

Appendix 2 (as supplied by the authors): Supplemental Search for long-acting insulin analogues

OVERVIEW

Interface:	OVID
Databases:	BIOSIS Previews <1989 - >; EMBASE <1996 - >; OVID MEDLINE® In-Process & Other Non-Indexed Citations; OVID MEDLINE® <1966- > * Note: Subject headings have been customized for each database.
Date of Search:	December 18, 2006
Alerts:	Monthly search updates began January 2007 and ran to April 2007.
Study Types:	Randomized controlled trials
Limits:	Publication years 1990 onward Humans

SYNTAX GUIDE

/	At the end of a phrase, searches the phrase as a subject heading
.sh	At the end of a phrase, searches the phrase as a subject heading
MeSH	Medical Subject Heading
fs	Floating subheading
exp	Explode a subject heading
\$	Truncation symbol, or wildcard: retrieves plural or variations of a word
*	Indicates that the marked subject heading is a primary topic
?	Truncation symbol for one or no characters only
ADJ	Requires words are adjacent to each other (in any order)
ADJ#	Adjacency within # number of words (in any order)
.ti	Title
.ab	Abstract
.hw	Heading Word; usually includes subject headings and controlled vocabulary
.pt	Publication type
.rn	CAS registry number
.af	All fields

**MULTIFILE SEARCH STRATEGIES:
Medline, Medline Daily Update, Medline In-Process, EMBASE, BIOSIS Previews**

Search Syntax:

1. Long-acting insulin AND Short-acting insulin AND RCT Filter
2. Glargine AND Detemir AND RCT Filter

Supplemental Search 1: LA and RA:

Long-Acting Insulin

1. Insulin Long-Acting/aa
2. (long acting insulin\$ or long acting analog\$ or slow\$ acting insulin\$ or slow\$ acting analog\$).ti,ab,hw.
3. (glargine or Lantus or Optisulin or hoe 901 or 160337-95-1).ti,ab,rn,tn,hw.
4. (detemir or determir or Levemir or nn 304 or 169148-63-4).ti,ab,rn,tn,hw.
5. or/1-4

Rapid-Acting Insulin

6. (short acting insulin\$ or quick acting insulin\$ or rapid acting insulin\$ or rapidly acting insulin\$ or fast acting insulin\$ or quick acting analog\$ or rapid acting analog\$ or rapidly acting analog\$ or short acting analog\$ or fast acting analog\$).ti,ab,hw.
7. (Lispro or Lyspro or Humalog or Liprolog or "Lys(B28),pro(B29)or 133107-64-9").ti,ab,rn,tn,hw.
8. (Insulin Aspart or "Asp(B28)" or 116094-23-6 or NovoLog or NovoRapid or NovoMix).ti,ab,rn,tn,hw.
9. (Glulisine or 207748-29-6 or Apidra).ti,ab,rn,tn,hw.
10. or/6-9

Supplemental Search 2: Glargine versus Detemir

- (glargine or Lantus or Optisulin or hoe 901 or 160337-95-1).ti,ab,rn,tn,hw
(detemir or determir or Levemir or nn 304 or 169148-63-4).ti,ab,rn,tn,hw

RCT Filters:

MedLine

16. Randomized Controlled Trial.pt.
17. Randomized Controlled Trials/
18. (random\$ or sham\$ or placebo\$ or (singl\$ adj (blind\$ or dumm\$ or mask\$)) or (doubl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab.
19. ((tripl\$ adj (blind\$ or dumm\$ or mask\$)) or (trebl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab.
20. (randomi?ed control\$ trial? or rct?).ti,ab.
21. or/16-20

EMBASE

22. Randomized Controlled Trial/
23. (random\$ or sham\$ or placebo\$ or (singl\$ adj (blind\$ or dumm\$ or mask\$)) or (doubl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab.

24. ((tripl\$ adj (blind\$ or dumm\$ or mask\$)) or (trebl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab.
25. (randomi?ed control\$ trial? or rct?).ti,ab.
26. or/22-25

BIOSIS Previews

27. randomi?ed control\$ trial?.ti,ab,hw.
28. (random\$ or sham\$ or placebo\$ or (singl\$ adj (blind\$ or dumm\$ or mask\$)) or (doubl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab,hw.
29. ((tripl\$ adj (blind\$ or dumm\$ or mask\$)) or (trebl\$ adj (blind\$ or dumm\$ or mask\$))).ti,ab,hw.
30. or/27-29

OTHER DATABASES

Cochrane Library
Issues 3, 2007

ECRI www.ecri.org

Same MeSH, keywords, and date limits used as per Medline search, excluding study types and Human restrictions. Syntax adjusted for Cochrane Library databases.