Using Ovid® for Meta-Analysis & Systematic Reviews

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정민우
Wolters Kluwer Health – Ovid 한국 지사 대표
Agenda

1. Preparing for a Systematic Review

2. Ovid® MEDLINE vs. PubMed
   - Content
   - Platform Features
     - Search Functionality
     - Results Management
     - Multiple Database Searching & Deduplication

3. Structured Search Example

4. Ovid REMINER
Preparing for a Systematic Review
Creating a Systematic Review

1. Search

2. Meta-Analyse

3. Update, as required

Source: http://navigatingeffectivetreatments.org.au/
Determining the question

- **The PICO process** is a technique used in **evidence based practice** to answer a clinical question.
- **PICO** is an acronym for: **Population**, **Intervention**, **Comparison**, **Outcome**.

<table>
<thead>
<tr>
<th>P</th>
<th>I</th>
<th>C</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population&lt;br&gt;Patient&lt;br&gt;Problem</td>
<td>Intervention&lt;br&gt;Or Exposure</td>
<td>Comparison</td>
<td>Outcome</td>
</tr>
<tr>
<td>Who are the patients?&lt;br&gt;What is the problem?</td>
<td>What do we do to them?&lt;br&gt;What are they exposed to?</td>
<td>What do we compare the intervention with?</td>
<td>What happens?&lt;br&gt;What is the outcome?</td>
</tr>
</tbody>
</table>

Defining a question

Among **Type 2 diabetic patients**, do **improved lifestyle habits** affect **HbAlc levels**?

- **P** Type 2 diabetic patients
- **I** improved lifestyle habits
- **C** HbAlc levels **without** improved lifestyle habits
- **O** changes in HbAlc levels
Search for relevant data

Cochrane collaboration recommends searching in Cochrane Central Register of Controlled Trials, Medline and Embase.
Search for relevant data

Topical lidocaine for neuropathic pain in adults, Cochrane Database of Systematic Reviews, Volume (6), 2016.

SH: Subject Headings

KW: Keywords

Methodological limits
- RCT and CCT (.pt)
- Studies about drug therapy
Ovid® MEDLINE vs. PubMed
Introduction to MEDLINE on Ovid®

- Database Creation

[Diagram showing the process of database creation with nodes for Publisher Submitted, MEDLINE In Process, Epub Ahead of Print, MEDLINE In Process Segments, MEDLINE Segment, Pubmed Not MEDLINE, In Data Review, MEDLINE]
PubMed Search Page & Ovid

Find Citation

Advanced Search, Search Fields & Multi-Field Search

Mapping and Search Tools

Clinical Queries
PubMed Search – automatic explode

Search results
Items: 1 to 20 of 31714

1. Bahrain Cardiac Centre: A Retrospective, Case-Controlled Study
Abuzaid AA, Zaki M, Al Tarief H.
PMID: 27326347 Free PMC Article

Search details
"cardiovascular infections"[MeSH Terms]
OR ("cardiovascular"[All Fields] AND "infections"[All Fields]) OR "cardiovascular infections"[All Fields]
Ovid® MEDLINE Search – mapping process

**Explode** – include all narrower terms

**Focus** – find records where this is the main concept
Ovid® MEDLINE Search – mapping process

**Unique Identifier:** 26925740

**Record Owner:** From MEDLINE, a database of the U.S. National Library of Medicine.

**Status:** MEDLINE

**Authors:** Treska V, Certik B, Molacek J.

**Authors Full Name:** Treska, V; Certik, B; Molacek, J.

**Title:** Management of aortic graft infections - the present strategy and future perspectives. [Review]

**Source:** Bratisl Lek Listy. 117(3):125-32, 2016.


**NLM Journal Name:** Bratislava Lekarske Listy

**Publishing Model:** Journal available in: Print

**Citation processed from:** Print

**NLM Journal Code:** bsn. 0065324

**Journal Subset:** Index Medicus

**Country of Publication:** Slovakia

**MeSH Subject Headings:**
- Animals
- Anti-Bacterial Agents / tu [Therapeutic Use]
- Blood Vessel Prosthesis
- Blood Vessel Prosthesis Implantation
- Cardiovascular Infections / dt [Diagnosis]
- Cardiovascular Infections / et [Etiology]
- "*Cardiovascular Infections / th [Therapy]"
- Device Removal
- Endovascular Procedures
- Humans
- Incidence
- Prosthesis-Related Infections / co [Complications]
- Prosthesis-Related Infections / et [Etiology]
- "*Prosthesis-Related Infections / th [Therapy]"
- Reoperation
- Risk Factors
- "Vascular Grafting / ae [Adverse Effects]"
Export Options

Choose Destination
- File
- Clipboard
- Collections
- E-mail
- Order
- My Bibliography

Download 3 items.

Choose Format:
- PMID List
- Summary (text)
- Abstract (text)
- MEDLINE
- XML
- PMID List
- CSV

Select all results or a range

Export Citation List:
- Export To: Excel Sheet
- Include:
  - Link to External Resolver
  - Include URL
  - Annotations

Select PDF IMR
Select EndNote
Select ProCite
Select Reference Manager
Select RefWorks
Select BRS/Tagged
Select Reprint/Medlars
Select RIS
Select XML

Include:
- Link to External Resolver
- Include URL
- Annotations

Text file or CSV

Export Citation(s)

Select all results or a range

Kingella kingae Sequence Type 25 Causing Endocarditis with Multiple and Severe Cerebral Complications.


[Case Reports Journal Article]

Page: 26651429

Authors Full Name
Le Bourgeois, Fleur; Germannaud, David; Bendavid, Matthieu; Bonnefoy, Ronan; Desnous, Beatrice; Beyler, Constance; Blaubomme, Thomas; Elmaleh, Monique; Pierron, Charlotte; Lorrot, Mathie; Bonacorsi, Stephane; Basmand, Romain.

Full Text
Document Delivery
Bibliographic Links
My NCBI

Search NCBI databases

Hint: clicking the "Search" button without any terms listed in the search box will transport you to that database’s homepage.

My Projects

1. Send Auto-Alert results directly to a project folder.

2. Collaborate with Annotations.

Using Ovid® for Meta-Analysis & Systematic Reviews
Search multiple databases with deduplication
Search multiple databases with deduplication

Multiple database results combined, ranked by relevancy (Basic Search) or chronological order (Advanced Search)

Filter results display by database
Structured Search Example
Among Type 2 diabetic patients, do improved lifestyle habits affect HbA1c levels?
http://access.ovid.com/training/pico/english/pico_widget.htm

P: Patient, Population, Problem or disease of interest
   who are the patients, what is the problem
   - Age:
     Young Adult (19 to 24 years)
   - Gender:
     Both genders

I: Intervention or Issue
   what do we do to them, what are they exposed to
   - Intervention / Issue:
     antidepressants

C: Comparison intervention or issue
   what do we compare the intervention with
   - Comparison:

O: Outcome
   what happens, what is the outcome
   - Outcome/Risks:
     cessation

Search
1. Tobacco smoking is causally associated with antipsychotic medication use and schizophrenia, but not with antidepressant medication use or depression.

Wium-Andersen MK; Orsted DD; Nordestgaard BG.


[Journal Article. Observational Study. Research Support, Non-U.S. Gov't]

UI: 26054357

Authors Full Name
Wium-Andersen, Marie Kim; Orsted, David Dynnes; Nordestgaard, Borge Gronne.

Full Text
Document Delivery
Bibliographic Links

2. Smoking and the consumption of antidepressants, anxiolytics and hypnotic drugs results of a large, French epidemiological study in 2005.

Cheron-Launay M; Le Faou AL; Sevilla-Dedieu C; Gilbert F; Kovess-Masfety V.
Structured Searching in Ovid®

Map keywords to controlled Terms
## Structured Searching in Ovid®

Your term mapped to the following Subject Headings:
Click on a subject heading to view more general and more specific terms within the tree.
*Term mapped through permuted index*

- [ ] Include All Subheadings

Combine with: OR

<table>
<thead>
<tr>
<th>Select</th>
<th>Subject Heading</th>
<th>Explode</th>
<th>Focus</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Diabetes Complications</td>
<td></td>
<td></td>
<td><img src="image" alt="i" /></td>
</tr>
<tr>
<td></td>
<td>Diabetes, Gestational</td>
<td></td>
<td></td>
<td><img src="image" alt="i" /></td>
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<tr>
<td></td>
<td>Diabetes Insipidus</td>
<td></td>
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<td><img src="image" alt="i" /></td>
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<tr>
<td></td>
<td>Diabetes Insipidus, Nephrogenic</td>
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<td><img src="image" alt="i" /></td>
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<tr>
<td></td>
<td>Diabetes Mellitus</td>
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<td><img src="image" alt="i" /></td>
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<tr>
<td></td>
<td>Diabetes Mellitus, Experimental</td>
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</tr>
<tr>
<td></td>
<td>Diabetes Mellitus, Type 1</td>
<td></td>
<td></td>
<td><img src="image" alt="i" /></td>
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<tr>
<td><img src="image" alt="✓" /></td>
<td>Diabetes Mellitus, Type 2</td>
<td></td>
<td></td>
<td><img src="image" alt="i" /></td>
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<tr>
<td></td>
<td>diabetes.mp. search as Keyword</td>
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<td></td>
<td><img src="image" alt="i" /></td>
</tr>
</tbody>
</table>

Click on the scope note to see more information about the subject heading.
Structured Searching in Ovid®

MeSH HEADING: DIABETES MELLITUS, TYPE 2

SCOPE: A subclass of DIABETES MELLITUS that is not INSULIN-responsive or dependent (NIDDM). Patients develop DIABETES MELLITUS in adult life, usually after 40 years of age, and are more frequent in obesity. They seldom develop KETOSIS but often exhibit OBESITY.

PREVIOUS INDEXING: Diabetes Mellitus (1968-1983)

REFERENCES:

See Related:
RATS, INBRED OLETF
METABOLIC SYNDROME X

Used For:
- adult-onset diabetes mellitus
- diabetes mellitus, adult onset
- diabetes mellitus, adult-onset
- diabetes mellitus, ketosis resistant
- diabetes mellitus, ketosis-resistant
- diabetes mellitus, maturity onset
- diabetes mellitus, maturity-onset
- diabetes mellitus, non insulin dependent
- diabetes mellitus, non-insulin-dependent
- diabetes mellitus, noninsulin dependent
- diabetes mellitus, noninsulin-dependent
- diabetes mellitus, slow onset
- diabetes mellitus, slow-onset
- diabetes mellitus, stable
diabetes mellitus, type 2
diabetes mellitus, type ii
diabetes resistant diabetes mellitus
diabetes mellitus, type2
maturity onset diabetes mellitus
maturity-onset diabetes mellitus
maturity-onset diabetes mellitus
maturity-onset diabetes mellitus
niddm
- non-insulin-dependent diabetes mellitus
- noninsulin-dependent diabetes mellitus
- slow-onset diabetes mellitus
- stable diabetes mellitus
type 2 diabetes mellitus

Adjacency operator (searches for words based on their proximity)

(diabetes adj2 (adult onset OR ketotis resistant OR maturity onset OR non?insulin dependent OR slow onset OR stable OR type?2 OR type?ii)) OR mody OR niddm

Truncation inside a word (stands for any letter or nothing)
Structured Searching in Ovid®

Your term mapped to the following Subject Headings:
Click on a subject heading to view more general and more specific terms within the tree.
Term mapped through permuted index

- Include All Subheadings
- Combine with: OR

<table>
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<tr>
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<th>Scope</th>
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<td>Diabetes Insipidus, Nephrogenic</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td>diabetes.mp. search as Keyword</td>
<td></td>
<td></td>
<td>🔵1</td>
</tr>
</tbody>
</table>

Click on the subject heading to view the full thesaurus.
Structured Searching in Ovid®

Select ‘Explode’ to search the narrower terms together with the main term.
Structured Searching in Ovid®

Subheadings for: **exp Diabetes Mellitus, Type 2**

Combine with: OR  

- □ Include All Subheadings
  -- or choose one or more of these subheadings --
  1. □ /bl - Blood
  2. □ /cf - Cerebrospinal Fluid
  3. □ /ci - Chemically Induced
  4. □ /cl - Classification
  5. □ /co - Complications
  6. □ /cn - Congenital
  7. □ /di - Diagnosis
  8. □ /dn - Diet Therapy
  9. □ /dt - Drug Therapy
  10. □ /ec - Economics
  11. □ /em - Embryology
  12. □ /en - Enzymology
  13. □ /ep - Epidemiology
  14. □ /eh - Ethnology
  15. □ /et - Etiology
  16. □ /ge - Genetics
  17. □ /hi - History
  18. □ /im - Immunology
  19. □ /me - Metabolism

Choose the Therapy subheading to limit results to records indexed with the Therapy aspect of Diabetes Mellitus, Type 2

Select a subheading to refine the search to a specific aspect of the controlled term, or leave blank to perform a general search.
Structured Searching in Ovid®

‘exp’ means ‘explode’ (the search includes the narrower terms as well as the main term)

‘/’ means this is a subject heading

‘[ ]’ contains the specified subheading(s)
Structured Searching in Ovid®

Deselect ‘Map Term to Subject Heading’ for keyword search
Structured Searching in Ovid®

Select sets and combine with ‘AND’ or ‘OR’
Among Type 2 diabetic patients, do improved lifestyle habits affect HbA1c levels?
Structured Searching in Ovid®
Structured Searching in Ovid®

Your term mapped to the following Subject Headings:
Click on a subject heading to view more general and more specific terms within the tree.
See term mapped to thesaurus term

- □ Include All Subheadings
  - Combine with: OR

<table>
<thead>
<tr>
<th>Select</th>
<th>Subject Heading</th>
<th>Explode</th>
<th>Focus</th>
<th>Scope</th>
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<tbody>
<tr>
<td>✔️</td>
<td>Life Style</td>
<td></td>
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<tr>
<td>□</td>
<td>lifestyle.mp. search as Keyword</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Structured Searching in Ovid®

Scope Note for: Life Style

MeSH HEADING: LIFE STYLE

SCOPE: Typical way of life or manner of living characteristic of an individual or group. (From APA, Thesaurus of Psychological Index Terms, 8th ed)

YEAR of ENTRY: 72(70)

PREVIOUS INDEXING: Personality Development (1968-1969)

REFERENCES:

See Related:
QUALITY OF LIFE
HEALTH BEHAVIOR

Used For:
life style induced illness
life style
life styles
lifestyle
lifestyles

life?style*

Right-side Truncation
(search for all words beginning with certain letters)
## Structured Searching in Ovid®

<table>
<thead>
<tr>
<th>Category</th>
<th>Expanded Terms</th>
<th>Count</th>
<th>Filtered</th>
<th>Related</th>
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<td>Psychology, Social</td>
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</tbody>
</table>
### Structured Searching in Ovid®

**Subheadings for: exp Life Style**

Combine with: **OR**

- **Include All Subheadings**
- □ /eh - Ethnology
- □ /hi - History

#### Search History (4)

<table>
<thead>
<tr>
<th># ▲ Searches</th>
<th>Results</th>
</tr>
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<tbody>
<tr>
<td>1 exp Diabetes Mellitus, Type 2/th [Therapy]</td>
<td>7819</td>
</tr>
<tr>
<td>2 ((diabetes adj2 (adult onset or ketosis resistant or maturity onset or non?insulin dependent or slow onset or stable or type?2 or type?ii)) or mody or niddm).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]</td>
<td>10133</td>
</tr>
<tr>
<td>3 1 or 2</td>
<td>17571</td>
</tr>
<tr>
<td>4 exp Life Style/</td>
<td>74945</td>
</tr>
</tbody>
</table>
Structured Searching in Ovid®

<table>
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<tr>
<th>Search History (4)</th>
</tr>
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<tbody>
<tr>
<td># ▲ Searches</td>
</tr>
<tr>
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</tr>
<tr>
<td>2 (diabetes ad2 (adult onset or ketosis resistant or maturity onset or non?insulin dependent or slow onset or stable or type?2 or type?ii)) or mody or nondm) mp. [mp=titile, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]</td>
</tr>
<tr>
<td>3 1 or 2</td>
</tr>
<tr>
<td>4 exp Life Style/</td>
</tr>
</tbody>
</table>

Choose with: AND OR

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Search | Multi-Field Search

Enter keyword or phrase (* or $ for truncation)

Keyword □ Author □ Title □ Journal

Limits (expand) □ Include Multimedia □ Map Term to Subject Heading

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### Structured Searching in Ovid®

#### Search History (5)

<table>
<thead>
<tr>
<th>#</th>
<th>Searches</th>
<th>Results</th>
<th>Type</th>
<th>Actions</th>
<th>Annotations</th>
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</thead>
<tbody>
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<td>Display Results</td>
<td>More ▼</td>
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<tr>
<td>3</td>
<td>1 or 2</td>
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<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
</tr>
<tr>
<td>4</td>
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<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
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<tr>
<td>5</td>
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<td>76423</td>
<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
</tr>
</tbody>
</table>

**Actions:**
- Save
- Remove
- Combine with: AND OR

**Annotations:**
- Expand

**View Saved**
Structured Searching in Ovid®

<table>
<thead>
<tr>
<th>#</th>
<th>Searches</th>
<th>Results</th>
<th>Type</th>
<th>Actions</th>
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<tbody>
<tr>
<td>1</td>
<td>exp Diabetes Mellitus, Type 2/th [Therapy]</td>
<td>7819</td>
<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
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<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
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<td>3</td>
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<td>More ▼</td>
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<td>exp Life Style/</td>
<td>74945</td>
<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
</tr>
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<td>More ▼</td>
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<td>Advanced</td>
<td>Display Results</td>
<td>More ▼</td>
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</tbody>
</table>
Structured Searching in Ovid®

Among **Type 2 diabetic patients**, do *improved lifestyle habits* affect HbAlc levels?

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<thead>
<tr>
<th>Aspect 1</th>
<th>Aspect 2</th>
<th>Aspect 3</th>
<th>Aspect 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P (Patient, Problem)</strong></td>
<td><strong>I (Intervention)</strong></td>
<td><strong>C (Comparison)</strong></td>
<td><strong>O (Outcome)</strong></td>
</tr>
<tr>
<td>Type 2 diabetes</td>
<td>lifestyle</td>
<td></td>
<td>HbAlc</td>
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</tbody>
</table>

**Synonyms and additional free text terms for each aspect**: *(include these terms to ensure you do not miss in-process records. Use truncation and wildcards if needed)*

- (diabetes adj2 (adult onset OR ketotis resistant OR maturity onset OR non?insulin dependent OR slow onset OR stable OR type?2 OR type?ii)) OR mody OR niddm
- life?style*

**Thesaurus (MESH®) term(s) for each aspect**: *(expode your thesaurus terms and use subheadings if applicable)*

- exp Diabetes Mellitus, Type 2/
- exp Life Style/

**Limits* for your aspects**: *(like: Publication year, Publication type (Review, RCT) etc.)*
Structured Searching in Ovid®

<table>
<thead>
<tr>
<th>#</th>
<th>Searches</th>
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<th>Type</th>
<th>Actions</th>
<th>Annotations</th>
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Save All | Edit | Create RSS | View Saved

What you do select when searching?

Using Ovid® for Meta-Analysis & Systematic Reviews 43
Structured Searching in Ovid®

Your term mapped to the following Subject Headings:
Click on a subject heading to view more general and more specific terms within the tree.

- Include All Subheadings
- Combine with: OR

<table>
<thead>
<tr>
<th>Select</th>
<th>Subject Heading</th>
<th>Explos</th>
<th>Focus</th>
<th>Scope</th>
</tr>
</thead>
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<td></td>
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<td></td>
<td>Adult</td>
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<td></td>
<td>HBA1c.mp. search as Keyword</td>
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</table>
Structured Searching in Ovid®

Scope Note for: Hemoglobin A, Glycosylated

Mesh Heading: HEMOGLOBIN A, GLYCOSYLATED

Scope: Minor hemoglobin components of human erythrocytes designated A1a, A1b, and A1c. Hemoglobin A1c is most important since its sugar moiety is glucose covalently bound to the terminal amino acid of the beta chain. Since normal glycohemoglobin concentrations exclude marked blood glucose fluctuations over the preceding three to four weeks, the concentration of glycosylated hemoglobin A is a more reliable index of the blood sugar average over a long period of time.

Note: urine; coord IM with HEMOGLOBINURIA (IM); DF: note short X refs

Year of entry: 82


References:

Used for:
a1a-1 hemoglobin, glycosylated
a1b hemoglobin, glycosylated
glycated hemoglobins
glycohemoglobin a
glycosylated a1a-1 hemoglobin
glycosylated a1b hemoglobin
glycosylated hemoglobin a
glycosylated hemoglobin
hb a1
hb a1a+b
hb a1a-1
hb a1a-2
hb a1b
hb a1c
hba1
hemoglobin a, glycosylated
hemoglobin a(1)
hemoglobin, glycysylated a1a-1
hemoglobin, glycysylated a1a-1
hemoglobin, glycysylated a1b
hemoglobin, glycysylated
hemoglobins, glycysylated

hb?a1* OR (a1* adj1 (h?emoglobin* adj1 glycysylated)) OR (glycated adj1 h?emoglobin*) OR (glycoh?emoglobin a) OR (glycosylated a1* adj1 h?emoglobin*) OR (glycosylated h?emoglobin*) OR (h?emoglobin* adj1 a1*)
Structured Searching in Ovid®

Your term mapped to the following Subject Headings:
Click on a subject heading to view more general and more specific terms within the tree.

- Include All Subheadings

Combine with: OR  Continue >>

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Where do you click next?
## Structured Searching in Ovid®

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<td>Anthocyanins</td>
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<td>Cardiac Glycosides</td>
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<td>Chromomycins</td>
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<td>Glucosides</td>
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</table>

Where you do check?

---

*Using Ovid® for Meta-Analysis & Systematic Reviews*
Structured Searching in Ovid®

Subheadings for: **exp Hemoglobin A, Glycosylated**

- /ad - Administration & Dosage
- /ae - Adverse Effects
- /ag - Agonists
- /aa - Analogs & Derivatives
- /an - Analysis
- /ai - Antagonists & Inhibitors
- /bi - Biosynthesis
- /bl - Blood
- /cs - Chemical Synthesis
- /ch - Chemistry
- /cl - Classification
- /df - Deficiency
- /de - Drug Effects
- /ec - Economics
- /ge - Genetics
- /hi - History
- /im - Immunology
- /ip - Isolation & Purification
- /me - Metabolism
- /pk - Pharmacokinetics
- /pd - Pharmacology
- /ph - Physiology
- /re - Radiation Effects
- /st - Standards
- /tu - Therapeutic Use
- /ul - Ultrastructure
- /ur - Urine
Structured Searching in Ovid®

What you do de-select when searching?
How do you combine the searches?
**Structured Searching in Ovid®**

Among **Type 2 diabetic patients**, do **improved lifestyle habits** affect **HbA1c levels**?

---

<table>
<thead>
<tr>
<th>Aspects of your search:</th>
<th>Aspect 1</th>
<th>Aspect 2</th>
<th>Aspect 3</th>
<th>Aspect 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (Patient, Problem)</td>
<td>Type 2 diabetes</td>
<td>lifestyle</td>
<td></td>
<td>HbA1c</td>
</tr>
<tr>
<td>I (Intervention)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C (Comparison)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O (Outcome)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Synonyms and additional free text terms for each aspect:**

*Include these terms to ensure you do not miss in-process records. Use truncation and wildcards if needed*

- **(diabetes adj2 (adult onset OR ketosis resistant OR maturity onset OR non-insulin dependent OR slow onset OR stable OR type?2 OR type?ii)) OR (mody OR NIDDM)**
- **life?style***

**Thesaurus (MESH) term(s) for each aspect:**

- **exp Diabetes Mellitus, Type 2/**
- **exp Life Style/**
- **exp Hemoglobin A, Glycosylated/**

**Limits* for your aspects:**

*Like: Publication year, Publication type (Review, RCT) etc.*
Structured Searching in Ovid®

Final set – combine 3 subsets with ‘AND’
Structured Searching in Ovid®

Enter keyword or phrase
(“ or $ for truncation)

Keyword □ Author □ Title □ Journal

**Limits**

- Abstracts
- Evidence Based Medicine Reviews
- Review Articles
- Topic Reviews (Cochrane)
- Pharmacologic Actions

Publication Year:

- Age Groups
  - Young Adult (19 to 24 years)
  - Adult (19 to 44 years)
  - Young Adult and Adult (19-24 and 19-44)
  - Middle Age (45 to 64 years)
  - **Middle Aged (45 plus years)**
  - All Aged (65 and Over)

- Clinical Queries
  - Reviews (maximizes sensitivity)
  - Reviews (maximizes specificity)
  - Reviews (best balance of sensitivity and specificity)
  - Therapy (maximizes sensitivity)
  - Therapy (maximizes specificity)

**Results**

- Type
  - Advanced

- Results
  - 7819
  - 10133
  - 17571
  - 74945
  - 76003
  - 124483

- Additional Limits

- Limit 10 to "middle aged (45 plus years)"

- 7 exp Hemoglobin A, Glycosylated/

- 8 (nb?a1* or (a1* adj1 (h?emoglobin* adj1 glycosylated))) or (glycated adj1 h?emoglobin*) or glyc?emoglobin a or (glycosylated a1* adj1 h?emoglobin*) or glycosylated h?emoglobin* or (h?emoglobin* adj1 a1*)) mp. [mp-title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

- 9 7 or 8

- 10 3 and 6 and 9

- 11 limit 10 to "middle aged (45 plus years)"

- 27400

- 40286

- 48680

- 280

- 180
Structured Searching in Ovid®

Clinical Queries - Limit to types of studies
### Structured Searching in Ovid®

#### Search History (12)

<table>
<thead>
<tr>
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<th>Searches</th>
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</thead>
<tbody>
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<td>1 or 2</td>
<td>17571</td>
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<td>3 and 6 and 9</td>
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<tr>
<td>12</td>
<td>limit 11 to &quot;therapy (best balance of sensitivity and specificity)&quot;</td>
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</tbody>
</table>
Among Type 2 diabetic patients, do improved lifestyle habits affect HbA1c levels?

**Structured Searching in Ovid®**

### Formulate your complete query below as a sentence or question:

**Among Type 2 diabetic patients, do improved lifestyle habits affect HbA1c levels?**

<table>
<thead>
<tr>
<th>Aspect 1</th>
<th>Aspect 2</th>
<th>Aspect 3</th>
<th>Aspect 4</th>
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<tbody>
<tr>
<td>P (Patient, Problem)</td>
<td>I (Intervention)</td>
<td>C (Comparison)</td>
<td>O (Outcome)</td>
</tr>
</tbody>
</table>

### Aspects of your search:

- **Type 2 diabetes**
- **lifestyle**
- **HbA1c**

### Synonyms and additional free text terms for each aspect:

- diabetes adj2 (adult onset OR ketosis resistant OR maturity onset OR non-insulin dependent OR slow onset OR type 2 OR type 2i)) OR mody OR niddm
- life?style*
- exp Diabetes Mellitus, Type 2/
- exp Life Style/
- exp Hemoglobin A, Glycosylated/

### Clinical Queries: therapy (best balance of sensitivity and specificity)

- middle aged (45 years plus)
Structured Searching in Ovid®

Save results in a Project folder
## Meta-Analysis: Extraction of relevant data

### Characteristics of included studies

<table>
<thead>
<tr>
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<th>Participants</th>
<th>Intervention groups</th>
<th>Outcomes</th>
<th>Data and analysis</th>
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<tr>
<td>Design (e.g., parallel, crossover, non-randomized)</td>
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<td>Unit of allocation (individuals, class, groups of body)</td>
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</tr>
<tr>
<td>Start date</td>
<td></td>
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<tr>
<td>End date</td>
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<tr>
<td>Duration of participation (from recruitment to last follow-up)</td>
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<td>Ethical approval needed/obtained</td>
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<td>Total no. randomised (or total pop. of study for NRCTs)</td>
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<tr>
<td>Population description (from which study participants were drawn)</td>
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<td>Setting (inclusive location and social context)</td>
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<td>Total in group</td>
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<tr>
<td>Any other results reported (e.g., odds ratio, risk difference, CI or P value)</td>
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</table>

### Source

http://training.cochrane.org/
Meta-Analysis: Analyze and combine the data

Impact of Treatment on Mortality

<table>
<thead>
<tr>
<th>Study</th>
<th>Odds Ratio and 95% CL</th>
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<tr>
<td>Modano (1967)</td>
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<td>Borodan (1981)</td>
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<td>Leighton (1972)</td>
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<td>Novak (1992)</td>
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<tr>
<td>Stawer (1998)</td>
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</tr>
<tr>
<td>Trua (2002)</td>
<td></td>
</tr>
<tr>
<td>Fayney (2005)</td>
<td></td>
</tr>
<tr>
<td>Modano (1969)</td>
<td></td>
</tr>
<tr>
<td>Soloway (2000)</td>
<td></td>
</tr>
<tr>
<td>Adams (1999)</td>
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<td>Trua (2002)</td>
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<td>Fayney (2005)</td>
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<td>Modano (1969)</td>
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<td>Soloway (2000)</td>
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<tr>
<td>Adams (1999)</td>
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<tr>
<td>Overall</td>
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</table>

Source: [http://support.sas.com/kb/35/addl/fusion_35143_1_forestplot_2col.gif](http://support.sas.com/kb/35/addl/fusion_35143_1_forestplot_2col.gif)
Auto-Alerts – keep track of new research
Auto-Alerts – keep track of new research

Automatically run search when database is updated

Receive results via email and deliver directly to a project folder

<table>
<thead>
<tr>
<th>Search Name</th>
<th>Comment</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 2 Diabetes</td>
<td></td>
<td>AutoAlert (SDI)</td>
</tr>
</tbody>
</table>

**AutoAlert Options**

**Scheduling Options**
- On Database Update
- Quarterly
- Monthly - on day
- Every other week - on
- Weekly - on

**Duping Options**
- Duping checked: 120 Days

**Delivery Options**
- Email
- RSS
- My Projects

**Email Address & Subject**
Separate multiple email addresses with commas. Do not use any spaces between the addresses.

**Email Options**
- Inline
- As an Attachment

**Output Type**
- HTML (Ovid Result Format only)
- ASCII
- EXCEL (Ovid Result Format only)

**Report Type**
- Email includes only a Results Display Link
- Email includes records, a Results Display Link, and a link to each record's Fulltext or Complete Reference Display
- Email includes records only
- Email includes records and a Results Display Link
Ovid REMINER

Use REMINER…

• *If you have a collection of references from a database, or another source, and want to find more of the same type of article, or set up an alert…*

• *If you have a structured Ovid search strategy based on mapping and search tools, and want to add a reliable set of keywords to broaden out your search…*

• *If you want to turn a gold standard list of references into a search filter for your library clients…*

• *If you want to explore the characteristics of the references which were used to produce a systematic review – identify similarities – subjects, authors, etc…*
### Ovid REMINDER

#### Manage Projects

<table>
<thead>
<tr>
<th>Name</th>
<th>Items</th>
<th>Modified</th>
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</thead>
<tbody>
<tr>
<td>Systematic Reviews</td>
<td>No Items</td>
<td>2015-Nov-02</td>
</tr>
<tr>
<td>OvidMD Saved Items</td>
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<td>2018-May-12</td>
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<tr>
<td>2016年度の新講演</td>
<td>13</td>
<td>2018-Oct-14</td>
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<td>Head/Neck Trauma</td>
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<td>2018-Oct-17</td>
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<td>SP - Health Benefits</td>
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<td>Type 2 Diabetes (Gold)</td>
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#### Archived Projects

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</table>

#### Trash

- Empty Trash now
- Messages that have been in Trash more than 30 days will be automatically deleted

- Deleted Items: 2016-Oct-25
- Deleted Folders: 2016-Oct-25

---

### Export target records

1. Efficacy of a New Medical Information system, Ubiquitous Healthcare Service with Voice Inception Technique in Elderly Diabetic Patients.
   - Kim KM; Park KS; Lee HY; Bao JS; Lee YJ; Choi SH; Jang HC; Lim S.
   - [Journal Article]
   - UI: 26658492
   - **Authors Full Name**
     - Kim, Kyoung Min; Park, Kyeong Seon; Lee, Hyun Ju; Lee, Yun Hee; Bae, Ji Seon; Lee, Young Joon; Choi, Sung Hee; Jang, Hak Chul; Lim, Soo.
   - **Abstract**

   - Cox DJ; Taylor AG; Singh H; Moncrief M; Diamond A; Yancy WS Jr; Hegde S; McCall AL.
   - [Journal Article, Randomized Controlled Trial, Research Support, Non-U.S. Gov't]
Export as an ‘Excel Sheet’ and select desired fields (ab, sh, ti, ui/an, etc)
### Using Ovid® for Meta-Analysis & Systematic Reviews

**Convert into .xlsx file format and confirm desired fields from selected database**

<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
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<tr>
<td>1</td>
<td>Ovid Technologies</td>
<td>Ovid MEDLINE®(R)</td>
<td>26568492</td>
<td>Kim KM</td>
<td>Efficacy of a New Medical Information system, Ubiquitous Healthcare Service with Voice Inception Technique in Elderly Diabetic Patients.</td>
<td>Age Factors</td>
<td>We have demonstrated previously that an individualized health management system using advanced medical information technology, named ubiquitous (u)-healthcare, was helpful in achieving better glycemic control than routine care. Recently, we generated a new u-healthcare system using a voice inception technique for elderly diabetic patients to communicate information about their glucose control, physical activity, and diet more easily. In a randomized clinical trial, 70 diabetic patients aged 60-85 years were assigned randomly to a standard care group or u-healthcare group for 6 months. The primary end points were the changes in glycated hemoglobin (HbA1c) and glucose fluctuation assessed by the mean amplitude glycemic excursion (MAGE). Changes in body weight, lifestyle, and knowledge about diabetes were also investigated. After 6 months, the HbA1c levels decreased significantly in the u-healthcare group (from 8.4±1.0% to 7.5±0.6%) compared with the standard care group (from 8.7±1.0% to 8.2±1.1%, P&lt;0.01). The MAGE decreased more in the u-healthcare group than in the standard care group. The u-healthcare system with voice inception technique was effective in achieving glycemic control without hypoglycemia in elderly diabetic patients. <a href="https://clinicaltrials.gov/ct2/show/NCT01981474">ClinicalTrials.gov: NCT01981474</a>.</td>
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<td>Cox DJ</td>
<td>Glycemic load, exercise, and monitoring blood glucose (GEM): A paradigm shift in the treatment of type 2 diabetes mellitus.</td>
<td>Adult</td>
<td>AMS: This preliminary RCT investigated whether an integrated lifestyle modification program that focuses on reducing postprandial blood glucose through replacing high glycemic load foods and increasing routine physical activities guided by systematic self-monitoring of blood glucose (GEM) could improve metabolic control of adults with type 2 diabetes mellitus, without compromising other physiological parameters.</td>
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</tbody>
</table>
Ovid REMINER

http://tools.ovid.com/REMINER/

Upload the .xlsx file and ‘Submit Query’
Select required fields and words and phrases from the terms list to include in your search. Edit as desired.
Confirm for sensitivity vs. specificity

Sensitivity = 23/93 or 24.7% of Gold Standard Set
Review Gold Standard references or references not included in search results for key subjects and confirm via scope notes.
Edit the search to fit intention (sensitivity vs. specificity), and Run Search.
Ovid REMINER

Export a record from in Word format, and include the Search History.

Confirm for sensitivity vs. specificity

Sensitivity = 93/93 or 100% of Gold Standard Set

Review results
Copy the whole search statement
Creating a Search Link

http://demo.ovid.com/demo/search_link/search_link.htm

Here is your URL:
http://ovidsp.ovid.com/ovidweb.cgi?T=JS&CSS=y&ID=ppes&PAGE=main&NEWS=m&ID=1&PASSWORD=1&SEARCH=diabetes+mellitus+%2F+or+life+style%2F+or+hemoglobin+a,+glycosylated+me

To test the above jumpstart URL: click here
To edit the history, please use the Back button of the browser
How to learn more

Ovid Resource Center: resourcecenter.ovid.com
How to learn more

PICO Resource Center: access.ovid/com/training/pico/english
How to learn more

Ovid Expert Searches:
http://resourcecenter.ovid.com/site/resources/expert_search/healthexp.html

Ovid REMINER:
http://tools.ovid.com/REMINER/

Filter Link Builder:
http://demo.ovid.com/demo/search_link/search_link.htm

Ovid Database Shortnames:
http://www.ovid.com/site/support/tech_support.jsp#tabs5

Widget Builder:
http://tools.ovid.com/widget/

Flinders Filters Smart Searching: Logical Steps to Building and Testing your Literature Search:
https://sites.google.com/site/smartsearchinglogical/home
How to learn more

support@ovid.com
Using Ovid® for Meta-Analysis & Systematic Reviews

Chris Jung
Regional Sales Manager, South Korea
2016