**Search strategy**

**PubMed:**

("detemir"[Title/Abstract] OR "Levemir"[Title/Abstract]) AND ("glargine"[Title/Abstract] OR "Basaglar"[Title/Abstract] OR "Lantus"[Title/Abstract] OR "Toujeo"[Title/Abstract]) AND (("random allocation"[MeSH Terms] OR ("random"[All Fields] AND "allocation"[All Fields]) OR "random allocation"[All Fields] OR "random"[All Fields] OR "randomization"[All Fields] OR "randomized"[All Fields] OR "randomisation"[All Fields] OR "randomisations"[All Fields] OR "randomise"[All Fields] OR "randomised"[All Fields] OR "randomising"[All Fields] OR "randomizations"[All Fields] OR "randomize"[All Fields] OR "randomizes"[All Fields] OR "randomizing"[All Fields] OR "randomness"[All Fields] OR "randoms"[All Fields]) AND "clinical trial"[Publication Type])

**Embase:**

(((detemir:ab,ti OR levemir:ab,ti) AND glargin:ab,ti OR basaglar:ab,ti OR lantus:ab,ti OR toujeo:ab,ti) AND random allocation:ab,ti OR random:ab,ti OR allocation:ab,ti OR random allocation:ab,ti OR random:ab,ti OR randomization:ab,ti OR randomized:ab,ti OR randomisation:ab,ti OR randomisations:ab,ti OR randomise:ab,ti OR randomised:ab,ti OR randomising:ab,ti OR randomizations:ab,ti OR randomize:ab,ti OR randomizes:ab,ti OR randomizing:ab,ti OR randomness:ab,ti OR randoms:ab,ti OR clinical trial:ab,ti)

**SCOPUS**

TITLE-ABS-KEY ("detemir" OR "levemir") AND TITLE-ABS-KEY ("glargine" OR "Basaglar" OR "Lantus" OR "Toujeo") AND TITLE-ABS-KEY ("Randomized" OR “Randomised” OR "randomly" OR "RCT" OR “random”)

**Cochrane library:**

#1 ("detemir" OR "Levemir"): ti,ab,kw (Word variations have been searched)

#2 ("glargine" OR "Basaglar" OR "Lantus" OR "Toujeo"): ti,ab,kw (Word variations have been searched)

#3 ("randomly" OR "random” OR "randomization" OR "randomized" OR "randomisation" OR "randomizing OR “clinical trial"): ti,ab,kw (Word variations have been searched)

#4 #1 AND #2 AND #3