Table 2. Summary of ongoing principal phase 2 and 3 placebo-controlled randomized clinical trials testing the efficacy of newer glucose-lowering drugs in NAFLD or NASH.

Drug target	Drug name	NCT Number	Phase	Duration	Population	Primary outcome
Dual PPARα/γ agonist	Saroglitazar	NCT04193982	3	6 months	Non-cirrhotic	Change in NAFLD
					NAFLD/NASH	fibrosis score
PPARγ agonist	PXL065	NCT04321343	2	36 weeks	Biopsy-proven NASH,	Change in liver fat content
					NAS ≥4, and F1-3 stages	(by MRI-PDFF)
PPARγ agonist	Pioglitazone	NCT04501406	2	72 weeks	T2DM and biopsy-proven	Improvement in NAS
					NASH	score ≥2 points without
GLP1RA	Semaglutide	NCT03884075	2	30 weeks	NAFLD assessed by MRI-	≥2 point improvement in
					PDFF	NAS score; ≥25%
Glucagon/GIP/GLP1	HM15211	NCT04505436	2	12 months	Biopsy-proven NASH and	≥30% relative reduction
agonist					F1-3 stages	of liver fat content (by
						MRI-PDFF)
Dual GLP-1/GIP agonist	Tirzepatide	NCT04166773	2	52 weeks	Biopsy-proven NASH and	Resolution of NASH with
					F2-3 stages	no worsening of fibrosis
SGLT2 inhibitor	Dapagliflozin	NCT03723252	3	52 weeks	Biopsy-proven NASH	Improvement in scored
						liver histological features

<u>Abbreviations</u>: ALT, alanine aminotransferase; NAFLD, non-alcoholic fatty liver disease, NASH, non-alcoholic steatohepatitis; T2DM, type 2 diabetes mellitus; TZD, thiazolidinedione; PPAR, peroxisome proliferator—activated receptor; GIP, glucose-dependent insulinotropic polypeptide; GLP, glucagon-like peptide; GLP-1RA, glucagon-like peptide-1 receptor agonist; MRI-PDFF, magnetic resonance imaging-proton density fat fraction.