

Supplementary Table S1. Studies excluded by reason.

Exclusion Criteria (n excluded)	References
Study design (n = 68)	[1–68]
Exposure (n = 30)	[69–98]
Language (n = 22)	[99–120]
Outcome (n = 21)	[121–141]
Exposure & outcome (n = 15)	[142–156]
Target group (n = 9)	[157–165]
No effect size (n = 3)	[166–168]
Authors not reached (n = 2)	[169,170]

Supplementary Table S2. Risk of bias in included studies according to ROBINS-I.

References	Risk of Bias Domains						Overall Risk of Bias
	Confounding	Selection	Exposure classification	Misclassification	Missing data	Outcome measurement	
Goto et al., 2010 [171]	orange	yellow	grey	yellow	grey	green	serious risk
Guinter et al., 2020 [172]	yellow	green	grey	yellow	green	green	moderate risk
Hurst and Fukuda, 2018 [173]	orange	red	grey	orange	yellow	green	critical risk
Kahleova et al., 2017 [174]	orange	yellow	orange	yellow	yellow	orange	serious risk
Kito et al., 2019 [175]	orange	yellow	grey	yellow	green	green	serious risk
Nooyens et al., 2005 [176]	orange	green	yellow	yellow	yellow	green	serious risk
Odegaard et al., 2013 [177]	yellow	green	yellow	green	green	green	moderate risk
Smith et al., 2017 [178]	orange	yellow	yellow	yellow	green	green	serious risk
van der Heijden et al., 2007 [179]	orange	green	orange	yellow	yellow	green	serious risk

Legend: no information on risk of bias (grey); low risk of bias (green); moderate risk of bias (yellow); serious risk of bias (orange); critical risk of bias (red). ROBINS-I = Risk of Bias in Non-randomized Studies of Interventions.

Supplementary Table S3. Quality of evidence of meta-analyses referring to NutriGRADE.

Meta-analysis (n studies)	Quality Assessment								Summary of Findings ES (95% CI)	Meta-Evidence (Σ 0–8.6 P)
	Risk of bias (0–2 p)	Precision (0–1 p)	Heterogeneity (0–1.6 p)	Directness (0–1 p)	Publication bias (0–1 p)	Funding bias (0–1 p)	Effect size (0–1 p)	Dose-response (0–1 p)		
	n cases n controls									
Overweight (n = 2)	1	1	0.4	0	0	1	0	0	25,764 79,487	RR = 1.11 (1.04, 1.19) very low (Σ 3.4)
BMI change (n = 2)	1	0	0.2	0	0	1	0	0	108,413*	β = -0.02 (-0.05, 0.01) very low (Σ 2.2)

Legend: NutriGRADE = Nutrition Grading of Recommendations Assessment, Development and Evaluation; BMI = body mass index; *n participants; no information on cases and controls; ES = effect estimate; CI = confidence interval.

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