Table of included study characteristics

Study	Country	Setting/context	Participant characteristics	Groups	Outcomes measured	Description of main results
Stracke 2008 ³⁴	Germany	Double-blind, randomised, placebo-controlled phase-III study was performed in 10 study centres in Germany.	165 patients with type 1 or type 2 diabetes mellitus Mean age 60 years Males 56% vs females 44 % Mean duration of diabetes mellitus 12 years	Group 1: benfotiamine 200mg Group: 2 benfotiamine 100mg Group 3: placebo	HbA1c, FBG, BP at six weeks	The mean HbA1c was 7.7 %.
Rabbani 2008 ²⁵	Pakistan	Patients attending the Diabetes Clinic, Sheikh Zayed Hospital, Lahore, Pakistan	40 patients with type 2 diabetes Age range age 35–65 years Diabetes duration ≥5 years BMI 19–40 kg/m2.	Group 1: High-dose thiamine therapy (300 mg/day) Group 2: placebo	HbA1c, FBG, BMI, BP, HDL, Triglycerides at 3 months	There was no effect of thiamine treatment on glycaemic control, dyslipidaemia or BP.
Alkhalaf. 2010.	Netherlands	Participants attending the Isala Clinics (Zwolle, the Netherlands).	82 patients with type 2 diabetes Age range 40–75 years	Group 1: Benfotiamine (900 mg/day) Group 2: placebo	HbA1c, FBG, BMI, BP, HDL, Triglycerides at 12 weeks	Compared with placebo, benfotiamine treatment did not demonstrate a significant improvement in HbA1c.

Table of included study characteristics

Shahmiri 2013 ⁴⁸	Australia	Subjects who attended the outpatient clinic, School of Public Health, Curtin University.	17 hyperglycemic subjects (14 IGT, 3 T2DM) Age range 18-75 years BMI 19-40 kg/m2	Group 1: 100 mg thiamine (as thiamine hydrochloride) Group 2: placebo	FBG, and BMI at 3 weeks	Thiamine supplementation resulted in significant decreases in 2-h plasma glucose relative to baseline $(8.78\pm2.20 \text{ mmol/l})$ vs. 9.89 ± 2.50 , p = 0.004), with no significant change in the placebo arm. Fasting plasma glucose increased significantly from baseline after 6 weeks in the placebo arm (p = 0.003 , p = 0.04 and p = 0.02 , respectively).
Gonzalez- Oritz 2010 ¹⁵	Mexico/USA	Community	24 patients with T2DM or overweight or obesity Age range 30 – 65 years BMI 25–40 kg/m ²	Group 1: Thiamine orally (150 mg), once daily for one month (n=12) Group 2: placebo (n=12)	HbA1c, FBG, HDL-c, LDL- c, Triglycerides, BP, BMI at 1 month	Significant decreases in glucose $(6.7 \pm 1.0 \text{ mmol/l vs.} + 1.0 \text{ mmol/l}, p = 0.024)$ before and after the intervention, with thiamine administration. There were no changes with the rest of the measurements.
Winkler 1999 ²⁴	Hungary	Unclear	36 patients with T2DM and IDDM Age range 40-70 years.	Group A: 4 x 2 capsules of a complex B-vitamin preparation, (320mg/day benfotiamine) (n=12)	HbA1c, FBG, Triglycerides at 6 weeks.	No differences in metabolic outcomes between the three groups.

Table of included study characteristics

		Group B: daily		
		doses of only 3 x 1		
		capsules of the		
		complex B-vitamin		
		preparation		
		(120mg/day		
		benfotiamine)(n=12)		
		Group C: pure		
		benfotiamine		
		(150mg/day		
		benfotiamine)(n=12)		
1				