BMA Library
MEDLINE Plus
Complete course manual

For the OvidSP interface

2016 update
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1. The MEDLINE database

1.1. Scope

MEDLINE is produced by the National Library of Medicine (NLM) in the United States. It is the online version of Index Medicus.

Their website is http://www.pubmed.gov.

It is broad in coverage, has over 13 million records, covers over 5,000 different journal titles and 37 languages, and holds records from 1946 to the present.

At least 79% of records have English abstracts and between 2000-4000 records are added daily.

It can be accessed through different search interfaces. The NLM's own interface to MEDLINE is called PubMed.

The BMA Library's MEDLINE Plus service uses the OvidSP interface.

There are two other types of MEDLINE records, called PreMEDLINE and OLDMEDLINE.

PreMEDLINE (or MEDLINE - In Process) these records do not yet had the subject headings and other indexing terms added.

1.2. Structure

Each record contained in the database is broken down into separate sections or fields. For example a title field, authors field, abstract field.

Sample record from MEDLINE Plus

Unique Identifier

11576317

Record Owner

NLM

Authors

Gronbaek M.

Authors Full Name

Gronbaek, M.

Institution

Danish Epidemiology Science Centre, Institute of Preventive Medicine, H:S Kommunehospitalet, Copenhagen, Denmark.

mg@ipm.hosp.dk

Title

Factors influencing the relation between alcohol and mortality--with focus on wine. [Review] [198 refs]

Source


Abbreviated Source


Publishing Model

Print

NLM Journal Code

i2g, 8904841

Journal Subset

IM

Local Messages

Held at BMA Library

Country of Publication

England

MeSH Subject Headings

Alcohol Drinking/ae [Adverse Effects]
The impact of alcohol intake on mortality has been described in a large number of prospective population studies from many countries. Most have shown a J-shaped relation. Recently, several prospective population studies have supported this idea. However, it is also likely that the apparent additional beneficial effect of wine on health is confounding.

To aid retrieval of information, the database is fully indexed using over 24,000 standard or thesaurus terms. These are called Medical Subject Headings or MeSH for short.

In this structure broad topics branch into progressively narrower topics.

MeSH terms are divided into 15 main subject groups and are then arranged hierarchically in what is called the MeSH tree structure. The main subject groups are:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Z. Geographicals</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following example shows the hierarchy of terms under lung diseases:

- lung diseases
  -- lung diseases, fungal
    --- aspergillosis, allergic bronchopulmonary
    --- pneumonia, pneumocystis carinii

Searching using indexing (MeSH) terms helps to overcome the use of singular and plural forms, British and American English spellings differences and the use of synonyms by different authors.

The permuted MeSH index (alphabetical list of MeSH terms) and the MeSH tree structure can be viewed online using the BMA Library's MEDLINE Plus system. The Ovid software also helps you to find the most appropriate MeSH headings for your search.

1.3. **Strengths of MEDLINE**
- It is highly structured making it possible to conduct highly sophisticated and targeted searches;
- It covers a large number of journals;
- It is the largest database of its kind in the world.

1.4. **Limitations of MEDLINE**
- MEDLINE is not a full text database;
- There is a significant US bias – around 50% of material is from American journals;
- Not all of the content of each journal is included - for example letters or editorial material may not meet the criteria for inclusion. Also journals with a wide scope will only have those articles with a medical focus selected by MEDLINE;
- Only journal articles are included; not books, book chapters, conference proceedings, statistical tables, or official documents;
- The recent records (PreMEDLINE) will not have had subject headings added;
- Some articles will be misclassified, so for a comprehensive search it is always necessary to include a wide range of possible terms.
2. **The MEDLINE Plus service**

2.1. **Features of MEDLINE Plus**

MEDLINE Plus is the BMA Library’s Medline service. It is exclusive to BMA personal members and to Institutes who have become library members.

Access to MEDLINE is through the OvidSP interface.

MEDLINE Plus includes the following:

- Access to the complete MEDLINE database from 1946 onwards;
- Access to the recent ‘in-process’ MEDLINE citations;
- Powerful Ovid search software, which maps your own words to suggested Medical Subject heading (MeSH) search terms;
- Online ordering;
- Printing, emailing or saving results is free of charge and ‘direct export’ transfer of records into reference management software is enabled.
- Free search service - we search MEDLINE Plus on your behalf.
- An alerting service - we email you the details of new articles added in your subject area each time the Medline is updated;
- A friendly helpdesk - we help with MEDLINE Plus queries including forgotten passwords, Internet browser problems, searching strategies.

Registering for the service:
Members of the BMA automatically have access to MEDLINE Plus. To register go to the BMA home page at [http://www.bma.org.uk](http://www.bma.org.uk), click on ‘Sign in’ and select ‘Register’. A screenshot of this page is shown in Figure 1. You will be asked to fill in a form and select your own user name and password. Once submitted, a verification screen will confirm your user name and password, and you can sign in to the site straight away.

For Institutes who are library members, you will be provided with a login and password for full website access when you join.

2.2. **Requesting a free search or free regular update (login required)**

You can request a free search or free regular update on a medical subject of your choice, please select the appropriate option from the menu on the Library and Medline pages on the BMA website. You need to be logged in to see these options.

2.3. **Help desk and website support**

The MEDLINE Plus helpdesk is available by telephone between 9am to 5pm Monday to Friday, or send us an email at any time. Alternatively consult the Library and Medline area of the BMA website where we have compiled answers to Frequently Asked Questions.

Helen Elwell  
Lina Coelho

Tel: 020 7383 6582  
email: info.medline@bma.org.uk  
web: [http://www.bma.org.uk/medline](http://www.bma.org.uk/medline)
3. Using the Ovid software to access MEDLINE - basics

3.1. Logging in
You need to be a BMA member and have registered to use the BMA website in order to access MEDLINE Plus. Details are in Section 2.1.

To log in: Go to the BMA home page http://bma.org.uk, select ‘Sign in’ and enter your username and password in the boxes provided. If you haven't got a user name and password, select ‘register’ after clicking on the ‘Sign in’ tab

![BMA home page showing Sign in area](image1)

To get into MEDLINE Plus after signing in:

1. Click ‘Your Account’ on the far right hand side of the screen and select the text link ‘Medline’ from the drop down menu (Fig. 2);
2. At the Medline News page, select the Continue button. A new window will open up taking you to the Ovid Gateway system;
3. You will see a list of databases to select from.
4. Select Ovid Medline 1946 to [the current date] search then click OK. (Fig. 3);
Figure 2: Accessing Medline via the Medline link under “Your account”.

Figure 3: Select Ovid Medline (R) 1946 to [the current date]
3.2. The Main Search page

Once into MEDLINE Plus you will see a screen like this, with the following areas:

![Main search screen]

**Fig 4: The main search screen**

1. At the top of the screen we have the action links to access your account (used for saving strategies and using My Workspace. for details, see Section 9) or to email for support.
2. Next, the Search History. Click to expand this area of the screen to see your search terms you have entered and the number of references retrieved.
3. Below this we have various tabs for different search options
4. Then the section of the database we are searching. In this example we are searching Medline 1946 to May week 3
5. The white box underneath is the area to enter your search commands.
6. Finally in the pale blue shaded area are the Limits. Clicking on Additional Limits once you have begun searching will expand the range of options available to limit your search results. (More in section 7.1)

3.3. Selecting your search option

**Basic search**, this option is for searching using natural language terms.
**Find Citation** search option is perfect for finding an article for which you remember certain facts.
**Search Tools** will enable you to search for specific terms and investigate their use in the database.
**Search Fields** allows you to search within specific fields within Medline’s records.
**Advanced Search Option**, the default option on the main search screen, allows complete flexibility in developing any search strategy and exploits the full potential of Medline.

3.4. Author search

You are looking for a particular article written by Morten Gronbaek. You don't know whether he has a second given name. To look for him:

1. Select author from the radio buttons above the search history box;
2. You will be asked to "Enter the Author’s last name, a space, and first initial if known:"
3. Type gronbaek m into the search box and select Search
You will see that two entries in the list could possibly be Morten Gronbaek, so place a tick (click) by each one and select Figure 5: Author search

You are now taken to the system's list of authors. Be aware that even if you know all the authors' initials or their full name, they may be cited in different ways on different occasions depending on the publication style of the journal.

You will see that two entries in the list could possibly be Morten Gronbaek, so place a tick (click) by each one and select Figure 6: Author index

You are returned to the Main Search page as below. Look at the Search History to see that the system has translated your search into one line in the search history box. More details on carrying out an author search using commands are in Section 3.9.
3.5. Title search

You remember that Morten Gronbaek wrote an article that had the word *wine* in the title.

1. Select the *title* from the radio buttons above the search history box;

2. You will be asked to "Enter a word or phrase to be searched in the title:"

3. Type *wine* in the search box and select "Search"

The system will look for exactly the string of characters that you type. In this case you are asking it to look for the word *wine* anywhere in the title - not necessarily at the beginning. Variations in spelling and plurals can be allowed for by using the truncation and wildcard symbols $ ? # (see section 6.3 for more details).
3.6. **Journal search**

You also know that Morten Gronbaek published this article in the Journal of Internal Medicine.

1. **Select journal** from the radio buttons above the search history box;
2. You will be asked to “Enter the first few letters of a full journal name; do not use abbreviations.”
3. **Type journal of internal** in the search box and select Search

It is necessary to start at the beginning of the journal title or you will not find it, but you only need enough letters to place it in the system's alphabetical list of journals at the point in the list closest to your search term. Use if your desired term does not appear on the screen straight away.

![Journal index](image)

Figure 10: Journal index

You will see the entry that corresponds to the journal, so place a tick (click) by it and select Search for selected terms button

Contrary to normal instructions make sure that you do just use initials when searching for the **BMJ** (from 1988 onwards) or **JAMA** (throughout the entire database).
3.7. Searching by other fields

You are seeing that each MEDLINE record is made up of a number of individual fields, most of which can be searched. A complete example using the article we are searching for here is shown in Section 1.2.

You know that Morten Gronbaek works in Copenhagen, and you think he is employed by the Danish Epidemiology Science Centre. The ‘institution’ field can be used to search for this. However as the ‘institution’ field is not standardised, you select the word most likely to be present:

1. Select Search Fields Tab (from the Search options tabs),
2. Select (click) the Institution option;
3. Scroll to the top of the screen and;
4. Type copenhagen in the search box and select Search.

Figure 12: Search fields/indexes screen
If you wish to see where your term appears in the alphabetical list (index) of the field chosen select the **Display Index** button.

This results in the following search history:

![Search history](image)

Figure 13: Search history resulting from an additional search for the institution containing the word 'copenhagen'
3.8 Combining search sets

Search sets are brought together using Boolean operators. These are AND, OR, and NOT

**AND** A and B must both be present in all articles.
**OR** A or B can be present, or articles mentioning both A, B. Many people remember this as "OR is more".
**NOT** A not B, the articles mentioning B would be excluded

In our example you want to see if the article by Gronbaek is contained at the point at which all four search results (sets) intersect. For this we want to use the Boolean operator **AND**.

1. Select (click) the set numbers of the search results that you wish to combine;
2. Click on the **AND** button.

![Figure 14: Combining four terms with AND](image)

The search history for set 5 shows the intersection (AND) of sets 1, 2, 3, and 4. This results in 1 hit - so it's quite likely we've found the article we want.

![Figure 15: Search history resulting from a combination of terms](image)
3.9 Displaying the results

To show the author and title information for the first ten (or fewer) results from the search, simply scroll down to the bottom of the Main Search screen.

You can see that we've found the Gronbaek article. You want to see the abstract of the article:

Select the link **Abstract** to the right of the article summary information.

The system displays the abstract or summary details of the article. Select **Complete Reference** to see the information in Figure 17 plus the subject headings assigned to the article, and other index entries such as language and publication type (eg review).
Select **Gronbaek M** to take you to a list of all articles by all authors with the name M Gronbaek - they may not necessarily be the same person.

If after reading the abstract you want to save it for future printing, saving, email or ordering then place a tick (click) in the check box to the top left of the record. Section 8 goes through these options.

You may also see links such as Full Text. These appear only where available and link to the entire text of the article outside of MEDLINE.

### 3.10 Typing in your commands to search in different fields

You can also search in fields by simply typing your search term followed by the two-letter field label in the **Enter Keyword or phrase** box.

The most common field labels used are:

- **.au** author field search
- **.ti** title field search
- **.jn** Journal or source field search
- **.tw** a text word in the title or abstract
- **.mp** a word in the MeSH subject heading field, title field, abstract or name of substance field. (**.mp** is an abbreviation for **m**ultiple **p**osting)

**Author search**

So you can perform a search for Morten Gronbaek by typing **gronbaek m$.au.** in the **enter Keyword or phrase** box on the Main Search page:

By using the truncation symbol of $ you are simply asking the system to look for all authors called **gronbaek m** and any other initial.

**Title search**

Type **wine.ti.** to find articles with the word “wine” anywhere in the title.

**Journal search**

Type **journal of internal medicine.jn.** to find record for the journal of internal medicine
You can also type in the boolean commands “And” or “OR” or “NOT” rather than using the “Combine selections with” buttons.

For example type **1 and 2** in the enter **Keyword or phrase** box on the Main Search page to retrieve articles which cover both coronary disease and wine:

![Search History](image)

Figure 18: Using **AND** in one step as a command typed in the search box

Or, an example of using the **OR** operator to find those articles containing coronary disease or coronary heart disease in the title, type:

**coronary disease.ti or coronary heart disease.ti**

in the enter **Keyword or phrase** box

![Basic Search](image)

Figure 19: Using **OR** in one step as a command typed in the search box
This is displayed by the system as:

![Search History](image1)

**Figure 20:** Result of short-cut combination search using **or** in one step

Lastly, combining searches using **not** will remove items in the second listed search set from those in the first listed search set. For example, type **1 not 2** to retrieve items with **wine** in the title but **not beer**:

![Search History](image2)

**Figure 21:** Using **NOT** in one step as a command typed in the search box
4. Literature searching for research: planning a search

4.1. Define the search question

For anything other than the simplest search, you must define your question in order to identify the concepts involved, and the way you want to combine them. We are suggesting two ways of brainstorming this below.

Example: You want to find an overview of the literature about moderate wine consumption and the risk of developing coronary heart disease.

The ideal journal article

Some people find that if they write down the title of their ideal journal article, it helps to gather their thoughts. An example could be:

"A review of the impact of moderate wine consumption on the prevention of coronary heart disease"

PICO

A more rigorous approach, particularly suitable for clinical evidence queries for use in practice, is to use the PICO formula:

<table>
<thead>
<tr>
<th>P</th>
<th>I</th>
<th>C</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population/Patient/Problem = Coronary heart disease</td>
<td>Intervention/Exposure = Wine consumption</td>
<td>versus Comparison = versus No consumption</td>
<td>Outcome = Prevention</td>
</tr>
</tbody>
</table>

With a diagnosis, therapy or prognosis question, the terms would be best combined as Population AND Intervention. In the case of aetiology (causation, risk) combine terms as [Population] AND Intervention/Exposure AND Outcome.

4.2. Break the question down into concepts + synonyms

Either approach could translate to three concepts. In this case we will use the first approach. It is at this point that you also consider synonyms:

1. Coronary disease, coronary heart disease, chd
2. Prevent, prevention, preventing
3. Wine consumption

You will see as you go through Section 5 that the system will help you to find the MeSH headings appropriate to these concepts. Searching is an iterative process; it is often necessary to revise your strategy and start afresh so don't worry if you have to do this.

4.3. Search each concept separately, combine terms and limit results

Literature searching to support research involves using both subject headings (MeSH) and your own keywords to reflect your concepts. The degree to which you use subject headings (MeSH), subheadings, and your own keywords and limits depends on the comprehensiveness you require for the search.

Section 5 covers concept searching using subject headings (MeSH).
Section 6 covers concept searching using keywords.
5. Concept searching using MeSH

5.1. Using indexing terms - Medical Subject Headings (MeSH)

We will search for articles related to the question in Section 4 by using its controlled language, MeSH.

The first concept is Coronary Heart Disease.

1. In the enter Keyword or phrase box on the Main Search page type coronary heart disease
2. Make sure that the Map Term to Subject Heading box is ticked;
3. Select Search

Figure 22 shows that the system has tried to help you map your search term to the correct subject heading (reflecting current use), which is Coronary Disease. The icon provides a scope note with an explanation of the term and a list of synonyms.

Your original search term is also listed with the note search as Keyword. You could combine your term with the Medline Subject heading using OR to broaden your search.

Figure 22: Mapping display for a search for coronary heart disease

To check that Coronary Disease is the best term to use – you can view the MeSH tree structure.

1. Select the link containing the words Coronary Disease
2. This will take you to the part of the MeSH tree structure that includes the Coronary Disease heading.
5.2. **Tree structure**

Here we see the section of the tree for Coronary Disease.

*Figure 23: MeSH tree structure for Coronary Disease*

The symbols [+] or [-] show where you can expand or contract the tree. The numbers after each term show the number of records (‘Hits’) for that heading. A tick is in the box to the left of Coronary Disease, indicating it is selected.

MEDLINE indexers are instructed always to index at the most specific level possible when dealing with individual articles. When searching it is best to use the most specific word or phrase available as a MeSH heading that describes the subject in which you are interested.

1. Have a look at the terms above and below Coronary Disease in the hierarchy. Are they more appropriate?
2. In this case we will say no, and move on to decide whether to explode and/or focus the term.

5.3. **Explode**

Searching using a broad MeSH term will find very general articles on a topic.

**Explode** allows you to include all the narrower terms under the broad MeSH term automatically. This is a very powerful search tool but must be used with caution as when you explode a broad MeSH term you may retrieve articles on topics which are too specific for your needs.

Only explode a broad MeSH term when you are sure that you wish to retrieve all, or most of, the narrower terms which fall under it in the MeSH tree hierarchy.
5.4. Subheadings

MeSH terms may also be combined with particular subheadings.

There are over 80 subheadings describing particular aspects of, or particular ways of looking at, the subject concerned.

Several of these – adverse effects, mortality, and prevention & control - are in the MeSH terms field of the record shown in Section 1.2. You can see they are preceded by a forward slash.

After selecting a subject heading, the system takes you to the subheadings display. Figure 24 shows a part of the display for Coronary Disease.

---

1. Decide if you want to explode the term Coronary Disease;
2. In this case you decide yes, so tick (click) in the column corresponding to **explode**;
3. Scroll to the top of the screen and select **Continue**.

---

Figure 24: A selection of the subheadings for Coronary Disease

As an estimated 50% of articles in MEDLINE are inadequately or incorrectly classified by subheading, they are best only used for general information about a well-defined topic.

**Prevention & Control** is one possible subheading that is relevant to our question and our topic is sufficiently broad to try this approach.

1. Have a look at the options and think about whether any of the subheadings are appropriate;
2. In this case you select (tick) **Prevention & Control**;
3. Scroll to the top of the screen and select (click) **Continue**.
After the subheading screen you are returned to the Main Search page with the result of these steps. We have effectively covered two of the concepts in the search, coronary heart disease and prevention.

Figure 25: Result of search for Coronary Disease where Prevention & Control subheading options had been selected

Tip: If the subheading was not included, we would need to search separately for the concept of prevention. If this was done the subheading risk would be suggested, which explodes to include the term risk factors.

5.5. Restrict to focus

Indexers mark MeSH terms if the subject described is the focus of the article being indexed. They will select 4 or 5 subjects to focus from each article and these are marked with an *. This aids searching when you want your search to be as relevant as possible to your topic. It should not be used if you want the search to be comprehensive.

The second concept is wine consumption and it is relevant to focus this topic in order to exclude articles about alcohol consumption that mention wine in passing.

1. In the Enter Keyword or phrase box on the Main Search page type wine consumption
2. Make sure that the Map Term to Subject Heading box is ticked;
3. Select Search
4. Click (select) the box Focus next to the word Wine;
5. Select new button
6. You decide to include all subheadings so simply select (it is not necessary to select the 'all subheadings' box).

This time we didn't look at the tree structure but it was possible to include those steps. You are returned to the Main Search page with the result:

Figure 26: Result of search for Wine after the focus option had been selected

These terms can now be combined.
5.6. Typing your commands to search with MeSH

Enter the following commands into the Enter Keyword or phrase search box, followed by or the Enter key:

- To search for a known MeSH term without following the mapping process, enter the correct heading followed by a forward slash. The system will not map this term or offer the list of subheadings associated with it,

For example: coronary disease/

- To explode a known MeSH term type exp plus the MeSH term (the forward slash is optional),

For example: exp coronary disease/

- To focus a known MeSH term type * plus the MeSH term (the space or the forward slash is optional),

For example: * wine/

- to both explode and focus a term. Type exp * plus the MeSH term

For example exp *coronary disease/

Postqualification can be used in order to add or remove subheadings, and add focus or explode to search statements you have already typed.

For example:

<table>
<thead>
<tr>
<th>#</th>
<th>You enter:</th>
<th>Ovid displays the search as:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>coronary disease/</td>
<td>coronary disease/</td>
</tr>
<tr>
<td>2</td>
<td>1/et,pc</td>
<td>coronary disease/et,pc</td>
</tr>
<tr>
<td>3</td>
<td>2/</td>
<td>coronary disease/ (ie removes the subheadings)</td>
</tr>
<tr>
<td>4</td>
<td>*1</td>
<td>*coronary disease/</td>
</tr>
<tr>
<td>5</td>
<td>exp 2</td>
<td>exp coronary disease/et,pc</td>
</tr>
<tr>
<td>6</td>
<td>exp *2</td>
<td>exp *coronary disease/et,pc</td>
</tr>
</tbody>
</table>
5.7. **MeSH tools**

Select **Search Tools** from the Main Search page icons to find several tools to aid MeSH searching:

![Search tools](image)

Figure 27: Search tools

Type one word and select **Permutted index**. This gives a list of all words used in MeSH headings. It helps when a term may be found in several subject areas or you just don't know where to start searching. Alternatively type **ptx** plus the word of interest in the **Enter Keyword or phrase** search box,

For example:

**ptx coronary**

Enter a known MeSH term and select **Tree** from the options. This shows the position of the term within the hierarchical tree structure. Alternatively type **tree** plus the term of interest in the **Enter Keyword or phrase** search box,

For example:

**tree coronary disease**

Enter a known MeSH term and select **Scope Note** in the list. This enables you to check the scope of a term and its synonyms. Alternatively type **scope** plus the known term interest in the **Enter Keyword or phrase** search box,

For example:

**scope coronary disease**
6. Concept searching using keywords

6.1. When keyword searching is needed

When searching using subject headings (MeSH), synonyms, alternative spellings and plurals are automatically accounted for as the indexer has done this for you. But if searching the rest of the text, you need to do this for yourself.

You may also need to search using keywords to:

- Maximum recall from your search – that is, to be comprehensive. To find articles that may have been inconsistently indexed, or to find minor mentions of your term, you will need to search the same concepts by keyword as well as subject heading;
- Find terms that are so new they are not covered by subject headings, e.g., severe acute respiratory syndrome, when it first emerged in 2003;
- Find some drug names, particularly brand names not used in the United States;
- Find vague concepts not readily fitting into the controlled structure such as patient attitudes;
- Search PreMEDLINE as the database has no subject headings.

Returning to the search for articles on coronary disease, you can look for articles that contain alternative ways of describing the concept, as planned in Section 4.

1. Type coronary heart disease into the Enter Keyword or phrase box;
2. Deselect (click) the Map Term to Subject Heading box so that there is no tick;
3. Select Search

Figure 28: To search as keyword, make sure the Map Term box is not ticked

The field shortcut .mp. is then automatically applied, as shown in Figure. This command (meaning 'multiple posting') simultaneously searches the title, original title, abstract, substance word and subject heading word fields.
Figure 29: Result of keyword mapping

Alternatively, the code .tw. (text word) can be used to simultaneously search the title and abstract,

For example:  
chd.tw.

This can be typed directly into the Keyword or phrase box as you did for the short-cut searches in earlier sections.

6.2. Synonyms

To be comprehensive you need to include concepts as keywords combined with exploded MeSH headings,

For example:
- breast cancers, with the MeSH term Breast Neoplasms;
- SIDS, with cot death, with the MeSH term Sudden Infant Death Syndrome;
- coronary heart disease, with chd, with the MeSH term Coronary Disease.

Figure 30: Example of searching for and combining synonyms

You also may need to allow for misclassification of articles. This is apparent where a US bias is obvious in the subject heading, for example physicians, family is the subject heading appropriate for general practitioners (the scope note indicates this), but some articles about general practitioners do not include the heading.

Synonyms need to be combined with OR. In the example above, if you need to be comprehensive and include the US equivalent then search for physicians, family/ or family practice/ or general practi$.tw.
6.3. Word stemming (truncation) and wildcards

$ is used to search for a particular word stem with any of a number of possible endings. Add the character $ to the end of your initial string of characters and before the two character field code.

For example: practi$.tw.

Retrieves practice, practices, practitioners, as well as other words you may not want like practicalities or practised.

Do not to make the word stem too short. This will take a long time to search and may retrieve irrelevant material. You may also specify how many characters you are willing to accept after your basic word stem by adding a number after the $ character.

For example: ova$.3.ti.

Retrieves items where the word stem ova is followed by 0-3 more characters.

# is the mandatory wildcard character # and can be used within or at the end of a search term to substitute for one required character.

For example: wom#.n.ti.

Retrieves items with titles containing the word woman or women. A character must be present in the position denoted by the # in your search term for an item to be retrieved.

You may use multiple mandatory wild card characters in a single query.

? is the optional wildcard character and may be used within or at the end of a search term to substitute for one or more characters.

For example: gyn?.ecology.ti.

Retrieves items with titles containing the word gynecology or gynaecology.

Figure 31: Result of optional wild card title search for orthop?edics
6.4. Searching for phrases

You may use adj to request that 2 words be retrieved only if they are adjacent to one another and in the given sequence.

Adjacency is implied where a phrase is typed, eg coronary heart disease.

Brackets are required around the phrase when combining terms in a complex query. There is no way of searching specifically by upper or lower case.

Add a number after adj to specify how many additional words you are prepared to accept in between those you are searching for, regardless of word order.

For example:

(home adj2 help).ti.

Retrieves home help, help in the home in the titles of articles.

Note that certain words with little intrinsic meaning like 'the', 'is', 'an' are not counted by the system in most fields (called stopwords).

Figure 32: Result of using adjacent (adj) operator with the search (home adj2 help).ti.

Quotes can be used to search for an exact phrase, and must be used where a number or a combination term (and, or, not) is used, as Ovid could interpret it as being part of a previous search set or an instruction.

6.5. Typing your commands when searching using Keywords

Postqualification can be used where you have already carried out a search looking for terms in specific fields of the database and wish to change the fields from which the terms are retrieved without retyping the original query.

<table>
<thead>
<tr>
<th>#</th>
<th>You enter:</th>
<th>Ovid displays the search as:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>coronary heart disease.mp.</td>
<td>coronary heart disease.mp.</td>
</tr>
<tr>
<td>2</td>
<td>1.ti.</td>
<td>coronary heart disease.ti.</td>
</tr>
<tr>
<td>3</td>
<td>2 or chd.ti.</td>
<td>(coronary heart disease or chd).ti.</td>
</tr>
<tr>
<td>4</td>
<td>prevent$.ti.</td>
<td>prevent$.ti.</td>
</tr>
<tr>
<td>5</td>
<td>3 adj3 4</td>
<td>(((coronary heart disease or chd) adj3 prevent$).ti.</td>
</tr>
<tr>
<td>6</td>
<td>5.mp.</td>
<td>(((coronary heart disease or chd) adj3 prevent$).mp.</td>
</tr>
<tr>
<td>7</td>
<td>6 and wine.mp.</td>
<td>(((coronary heart disease or chd) adj3 prevent$) and wine).mp.</td>
</tr>
</tbody>
</table>
7. Refining the search strategy

You can refine your search by applying various limits and filters and using different techniques to maximise recall or optimise focus.

7.1. Limiting a search

Limit your search to local holdings, human subjects, English language, reviews, abstracts or by date by making your selection from the options in the Limits section of the screen. You can select any of these limits either before or after your search.

Select after your search, to obtain further limits such as publication type, language and age groups.

If you wish to select more than one option within a list (eg publication types) press the ctrl key in conjunction with the left mouse button to select each one.

Note:
Latest update
This limits your results to those added in the most recent update (generally weekly). The updates reflect the date that they were entered into the system, not necessary the publication year.

7.2. Applying filters

Filters can be used to limit searches to particular research methodologies in order to tease out evidence-based clinical information on therapy, diagnosis, aetiology or prognosis with emphasis on either sensitivity or specificity (recall or relevance).

Filters for systematic reviews (meta-analyses) and randomised controlled trials have also been developed, and they are available as the clinical queries limit in Ovid. The exact search steps used by the Ovid limits are found in Section 10.5

Use a filter after combining your own search concepts together. Recall vs relevance
The extent to which you use the techniques discussed in this manual depends on your needs.

7.3. Maximising recall (sensitivity or comprehensiveness)

- use MeSH terms with keywords
- explode MeSH terms
- select the All Subheadings option
- incorporate synonyms using OR
- use truncation and wildcards
• refine the search by looking for additional suitable search terms (look at records that give a good match)
• search as far back in time as possible
• consider other databases

7.4. Optimising relevance (specificity or focus)
• use MeSH headings only rather than MeSH with keywords
• make the MeSH headings as specific as possible
• focus MeSH terms
• use MeSH subheadings
• add in other terms, using AND to represent extra concepts in the question
• use limits (including filters)
• consider title-only searching

A good balance between recall and relevance is often achieved by using MeSH headings plus title field searching.

Inconsistently indexed yet relevant records can be retrieved using title keywords without swamping the search result.

7.5. Deleting sets in your search strategy

Tick the box to the left of the sets in your strategy you wish to remove Click on the button below your search history.

You may also use the command ..pg to delete (purge) steps from your search strategy.

For example,
• ..pg 4
  will delete step number 4 in a strategy

• ..pg 3-6
  will delete steps 3-6 inclusive,

• ..pg all
  will delete all steps.

Please note that when you delete a particular search set, any later sets with which it has been combined will also be deleted. After deleting a search set(s) your remaining sets will be renumbered.
8. Handling the results

8.1. Selecting your results

To select all the results in a set, click on the “Select all” option at the top of your results list.

![Select all](Image)

Figure 34: Select all.

To select items one at a time, tick the box to the left of each reference.

![Select individual references](Image)

Figure 35: Select individual references.

To view the items you have selected, choose “Selected only” in the “Filter by” box.

![View selected items](Image)

Figure 36: View selected items.
To keep the selected results in a separate search set in your search history, either click on "Keep Selected"

or after filtering to selected only, choose “Add to search history”

Figures 37 and 38: Adding selected results to your search history.

8.2. Ordering, printing, emailing and exporting your results

Selecting the **order** option will bring up a simple form for you to order your selected items directly from the BMA Library

Figure 39: Ordering articles

Selecting **Print**, allows you to select the format and fields for your selected references and will load a print preview copy in a new window on your computer ready for you to print.
Selecting **Email** also allows you to select the format and fields for your selected references and brings up a screen for you to enter the email account details to send your results:

![Email Citation List](image)

**Figure 40**: Sending your results to an email account.

Selecting **Export** allows you to export your results through to your reference manager software package and again allows you to select the format and fields for your selected references.

### 8.3. Logging off

Select the **Logoff** option from the Main Search page to exit the system. The window you are using will close, and you are then returned to the BMA website.
9. My Workspace

9.1. Features of My Workspace

My Workspace is an online area where you can save and manage your own work. The tab appears on the main search page.

To use this area you must create a personal account, this can be set up simply by selecting the "Create a new personal account option" and filling out the details required on a simple form. Choose your own login and password and the account is set up immediately:

My Workspace has four areas of activity: My Projects, My Searches & Alerts, My eTOCS and Install Toolbar.

9.2. My Projects

My Projects is a folder organization system that allows you to organize your research in convenient and easy to use project folders. My Projects allows you to manage all research found on the OvidSP platform. If you install the Ovid Toolbar (see section 9.5) you can also collect and manage your research from any other online sources.
Add a single item to a project by selecting the **My Projects** icon available on each item:

![Figure 43.](image)

To select multiple items, tick the checkbox for each item you want to send to My Projects then select the “Add to my Projects” function:

![Figure 44.](image)

In both cases the Add items pop up will be displayed:

![Figure 45.](image)
In My Projects you can also do various tasks such as enter your own citation or uploading a file from elsewhere on your PC or network. Simply choose the appropriate option from the dropdown menu and follow the onscreen instructions.

Figure 46.

9.3. My Searches and Alerts

My Searches and alerts is the area where any search histories you have saved or any auto alerts you have set up are stored. You can re-run, edit or delete these using the buttons available at the top of the screen as appropriate:

Figure 47.
Search histories can be saved on the OvidSP server either as temporarily (24 hours) or permanently and can be re-run at any time. It is also possible to set up your search history as an auto alert which will run each time Medline is updated and the results emailed through to you.

To set these up select the button on the main search screen after formulating your search strategy and login to your personal account:

![Image of search history settings](image)

Figure 48.

On selecting this you will then be able to choose to save your search history temporarily, permanently or as an auto alert. You can also choose to save your search history in a project folder in the My Projects area.

![Image of search history options](image)

Figure 49.

### 9.4. My eTocs

My eTocs enables you to subscribe to receive the Table of contents from a list of a number of journals on Medline OvidSP. On selecting **My eTocs** you will be taken to a screen to subscribe (by entering your email address). You will then be given a list from which to choose.

![Image of My eTocs subscription](image)

Figure 50.
9.5. Install Toolbar

The option to install a toolbar onto your browser will enable you to simply transfer and manage links to online web resources by saving them into your project folders on OvidSP.

By selecting Install toolbar you are taken to the appropriate webpage on the OvidSP website where you can select the toolbar for either Internet Explorer or Firefox.

10. Online help

10.1. Ask a librarian

If you having difficulty finding what you are looking for please let us know and we will give advice or send you a free 'quick search' as appropriate.

The New button | Ask the BMA Library MEDLINE helpdesk | link is available on the main search page which enables you to send an email to us at the helpdesk.

10.2. Context-sensitive help

The new button | Help | option at the top of the screen shows help files created by Ovid. The screen shown depends on the point you have reached in the system.
## 11. Appendix

### 11.1. Ovid two-character codes for fields (dot codes) with examples

* Word indexed

<table>
<thead>
<tr>
<th>Field</th>
<th>Code</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract *</td>
<td>.ab.</td>
<td>drug abuse.ab.</td>
</tr>
<tr>
<td>All searchable fields</td>
<td>.af.</td>
<td>postneonatal.af.</td>
</tr>
<tr>
<td>Author</td>
<td>.au.</td>
<td>ponsonby a$.au. fenech m.au.</td>
</tr>
<tr>
<td>Authors full name</td>
<td>.fa.</td>
<td>fenech michael.fa.</td>
</tr>
<tr>
<td>CAS Registry/EC number</td>
<td>.rn.</td>
<td>ec 1-1-1-1-1-1.rn.</td>
</tr>
<tr>
<td>Comments</td>
<td>.cm.</td>
<td>jama.cm.</td>
</tr>
<tr>
<td>Country of Publication</td>
<td>.cp.</td>
<td>italy.cp.</td>
</tr>
<tr>
<td>Electronic date of publication</td>
<td>.ep.</td>
<td>20011215.ep.</td>
</tr>
<tr>
<td>Entry Date</td>
<td>.ed.</td>
<td>20030204.ed.</td>
</tr>
<tr>
<td>Exploded subheading (eg therapy)</td>
<td>.xs.</td>
<td>th.xs.</td>
</tr>
<tr>
<td>Exploded MeSH heading</td>
<td>.xm.</td>
<td>coronary disease.xm.</td>
</tr>
<tr>
<td>Floating subheading</td>
<td>.fs.</td>
<td>di.fs. (see Section 11.5)</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>.gs.</td>
<td>agr.gs.</td>
</tr>
<tr>
<td>Gene Symbol Word *</td>
<td>.gw.</td>
<td>mada.gw.</td>
</tr>
<tr>
<td>ISSN</td>
<td>.is.</td>
<td>0146 0005.is.</td>
</tr>
<tr>
<td>Institution *</td>
<td>.in.</td>
<td>guys.in.</td>
</tr>
<tr>
<td>Investigator</td>
<td>.ir.</td>
<td>young lr.ir.</td>
</tr>
<tr>
<td>Investigator affiliation</td>
<td>.ia.</td>
<td>purdue u.ia.</td>
</tr>
<tr>
<td>Issue/Part *</td>
<td>.ip.</td>
<td>&quot;6&quot;.ip.</td>
</tr>
<tr>
<td>Journal Code</td>
<td>.jc.</td>
<td>7801132.jc.</td>
</tr>
<tr>
<td>Journal Name</td>
<td>.jn.</td>
<td>journal of internal medicine.jn</td>
</tr>
<tr>
<td>Journal Subset</td>
<td>.sb.</td>
<td>aim.sb.</td>
</tr>
<tr>
<td>Journal Word *</td>
<td>.jw.</td>
<td>perinatology.jw.</td>
</tr>
<tr>
<td>Keyword heading</td>
<td>.kw.</td>
<td>legal approach.kw.</td>
</tr>
<tr>
<td>Keyword heading word *</td>
<td>.kf.</td>
<td>internet.kf.</td>
</tr>
<tr>
<td>Language</td>
<td>.lg.</td>
<td>fre.lg.</td>
</tr>
<tr>
<td>Multiple posting (default search)</td>
<td>.mp.</td>
<td>ulcerative colitis.mp.</td>
</tr>
</tbody>
</table>

- abstract, title, original title, subject heading word, name of substance

<table>
<thead>
<tr>
<th>Field</th>
<th>Code</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>MeSH Subject Heading</td>
<td>.sh.</td>
<td>coronary disease.sh.</td>
</tr>
<tr>
<td>Molecular Sequence</td>
<td>.ms.</td>
<td>swissprot-s33667.ms.</td>
</tr>
<tr>
<td>Other abstract (for bioethics) *</td>
<td>.oa.</td>
<td>crime.oa.</td>
</tr>
<tr>
<td>Original title *</td>
<td>.ot.</td>
<td>coeur.ot.</td>
</tr>
<tr>
<td>Page</td>
<td>.pg.</td>
<td>296.pg.</td>
</tr>
<tr>
<td>Personal Name as Subject</td>
<td>.pn.</td>
<td>watson jd.pn.</td>
</tr>
<tr>
<td>Publication Type</td>
<td>.pt.</td>
<td>review.pt.</td>
</tr>
<tr>
<td>Record owner</td>
<td>.ro.</td>
<td>nlm.ro.</td>
</tr>
<tr>
<td>Registry Number Word *</td>
<td>.rw.</td>
<td>enzyme$.rw.</td>
</tr>
<tr>
<td>Source</td>
<td>.so.</td>
<td>(26 and 296 and 2002).so.</td>
</tr>
</tbody>
</table>

- journal, page, year, volume, issue

<table>
<thead>
<tr>
<th>Field</th>
<th>Code</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space flight mission</td>
<td>.sm.</td>
<td>flight experiment.sm.</td>
</tr>
<tr>
<td>Subject Heading Word *</td>
<td>.hw.</td>
<td>coronary.hw.</td>
</tr>
<tr>
<td>Text word *</td>
<td>.tw.</td>
<td>(vitamin c and common cold),tw.</td>
</tr>
</tbody>
</table>

- title, abstract

<table>
<thead>
<tr>
<th>Field</th>
<th>Code</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title *</td>
<td>.ti.</td>
<td>mild asthma$.ti.</td>
</tr>
<tr>
<td>Unique Identifier</td>
<td>.ui.</td>
<td>11576317.ui.</td>
</tr>
<tr>
<td>Update date</td>
<td>.up.</td>
<td>20041220.up.</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>Year of Publication</td>
<td>.yr.</td>
<td>2002.yr.</td>
</tr>
</tbody>
</table>
11.2. Forming a search strategy

- Question
  - Concept A
    - Subject heading 1
      - OR
        - Keyword a
      - OR
        - Keyword b
    - OR
  - Concept B
    - Subject heading 2
      - OR
        - Keyword c
    - OR
  - Concept C
    - Subject heading 3
      - OR
        - Keyword e
    - OR

- Search set A AND Search set B AND Search set C

- Search strategy

- Review and modify strategy

- Limit by date, language, reviews as needed

- Select and save/print/email/order
11.3. **Ovid two-character codes for subheadings**

<table>
<thead>
<tr>
<th>Abnormalities</th>
<th>Legislation &amp; jurisprudence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration &amp; dosage</td>
<td>Manpower</td>
</tr>
<tr>
<td>Adverse effects</td>
<td>Metabolism</td>
</tr>
<tr>
<td>Agonists</td>
<td>Methods</td>
</tr>
<tr>
<td>Analogs &amp; derivatives</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Analysis</td>
<td>Mortality</td>
</tr>
<tr>
<td>Anatomy &amp; histology</td>
<td>Nursing</td>
</tr>
<tr>
<td>Antagonists &amp; inhibitors</td>
<td>Organization &amp; administration</td>
</tr>
<tr>
<td>Biosynthesis</td>
<td>Parasitology</td>
</tr>
<tr>
<td>Blood</td>
<td>Pathogenicity</td>
</tr>
<tr>
<td>Blood supply</td>
<td>Pathology</td>
</tr>
<tr>
<td>Cerebrospinal fluid</td>
<td>Pharmacokinetics</td>
</tr>
<tr>
<td>Chemical synthesis</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>Chemically induced</td>
<td>Physiology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Physiopathology</td>
</tr>
<tr>
<td>Classification</td>
<td>Poisoning</td>
</tr>
<tr>
<td>Complications</td>
<td>Prevention &amp; control</td>
</tr>
<tr>
<td>Congenital</td>
<td>Psychology</td>
</tr>
<tr>
<td>Contraindications</td>
<td>Radiation effects</td>
</tr>
<tr>
<td>Cytology</td>
<td>Radiography</td>
</tr>
<tr>
<td>Deficiency</td>
<td>Radionuclide imaging</td>
</tr>
<tr>
<td>Diagnosis</td>
<td>Radiotherapy</td>
</tr>
<tr>
<td>Diagnostic use</td>
<td>Rehabilitation</td>
</tr>
<tr>
<td>Diet therapy</td>
<td>Secondary</td>
</tr>
<tr>
<td>Drug effects</td>
<td>Secretion</td>
</tr>
<tr>
<td>Drug therapy</td>
<td>Standards</td>
</tr>
<tr>
<td>Economics</td>
<td>Statistics &amp; numerical data</td>
</tr>
<tr>
<td>Education</td>
<td>Supply &amp; distribution</td>
</tr>
<tr>
<td>Embryology</td>
<td>Surgery</td>
</tr>
<tr>
<td>Enzymology</td>
<td>Therapeutic use</td>
</tr>
<tr>
<td>Epidemiology</td>
<td>Therapy</td>
</tr>
<tr>
<td>Ethnology</td>
<td>Toxicity</td>
</tr>
<tr>
<td>Etiology</td>
<td>Transmission</td>
</tr>
<tr>
<td>Genetics</td>
<td>Transplantation</td>
</tr>
<tr>
<td>Growth &amp; development</td>
<td>Trends</td>
</tr>
<tr>
<td>History</td>
<td>Ultrasonography</td>
</tr>
<tr>
<td>Immunology</td>
<td>Ultrastructure</td>
</tr>
<tr>
<td>Injuries</td>
<td>Urine</td>
</tr>
<tr>
<td>Innervation</td>
<td>Utilization</td>
</tr>
<tr>
<td>Instrumentation</td>
<td>Veterinary</td>
</tr>
<tr>
<td>Isolation &amp; purification</td>
<td>Virology</td>
</tr>
</tbody>
</table>
### 11.4. Summary of short-cut commands

<table>
<thead>
<tr>
<th>Command Type</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlimited truncation</td>
<td>coronar$</td>
<td>Any number of characters replaced by $</td>
</tr>
<tr>
<td>Limited truncation</td>
<td>dog$1</td>
<td>Greatest number of characters to be replaced specified</td>
</tr>
<tr>
<td>Wild cards mandated</td>
<td>wom#n</td>
<td>Substitutes for one character within or at end of a word</td>
</tr>
<tr>
<td>Wild card optional</td>
<td>colo?r</td>
<td>Substitutes for one or no characters</td>
</tr>
<tr>
<td>Adjacency</td>
<td>cancer$ adj3 colon</td>
<td>Words need to be adjacent within specified number; and if a limit specified - in either order</td>
</tr>
<tr>
<td></td>
<td>(kidney or renal) adj</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(calcul$ or stone?)</td>
<td></td>
</tr>
<tr>
<td>Search a specific field</td>
<td>smart t$.au.</td>
<td>See Section 11.1 for full list of codes</td>
</tr>
<tr>
<td>Find specific index entry for a term</td>
<td>root population.ti.</td>
<td>Shows number of entries for the term</td>
</tr>
<tr>
<td>Find fields in which there is an index entry</td>
<td>root population</td>
<td>Shows fields where the term is indexed, and number of entries</td>
</tr>
<tr>
<td>Search a known MeSH term bypassing mapping</td>
<td>root coronary</td>
<td>Alternatively uncheck Map Term to Subject Heading</td>
</tr>
<tr>
<td></td>
<td>coronary disease/</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explode known MeSH term</td>
<td>exp coronary disease/</td>
<td>Forward slash optional</td>
</tr>
<tr>
<td>Focus known MeSH term</td>
<td>* wine/</td>
<td>Space or forward slash optional</td>
</tr>
<tr>
<td>Known MeSH terms with known subheadings</td>
<td>coronary disease/pc,et</td>
<td>See Section 11.3 for the full list of codes</td>
</tr>
<tr>
<td>Available subheadings for a MeSH term</td>
<td>sh coronary disease</td>
<td>Omit forward slash</td>
</tr>
<tr>
<td>Permutated index for a MeSH term</td>
<td>ptx coronary</td>
<td>Checks all words used in MeSH headings</td>
</tr>
<tr>
<td>Tree for a MeSH term</td>
<td>tree coronary</td>
<td>Hierarchical structure of MeSH</td>
</tr>
<tr>
<td>Scope for a MeSH term</td>
<td>scope coronary disease</td>
<td>Scope, and synonyms applied</td>
</tr>
<tr>
<td>Postqualification</td>
<td>1/1</td>
<td>Can be used to add and remove subheadings or add alternate fields, explode or focus</td>
</tr>
<tr>
<td></td>
<td>*1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>exp 1/pc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>exp *1/pc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>exp 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/pc,et</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.ti.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 and 2</td>
<td></td>
</tr>
<tr>
<td>Combine groups of sets</td>
<td>and/1-6</td>
<td></td>
</tr>
<tr>
<td>Delete sets</td>
<td>..pg 3,5</td>
<td>Sets associated with it will also be deleted</td>
</tr>
<tr>
<td></td>
<td>..pg 3-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>..pg all</td>
<td></td>
</tr>
<tr>
<td>Change files</td>
<td>..c medl</td>
<td>Full list of filenames in Ovid Field Guide</td>
</tr>
<tr>
<td></td>
<td>use medl</td>
<td></td>
</tr>
<tr>
<td>Limits</td>
<td>..l/1 lg=en</td>
<td>limit 1 to english</td>
</tr>
<tr>
<td></td>
<td>limit 1 to review</td>
<td>No command syntax equiv.</td>
</tr>
<tr>
<td></td>
<td>..l/3 yr=1996</td>
<td>limit 3 to yr=1996</td>
</tr>
<tr>
<td></td>
<td>..l/4 hu=y</td>
<td>limit 4 to human</td>
</tr>
<tr>
<td>Save search strategy</td>
<td>..sv ps (TherapySensitive)</td>
<td>Save a search permanently</td>
</tr>
<tr>
<td>Execute saved search</td>
<td>..e TherapySpecific</td>
<td>Run a saved search</td>
</tr>
<tr>
<td>Display current search strategy</td>
<td>..ps</td>
<td>Displays search without associated results for printing</td>
</tr>
<tr>
<td>Logoff</td>
<td>..o</td>
<td></td>
</tr>
</tbody>
</table>

Where 1, 3 etc are search set numbers
11.5. Details of the methodological filters available on Medline

The filters currently used as the limits for ‘Clinical Queries’ in OvidSP, and the PubMed clinical queries are from the Health Information Research Unit (HIRU)

They cover therapy, diagnosis, prognosis, reviews, clinical prediction guides, qualitative studies, causation (etiology), costs, and economics.

These should be considered as the most recent and authoritative versions.

http://hiru.mcmaster.ca/hedges/

11.5.1. Causation (aetiology/etiology) - sensitive

1  risk$.mp.
2  exp cohort studies/
3  between group$.tw.
4  or/1-3

11.5.2. Causation (aetiology/etiology) - specific

1  relative risk$.tw.
2  risks.tw.
3  cohort stud$.mp.
4  or/1-3

11.5.3. Causation (aetiology/etiology) – optimised

1  risk.mp.
2  mortality.mp.
3  cohort.tw.
4  or/1-3

11.5.4. Diagnosis - sensitive

1  sensitiv$.mp.
2  diagnos$.mp.
3  di.fs.
4  or/1-3

11.5.5. Diagnosis – specific

1  specificity.tw.

(single term is best performer)

11.5.6. Diagnosis – optimised

1  sensitiv$.mp.
2  predictive value$.mp.
3  accurac$.tw.
4  or/1-3

11.5.7. Prognosis - sensitive

1  incidence/
2  exp mortality/
3  follow-up studies/
4  prognos$.tw.
5  predict$.tw.
6  course$.tw.
7  or/1-6
11.5.8. Prognosis - specific
1    prognosis$.tw.
2    first episode.tw.
3    cohort.tw.
4    or/1-3

11.5.9. Prognosis – optimised
1    prognosis/
2    diagnosed.tw.
3    cohort$.mp.
4    predictor$.tw.
5    death.tw.
6    exp models, statistical/
7    or/1-6

11.5.10. Therapy - sensitive
1    clinical trial.mp.
2    clinical trial.pt.
3    random$.mp.
4    tu.xs
5    or/1-4

11.5.11. Therapy - specific
1    randomized controlled trial.pt.
2    randomized controlled trial.mp.
3    or/1-2

11.5.12. Therapy – optimised
1    randomized controlled trial.pt.
2    randomized.mp.
3    placebo.mp.
4    or/1-3

11.5.13. Randomised controlled trials (RCTs)
This is the Ovid MEDLINE version of the Cochrane Highly Sensitive Search Strategy (CHSSS)

1    randomized controlled trial.pt.
2    controlled clinical trial.pt.
3    randomized controlled trials/
4    random allocation/
5    double blind method/
6    single blind method/
7    or/1-6
8    animal/ not human/
9    7 not 8
10   clinical trial.pt.
11   exp clinical trials/
12   (clin$ adj25 trial$).ti,ab.
13   ((singl$ or doubl$ or trebl$ or tripl$) adj25 (blind$ or mask$)).ti,ab.
14   placebo/
15   placebo$.ti,ab.
16   random$.ti,ab.
17   research design/
18 or/10-17
19 18 not 8
20 19 not 9
21 comparative study/
22 exp evaluation studies/
23 follow up studies/
24 prospective studies/
25 (control$ or prospectiv$ or volunteer$).ti,ab.
26 or/21-25
27 26 not 8
28 26 not (9 or 20)
29 9 or 20 or 28

11.5.14. Systematic reviews – sensitive
The systematic reviews filters below are again from the Health Information Research Unit (HIRU).

1 search$.tw.
2 meta analysis.mp,pt.
3 review.pt.
4 di.xs.
5 associated.tw.
6 or/1-5

11.5.15. Systematic reviews – specificity > sensitivity

1 MEDLINE.tw.
2 systematic review.tw.
3 meta analysis.pt.
4 or/1-3

11.5.16. Systematic reviews – sensitivity > specificity

1 cochrane database of systematic reviews.jn.
2 search.tw.
3 meta analysis.pt.
4 MEDLINE.tw.
5 systematic review.tw.
6 or/1-5

11.5.17. Systematic reviews - optimised

1 meta analysis.mp,pt.
2 review.pt.
3 search$.tw.
4 or/1-3