



Advanced PubMed Searching Resource Packet

Additional links to resources:

PubMed Trifolds:

PubMed Basics

http://library.mskcc.org/portal/content/training/st/PubMed_Oct06.pdf

PubMed My NCBI

http://library.mskcc.org/portal/content/training/st/MyNCBI_Oct06.pdf

Searching PubMed with MeSH

http://library.mskcc.org/portal/content/training/st/MeSH_Oct06.pdf

PubMed Tutorial

<http://www.nlm.nih.gov/bsd/disted/pubmed.html>

Non-English Guides to PubMed® Resources

<http://nlm.gov/gmr/training/databases/intlresources.html>

(this) **Advanced PubMed Searching Resource Packet**

http://library.mskcc.org/portal/content/training/st/PMpacket_Jan07.pdf

MeSH® Subheadings and Related Abbreviations

AB	Abnormalities	LJ	Legislation and Jurisprudence
AD	Administration and Dosage	MA	Manpower
AE	Adverse Effects	ME	Metabolism
AG	Agonists	MT	Methods
AA	Analogues and Derivatives	MI	Microbiology
AN	Analysis	MO	Mortality
AH	Anatomy and Histology	NU	Nursing
AI	Antagonists and Inhibitors	OG	Organization and Administration
BI	Biosynthesis	PS	Parasitology
BS	Blood Supply	PY	Pathogenicity
BL	Blood	PA	Pathology
CF	Cerebrospinal Fluid	PK	Pharmacokinetics
CS	Chemical Synthesis	PD	Pharmacology
CI	Chemically Induced	PH	Physiology
CH	Chemistry	PP	Physiopathology
CL	Classification	PO	Poisoning
CO	Complications	PC	Prevention and Control
CN	Congenital	PX	Psychology
CT	Contraindications	RE	Radiation Effects
CY	Cytology	RA	Radiography
DF	Deficiency	RI	Radionuclide Imaging
DI	Diagnosis	RT	Radiotherapy
DU	Diagnostic Use	RH	Rehabilitation
DH	Diet Therapy	SC	Secondary
DE	Drug Effects	SE	Secretion
DT	Drug Therapy	ST	Standards
EC	Economics	SN	Statistics and Numerical Data
ED	Education	SD	Supply and Distribution
EM	Embryology	SU	Surgery
EN	Enzymology	TU	Therapeutic Use
EP	Epidemiology	TH	Therapy
ES	Ethics	TO	Toxicity
EH	Ethnology	TM	Transmission
ET	Etiology	TR	Transplantation
GE	Genetics	TD	Trends
GD	Growth and Development	US	Ultrasonography
HI	History	UL	Ultrastructure
IM	Immunology	UR	Urine
IN	Injuries	UT	Utilization
IR	Innervation	VE	Veterinary
IS	Instrumentation	VI	Virology
IP	Isolation and Purification		

Available by searching the PubMed Help manual for MeSH Subheadings; Appendices or go directly to:

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T41>

PubMed® Qualifier Hierarchies / Families of Subheading Explosions

(Searching on these subheadings searches the narrower subheadings as well.
Not all subheadings are available for all MeSH® terms.)

adverse effects

- poisoning
- toxicity

analysis

- blood
- cerebrospinal fluid
- isolation & purification
- urine

anatomy & histology

- blood supply
- cytology
 - pathology
 - ultrastructure
- embryology
 - abnormalities
- innervation

chemistry

- agonists
- analogs & derivatives
- antagonists & inhibitors
- chemical synthesis

complications

- secondary

cytology

- pathology
- ultrastructure

diagnosis

- pathology
- radiography
- radionuclide imaging
- ultrasonography

embryology

- abnormalities

epidemiology

- ethnology
- mortality

etiology

- chemically induced
- complications
 - secondary
- congenital
- embryology
- genetics
- immunology
- microbiology
 - virology
- parasitology
- transmission

metabolism

- biosynthesis
- blood
- cerebrospinal fluid
- deficiency
- enzymology
- pharmacokinetics
- urine

microbiology

- virology

organization & administration

- economics
- legislation & jurisprudence
- manpower
- standards
- supply & distribution
- trends
- utilization

pharmacology

- administration & dosage
- adverse effects
 - poisoning
 - toxicity
- agonists
- antagonists & inhibitors
- contraindications
- diagnostic use
- pharmacokinetics

physiology

- genetics
- growth & development
- immunology
- metabolism
 - biosynthesis
- blood
- cerebrospinal fluid
- deficiency
- enzymology
- pharmacokinetics
- urine
- physiopathology
- secretion

statistics & numerical data

- epidemiology
- ethnology
- mortality
- supply & distribution
- utilization

surgery

- transplantation

therapeutic use

- administration & dosage
- adverse effects
- contraindications
- poisoning

therapy

- diet therapy
- drug therapy
- nursing
- prevention & control
- radiotherapy
- rehabilitation
- surgery
 - transplantation

Additional subheadings: classification, drug effects, education, ethics, history, injuries, instrumentation, methods, pathogenicity, psychology, radiation effects, veterinary

Available at: <http://www.nlm.nih.gov/mesh/subhierarchy2006.html> with links to definitions.

PubMed® Subset Codes

Citation Status Subsets

publisher [sb]	PubMed - as supplied by publisher
in process [sb]	PubMed - in process
medline [sb]	PubMed - indexed for MEDLINE
pubmednotmedline [sb]	PubMed - processed, but not indexed for MEDLINE
oldmedline [sb]	PubMed - OLDMEDLINE
pubstatusnihms	PubMed - author manuscript in PMC

Table 3. PubMed Citation Status Subsets

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T39>

Topic Subsets

aids [sb]	AIDS
bioethics [sb]	Bioethics
cancer [sb]	Cancer
cam [sb]	Complementary and Alternative Medicine
history [sb]	History of Medicine
space [sb]	Space Life Sciences
systematic [sb]	Systematic Reviews
tox [sb]	Toxicology

Searching PubMed – Subsets – Topics

Journal Subsets

For the following, use *jsubsetname* without the [sb]

AIM	Abridged Index Medicus is a list created 20 years ago of 120 core clinical English language journals that corresponds to "Core clinical journals" subset in Limits.
D	Dentistry journals
E	Citations from bioethics journals or selected bioethics citations from other journals
H	Health administration journals, non-Index Medicus
IM	Index Medicus journals
K	Consumer health journals, non-Index Medicus
N	Nursing journals
Q	History of medicine journals and selected citations from other journals
S	Citations from space life sciences journals and selected space life sciences citations from other journals
T	Health technology assessment journals, non-Index Medicus
X	AIDS/HIV journals (selected citations from other journals 1980-2000)

Table 2. Journal/Citation Subsets

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T38>

Other Selected Subsets

pubstatusaheadofprint	Articles that appear on the Web in advance of the journal issue's release
all [sb]	All citations in PubMed
loall [sb]	All LinkOut links

PubMed® Publication Types

Addresses	Historical Article (for articles about past events)
Lectures	Biography
Bibliography	Interview
Biography	Classical Article
Case Reports	Festschrift
Classical Article (for republished seminal articles)	Interview
Clinical Conference (for reports of clinical case conferences only)	Journal Article (excludes letter, editorial, news, etc.)
Clinical Trial (includes all types and phases of clinical trials)	Lectures
Clinical Trial, phase I	Legal Cases
Clinical Trial, phase II	Legislation
Clinical Trial, phase III	Letter
Clinical Trial, phase IV	Meta-Analysis (quantitative summary combining results of independent studies)
Controlled Clinical Trial	Multicenter Study
Multicenter Study	News (for medical or scientific news)
Randomized Controlled Trial	Newspaper Article
Comment (for comment on previously published article)	Overall (collection of articles)
Congresses	Patient Education Handout
Overall (collection of articles)	Periodical Index (for cumulated indexes to journals)
Consensus Development Conference	Practice Guideline (for specific health care guidelines)
Consensus Development Conference, NIH	Published Erratum
Controlled Clinical Trial	Randomized Controlled Trial
Corrected and Republished Article	Retraction of Publication (author's statement of retraction)
Dictionary	Retracted Publication (article later retracted by author)
Directory	Review (includes all types)
Duplicate Publication	Review, Multicase (contains epidemiological applications)
Editorial	Review of Reported Cases
Evaluation Studies	Review, Tutorial
Festschrift	Consensus Development Conference
Government Publications	Consensus Development Conference, NIH
Guideline (for administrative, procedural guidelines in general)	Scientific Integrity Review (US Office of Scientific Integrity reports)
Practice Guideline (for specific health care guidelines)	Technical Report
	Twin Study
	Validation Study

Available by searching the PubMed Help manual for Publication Types table; Appendices; or go directly to:
<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T42>

For definitions of terms, visit
<http://www.nlm.nih.gov/mesh/pubtypes2006.html>

Search Field Descriptions and Tags

MEDLINE®/PubMed® Data Element (Field) Descriptions
(Including MeSH® descriptors)

[1AU]	First Author Name	The first personal author name in a citation. English language abstract taken directly from published article
[AB]	Abstract	
[AD]	Affiliation	Institutional affiliation and address of the first author
[AID]	Article Identifier	Article ID values supplied by the publisher
[ALL]	All Fields	Includes all searchable PubMed fields
[AU]	Author	Authors
[CI]	Copyright Information	Copyright statement provided by the publisher
[CIN]	Comment In	Reference containing a comment about the article Corporate author/group names with authorship responsibility
[CN]	Corporate Author	
[CON]	Comment On	Reference upon which the article comments
[CRF]	Corrected and republished from	Final, correct version of an article
[CRI]	Corrected and republished in	Original article that was republished in corrected form
[DA]	Date Created	Used for internal processing at NLM
[DCOM]	Date Completed	Used for internal processing at NLM
[DEP]	Date of Electronic Publication	Electronic publication date
[DP]	Publication Date	The date the article was published
[EDAT]	Entrez Date	The date the citation was added to PubMed
[EFR]	Erratum For	Cites the original article needing the correction
[EIN]	Erratum In	Reference containing a published erratum to the article
[EPUB]	Electronic Publication Date	See DEP
[FAU]	Full Author Name	Full Author Names
[FILTER]	Filter	Technical tags used by LinkOut (see also subsets)
[FIR]	Full Investigator	Full investigator name
[FPS]	Full Personal Name as Subject	Full Personal Name of the subject of the article Supplemental/descriptive information related to the document
[GN]	General Note	
[GR]	Grant Number	Research grant numbers and/or contract numbers
[GS]	Gene Symbol	Abbreviated gene names (used 1991 through 1996)
[IP]	Issue	Number of the issue, part, or supplement of journal
[IR]	Investigator	NASA-funded principal investigator
[IRAD]	Investigator Affiliation	Affiliation of NASA-funded principal investigator
[IS]	ISSN	International Standard Serial Number of the journal
[JID]	NLM Unique ID	Unique journal ID in NLM's catalog
[JT]	Full Journal Title	Full journal title from NLM's cataloging data
[LA]	Language	The language in which the article was published
[LASTAU]	Last Author Name	The last personal author name in a citation.
[LR]	Last Revision Date	The date a change was made to the record
[MAJR]	MeSH Major Topic	One of the main topics discussed in the article
[MH]	MeSH Terms	NLM's MeSH controlled vocabulary
[MHDA]	MeSH Date	The date MeSH terms were added to the citation.
[NM]	Substance Name	Name of a chemical discussed in the article
[OAB]	Other Abstract	Abstract supplied by an NLM collaborating organization
[OCI]	Other Copyright Information	Copyright owner
[OID]	Other ID	Identification numbers provided by publishers

[ORI]	Original Report In	Cites the original article associated with the patient summary
[OT]	Other Term	Non-MeSH subject terms (keywords)
[OTO]	Other Term Owner	Organization that provided the Other Term data
[OWN]	Owner	Organization acronym that supplied citation data
[PA]	Pharmacologic Action MeSH Term	Substances known to have a particular pharmacologic action
[PG]	Pagination	The full pagination of the article
[PHST]	Publication History Status Date	Publisher supplied dates r
[PL]	Place of Publication	Journal's country of publication
[PMID]	PubMed Unique Identifier	Unique number assigned to each PubMed citation
[PS]	Personal Name as Subject	Individual is the subject of the article
[PST]	Publication Status	Publication status
[PT]	Publication Type	The type of material the article represents
[PUBM]	Publishing Model	Article's model of print or electronic publishing
[RF]	Number of References	Number of bibliographic references for Review articles
[RIN]	Retraction In	Retraction of the article
[RN]	EC/RN Number	Enzyme Commission or CAS Registry Number
[ROF]	Retraction Of	Article being retracted
[RPF]	Republished From	Cited article republished or reprinted from another source
[RPI]	Republished In	Cited article also appears in another source
[SB]	Subset	Specified subset values
[SFM]	Space Flight Mission	NASA-supplied data space flight/mission name and/or number
[SH]	MeSH Subheading	To describe more completely a particular aspect of a subject
[SI]	Secondary Source Identifier	Secondary source databanks and accession numbers
[SO]	Source	Composite field containing bibliographic information
[SPIN]	Summary For Patients In	Cites a patient summary article
[STAT]	Status Tag	Used for internal processing at NLM
[TA]	Journal Title Abbreviation	Standard journal title abbreviation
[TI]	Title	The title of the article
[TIAB]	Title/Abstract	Words and numbers included in the title abstract of a citation
[TT]	Transliterated Title	Title of the article in the published non-English language
[TW]	Text Word	Identified as text by PubMed
[UIN]	Update In	Update to the article
[UOF]	Update Of	The article being updated
[VI]	Volume	Volume number of the journal

For additional information, search the PubMed Help manual for Field Tags

This information combines: Appendices: Search Field Descriptions and Tags

http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.section.pubmedhelp.Search_Field_Descrip

and Appendices: MEDLINE Display

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T44>

PubMed®
Stop Words (ignored by PubMed)

a	did	it	perhaps	these
about	do	its	quite	they
again	does	itself	rather	this
all	done	just	really	those
almost	due	kg	regarding	through
also	during	km	seem	thus
although	each	made	seen	to
always	either	mainly	several	upon
among	enough	make	should	use
an	especially	may	show	used
and	etc	mg	showed	using
another	for	might	shown	various
any	found	ml	shows	very
are	from	mm	significantly	was
as	further	most	since	we
at	had	mostly	so	were
be	has	must	some	what
because	have	nearly	such	when
been	having	neither	than	which
before	here	no	that	while
being	how	nor	the	with
between	however	obtained	their	within
both	i	of	theirs	without
but	if	often	them	would
by	in	on	then	
can	into	our	there	
could	is	overall	therefore	

Available by searching the PubMed Help manual for Stop Words; in the Appendices;
or go directly to:

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helppubmed.table.pubmedhelp.T43>