utilization
- Healthcare access

- Health outcomes
- Health disparities
- Health services research
- Quantitative methods
- Qualitative methods
- Mixed methods

### Concept 3: Sampling Methods

#### Keywords and Synonyms:

- Probability sampling
- Non-probability sampling
- Simple random sampling
- Stratified random sampling
- Cluster sampling
- Systematic sampling
- Multi-stage sampling
- Convenience sampling
- Purposive sampling
- Snowball sampling
- Quota sampling

### Concept 4: Other Relevant Aspects and Concepts

#### Keywords and Synonyms:

- Housing conditions
- Socioeconomic status
- Employment status
- Educational status
- Access to healthcare
- Health insurance coverage
- Language barriers
- Cultural competency
- Discrimination and stigma
- Social support networks
- Mental health services
- Physical health services



- Primary care services
- Specialty care services
- Emergency services
- Maternal and child health services
- Preventive services

Suggested Search Strategy:

((("vulnerable migrant groups" OR "migrant populations" OR "immigrant populations" OR "marginalized populations" OR "socially disadvantaged groups" OR "hidden populations" OR "hard-to-reach groups" OR "underserved populations" OR "minority populations")) AND ("survey methods" OR "follow-up studies" OR "health surveys" OR "health assessments" OR "living conditions" OR "healthcare utilization" OR "healthcare access" OR "health outcomes" OR "health disparities" OR "health services research" OR "quantitative methods" OR "qualitative methods" OR "mixed methods")) AND ("probability sampling" OR "non-probability sampling" OR "simple random sampling" OR "stratified random sampling" OR "cluster sampling" OR "systematic sampling" OR "multi-stage sampling" OR "convenience sampling" OR "purposive sampling" OR "snowball sampling" OR "quota sampling")) AND ("housing conditions" OR "socioeconomic status" OR "employment status" OR "educational status" OR "access to healthcare" OR "health insurance coverage" OR "language barriers" OR "cultural competency" OR "discrimination and stigma" OR "social support networks" OR "mental health services" OR "physical health services" OR "primary care services" OR "specialty care services" OR "emergency services" OR "maternal and child health services" OR "preventive services") AND (("systematic review" OR "systematic literature review") AND English[lang] AND ("2013/01/01"[PDAT]:3000[PDAT]))

This search strategy combines the main concepts, relevant keywords, and synonyms related to vulnerable migrant groups, survey methods, sampling methods, and other relevant aspects. It limits the search to systematic reviews published in English from 2013 onwards.

Remember to review the search results, adjust the strategy if necessary, and explore additional relevant terms or concepts that may emerge during your search process.