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Supplementary File 2 Assessment of risk of bias

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Bias Authors' judgment	Support for judgment
Xiang X, 2019	
Random sequence generation	"采用统计软件随机分为干预组和对照组", but no further information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"由于米片和燕麦片在外形差异较大,本研究无法针对执行试验的研究人员和参与试验的研究 对象采取盲法措施。"
Blinding of outcome assessment	"各项指标的检测人员采取盲法。"
Incomplete outcome data	"最终完成全部试验的共计 187 人, 11 人失访 (对照组 6 人,干预组 5 人),失访率为 5%,此外有 12 人被剔除,其中 8 人没有按 照试验要求服用样品(对照组 5 人,干预组 3 人),4 人退组(其中对照组 1 人,干预组 3 人。"
Selective reporting	Outcomes matched those described in the clinical trial registry.
Other bias	No other sources of bias were identified.
Uusitupa MI, 1992	
Random sequence generation	"the subjects were randomly allocated into oat bran or wheat bran groups", but no further information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"the study was carried out with a double-blind study design."
Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"Forty-six subjects with known elevated serum TC (5.5-8.5 mmol/1) were originally recruited for the study."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Biörklund M, 2005	
Random sequence generation	"they were randomly divided over five groups, stratified for gender and centre."
Allocation concealment	No mention was in the paper and author was not

	contacted.
Blinding of participants and personnel	"a single blind", participants were blinded with the
Difficulty and personner	use of placebo.
Blinding of outcome assessment	No mention was in the paper and author was not
Dimaing of cuteome appearance	contacted.
Incomplete outcome data	"In total, 100 subjects were included in the study,
	of which 89(45 females and 44 males) completed
	the 8-week protocol."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Other olds	140 other sources of olds were identified.
Lepre F, 1992	
Random sequence generation	"The study was a prospective, randomised, placebo
1 &	controlled crossover study made up of three eight-
	weekstudy periods", but no further information was
	provided.
Allocation concealment	No mention was in the paper and author was not
Amocation conceanion	contacted.
Blinding of participants and personnel	No mention was in the paper and author was not
2.maing of participants and personner	contacted.
Blinding of outcome assessment	No mention was in the paper and author was not
	contacted.
Incomplete outcome data	"Thirty-seven mildly hyperlipidaemic subjects (16
1	men, 21 women) were recruited" and "Thirty
	subjects completed the study."
Selective reporting	Protocol not available.
Other bias	Thirty subjects completed the study. Four subjects
	dropped out during the diet-only period and three
	during the muffin periods of the study. Of these,
	three subjects were unable to comply with the
	dietary protocol.
Gulati S, 2017	
Random sequence generation	"Enrolled subjects were randomized to one
1 0	of the two groups", but no further information was
	provided.
Allocation concealment	No mention was in the paper and author was not
	contacted.
Blinding of participants and personnel	No mention was in the paper and author was not
	contacted.
Blinding of outcome assessment	No mention was in the paper and author was not
	contacted.
In commista outcome data	"Sixty nine of eighty subjects (69/80) completed
Incomplete outcome data	Sinty nine of eighty subjects (65766) completed

Selective reporting	Outcomes matched those described in the clinical trial registry.
Other bias	No other sources of bias were identified.
Törrönen R, 1992	
Random sequence generation	"They were randomly assigned into control and oat groups", but no further information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"doubleblind trial".
Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"A group of 30 adult male volunteers with serum total cholesterol concentration above 5.5mmol/l was recruited" and "Two subjects from the oat group discontinued the trial at an early stage."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Van Horn L, 1991	
Random sequence generation	"Individuals were randomized to one of two groups, stratified by sex and pre-screen cholesterol level, above or below 6.34 mmol/L, prior to baseline visit."
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	No mention was in the paper and author was not contacted.
Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"In all, 80 individuals completed all data collection visits; 14 were dropped from the Intervention Group and 17 from the Control Group."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Gerhardt AL, 1998	
Random sequence generation	"Fifty-two subjects were enrolled and randomly assigned to groups", but no further information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"double blind".

Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"Of the 52 subjects entered into the study, the data of 23
	males and 21 females were used in the final analysis".
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Lovegrove JA, 2000	
Random sequence generation	"The volunteers were assigned to either the OBC
rundom sequence generation	group or the wheat-bran group on the basis of
	stratified randomization."
Allocation concealment	No mention was in the paper and author was not
Anocation conceanion	contacted.
Blinding of participants and personnel	" double-blind".
Blinding of outcome assessment	No mention was in the paper and author was not
	contacted.
Incomplete outcome data	"Seventy subjects commenced the study and 62
	successfully completed the 12-wk protocol."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Zhang J, 2012	
Random sequence generation	"182 subjects (109 females, 73 males) were selected
	to participate and randomized to either the oat
	group or the control group", but no further
	information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"Due to the nature of the food products serving as
	control (wheat noodles) and test (oatmeal) product,
	it was not possible to blind the subjects or the
	researchers."
Blinding of outcome assessment	"the statistician analyzing the data was blinded to
	the treatment groups".
Incomplete outcome data	ine deadlicht groups.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"182 subjects (109 females, 73 males) were selected
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1	"182 subjects (109 females, 73 males) were selected
1	"182 subjects (109 females, 73 males) were selected to participate and randomized to either the oat
1	"182 subjects (109 females, 73 males) were selected to participate and randomized to either the oat group or the control group" and "A total of 85
1	"182 subjects (109 females, 73 males) were selected to participate and randomized to either the oat group or the control group" and "A total of 85 subjects in the oat group and 81 subjects in the
Selective reporting	"182 subjects (109 females, 73 males) were selected to participate and randomized to either the oat group or the control group" and "A total of 85 subjects in the oat group and 81 subjects in the control group were included in the final data

Davidson MH, 1991	
Random sequence generation	"One hundred fifty-six patients with LDL-C levels above 4.14 mmol/L (160 mg/dL) or between 3.37 and 4.14mmol/L (130 and 160 mg/dL) with multiple risk factors were stratified according to baseline LDL-C levels and randomized in a parallel fashion into seven equal groups".
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	"single-blind".
Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"Of the 156 randomized patients, 148 completed the 12-week study".
Selective reporting	Protocol not available.
Other bias	The final analysis was performed on a "per protocol" basis.
Maki KC, 2010	
Random sequence generation	"participants were randomly assigned to consume either two portions/day (3 c/day) of whole-grain RTE oat cereal (providing 3 g/day b-glucan) or low-fiber breakfast/snack foods (eg, RTE corn cereals, white toast, plain bagels and English muffins, pretzels, soda crackers, or rice cakes) with a similar energy and macronutrient content (control group)", but no further information was provided.
Allocation concealment	No mention was in the paper and author was not contacted.
Blinding of participants and personnel	Blinding was impossible cause the interventions were visibly different.
Blinding of outcome assessment	No mention was in the paper and author was not contacted.
Incomplete outcome data	"204 were randomized to treatment (whole-grain RTE oat cereal n101, control n103). One hundred seventythree participants (whole-grain RTE oat cereal n86, control n87) were included in the MITT population."
Selective reporting	Protocol not available.
Other bias	The final analysis was performed on a "per protocol" basis.
Mamanizadah A. 2014	
Momenizadeh A, 2014	

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Random sequence generation	"subjects were randomized to consume one of
	these diets", but no further information was
	provided.
Allocation concealment	No mention was in the paper and author was not
	contacted.
Blinding of participants and personnel	No mention was in the paper and author was not
	contacted.
Blinding of outcome assessment	No mention was in the paper and author was not
Binding of outcome assessment	contacted.
Incomplete outcome data	
Incomplete outcome data	"only 64 were found eligible after base
	test······four of these subjects withdrew during the
	course of study."
Selective reporting	Outcomes matched those described in the clinical
	trial registry.
Other bias	No other sources of bias were identified.
Queenan KM, 2007	
Random sequence generation	"Subjects were randomly assigned to either
1 8	placebo or treatment, stratifiedby age and sex."
Allocation concealment	No mention was in the paper and author was not
Anocation conceannent	
	contacted.
Blinding of participants and personnel	"The study was a randomized, double-blind
	parallel group design."
Blinding of outcome assessment	No mention was in the paper and author was not
	contacted.
Incomplete outcome data	"A total of 90 patients were enrolled with 45
	patients per treatment arm Fifteen subjects (n
	= 10 treatment, n = 5 placebo) were excluded from
	final analysis because their baseline cholesterol
	value was below 200 mg/dl despite a screening
	value above 200 mg/dl."
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Onici bias	TWO OTHER SOURCES OF DIAS WEIG TUCHTHIEU.
Eng. I 2012	
Jing L, 2013	"你人为压药气" 种质 II 八至7万1八十
Random sequence generation	"符合条件的受试者被随机分配到以下
	4个组", but no further information was
	provided.
Allocation concealment	No mention was in the paper and author was not
	contacted.
Blinding of participants and personnel	No information about blinding of participants and
	personnel.
Blinding of outcome assessment	No information about blinding of outcome
	assessment.
	assessinent.

Incomplete outcome data	"共有 201 人通过筛选参与本研究,其中有 1
Incomplete outcome data	
	人家庭变故退出,1人工作调配退出,另 3 人
	不能按要求完成试验而退出研究,最终有
	196 人纳入分析。"
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Ears V 1004	
Jiang X,1994	(4·2·11 + 1/2·11 + 2·1
Random sequence generation	"按机械随机方法分为燕麦组、对照组。按选
	入的顺序前三名为燕麦组、第四名为对照组,
	接着三名又为燕麦组、第八名又为对照组。余
	此类推
	0
Allocation concealment	No mention was in the paper and author was not
	contacted.
Blinding of participants and personnel	No information about blinding of participants and
	personnel.
Blinding of outcome assessment	No information about blinding of outcome
	assessment.
Incomplete outcome data	The study reported each lipid separately, and there
meompiete outcome data	was a risk of missing outcome data.
Selective reporting	Protocol not available.
Other bias	No other sources of bias were identified.
Rioux-Labrecque V, 2023	
•	"2(1
Random sequence generation	"264 subjects (66 subjects per treatment group)
	were to be randomly assigned. The unblinded
	statistician generated a randomization algorithm for
	the Interactive Web Response System provider
	using blocks of size 4 and stratified by study
	center".
Allocation concealment	"All site staff and study subjects remained blinded
	until study completion and database closure".
Blinding of participants and personnel	"double-blind", "All site staff and study subjects
	remained blinded until study completion and
	database closure".
Blinding of outcome assessment	No information about blinding of outcome
	assessment.
Incomplete outcome data	A total of 263 patients were enrolled, and all of
1	them were included in the ITT analysis.
Selective reporting	Outcomes matched those described in the clinical
	trial registry.
Other bias	No other sources of bias were identified.
Outel thas	The other sources of that were identified.