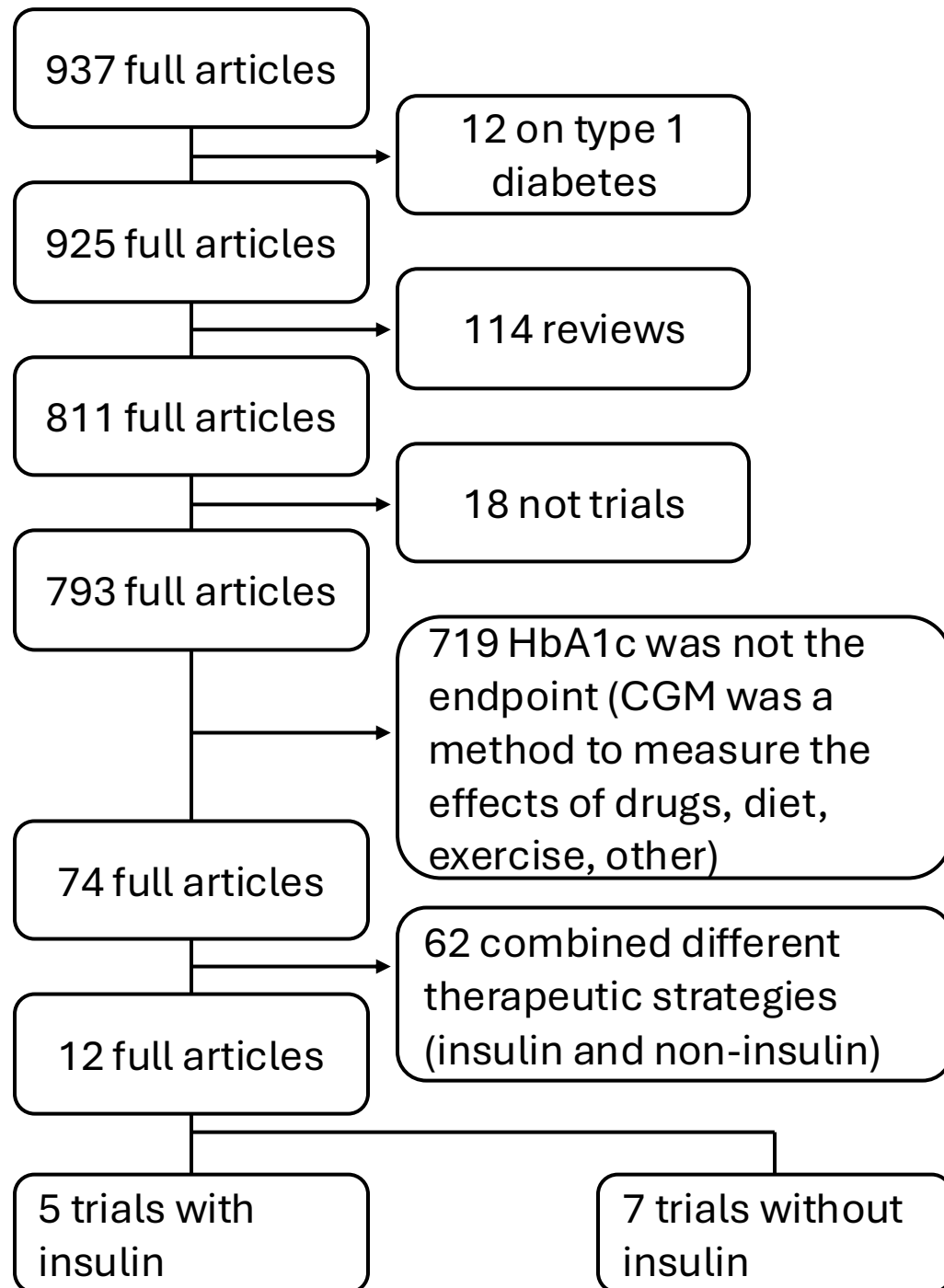
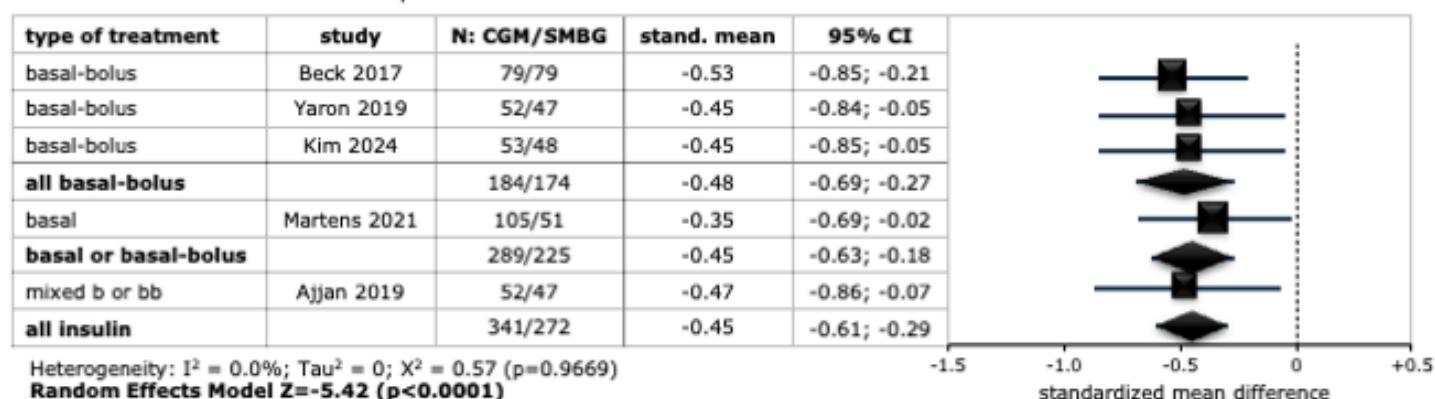


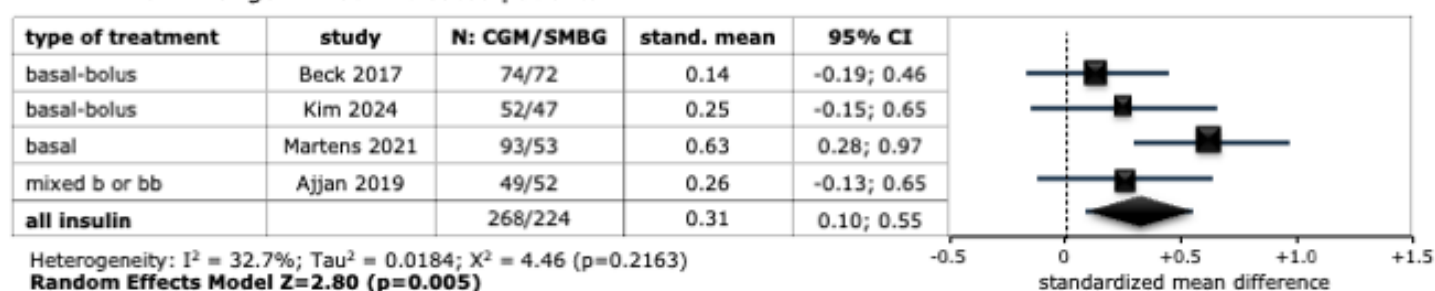
PRISMA flow diagram of combined research strategy



A HbA1c in insulin treated patients



B Time In Range in insulin treated patients



C Time Below Range in insulin treated patients

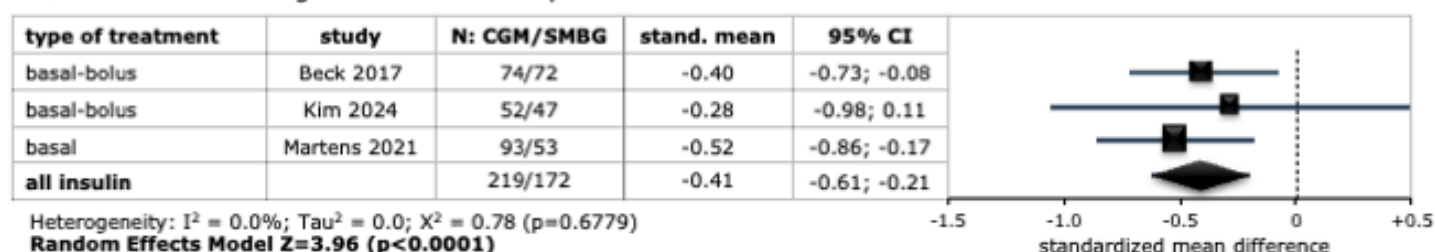
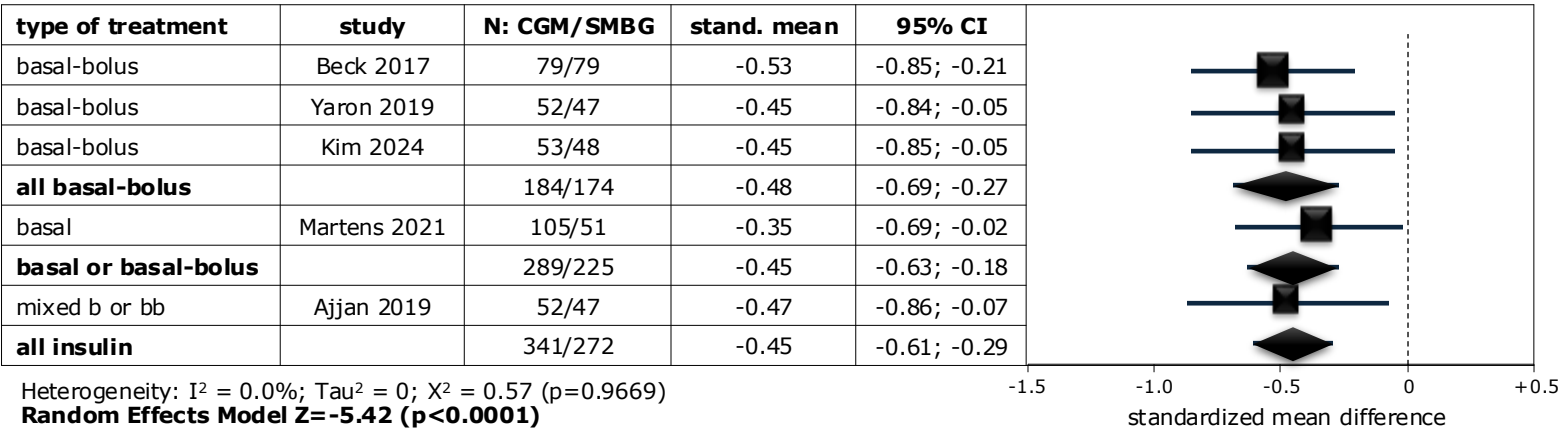


FIGURE S1.

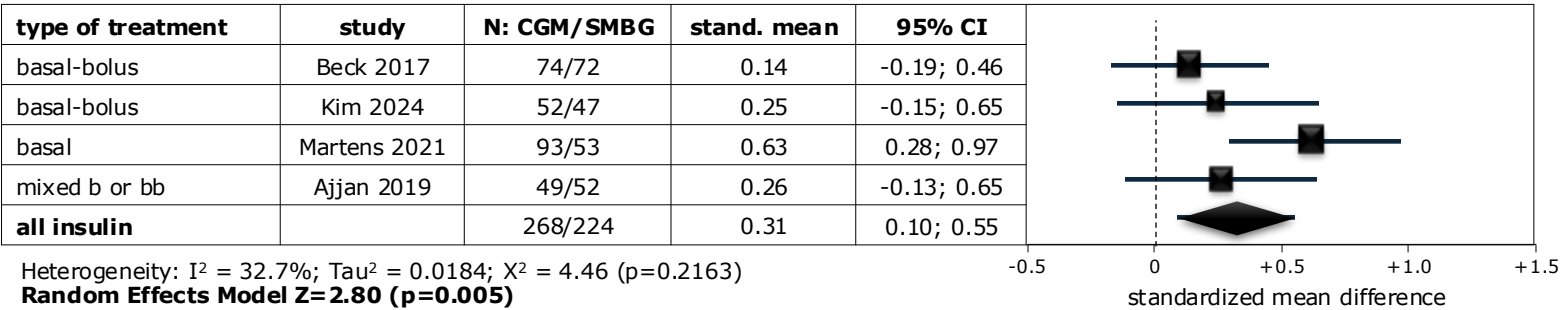
Results of meta-analyses of randomized trials comparing standardized mean differences of the effect of CGM versus SMBG in insulin treated patients. Panel A: HbA1c results. The trials were examined by combining only the studies on patients with diabetes treated with basal-bolus insulin, then a study with basal insulin alone was added, and finally a fifth study conducted on patients treated with both basal-bolus and basal insulin. Panel B: Effect of CGM versus SMBG on Time In Range. Panel C: Effect of CGM versus SMBG on Time Below Range.

Risk of bias and GRADE evaluations are in Figure S4; funnel plots are in figure S5.

A HbA1c in insulin treated patients



B Time In Range in insulin treated patients



C Time Below Range in insulin treated patients

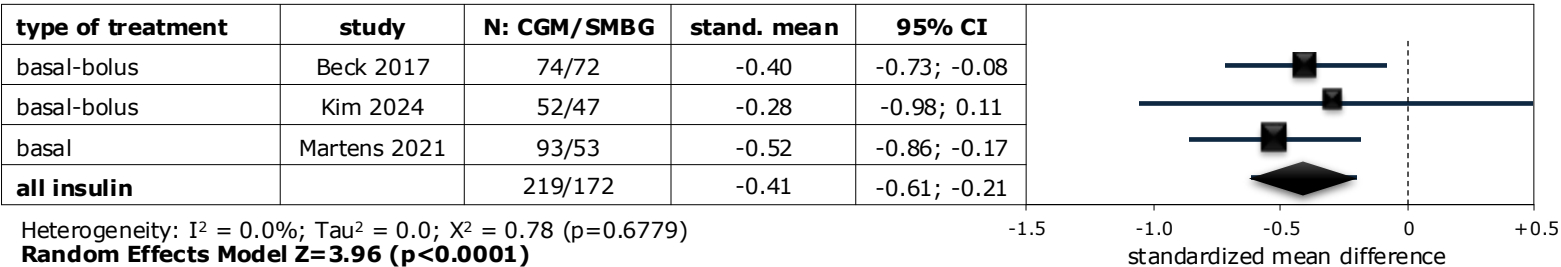
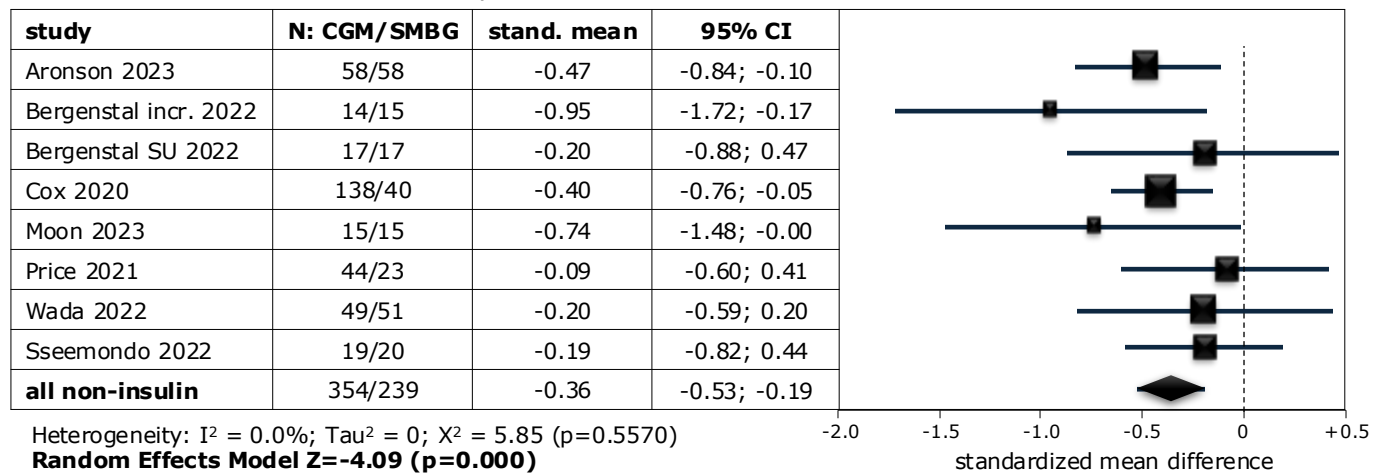
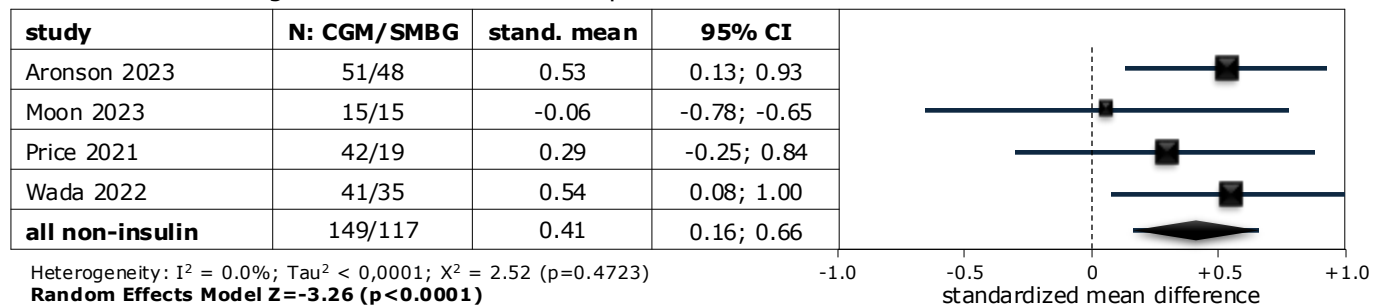


FIGURE S2. Results of meta-analyses of randomized trials comparing standardized mean differences of the effect of CGM versus SMBG in insulin treated patients. Panel A: HbA1c results. The trials were examined by combining only the studies on patients with diabetes treated with basal-bolus insulin, then a study with basal insulin alone was added, and finally a fifth study conducted on patients treated with both basal-bolus and basal insulin. Panel B: Effect of CGM versus SMBG on Time In Range. Panel C: Effect of CGM versus SMBG on Time Below Range. Risk of bias and GRADE evaluations are in Figure S4; funnel plots are in figure S5.

A HbA1c in non-insulin treated patients



B Time In Range in non-insulin treated patients



C Time Below Range in non-insulin treated patients

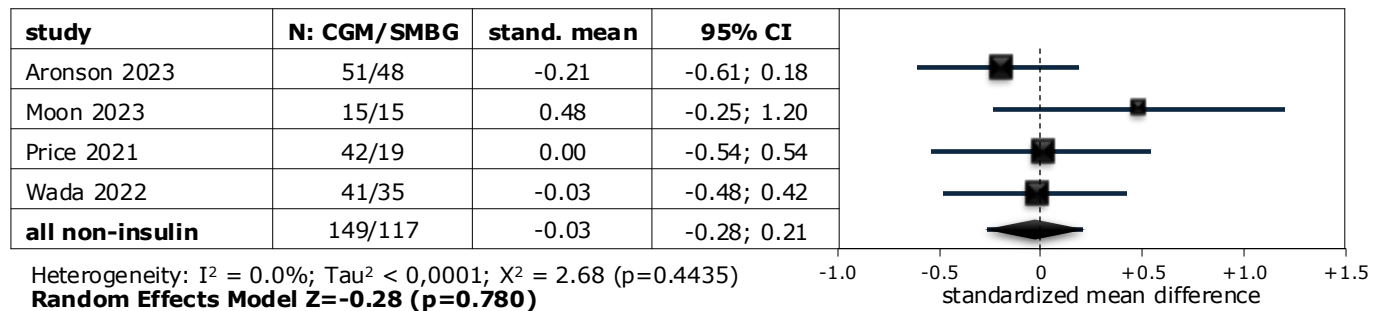


FIGURE S3.

Results of meta-analyses of randomized trials comparing standardized mean differences of the effect of CGM versus SMBG in patients not treated with insulin. Panel A: Effects of CGM versus SMBG on HbA1c. Panel B: Effect of CGM versus SMBG on Time In Range. Panel C: Effect of CGM versus SMBG on Time Below Range. Risk of bias and GRADE evaluations are in Figure S4; funnel plots are in figure S5.

A

Risk of bias

- A Random sequence generation (selection bias)
- B Allocation concealment (selection bias)
- C Blinding of participants and personnel (performance bias)
- D Blinding of outcome assessment (detection bias)
- E Incomplete outcome data (attrition bias)
- F Selective reporting (reporting bias)
- G Other bias

	A	B	C	D	E	F	G
INSULIN							
Beck	+	+	-	-	+	+	+
Ajjan	+	+	-	-	+	-	+
Martens	+	+	-	-	+	+	+
Yaron	+	+	-	-	+	+	-
Kim	+	+	-	-	+	-	+
NO INSULIN							
Moon	+	+	-	-	+	-	+
Aronson	+	+	-	-	+	+	+
Bergenstal	+	+	-	-	+	+	+
Wada	+	+	-	-	+	+	+
Price	+	+	-	-	+	+	+
Cox	+	+	-	-	+	+	-
Sseemondo	+	+	-	-	+	+	+

B

GRADE evaluation

Type of studies	Number of studies	Risk of bias	Inconsistency of results	Lack of generalizability	Imprecision	Other considerations	Grade	Standard. Mean Difference	95% CI	Quality	Importance
INSULIN HbA1c											
RCT	5	minimal	no	minimal	minimal	consistent results	+++ moderate	-0.45	-0.61; -0.29	moderate	moderate
INSULIN TIR											
RCT	4	minimal	no	minimal	Minimal	consistent results	+++ moderate	0.31	0.10; 0.55	moderate	moderate
INSULIN TBR											
RCT	3	minimal	no	minimal	minimal	consistent results	+++ moderate	-0.41	-0.61; -0.21	moderate	moderate
NO INSULIN HbA1c											
RCT	7	minimal	minimal	minimal	minimal	significant	+++ moderate	-0.36	-0.53; -0.19	moderate	moderate
NO INSULIN TIR											
RCT	4	minimal	minimal	minimal	minimal	significant	+++ moderate	0.41	0.16; 0.66	moderate	moderate
NO INSULIN TBR											
RCT	4	minimal	high	some	yes	not significant	+ very low	-0.03	-0.28; 0.21	moderate	moderate

FIGURE S4.
Panel A: Risk of bias. Panel B: Summary of the GRADE evaluation.

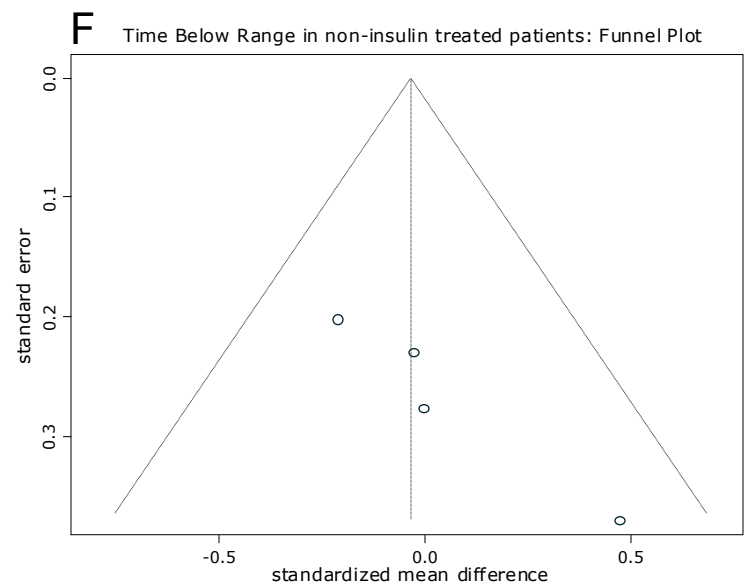
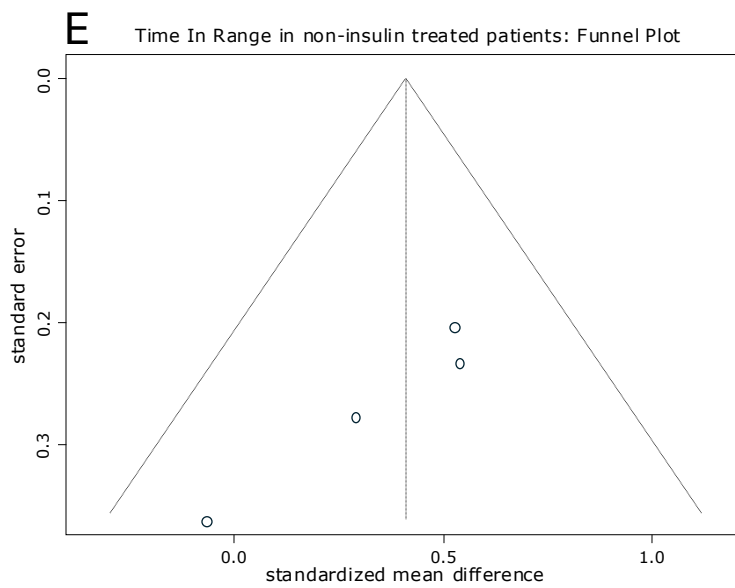
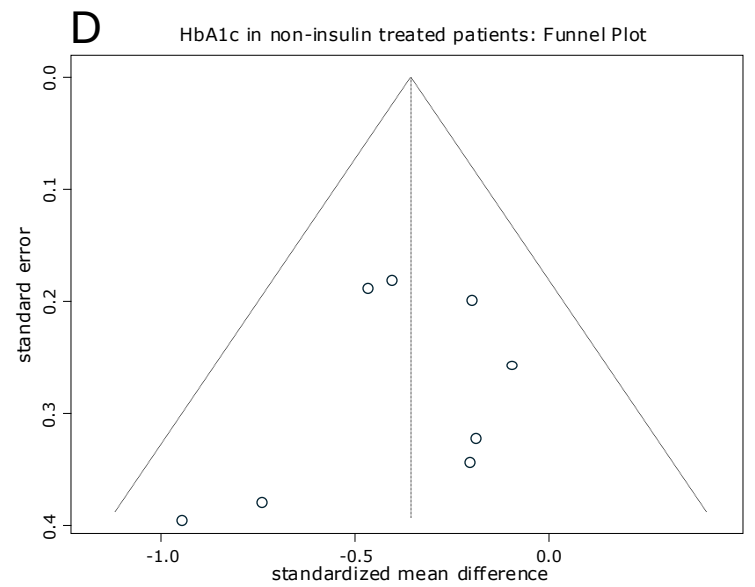
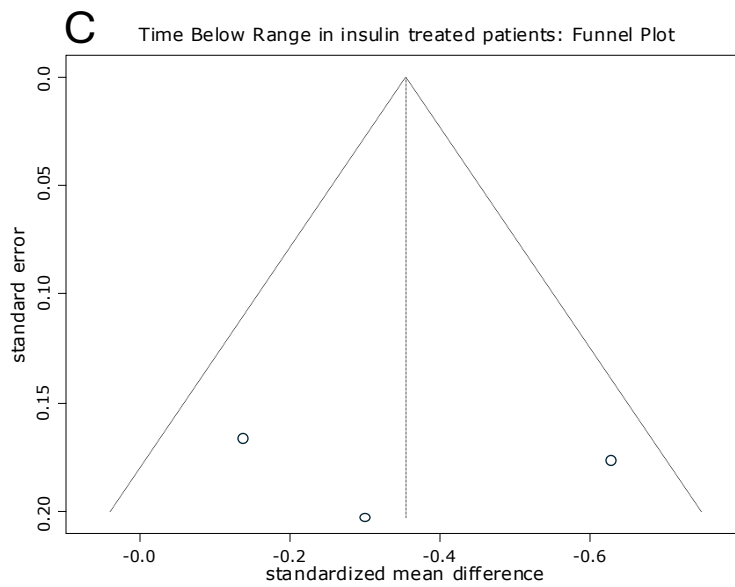
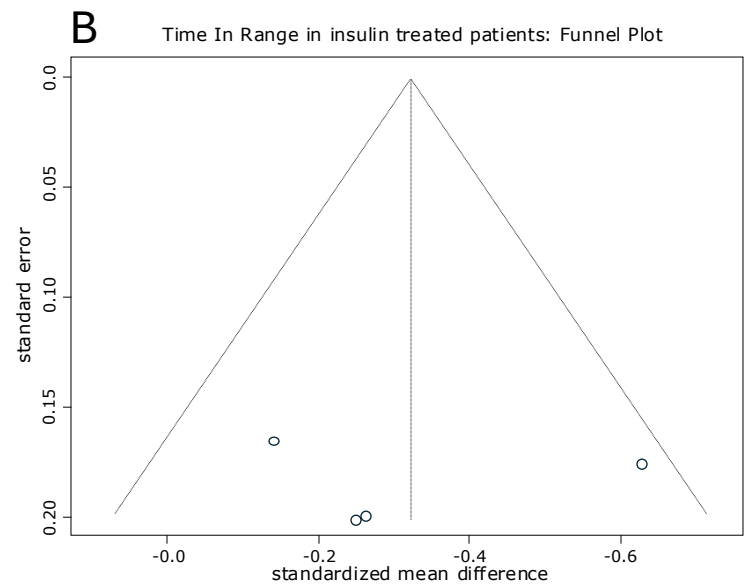
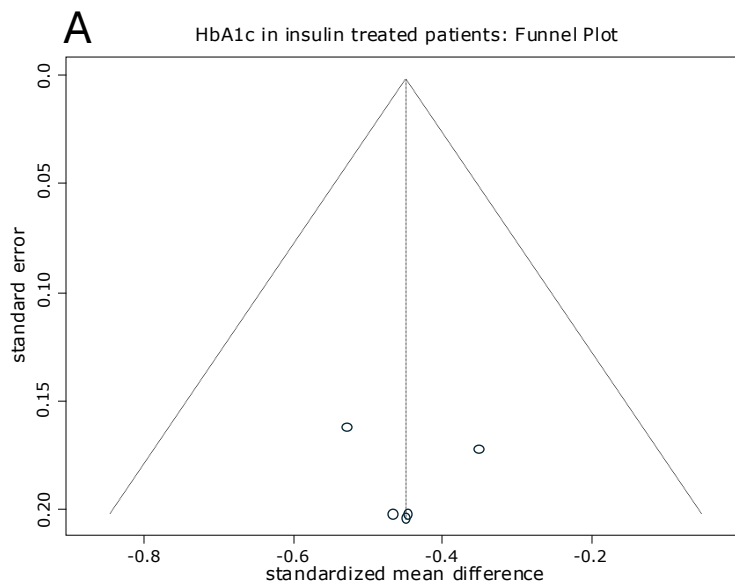


FIGURE S5. Funnel plots for studies in insulin treated patients (A: HbA1c; B: Time in Range; C: Time below range) and studies in non-insulin treated patients (D: HbA1c; E: Time in Range; F: Time below range)