

Supplementary Figure 1 Risk of bias summary. A: Review authors' judgments about each risk of bias item for each included randomized controlled trial using risk of bias 2; B: Review authors' judgments about each risk of bias item for each included non-randomized trial using ROBINS-I.

Supplementary Table 1 Characteristics of the excluded studies and study participants

Ref.	Type of	Reason of	Study subjects	n	Study findings
	study	exclusion			
Hassanein et	Prospective,	No non-	Adults (≥ 18 years of age)	420	Concomitant iGlarLixi and sodium-
al[21], 2024,	real-world,	glucagon-like	with T2DM treated with		glucose cotransporter-2 inhibitors therapy
Multicenter	observational	peptide-1	iGlarLixi for ≥ 3 months at		with or without other OADs was
across nine	study	receptor	study entry		demonstrated to be safe in adults with
countries		agonist			T2DM during Ramadan fast, with a low
		control group			risk of hypoglycemia and improvements
					in glycemic outcomes
Sahay et al[22],	Phase IV,	A post hoc	Uncontrolled T2DM on	150	The risk of any hypoglycemia was lower
2020,	randomized,	analysis of	SU + basal insulin ± one		with lixisenatide + basal insulin vs SU +
Multicenter	multicenter,	the LixiRam	OAD		basal insulin (OR = 0.09; 95% CI: 0.01–0.69).
across five	open-label,	trial			The 1.3% participant with lixisenatide +
countries	two-arm				basal insulin vs 6.8% participants with SU
	parallel-				+ basal insulin experienced ≥ 1
	group clinical				documented symptomatic hypoglycemic
	trial				event (OR = 0.22; 95%CI: 0.02-1.93)

OAD: Oral antidiabetic drugs; OR: Odds ratio; SGLT2i,; T2DM: Type 2 diabetes mellitus; SU: Sulfonylurea.