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SUPPLEMENTARY TABLES

ESM Table 1. PRISMA checklist.

Section and Topic	ltem #	Checklist item	Location where item is reported		
TITLE					
Title	1	Identify the report as a systematic review.	Page 1		
ABSTRACT					
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 1		
INTRODUCTION					
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 3		
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 3		
METHODS					
Eligibility criteria	ility 5 Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.				
Information sources	6	pecify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify udies. Specify the date when each source was last searched or consulted.			
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.			
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 3		
Data collection process			Page 3		
Data items			Page 3		
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 3 Supplementary Tables 5,10		
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 3,4		
Effect	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of	Page 4		

Section and Topic	ltem #	Checklist item					
measures		results.					
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 4				
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.					
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 4				
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 4				
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Page 4				
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page 4				
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).					
Certainty assessment	15	15 Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.					
RESULTS							
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.					
16b		Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 4,8				
Study characteristics	17	Cite each included study and present its characteristics.	Page 4,8				
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Supplementary Table 8, Supplementary Figure 6				
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Table 1, 2 Figure 1, 2				
Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page 8,12				
syntheses	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.					
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Page 9,12				
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page 8,12				
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page 13				

Section and Topic	ltem #	Checklist item	Location where item is reported		
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Page 13		
DISCUSSION					
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 13		
	23b	Discuss any limitations of the evidence included in the review.	Page 14		
	23c Discuss any limitations of the review processes used.				
	23d	Discuss implications of the results for practice, policy, and future research.	Page 14		
OTHER INFORM	ATION				
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 3		
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 3		
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	NA		
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 15		
Competing interests	26	Declare any competing interests of review authors.	Page 15		
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 15		

	MEDLINE		EMBASE		The Cochrane library
	Through March 9 th , 2021		Through March 9 th , 2021		Through March 9 th , 2021
1	Diet, Scandinavian/	1	Diet, Scandinavian/	1	(Scandinavian adj3 diet).mp.
2	(Scandinavian adj3 diet).mp.	2	(Scandinavian adj3 diet).mp.	2	Scandinavian diet*.mp.
3	Scandinavian diet*.mp.	3	Scandinavian diet*.mp.	3	(Baltic sea adj3 diet).mp.
4	Diet, Baltic sea/	4	Diet, Baltic sea/	4	Baltic sea diet*.mp.
5	(Baltic sea adj3 diet).mp.	5	(Baltic sea adj3 diet).mp.	5	(Finnish adj3 diet).mp.
6	Baltic sea diet*.mp.	6	Baltic sea diet*.mp.	6	Finnish diet*.mp.
7	Diet, Finnish/	7	Diet, Finnish/	7	(Danish adj3 diet).mp.
8	(Finnish adj3 diet).mp.	8	(Finnish adj3 diet).mp.	8	Danish diet*.mp.
9	Finnish diet*.mp.	9	Finnish diet*.mp.	9	(Swedish adj3 diet).mp.
10	Diet, Danish/	10	Diet, Danish/	10	Swedish diet*.mp.
11	(Danish adj3 diet).mp.	11	(Danish adj3 diet).mp.	11	(Icelandic adj3 diet).mp.
12	Danish diet*.mp.	12	Danish diet*.mp.	12	Icelandic diet*.mp.
13	Diet, Swedish/	13	Diet, Swedish/	13	(Nordic adj3 diet).mp.
14	(Swedish adj3 diet).mp.	14	(Swedish adj3 diet).mp.	14	Nordic diet*.mp.
15	Swedish diet*.mp.	15	Swedish diet*.mp.	15	(Malmo adj3 diet).mp.
16	Diet, Icelandic/	16	Diet, Icelandic/	16	Malmo diet*.mp.
17	(Icelandic adj3 diet).mp	17	(Icelandic adj3 diet).mp.	17	(Sami adj3 diet).mp.
18	Icelandic diet*.mp.	18	Icelandic diet*.mp.	18	Sami diet*.mp.
19	Diet, Nordic/	19	Diet, Nordic/	19	(Norwegian adj3 diet).mp.
20	(Nordic adj3 diet).mp.	20	(Nordic adj3 diet).mp.	20	Norwegian diet*.mp.
21	Nordic diet*.mp.	21	Nordic diet*.mp.	21	(Faroese islands adj3 diet).mp.
22	Diet, Malmo /	22	Diet, Malmo /	22	Faroese islands diet*.mp.
23	(Malmo adj3 diet).mp.	23	(Malmo adj3 diet).mp.	23	or/1-22
24	Malmo diet*.mp.	24	Malmo diet*.mp.	24	Stroke/
25	Diet, Faroese islands/	25	Diet, Faroese islands/	25	stroke.mp.

26	(Faroese islands adj3 diet).mp.	26	(Faroese islands adj3 diet).mp.	26	cerebrovascular accident.mp.
27	Faroese islands diet*.mp.	27	Faroese islands diet*.mp.	27	(fatal adj3 stroke).mp.
28	(Sami adj3 diet).mp.	28	(Sami adj3 diet).mp.	28	Cerebral Hemorrhage/
29	Sami diet*.mp.	29	Sami diet*.mp.	29	hemorrhagic stroke.mp.
30	Diet, Sami/	30	Diet, Sami/	30	Intracranial Hemorrhages/
31	(Norwegian adj3 diet).mp.	31	(Norwegian adj3 diet).mp.	31	Brain Ischemia/
32	Norwegian diet*.mp.	32	Norwegian diet*.mp.	32	brain ischemia.mp.
33	Diet, Norwegian/	33	Diet, Norwegian/	33	Cerebral Infarction/
34	or/1-33	34	or/1-33	34	Peripheral Arterial Disease/
35	exp Stroke/	35	exp cerebrovascular accident/	35	peripheral arterial disease.mp.
36	(fatal adj3 stroke).mp.	36	stroke.mp.	36	Heart Failure/
37	non fatal stroke.mp.	37	(fatal adj3 stroke).mp.	37	Myocardial Ischemia/
38	hemorrhagic stroke.mp.	38	non fatal stroke.mp.	38	myocardial ischemia.mp.
39	exp Intracranial Hemorrhages/	39	hemorrhagic stroke.mp.	39	Myocardial Infarction/
40	exp Intracranial arterial diseases/	40	exp brain hemorrhage/	40	myocardial infarction.mp.
41	ischemic stroke.mp.	41	intracranial hemorrhage.mp.	41	cardiovascular disease mortality.mp.
42	exp Brain Ischemia/	42	exp cerebral artery disease/	42	cardiovascular disease death.mp.
43	exp Cerebral Infarction/	43	intracranial arterial disease.mp.	43	CVD mortality.mp.
44	exp Peripheral Arterial Disease/	44	ischemic stroke.mp.	44	Cardiovascular Diseases/
45	peripheral artery disease.mp.	45	exp brain ischemia/	45	cardiovascular disease.mp.
46	exp heart failure/	46	exp brain infarction/	46	CVD.mp.
47	heart failure.mp.	47	exp peripheral occlusive artery disease/	47	Coronary Disease/
48	exp myocardial ischemia/	48	peripheral artery disease.mp.	48	coronary disease.mp.
49	exp myocardial infarction/	49	exp heart failure/	49	cerebrovascular. mp.
50	cardiovascular disease mortality.mp.	50	heart failure.mp.	50	OGTT.mp.
51	cardiovascular disease	51	exp heart muscle	51	oral glucose tolerance

	death.mp.		ischemia/		test'.mp.
52	CVD death.mp.	52	exp heart infarction/	52	exp Hemoglobin A, Glycosylated/
53	CVD mortality.mp.	53	cardiovascular disease mortality.mp.	53	hbalc.mp.
54	cardiovascular disease.mp.	54	cardiovascular disease death.mp.	54	insulin*.mp.
55	exp cardiovascular disease/	55	CVD mortality.mp.	55	glycemia.mp.
56	CVD.mp.	56	CVD death.mp.	56	exp Glucose/
57	coronary disease.mp.	57	cardiovascular disease.mp.	57	exp Hyperglycemia/
58	exp Coronary Disease/	58	exp cardiovascular disease/	58	hyperinsulin*.m p.
59	cerebrovascular. mp.	59	CVD.mp.	59	dysglycemia.mp
60	cerebral vascular.mp.	60	coronary disease.mp.	60	exp diabetes mellitus/
61	OGTT.mp.	61	exp coronary artery disease/	61	metabolic syndrome.mp.
62	exp Hemoglobin A, Glycosylated /	62	cerebrovascular. mp.	62	exp Body Weight/
63	hba1c.mp.	63	cerebral vascular.mp.	63	body weight*.mp.
64	insulin*.mp.	64	exp oral glucose tolerance test/	64	exp Body Mass Index/
65	glycemia.mp.	65	OGTT.mp.	65	body mass index.mp.
66	exp Glucose/	66	exp hemoglobin A1c/	66	BMI.mp.
67	exp Hyperglycemia/	67	hba1c.mp.	67	exp Waist Circumference/
68	hyperinsulin*.m p.	68	insulin*.mp.	68	waist circumference. mp.
69	dysglycemia.mp	69	exp glucose blood level/	69	exp overweight/
70	exp diabetes mellitus/	70	glycemia.mp.	70	overweight.mp.
71	metabolic syndrome.mp.	71	exp glucose/	71	exp Obesity/
72	exp Body Weight/	72	'impaired fasting glucose'.mp.	72	exp Obesity, Abdominal/
73	body weight*.tw.	73	hyperglycemia. mp.	73	exp Obesity, Morbid/
74	exp Body Mass Index/	74	'impaired glucose tolerance'.mp.	74	obesity.mp.
75	body mass index.tw.	75	hyperinsulin*.m p.	75	body fat.mp.
76	BMI.tw.	76	dysglycemia.mp	76	hypertension.m p.
77	exp Waist	77	exp diabetes	77	blood

	Circumference/		mellitus/		pressure.mp.
78	waist circumference.t w.	78	exp insulin dependent diabetes mellitus/	78	systolic blood pressure.mp.
79	exp overweight/	79	exp non insulin dependent diabetes mellitus/	79	diastolic blood pressure.mp.
80	overweight.tw.	80	exp pregnancy diabetes mellitus/	80	hypertension.m p.
81	exp Obesity/	81	exp metabolic syndrome X/	81	SBP.mp.
82	exp Obesity, Abdominal/	82	exp Body Weight/	82	DBP.mp.
83	exp Obesity, Morbid/	83	body weight*.tw.	83	exp lipoproteins/ or exp cholesterol/ or exp hyperlipidemias / or (lipid or lipids).mp.
84	obesity.tw.	84	exp Body Mass Index/	84	(cholesterol or cholesterols).mp
85	body fat.tw.	85	body mass index.tw.	85	hdl.mp.
86	exp Hypertension/	86	BMI.tw.	86	("high density lipoprotein" or "high density lipoproteins").m p.
87	Blood Pressure/	87	exp Waist Circumference/	87	ldl.mp.
88	"diastolic blood pressure".mp.	88	waist circumference.t w.	88	("low density lipoprotein" or "low density lipoproteins").m p.
89	"systolic blood pressure".mp.	89	exp Overweight/	89	(hyperlipemia* or hyperlipaemia*) .mp.
90	hypertension.m p.	90	overweight.tw.	90	(hyperlipidemia * or hyperlipidaemia *).mp.
91	SBP.mp.	91	exp Obesity/	91	(lipidemia* or lipidaemia*).mp
92	DBP.mp.	92	exp Obesity, Abdominal/	92	(lipemia* or lipaemia*).mp.
93	exp lipoproteins/ or exp cholesterol/ or exp hyperlipidemias / or (lipid or lipids).mp.	93	Obesity, Morbid/	93	(lipemic or lipaemic).mp.

94	(cholesterol or cholesterols).mp	94	obesity.tw.	94	triglycerides.mp
95	hdl.mp.	95	body fat.tw.	95	hypertriglycerid emia.mp.
96	("high density lipoprotein" or "high density lipoproteins").m p.	96	exp Hypertension/	96	TG.mp.
97	ldl.mp.	97	exp Blood Pressure/	97	triacylglycerol*. mp.
98	("low density lipoprotein" or "low density lipoproteins").m p.	98	"systolic blood pressure".mp.	98	TÂG.mp.
99	(hyperlipemia* or hyperlipaemia*) .mp.	99	"diastolic blood pressure".mp.	99	dyslipidemia.m p.
100	(hyperlipidemia * or hyperlipidaemia *).mp.	100	SBP.mp.	100	Inflamm*.mp
101	(lipidemia* or lipidaemia*).mp	101	DBP.mp.	101	C-reactive protein.mp
102	(lipemia* or lipaemia*).mp.	102	(cholesterol or cholesterols).mp	102	CRP.mp
103	(lipemic or lipaemic).mp.	103	hdl.mp.	103	or/24-103
104	exp Triglycerides/	104	exp lipoproteins/ or exp cholesterol/ or exp hyperlipidemias / or (lipid or lipids).mp.		
105	triglyceride*.mp	105	("high density lipoprotein" or "high density lipoproteins").m p.		
106	hypertriglycerid emia*.mp.	106	ldl.mp.		
107	exp Hypertriglycerid emia/	107	("low density lipoprotein" or "low density lipoproteins").m p.		
108	exp Dyslipidemias/	108	(hyperlipemia* or hyperlipaemia*) .mp.		
109	triacylglycerol*. mp.	109	(hyperlipidemia * or hyperlipidaemia *).mp.		
					1

110	dyslipidaemia*. mp.	110	(lipidemia* or lipidaemia*).mp
111	dyslipidemia.m p.	111	(lipemia* or lipaemia*).mp.
112	Inflamm*.mp	112	(lipemic or lipaemic).mp.
113	C-reactive protein.mp	113	exp Triglycerides/
114	CRP.mp	114	exp Hypertriglycerid emia/
115	or/35-114	115	hypertriglycerid emia*.mp.
116	exp cohort studies/	116	triglyceride*.mp
117	cohort\$.tw.	117	triacylglycerol*. mp.
118	controlled clinical trial.pt.	118	dyslipidemia*. mp.
119	epidemiologic methods/	119	dyslipidaemia*. mp.
120	limit 35 to yr=1971-1988	120	exp Dyslipidemias/
121	116 or 117 or 118 or 120	121	Inflamm*.mp
122	34 and 115 and 121	122	C-reactive protein.mp
123	"randomized controlled trial".pt.	123	CRP.mp
124	(random\$ or placebo\$ or single blind\$ or double blind\$ or triple blind\$).ti,ab.	124	or/35-123
125	(retraction of publication or retracted publication).pt.	125	exp cohort analysis/
126	123 or 124 or 125	126	exp longitudinal study/
127	(animals not humans).sh.	127	exp prospective study/
128	((comment or editorial or meta-analysis or practice- guideline or review or letter or journal correspondence) not "randomized controlled trial").pt.	128	exp follow up/
129	(random 129 sampl\$ or random digit\$ or random	cohort	\$.tw.

or 128 or 129)127 or 128 or 12913134 and 115131 and 123 and 130132121 or 131132 superback independence indepndence indepndence indepndence in		effect\$ or random survey or random regression).ti, ab. not "randomized controlled trial".pt.			Original search date: August 1 st 2019; update search date: March 9th, 2021.
13134 and 115 and 12813134 and 123 and 130132121 or 131132IaradomS or placeboS or single blindS or triple blindS).ti,ab.133RETRACTE DARTICLE//134131 or 133135(animalS not how. w.136(book or conference paper or editorial or editorial or tetter or rraidom samplS or random effects or random survey or random igitS or random137137138133 not (135 or natom or natom or natom effects or random	130		130		
placeboS or single blindS or double blindS or triple D ARTICLE/133RETRACTE D ARTICLE/134131 or 133135(animalS not humanS).sh,h w.136(book or conference paper or editorial or letter or rrandomized controlled trial/137(random samplS or rrandom digitS or rrandom offectS or random survey or random offectS or random offictS or random random random random random random offictS or random random random random random random random random <br< td=""><td>131</td><td>34 and 115</td><td>131</td><td></td><td></td></br<>	131	34 and 115	131		
133 RETRACTE D ARTICLE/ 134 131 or 133 135 (animalS not humanS).sh,h w. 136 (book or conference paper or editorial or letter or review).pt. not exp randomized controlled trial/ 137 (random samplS or random digitS or random effectS or random regression).fi, ab. not exp randomized controlled trial/ 138 133 not (135 or 136 or	132	121 or 131	132	placebo\$ or single blind\$ or double blind\$ or triple	
134131 or 133135(animal\$ not human\$).sh,h w.136(book or conference paper or editorial or letter or review).pt. not exp randomized controlled trial/137(random sampl\$ or random digit\$ or random effect\$ or random survey or random survey or random survey or randomized controlled trial/138133 not (135 or 136 or			133	RETRACTE	
human\$).sh,h w. 136 (book or conference paper or editorial or letter or review).pt. not exp randomized controlled trial/ 137 (random sampl\$ or random digit\$ or random effect\$ or random survey or random regression).ti, ab. not exp randomized controlled trial/ 138 133 not (135 or 136 or			134		
136(book or conference paper or editorial or letter or review).pt. not exp randomized controlled trial/137(random sampl\$ or random digit\$ or random effect\$ or random survey or random regression).ti, ab. not exp randomized controlled trial/138133 not (135 or 136 or			135	human\$).sh,h	
sampl\$ or random digit\$ or random effect\$ or random survey or random regression).ti, ab. not exp randomized controlled trial/ 138 133 not (135 or 136 or			136	(book or conference paper or editorial or letter or review).pt. not exp randomized controlled	
138 133 not (135 or 136 or			137	sampl\$ or random digit\$ or random effect\$ or random survey or random regression).ti, ab. not exp randomized controlled	
,			138	133 not (135	
139 34 and 123 and 138			139	34 and 123	
140 131 or 139			140		

Participants	Inclusion criteria	Exclusion criteria	Outcome
All individuals, both children, and adults, regardless of health status.	 Prospective cohort studies Duration >= 1 year Assessment of the exposure of a Nordic Diet Ascertainment of viable data by level of exposure 	 Ecological, cross-sectional, retrospective observational studies, clinical trials, and non-human studies Duration < 1 year non assessment of exposure of a Nordic diet No ascertainment viable clinical outcome data by level of exposure 	Cardiovascular Diseases Coronary Heart Disease Stroke Mortality Diabetes

ESM Table 3. Eligibility criteria for prospective cohort studies

ESM Table 4. PICOTS^a framework for inclusion of randomized controlled trials

Participants	Intervention	Comparison	Outcome	Time	Study Design
All individuals,	Nordic diets	Habitual or	Adiposity, glycemic	\geq 3	Human
both children, and	intervention	usual or	control, established	weeks	randomized
adults, regardless		western diet	blood lipid targets,		controlled trials
of health status.			blood pressure,		
			inflammation		

a Population, Intervention, Comparator, Outcome, Time, and Study design

ESM Table 5. Characteristics of included cohorts.

Study, year	Cohort	Sex	Population*	Country	Ethnicity	N	Cases	Age	Follow-up (years)	Mean Follow- up (years)	Method of Measurement of Exposure	Quantile divisions (score division)	Nordic diet index	Outcome	Funding Sources
Gunge et al. 2017	Danish Diet, Cancer and Health	М	Free of cancer	Denmark	Caucasian	25,759	1,669	50-64ª	1993-2009	13.6	192-item SFFQ	Category, (0,1,2,3,4,5,	HNFI	CHD incidence	А
	cohort	F				28,809	653				511Q	6)		meldenee	
Warensjo Lemming et al. 2018	Swedish Mammography Cohort	F	General	Sweden	Caucasian	33,341	3003	61 ^b	1997-2014	17	96-item FFQ	Tertiles (0– 1, 2-4,5-6)	HNFI	CVD mortality	А
Tertsunen et al 2020	Kuopio Ischaemic Heart Disease Risk Factor Study	М	General	Finland	Caucasian	1547	250	42-60 ^a	1984–1989, 2014	23.6ª	Dietary records 4-day	Tertiles (0– 1, 2-4,5-6)	Modified Baltic Sea Diet Score	CVD mortality	A
Lacoppidan et	Danish Diet, Cancer and Health	М	Free of cancer	Denmark	Caucasian	26,107	4097	50-64ª	1993- 1997,2011	15.3ª	192-item	Category, (0,1,2,3,4,5,	HNFI	T2DM	А
al 2015	cohort	F		Deminark	Caucasian	28,953	3269	50-04	1557,2011		SFFQ	6)		120101	
Ewers et al 2020	The Copenhagen General Population Study	M + F	General	Denmark	Caucasian	88,818	2982	58 ⁶	2003- 2015,2018	9.2	Short FFQ	Quantiles (Very high/High, Intermediat e, Very Low/Low)	Danish food- based dietary guideline s	CVD mortality	А
Lassale et al. 2016	ЕРІС	M + F	Free of cancer and diabetes	Denmark, France, Germany, Greece, Italy, the Netherlands , Norway, Spain, Sweden, and the United Kingdom	Caucasian	451,256	3761	25-70ª	Recruit 1992 - 2000	12.8	Dietary questionnaires (validation with 24h recalls, FFQ, dietary records)	Quantiles (0,1,2,3,4,5, 6)	HNFI	CVD mortality	A
		М				6940	444	45-73ª	Recruit		7-d food diary,		DOL		
Drake et al. 2013	Malmö Diet and Cancer cohort	F	Free of diabetes	Sweden	Caucasian	10,186	265	44–73ª	1991-1996, 2008	14.2ª	168-item FFQ, diet history interview	Tertiles (0- 1, 2-3,4-6)	DQI- SNR	CVD mortality	А
Hansen et al. 2017	Danish Diet, Cancer and Health cohort	M + F	Free of cancer	Denmark	Caucasian	55,338	2283	56.1 ^b	Recruit 1993-1997	13.5	192-tem SFFQ	Tertiles (0- 1, 2-3,4-6)	HNFI	Stroke incidence	А
		М				6940	1093	45–73ª			7-d food diary,				
Hlebowicz et al. 2013	Malmö Diet and Cancer cohort	F	Free of diabetes	Sweden	Caucasian	10,186	703	44–74ª	1991-2008	14ª	168-item FFQ, diet history interview	Tertiles (0- 1, 2-3,4-6)	DQI- SNR	CVD incidence	А
Roswall et al.	Swedish Women's					43,310	8383		1991–		80-item FFQ,	Tertiles (0-		CVD incidence	
2015	Lifestyle and Health Cohort	F	General	Sweden	Caucasian		698	29-49 ^a	1992,2012	21.3	7-day records in 129 women	1, 2-3, 4-6)	HNFI	Stroke incidence	A 1/

							1019							CHD incidence	
Roswall et al. 2015	Swedish Women's Lifestyle and Health Cohort	F	General	Sweden	Caucasian	44,961	270	29–49ª	1991– 1992,2012	21.3	80-item FFQ, 7-day records in 129 women	Tertiles (0- 1, 2-3,4-6)	HNFI	CVD mortality	А
Kanerva et al	Helsinki Birth Cohort Study	M + F	Free of	Denmark	Caucasian	6744	541	47-62ª	2000-2010	9.4ª	128 item FEO	Quantiles	Baltic Sea Diet	T2DM	A+I
2014	Health 2000 Survey	M + F	diabetes	Denmark	Caucasian		541	47-62-	2000-2010	11.3ª	128-item FFQ	(0-25)	Sea Diet Score	12DM	A+I
		М				26,868	1,859				7-d food diary,				
Mandalazi et al 2016	Malmö Diet and Cancer cohort	F	Free of diabetes	Sweden	Caucasian		1,979	44-74ª	1991- 1996,2014	17ª	168-item FFQ, diet history interview	Tertiles (0- 1, 2-4,5-6)	DQI- SNR	T2DM	А
						23,485	312					Tertiles (0-		CHD incidence	
Galbete et al. 2018	EPIC-Potsdam	M + F	Free of cancer and diabetes	Germany	Caucasian		321	35-65ª	1994-1998, 2009	10.8ª	148-item FFQ	7, 8-10,11- 18)	Nordic diet score	Stroke incidence	А
														T2DM	
Puaschitz et al. 2019	Western Norway B-vitamin Intervention Trial	M + F	Stable angina	Norway	Caucasian	2019	171	28-85ª	1999-2004, 2010	10.5ª	169-item FFQ	Tertiles (0- 1, 2-3,4-6)	HNFI	CVD mortality	А
	(WENBIT)						307		1999-2004, 2013	7.5ª		. , ,		CHD incidence	

Abbreviations: A, Agency; M, males; F, females; NA, not available; SFFQ, Short Food Frequency Questionnaire; HNFI, Healthy Nordic Food Index; I, Industry; MI, myocardial infraction; T2DM, Type 2 diabetes melitus; FFQ, food frequency questionnaire; DQI-SNR, diet quality index (DQI) hat assesses adherence to the 2005 Swedish Nutrition Recommendations (SNR); IHD, ischemic heart disease.

^a Age range; ^bMedian value given *Population excludes individuals with CVD at baseline

ESM Table 6. Dietary scores used to assess adherence to the Nordic dietary pattern.

Studies	Nordic Diet Index	Scoring Categories	Primary Food Components	Cut-offs	Reference Guidelines
[76, 77, 79-81, 83, 85, 88]	Healthy Nordic food index	0 - 6 (low adherence – high adherence)	Fish, cabbage, root vegetables, rye bread, oatmeal, apples, pears	Population based	A priory chosen food items due to expected beneficial health effects
[78,84, 89]	Diet quality index (DQI) that assesses adherence to the Swedish nutrition recommendations (SNR) and the Swedish dietary guidelines (SDG) (DQI-SNR)	0-6 (0 or 1 low, 2 or 3 medium, 4-6 high score)	SFA*, PUFA*, fish and shellfish dietary fiber, fruit and vegetables, and sucrose. *SFA and PUFA as indicators of fat intake	Serving based	Swedish nutrition recommendations, Swedish dietary guidelines
[82]	Nordic diet score	0-18 (0-7, 8-10,11-18 low adherence – high adherence)	Fish, cabbage and cruciferous vegetables, root vegetables, potatoes, whole grain and rye bread, berries, apples, pears, low-fat dairy products, vegetable fats (excluding olive oil)	Population based	Healthy Nordic Food Index, New Nordic Diet, The Baltic Sea diet score
[87]	Baltic Sea Diet Score	Population-based consumption quartiles or medians as cut-offs	Berries, apples, pears, tomato, cucumber, cabbage, roots, peas, lettuce, rye, oats, barley, fat- free milk and milk < 2% fat, salmon, freshwater fish, beef, pork, processed meat products, sausages, total fat as a percentage of total energy intake Ratio of PUFA to SFA + trans-fatty acids Ethanol	Population based	Baltic Sea Diet Pyramid, Nordic multicenter SYSDIET study

[90]	Modified Baltic Sea Diet Score	2-25 (2–10, 11–12, 13–15, 16–25 low adherence – high adherence)	All fruits, berries, roots, pulses, vegetables, whole grains, fat-free milk and milk < 2% fat, salmon, freshwater fish, processed and unprocessed meat, total fat as a percentage of total energy intake Ratio of PUFA to SFA + trans-fatty acids Ethanol	Population based	Baltic Sea Diet Score
[86]	Danish food-based dietary guidelines	Q1-Q5 (Very high-Q1, high, intermediate, low, very low adherence-Q5)	High intakes of unsaturated fats, vegetables, fruits, fish Low intakes for sugar sweetened beverages, cold meat cuts and fast food.	Serving based	Danish food-based dietary guidelines

ESM Table 7. Confounding variables of included cohorts.

Study	Gunge et al. 2017 Danish Diet, Cancer and Health cohort	Warensjo Lemming et al. 2018 Swedish Mammography Cohort	Lassale et al. 2016 EPIC	Drake et al. 2013 Malmö Diet and Cancer cohort	Hansen et al. 2017 Danish Diet, Cancer and Health cohort	Puaschitz et al. 2019 Western Norway B- vitamin Intervention Trial	Hlebowicz et al. 2013 Malmö Diet and Cancer cohort	Roswall et al. 2015 Swedish Women's Lifestyle and Health Cohort [93]
Number of variables in fully adjusted model	17	7	7	12	12	9	8	11
Number of multivariable models presented	4	2	2	2	3	3	2	4
Timing of measurement of confounding variables	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline
Pre-specified primary confounding variables								
Age	√	\checkmark	\checkmark	✓	✓	\checkmark	✓	√
Pre-specified secondary confounding variables								
Sex	√	✓	√	✓	✓	✓	✓	✓
Body mass index, weight	√	✓	√	✓	✓			✓
Waist circumference	√			✓	✓		✓	
Family history of CVD								
Energy Intake	√	✓		√		\checkmark		\checkmark
Smoking	✓	✓	\checkmark	✓	√	\checkmark	✓	√
Exercise/physical activity	√	\checkmark	\checkmark	✓	✓	\checkmark	✓	
Diabetes/Dysglycemia					✓	✓		
Dyslipidemia	√				✓			
Hypertension/SBP	\checkmark				✓	\checkmark	✓	
Other confounding variables								
Education	✓	✓	√	✓	✓		✓	✓
Alcohol				✓	✓	\checkmark	✓	\checkmark
Alcohol from wine	✓							
Alcohol from beer/spirits	\checkmark							_
Total Cholesterol	✓				✓			
Non-fermented milk		✓						
Meat, red meat	√							\checkmark
Hormonal replacement therapy	√							
Menopause	√							
Method of assessment				✓			✓	
Cohabiting status		\checkmark		√			\checkmark	
Processed meat consumption	√							\checkmark
Tobacco consumption								\checkmark
Time since cessation of smoking	✓							\checkmark
Charlson's comorbidity index		✓						
Other	Time under study	Diet score, non- fermented milk	Study centre	Season	Atrial fibralation	Statin use	Economic status, Season	

ESM Table 7. Confounding variables of included cohorts (continued).

Study	Mandalazi et al. 2016 Malmö Diet and Cancer cohort	Karneva et al. 2014 Helsinki Birth Cohort Study, Health 2000 Survey	Ewers et al. 2020 the Copenhagen General Population Study	Lacoppidan et al. 2015 Danish Diet, Cancer and Health cohort	Tertsunen et al. 2020 Kuopio Ischaemic Heart Disease Risk Factor Study	Roswall et al. 2015 Swedish Women's Lifestyle and Health Cohort [92]	Galbete et al. 2018 EPIC- Potsdam
Number of variables in fully adjusted model	10	8	11	9	9	12	12
Number of multivariable models presented	5	3	3	4	2	4	2
Timing of measurement of confounding variables	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline
Pre-specified primary confounding variables							
Age	\checkmark	✓	√	✓	√	✓	✓
Pre-specified secondary confounding variables							
Sex	✓	\checkmark	✓	✓	√	✓	✓
Body mass index, weight	✓		✓	✓		✓	
Waist circumference	✓						
Family history of CVD							
Energy Intake		✓		✓	✓	✓	✓
Smoking	✓	✓	√	√	√	√	\checkmark
Exercise/physical activity	✓	✓	✓	✓	√		✓
Diabetes/Dysglycemia			✓			√	
Dyslipidemia	✓						
Hypertension/SBP	✓		✓			✓	✓
Other confounding variables							
Education	✓	✓	✓	✓	✓	✓	✓
Alcohol	✓		√	√		√	\checkmark
Alcohol from wine							
Alcohol from beer/spirits							
Total Cholesterol							
Non-fermented milk							
Meat, red meat				✓			
Hormonal replacement therapy							
Menopause							
Method of assessment							
Cohabiting status							
Processed meat consumption						√	
Tobacco consumption						√	
Time since cessation of smoking						√	
Charlson's comorbidity index							
Other	season, method of dietary assesment	Abdominal obesity, vitamin D intake	LDL-Cholesterol, Income		Income, marital status, examination year		Multivitamin

Study	Selection ^a	Outcome ^b	Comparability ^c	Total ^d
The Danish Diet, Cancer and Health cohort [76]	3	3	1	7
Swedish Mammography Cohort [81]	2	3	1	6
EPIC [85]	3	3	1	7
Malmö Diet and Cancer cohort [84]	4	3	1	8
The Danish Diet, Cancer and Health cohort [77]	3	3	2	8
Western Norway B-vitamin Intervention Trial [83]	3	3	1	7
EPIC-Potsdam [82]	3	3	1	7
Malmö Diet and Cancer cohort [78]	4	3	1	8
Swedish Women's Lifestyle and Health Cohort [83]	2	3	1	6
Swedish Women's Lifestyle and Health Cohort [82]	3	3	1	7
Malmö Diet and Cancer cohort [89]	3	4	1	8
Helsinki Birth Cohort Study, Health 2000 Survey [87]	3	4	1	8
The Copenhagen General Population Study [86]	3	3	2	8
The Danish Diet, Cancer and Health Cohort Study [88]	3	3	2	8
Kuopio Ischaemic Heart Disease Risk Factor Study [90]	3	3	2	8

ESM Table 8. Newcastle-Ottawa Scale (NOS) scores of included cohorts.

Abbreviations: EPIC=European Prospective Investigation into Cancer and Nutrition

^aMaximum 4 points awarded for cohort representativeness, selection of non-exposed cohort, exposure assessment, and demonstration outcome not present at baseline

^bMaximum 3 points awarded for follow-up length, adequacy of follow-up, and outcome assessment ^cMaximum 2 points awarded for controlling for the pre-specified primary confounding variable (age) and 4 of the 5 secondary (markers of overweight/obesity, family history of diabetes, energy intake, physical activity, sex) confounding variables

^dA maximum of 9 points could be awarded. Cohorts with NOS ≥ 6 are considered high quality.

ESM Table 9. Selected sensitivity analyses in which the systematic removal of a cohort study altered the significance of the effect estimate or the evidence for heterogeneity.

Outcome	Removal of	MD [95% CI], P _{MD} I ² , P _Q			
	Roswall et al. 2015 [83] ^b	$\begin{array}{c} 0.70 \; [0.61, 0.81], P_{MD}\!\!<\!\! 0.001, \\ I^2\!\!=\!\!0\%, \; P_Q\!\!=\!\!0.63 \end{array}$			
CVD INCIDENCE	Hlebowicz et al. 2013 - Males ^c	0.96 [0.90, 1.02], P _{MD} =0.16 I ² =85%, P _Q =0.01			
	Hlebowicz et al. 2013 - Females ^c	$\begin{array}{c} 0.95 \ [0.89, 1.01], P_{MD} = 0.08 \\ I^2 = 92\%, P_Q < 0.001 \end{array}$			
T2DM INCIDENCE	Lacoppidan et al. 2015 – Males ^b	1.01 [0.93, 1.09], P _{MD} =0.89 I ² =0%, P _Q =0.59			
	Roswall et al. 2015 [83] ^a	$\begin{array}{c} 0.82 \; [0.68, 0.97], P_{MD} = 0.02 \\ I^2 = 27\%, P_Q = 0.25 \end{array}$			
CHD INCIDENCE	Gunge et al. 2017 ^b	$\begin{array}{c} 0.96 \ [95\% \ CI \ 0.85, \ 1.09], \ P_{MD} \!\!=\!\! 0.51, \ I^2 \!\!=\! 7\%, \\ P_Q \!\!=\! 0.36. \end{array}$			
STROKE INCIDENCE	Hansen et al. 2017 °	0.86 [0.82, 1.17], P _{MD} =0.80 I ² =0%, P _Q =0.96			
	Galbete et al. 2018 °	0.88 [0.75, 1.03], P=0.10 I ² =36%, P _Q =0.21			

 $P_{\text{MD}}, \text{mean difference } p\text{-value}, P_{\text{Q}}, \text{Cochrane } Q \text{ } p\text{-value}, \text{T2DM}, \text{Type 2 Diabetes Mellitus}.$

^a removal of this study results in significance of the overall effect

^b removal of this study explains heterogeneity

^c removal of this study results in a loss of significance of the overall effect

ESM Table 10. Characteristics of included RCTs.

Study, Year	Intervention , Control	Participants (M, W)	Mean age, y (SD or range)	Baseline BMI (kg/m ²), mean (SD)	Baseline LDL-C (mmol/L), mean (SD)	Setting	Design	Feeding Control ^a	Intervention or Comparator	Diet (% C:F:P) ^b	Energy Balance ^c	Outcome	Follow-up duration, weeks	Funding Sources ^e
Gotfredsen et	Intervention	72 individuals with IHD Risk Factors (29M, 43W)	51.8 (9.8)	26.9 (3.6)	3.10 (0.91)				Official dietary guidelines	Not available		HbA1c, Glucose, Insulin, LDL-C, HDL-		
al. 2020	Control	73 individuals with IHD Risk Factors (30M, 43W)	49.2 (9.8)	26.5 (3.9)	3.24 (0.76)	Denmark	Parallel	DA	Habitual diet	Not available	Neutral	C,**Non- HDL-C, TG, BW, BMI WC, SBP, DBP, CRP	24	A
	Intervention	91 OB	42.7 (13.1)*	30.1 (4.6)*	2.95 (0.84)*				New Nordic Diet	52:30:18		Glucose, Insulin,		
Poulsen et al. 2014	Control	56 OB	41.0 (13.0)*	30.5 (5.3)*	2.96 (0.81)*	Denmark	Parallel	Suppl	Average Danish Diet	50:35:15	Neutral	LDL-C, HDL-C, TG, BW, WC, SBP, DBP, CRP	26	A, I
Uusitupa	Intervention	96 MetS (~29M, 67W)	54.0 (8.5)*	31.6 (3.5)*	3.25 (0.80)	Nordic			Healthy Nordic Diet	45-52:30-35: 18-20		Glucose, LDL-C, Non-HDL-C,	18 (24-wk	
et al. 2013	Control	70 MetS (~21M, 49W)	54.9 (8.6)*	31.7 (2.8)*	3.21 (0.89)	Countries [†]	Parallel	Suppl, DA	Usual Nordic diet	45-47:35:18- 20	Neutral	HDL-C TG, ApoB BW, SBP, DBP, CRP	for 2 sites)	A, I
	Intervention	44 mildly HC (17M, 27W)	52.6 (7.8)	26.3 (3.2)	4.0 (0.6)				Healthy Nordic Diet	45-60:25- 35:10-20		Glucose, Insulin, LDL-C,		
Adamsson et al. 2010	Control	42 mildly HC (15M, 27W)	53.4 (8.1)	26.5 (3.3)	4.2 (1.0)	Sweden	Parallel	Suppl to ND only	Usual Western diet	NR	Neutral	HDL- C,**Non- HDL-C, TG, ApoB BW, BMI SBP, DBP, CRP	6	А
Huseinovic	Intervention	47 OW postpartum (0M, 47W)	31.8 (4.5)*	31.8 (4.0)	NR	Sweden	Parallel	DA, text messages and phone calls	Nordic Nutrition Recommend ations 2004	50- 60:<30:10- 20	Negative	BW, BMI, WC	12	А
et al.2016	Control	53 OW postpartum (0M, 53W)	32.6 (4.7)*	31.6 (3.4)	NR			DA only	General healthy eating	NR	,	wC		
Due	Intervention	48 OW/OB (~21M, 27W)	27.3 (4.9)*	31.6 (2.7)*	2.78 (0.81)	Denmark	Parollal	Suppl, DA	Nordic Nutrition Recommend ations 2004	60:25:15	Neutral	Glucose, Insulin, LDL-C, **Non-	~24	A, I
et al. 2008	Control	25 OW/OB (~11M, 14W)	27.6 (5.1)*	31.3 (2.5)*	2.71 (0.71)	репшатк	Denmark Parallel S	Suppi, DA	Average Danish Diet	50:35:15	incutrat	HDL-C, HDL-C TG , BW, BMI WC, CRP	~24	A, I

"IHD, Ischemic Heart Disease; A, agency; C, carbohydrate; DA, dietary advice; F, fat; HC, hypercholesterolemia; I, industry; M, men; MetS, metabolic syndrome; ND, Nordic diet intervention; NR, not reported; OB, obese; OW, overweight; P, protein; Suppl, supplemental feeding control; W, women; BW, body weight; WC, waist circumference; TG, triglycerides; ApoB, apoprotein B; SBP and DBP, systolic and diastolic blood pressure; CRP, c-reactive protein.

a Supplemental regimental regimentation of some meals and foods consumed during the study. Dictates, ripsd, up (DA) is the provision of counseling on the appropriate intervention and control diets.

b Planned macronutrient composition of intervention and control diets.

c Negative energy balance refers to a deficit in normal energy intake and/or intake below energy requirements. Neutral energy balance refers to the maintenance of usual energy intake and/or meeting energy requirements.

d For ROB, an assessment was performed using the Cochrane Risk of Bias tool, including the evaluation of individual domains of risk of bias (sequence generation, allocation concealment, blinding of participants/ personnel and outcome assessors, incomplete outcome data, selective outcome reporting). Each of the 5 domains was evaluated as either low, high or unclear ROB and the overall ROB category was determined based on the most selected category.

e Agency funding is that from government, university, or not-for-profit sources. Industry funding is that from trade organizations that obtain revenue from the sale of products.

* Calculated before dropout

** Non-HDL-C calculated

†Finland, Sweden, Denmark, Iceland

ESM Table 11. Selected sensitivity analyses in which the systematic removal of an individual trial altered the significance of the effect estimate or the evidence for heterogeneity.

Outcome	Removal of	MD [95% CI], P _{MD} I ² , P _Q
BLOOD LIPIDS		
	Adamsson et al. 2010 ^{b,c}	-0.10 [-0.19, -0.02], P _{MD} =0.02 88%, P _Q =0.64
LDL-C, (mmol/l)	Due et al. 2008 ^c	-0.29 [-0.61, 0.02], P _{MD} =0.06 92%, P _Q <0.001
LDL-C, (mm0//1)	Poulsen et al. 2014 ^c	-0.61 [-1.66, -0.45], P _{MD} =0.26 57%, P _Q =0.1
	Uusitupa et al. 2013°	-0.30 [-0.65, 0.05], P _{MD} =0.10 92%, P _Q <0.001
Non-HDL-C, (mmol/l)	Adamsson et al. 2010 ^{b,c}	-0.14 [-0.48, 0.20], P _{MD} =0.42 0%, P _Q =1
HDL-C, (mmol/l)	Adamsson et al. 2010 ^b	-0.00 [-0.04, 0.04], P _{MD} =0.92 32%, P _Q =0.22
	Adamsson et al. 2010 ^{a,b}	-0.09 [-0.16, -0.01], P _{MD} =0.02 0%, P _Q =0.4
Triglycerides, (mmol/l)	Poulsen et al. 2014 ^c	-0.01 [-0.09, 0.08], P _{MD} =0.90 0%, P _Q =0.52
Apo-B, (g/l)	Adamsson et al. 2010 ^c	-0.04 [-0.10, 0.02], P _{MD} =0.19 n/a
ADIPOSITY		
BMI, (kg/m ²)	Due et al. 2008 ^b	-1.04 [-1.27, -0.82], P _{MD} =0.008 0%, P _Q =0.60
	Poulsen et al. 2014 ^c	-0.61 [-1.66, -0.45], P _{MD} =0.26 57%, P _Q =0.1
Waist circumference, (cm)	Gotfredsen et al. 2020 ^b	-2.49 [-3.66, -1.33], P _{MD} <0.001 0%, P _Q =0.60
BLOOD PRESSURE	· · · · · · · · · · · · · · · · · · ·	
Diastolic blood pressure, (mmHg)	Gotfredsen et al. 2020 ^b	-2.32 [-3.83, -0.82], P _{MD} =0.39 0%, P _Q =0.002
	Poulsen et al. 2014 ^{b,c}	-1.02 [-2.29, 0.25], P _{MD} =0.11 0%, P _Q =0.37
INFLAMMATION		
CRP, (nmol/l)	Poulsen et al. 2014 ^b	-0.02 [-0.43, 0.39], P _{MD} =0.92 0%, P _Q =0.51

CRP, c-reactive protein; MD, mean difference

^a removal of this study results in significance of the overall effect

^b removal of this study explains heterogeneity

^c removal of this study results in a loss of significance of the overall effect

ESM Table 12. GRADE assessment for the association between Nordic dietary patterns and cardiometabolic disease outcomes for prospective cohort studies.

Outcome	Cohort comparisons, <i>n</i>	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	RR (95% CI)	Certainty	Interpretation of the magnitude of the association
CVD incidence	3	not serious	serious ^a	not serious	serious ^b	dose response gradient ^c	$\begin{array}{c} 0.93 \; (0.88, 0.99)^{\rm l} \\ 0.93 \; (0.88, 0.99)^{\rm m} \end{array}$	⊕⊕⊖⊖ LOW	Small important
CVD mortality	8	not serious	not serious	not serious	not serious	dose response gradient ^d	$\begin{array}{c} 0.81 \ (0.73, \ 0.90)^l \\ 0.74 \ (0.69, \ 0.80)^m \end{array}$	MODERATE	Moderate
СНД	5	not serious	not serious ^e	not serious	serious ^f	dose response gradient ^g	$\begin{array}{c} 0.88\ (0.72, 1.06)^l \\ 0.88\ (0.79, 0.98)^m \end{array}$	LOW	Small important
Stroke	3	not serious	not serious	not serious	serious ^h	dose response gradient ⁱ	$\begin{array}{c} 0.88\ (0.79,\ 0.98)^{\rm l}\\ 0.87\ (0.78,\ 0.97)^{\rm m} \end{array}$	⊕⊕⊖⊖ LOW	Small important
T2D	6	not serious	not serious	not serious	serious ^j	dose response gradient ^k	$\begin{array}{c} 0.96~(0.86,1.06)^l\\ 0.91~(0.84,0.99)^m\end{array}$	LOW	Small important

Cohorts start at low-certainty evidence from which the evidence can be upgraded or downgraded based on prespecified criteria. Criteria to upgrade included a dose-response gradient, large magnitude of the effect (RR >2 or RR <0.5 and attenuation by plausible confounding. Criteria to downgrade included study limitations (NOS [46]); inconsistency (substantial unexplained inter-study heterogeneity, I²> 50% and Po<0.10); indirectness (presence of factors relating to the population, exposures and outcomes that limit generalizability), imprecision (95% CIs for pooled estimates crossed prespecified MIDs, as shown in the table, and publication bias (significant detection of small-study effects).

a. Downgrade applied due to serious inconsistency ($I^2 = 88\%$, P=0.0002).

b. Downgrade for serious imprecision for CVD incidence, as the 95% CI [0.88, 0.99] overlap with the minimally important difference for clinical benefit (RR=0.95).

c. Upgrade for a dose-response gradient, as the GLST analysis revealed a significant linear inverse relationship between the Nordic diet and incident CVD (P<0.001).

d. Upgrade for a dose-response gradient, as the GLST analysis revealed a significant linear inverse relationship between the Nordic diet and CVD mortality (P<0.001).

e. No downgrade for serious inconsistency for the relation of adherence of the Nordic dietary pattern with CHD incidence, as although there was evidence of substantial heterogeneity (1² = 58% (P₀=0.05).), removal of the Danish Diet, Cancer and Health women cohort explained most of the heterogeneity (I²=7%, P=0.36) without altering the direction, magnitude or significance of the pooled effect estimate (RR 0.96 [95% CI 0.85, 1.09], P=0.51).

f. Downgrade for serious imprecision for CHD incidence, as the 95% CI [0.72, 1.06] overlap with the minimally important difference for clinical benefit (RR=0.95) and harm (RR=1.05).

g. Upgrade for a dose-response gradient, as the GLST analysis revealed a significant linear inverse relationship between the Nordic diet and incident CHD (P<0.001)

h. Downgrade for serious imprecision for stroke incidence, as the 95% CI [0.79, 0.98] overlap with the minimally important difference for clinical benefit (RR=0.95). i. Upgrade for a dose-response gradient, as the GLST analysis revealed a significant linear inverse relationship between the Nordic diet and incident stroke (P<0.001).

j. Downgrade for serious imprecision for T2D incidence, as the 95% CI [0.86, 1.06] overlap with the minimally important difference for clinical benefit (RR=0.95) and harm (RR=1.05).

k. Upgrade for a dose-response gradient, as the GLST analysis revealed a significant linear inverse relationship between the Nordic diet and incident stroke (P<0.001).

l. Extreme quantiles.

m. Global dose-response meta-analysis (DRM) estimates.

ESM Table 13. NutriGRADE Assessment for association of Nordic dietary patterns with cardiometabolic outcomes in Cohort studies.

			Quality assessment (points; Max 10)										
Outcome	Cohort comparisons, n [Number of events/Participa nts]	Risk of bias, study quality and study limitations Assessed using NOS as shown in table 6	Precision**	Heterogeneit y	Directness	Publication Bias	Funding Bias	Effect Size Important benefit was defined as RR of <0.8 and harm RR of > 1.2	Dose Response	Pooled Effect Estimate RR (95% CI)	Meta- evidence (Final point)		
CVD incidence	3 10,279/60,436	1	1	0	1	0	1	0	1	0.93 (0.88, 0.99)	5 Low		
Reasons		Low risk of bias	≥500 participants or ≥500 events were included, and the 95% CI excludes the null value	2-5 studies x multiply by 0		Publication bias not assessed		No point was awarded because effect estimate showed small effect size (RR: 0.80 - 1.20).	1 point was awarded for the dose-response association.				
CVD mortality	8 11,146/639,086	1	1	0.5	1	0	1	0	1	0.81 (0.73, 0.90)	5.5 Low		
Reasons		Low risk of bias	≥500 participants or ≥500 events were included, and the 95% CI excludes the null value	.5 point was awarded for reporting no important heterogeneity (I ² <40%) from 8 cohort comparisons (multiplier: 1).		Publication bias not assessed		No point was awarded because effect estimate showed small effect size (RR: 0.80 - 1.20).	1 point was awarded for the dose-response association.				
CHD	5 3960/123,382	1	1	0	1	0	1	0	1	0.88 (0.72, 1.06)	5 Low		
Reasons		Low risk of bias	≥500 events were included, but 95% CI overlaps the null value and 95% CI excludes important benefit (RR <0.8) or harm (RR >1.2).	2-5 studies x multiply by 0		Publication bias not assessed		No point was awarded because effect estimate showed small effect size (RR: 0.80 - 1.20).	l point was awarded for the dose-response association.				
Stroke	3 3302/122,133	1	1	0.5	1	0	1	0	1	0.88 (0.79, 0.98)	5.5 Low		

Reasons		Low risk of bias	≥500 participants or ≥500 events were included, and the 95% CI excludes the null value			Publication bias not assessed		No point was awarded because effect estimate showed small effect size (RR: 0.80 - 1.20).	l point was awarded for the dose-response association.		
T2DM	6 13,121/112,157	1	1	0.2	1	0	1	0	1	0.96 (0.86, 1.06)	5.2 Low
Reasons		Low risk of bias	≥500 events were included, but 95% CI overlaps the null value and 95% CI excludes important benefit (RR <0.8) or harm (RR >1.2).	0.1 score each for reporting I2, random effects and multiplier 1 for 6-9 studies.		Publication bias not assessed		No point was awarded because effect estimate showed small effect size (RR: 0.80 - 1.20).	1 point was awarded for the dose-response association.		

Reference: Schwingshackl L, Knüppel S, Schwedhelm C, Hoffmann G, Missbach B, Stelmach-Mardas M, Dietrich S, Eichelmann F, Kontopantelis E, Iqbal K, Aleksandrova K, Lorkowski S, Leitzmann MF, Kroke A, Boeing H. Perspective: NutriGrade: A Scoring System to Assess and Judge the Meta-Evidence of Randomized Controlled Trials and Cohort Studies in Nutrition Research. Adv Nutr 2016;7:994-

ESM Table 14. GRADE assessment for the effect of Nordic dietary patterns and cardiometabolic risk factors in RCTs.

						Quality assessm Downgrade					
LDL-C, mmol/L5RCTsnot seriousserious ¹ not seriousserious ² not serious-0.26 [-0.52, -0.00], p=0.050Small important effectNon-HDL-C, mmol/L4RCTsnot seriousserious ³ not seriousnot seriousnot serious-0.69 [-0.90, -0.48], p < 0.0001Large effectHDL-C, mmol/L5RCTsnot seriousnot seriousnot seriousnot seriousnot seriousnot serious-0.03 [-0.10, 0.03], p=0.35No effectHDL-C, mmol/L5RCTsnot seriousnot seriousnot seriousnot seriousnot serious-0.05 [-0.14, 0.05], p=0.34No effectHole, g/L2RCTsnot seriousserious ⁶ not seriousnot serious-0.05 [-0.19, -0.11], p<0.0001Moderate effectGlycemic controlHbA1c, %1RCTsnot seriousnot seriousnot seriousnot seriousnot seriousnot seriousHbA1c, %1RCTsnot seriousnot seriousnot seriousnot seriousnot seriousnot seriousnot seriousHbA	Outcome	Studies	Study design	Risk of bias	Inconsistency	ů		Publication Bias ^a	- Effect (MD [95%CI], Рмо)	Interpretation of magnitude of effect ^b	Quality
Non-HDL-C, mmol/L4RCTsnot seriousserious ³ not seriousnot seriousn	Blood lipids										
HDL-C, mmol/L5RCTsnot seriousnot	LDL-C , mmol/L	5	RCTs	not serious	serious1	not serious	serious ²	not serious	-0.26 [-0.52, -0.00], p=0.050	Small important effect	LOW
Triglycerides, mmol/L ApoB, g/L5RCTs not seriousnot serious seriousnot serious not seriousserious seriousnot serious not seriousnot serious 	Non-HDL-C , mmol/L	4	RCTs	not serious	serious ³	not serious	not serious	not serious	-0.69 [-0.90, -0.48], p <0.0001	Large effect	MODERATE
ApoB, g/L2RCTsnot seriousserious ⁶ not serious ⁷ not seriousnot serious-0.15 [-0.19, -0.11], p<0.0001Moderate effectGlycemic controlHbA1c, %1RCTsnot seriousnot seriousnot seriousnot serious0.01 [-0.06, 0.08], p=0.79No effectFasting glucase, mmol/L5RCTsnot seriousnot seriousnot seriousnot seriousnot seriousnot seriousFasting insulin , pmol/L4RCTsnot seriousnot seriousnot seriousnot seriousnot seriousAdiposityBody weight, kg6RCTsnot seriousnot seriousnot seriousnot serious-2.00 [-3.24, -0.75], p=0.002Moderate effectBMI, kg/m ² 4RCTsnot seriousnot seriousnot seriousnot seriousnot serious-2.00 [-3.24, -0.75], p=0.002Moderate effectBody meight, kg6RCTsnot seriousnot seriousnot seriousnot seriousnot serious-2.00 [-3.24, -0.75], p=0.002Moderate effectBody meight, kg6RCTsnot seriousnot seriousnot seriousnot serious-2.00 [-3.24, -0.75], p=0.002Moderate effectBody meight, kg6RCTsnot seriousnot seriousnot seriousnot serious-1.32 [-2.20, -0.43], p=0.003Small important effectBlood pressureSystolic, mmHg4RCTsnot serious	HDL-C , mmol/L	5	RCTs	not serious	not serious ⁴	not serious	not serious	not serious	-0.03 [-0.10, 0.03], p=0.35	No effect	HIGH
Glycemic control Interference in accord and a model of the serious in the serious is in the serious in the serious in the serious is in the serious in the serious in the serious is in the serious in the serious in the serious is in the serious is in the serious in the serious is in the serious is in the serious in the serious is is in the serious is is in the serious is	Triglycerides, mmol/L	5	RCTs	not serious	not serious	not serious	serious⁵	not serious	-0.05 [-0.14, 0.05], p=0.34	No effect	MODERATE
HbA1c, %1RCTsnot seriousnot seriousseriousnot seriousnot serious 0.01 [-0.06, 0.08], p=0.79No effectFasting glucose, mmol/L5RCTsnot seriousnot seriousnot seriousnot serious -0.04 [-0.10, 0.02], p=0.46No effectFasting insulin, pmol/L4RCTsnot seriousnot seriousnot serious -7.83 [-12.26, -3.39], p=0.0005Small important effectAdiposityBody weight, kg6RCTsnot seriousseriousnot seriousnot serious -2.00 [-3.24, -0.75], p=0.002Moderate effectBM/l, kg/m ² 4RCTsnot seriousnot seriousnot seriousnot serious -0.98 [-1.19, -0.77], p<0.0001	АроВ , g/L	2	RCTs	not serious	serious ⁶	not serious ⁷	not serious	not serious	-0.15 [-0.19, -0.11], p<0.0001	Moderate effect	MODERATE
Fasting glucose , mmol/L5RCTsnot seriousnot serious <td>Glycemic control</td> <td></td>	Glycemic control										
Fasting insulin , pmol/L 4 RCTs not serious not serious serious ¹⁰ not serious -7.83 [-12.26, -3.39], p=0.0005 Small important effect Adiposity Body weight , kg 6 RCTs not serious serious ¹¹ not serious not serious not serious not serious not serious not serious -7.83 [-12.26, -3.39], p=0.0005 Small important effect Body weight , kg 6 RCTs not serious serious ¹¹ not serious not serious not serious -2.00 [-3.24, -0.75], p=0.002 Moderate effect BMI , kg/m ² 4 RCTs not serious serious ¹³ not serious -2.00 [-3.24, -0.75], p=0.002 Small important effect Waist circumference , cm 4 RCTs not serious ¹² not serious serious ¹³ not serious serious ¹³ not serious -1.32 [-2.20, -0.43], p=0.003 Trivial effect Blood pressure Systolic, mmHg 4 RCTs not serious not serious serious ¹⁴ not serious -3.35 [-5.12, -1.59], p=0.0002 Small importan	HbA1c,%	1	RCTs	not serious	not serious ⁸	serious ⁹	not serious	not serious	0.01 [-0.06, 0.08], p=0.79	No effect	MODERATE
Adiposity Adiposity Body weight, kg 6 RCTs not serious serious ¹¹¹ not serious not serious not serious -2.00 [-3.24, -0.75], p=0.002 Moderate effect BMI, kg/m ² 4 RCTs not serious not serious not serious not serious -0.98 [-1.19, -0.77], p<0.0001	Fasting glucose , mmol/L	5	RCTs	not serious	not serious	not serious	not serious	not serious	-0.04 [-0.10, 0.02], p=0.46	No effect	HIGH
Body weight , kg 6 RCTs not serious serious ¹¹ not serious not serious not serious -2.00 [-3.24, -0.75], p=0.002 Moderate effect BMI , kg/m ² 4 RCTs not serious not serious not serious not serious not serious not serious -2.00 [-3.24, -0.75], p=0.002 Small important effect Waist circumference , cm 4 RCTs not serious ¹² not serious serious ¹³ not serious -1.32 [-2.20, -0.43], p=0.003 Trivial effect Blood pressure Systolic, mmHg 4 RCTs not serious not serious serious ¹⁴ not serious -3.35 [-5.12, -1.59], p=0.0002 Small important effect	Fasting insulin , pmol/L	4	RCTs	not serious	not serious	not serious	serious ¹⁰	not serious	-7.83 [-12.26, -3.39], p=0.0005	Small important effect	MODERATE
BMI, kg/m ² 4 RCTs not serious not serious not serious not serious not serious not serious -0.98 [-1.19, -0.77], p<0.0001	Adiposity										
Waist circumference, cm 4 RCTs not serious not serious serious ¹² not serious serious ¹³ not serious -1.32 [-2.20, -0.43], p=0.003 Trivial effect Blood pressure Systolic, mmHg 4 RCTs not serious not serious serious ¹⁴ not serious -3.35 [-5.12, -1.59], p=0.0002 Small important effect	Body weight , kg	6	RCTs	not serious	serious ¹¹	not serious	not serious	not serious	-2.00 [-3.24, -0.75], p=0.002	Moderate effect	MODERATE
Blood pressure Systolic, mmHg 4 RCTs not serious not serious serious ¹⁴ not serious -3.35 [-5.12, -1.59], p=0.0002 Small important effect	<i>BMI</i> , kg/m ²	4	RCTs	not serious	not serious	not serious	not serious	not serious	-0.98 [-1.19, -0.77], p<0.0001	Small important effect	HIGH
<i>Systolic,</i> mmHg 4 RCTs not serious not serious not serious serious ¹⁴ not serious -3.35 [-5.12, -1.59], p=0.0002 Small important effect	Waist circumference , cm	4	RCTs	not serious	not serious ¹²	not serious	serious ¹³	not serious	-1.32 [-2.20, -0.43], p=0.003	Trivial effect	MODERATE
	Blood pressure										
Diastolic, mmHg 4 RCTs not serious not serious not serious serious ¹⁵ not serious -1.50 [-2.62, -0.37], p=0.009 Trivial effect	Systolic, mmHg	4	RCTs	not serious	not serious	not serious	serious ¹⁴	not serious	-3.35 [-5.12, -1.59], p=0.0002	Small important effect	MODERATE
	<i>Diastolic,</i> mmHg	4	RCTs	not serious	not serious	not serious	serious ¹⁵	not serious	-1.50 [-2.62, -0.37], p=0.009	Trivial effect	MODERATE
Inflammation	Inflammation										
CRP, nmol/L 5 RCTs not serious not serious ¹⁶ not serious serious ¹⁷ not serious -1.91 [-6.37, 2.55], p=0.4 No effect	CRP, nmol/L	5	RCTs	not serious	not serious ¹⁶	not serious	serious ¹⁷	not serious	-1.91 [-6.37, 2.55], p=0.4	No effect	MODERATE

Apo-B, apolipoprotein-B; BMI, body mass index; CI, confidence interval; CRP, c-reactive protein; HbA1c, hemoglobin A1c; LDL-C, low density lipoprotein cholesterol; HDL-C, high density lipoprotein cholesterol; MD, mean difference; N/A, not applicable; Non-HDL-C, non-high density lipoprotein cholesterol; RCTs, randomized controlled trials, Small important: quantitative small but important association; Trivial: quantitative small but biologically/clinical unimportant association a No downgrades were made for publication bias, as publication bias could not be assessed due to lack of power for assessing funnel plot asymmetry and small study effects (<10 trials included in the meta-analysis).

^b We used prespecified MIDs to interpret the magnitude of the effect of the pooled estimate with effect size language defined by GRADE. MIDs for RCT outcomes were: 0.1 mmol/L for LDL-C, non-HDL-C, and TG [50-52]; 0.04 g/L for ApoB; 0.3% for HbA1c; 0.5 mmol/L for fasting blood glucose[53], 5 pmol/L for fasting insulin; 0.5 kg for body weight[54, 55]; 0.2 kg/m2 for BMI; 2 cm for WC; 2 mmHg for SBP and DBP[56]; and 0.5 mg/L for CRP[57, 58]]), and publication bias (significant detection of small-study effects)

^c Since all included trials were randomized controlled trials, the certainty of the evidence was graded as high for all outcomes by default and then downgraded or upgraded based on pre-specified criteria. Criteria for downgrades included risk of bias (downgraded if the majority of trials were considered to be at high risk of bias by the Cochrane ROB tool); inconsistency (downgraded if there was substantial unexplained heterogeneity [$l^2 \ge 50\%$, pQ < 0.10]; indirectness (downgraded if there were factors absent or present relating to the participants, interventions, or outcomes that limited the generalizability of the results); imprecision (downgraded if the 95% confidence interval crossed the minimally important difference [MID] as in b; and publication bias (downgraded if on funce of substantial heterogeneity ($l^2 = 89\%$ and P<0.001).

² Downgrade for serious imprecision for the effect of Nordic diets on LDL-C, as the 95% CIs (-0.52, -0.00 mmol/L) overlap with the minimally important difference for clinical benefit (0.1 mmol/L).

³ Downgrade for serious inconsistency for the effect of Nordic diets on Non-HDL-C, as there was evidence of substantial heterogeneity ($I^2 = 91\%$ and P<0.001), and although removal of Adamsson et al. explained the heterogeneity ($I^2=0\%$, PQ=1), the magnitude of the pooled effect estimate was decreased and significance was lost (MD=-0.14mmol/L, 95% CI:-0.48, 0.20, P=0.42).

⁴ No downgrade for serious inconsistency for the effect of Nordic diets on HDL-C, as although there was evidence of substantial heterogeneity ($l^2 = 80\%$ and P=0.0005), removal of Adamsson et al. explained the heterogeneity ($l^2=32\%$, P=0.22), without altering the direction, magnitude, or significance of the pooled effect estimate (MD=-0.00mmol/L, 95% CI: -0.04, 0.04, P=0.92).

⁵ Downgrade for serious imprecision for the effect of Nordic diets on triglycerides, as the 95% CIs (-0.14, 0.05 mmol/L) overlap with the minimally important difference for clinical benefit (0.1 mmol/L).

⁶ Downgrade for serious inconsistency for the effect of Nordic diets on ApoB as there was evidence of substantial heterogeneity (I² = 96% and P<0.001).

⁷ No downgrade for indirectness for the effect of Nordic dietary patterns on apoB, as although there were only 2 small trials which may not have been representative, the direction, magnitude of the effect was similar to that of other related apolipoprotein-containing particles, non-HDL-C and LDL-C, both of which demonstrated significant reductions. in 4 and 5 trials, respectively,.

⁸ Inconsistency could not be assessed as only one trial comparison was available.

⁹Downgrade for serious indirectness for the effect of Nordic dietary patterns on HbA1c, as only 1 trial comparison was available so replication of the results across different trial conditions and Nordic dietary patterns cannot be confirmed.

¹⁰ Downgrade for serious imprecision for the effect of Nordic diets on fasting insulin as the 95% CIs (-12.26, -3.39pmol/L) overlap with the minimally important difference for clinical benefit (5 pmol/L).

¹¹ Downgrade for serious inconsistency for the effect of Nordic diets on body weight as there was evidence of substantial heterogeneity ($I^2 = 88\%$ and P < 0.001).

¹² No downgrade for serious inconsistency for the effect of Nordic diets on waist circumference, as although there was evidence of substantial heterogeneity ($I^2=71\%$ and PQ=0.02), removal of Gotfredsen et al. 2020 explained the heterogeneity ($I^2=0\%$, PQ=0.60) without altering the direction, magnitude, or significance of the pooled effect estimate (MD=-2.49 cm, 95% CI: -3.66, -1.33, PMD<0.001).

¹³ Downgrade for serious imprecision for the effect of Nordic diets on waist circumference as the 95% CIs (-3.36, -1.09cm) overlap with the minimally important difference for clinical benefit (2cm).

¹⁴ Downgrade for serious imprecision for the effect of Nordic diets on systolic blood pressure as the 95% CIs (-5.12, -1.59 mmHg) overlap with the minimally important difference for clinical benefit (2mmHg).

¹⁵ Downgrade for serious imprecision for the effect of Nordic diets on diastolic blood pressure as the 95% CIs (-2.62, -0.37 mmHg) overlap with the minimally important difference for clinical benefit (2mmHg).

¹⁶ No downgrade for serious inconsistency for the effect of Nordic dietary patterns on CRP, as although there was evidence of substantial heterogeneity ($l^2 = 69\%$ and P=0.01), removal of Poulsen et al. explained the heterogeneity ($l^2=0\%$, P=0.51), without altering the direction, magnitude, or significance of the pooled effect estimate (MD=0.02nmol/L, 95% CI:-0.43, 0.39nmol/L, PMD=0.92).

¹⁷ Downgrade for serious imprecision for the effect of Nordic diets on CRP as the 95% CIs (-6.37, 2.55nmol/L) overlap with the minimally important difference for clinical benefit (4.8nmol/L).

ESM Table 15. NutriGRADE assessment for the effect of Nordic dietary patterns and cardiometabolic risk factors in RCTs

						Effect	Score				
Outcome	Trial comparisons, n	Trial size	Risk of bias, study quality and study limitations Based upon ROB from suppl. Figure 6	Precision	Heterogeneity	Directness	Publication Bias	Funding Bias	Study design	Pooled Effect Estimate RR (95% CI)	Meta- evidence (Final point)
LDL-C	5	606	2	0	0	0	0	0	2	-0.26 [-0.52, -0.00]	4 Low
				400-2000 participants but 95% CI includes null value	2-5 studies x multiply by 0	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			
Non-HDL-C	4	374	2	0	0	0	0	0	2	-0.69 [-0.9-, -0.48]	4 Low
				<400 participants	2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
HDL-C	5	606	2	0	0	0	0	0	2	-0.03 [-0.10, 0.03]	4 Low
				400-2000 participants but 95% CI includes null value	2-5 studies x multiply by 0	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			
Triglycerides	5	606	2	0	0	0	0	0	2	-0.05 [-0.14, 0.05]	4 Low
					2-5 studies x multiply by 0	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			
АроВ	3	262	2	0	0	0	0	0	2	-0.15 [-0.19, -0.11]	4 Low
				<400 participants	2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
HbA1c	1	145	2	0	0	0	0	1	2	0.01[-0.06,0.08]	5 Low
				<400 participants	Only 1 study, No chi2 performed	Surrogate markers	<5 studies				
Fasting glucose	5	706	2	0	0	0	0	0	2	-0.04 [-0.10, 0.02]	4 Low
				400-2000 participants but 95% CI includes null value	2-5 studies x multiply by 0	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			

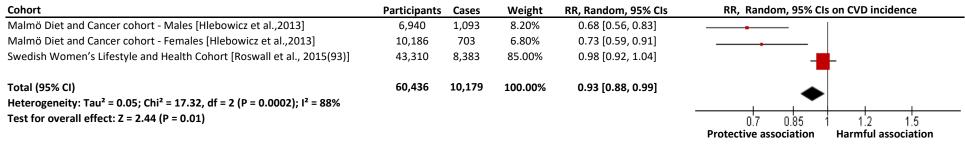
Fasting insulin	4	393	2	0	0	0	0	0	2	-7.83 [-12.26, -3.39]	4 Low
				<400 participants	2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
Body weight	6	706	2	1	0.2	0	0	0	2	-2.00 [-3.24, -0.75]	5.5 Low
					I2>40%	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			
BMI	4	393	2	0	0	0	0	0	2	-0.98 [-1.19, -0.77]	4 Low
				<400 participants	2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
Waist circumference	4	454	2	1	0	0	0	0	2	-1.32 [-2.20, -0.43]	5 Low
					2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
Systolic blood pressure	4	533	2	1	0	0	0	0	2	-3.35 [-5.12, -1.59]	5 Low
					2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
Diastolic blood pressure	4	533	2	1	0	0	0	0	2	-1.50 [-2.62, -0.37]	5 Low
					2-5 studies x multiply by 0	Surrogate markers	<5 studies	At least one author has conflict interest or industry funding			
CRP	5	606	2	0	0	0	0	0	2	-1.91 [-6.37, 2.55]	4 Low
				400-2000 participants but 95% CI includes null value	2-5 studies x multiply by 0	Surrogate markers	Publication bias not assessed	At least one author has conflict interest or industry funding			

Reference: Schwingshackl L, Knüppel S, Schwedhelm C, Hoffmann G, Missbach B, Stelmach-Mardas M, Dietrich S, Eichelmann F, Kontopantelis E, Iqbal K, Aleksandrova K, Lorkowski S, Leitzmann MF, Kroke A, Boeing H. Perspective: NutriGrade: A Scoring System to Assess and Judge the Meta-Evidence of Randomized Controlled Trials and Cohort Studies in Nutrition Research. Adv Nutr 2016;7:994-

SUPPLEMENTARY FIGURES

ESM Fig. 1. Forest plot of the association between the Nordic dietary patterns and CVD incidence.

RR, risk ratio. Pooled risk estimate is represented by the diamond. Values of $I^2 \ge 50\%$ indicate substantial heterogeneity. Values greater than 1.0 indicate a harmful association.



ESM Fig. 2. Forest plot of the association between the Nordic dietary patterns and CVD mortality.

RR, risk ratio. Pooled risk estimate is represented by the diamond. Values of $I^2 \ge 50\%$ indicate substantial heterogeneity. Values greater than 1.0 indicate a harmful association.

Cohort	Participants	Cases	Weight	RR, Random, 95% Cls	RR, Random, 95% Cls on CVD mortality
EPIC [95]	451,256	3,761	31.6%	0.82 [0.74, 0.90]	_
Kuopio Ischaemic Heart Disease Risk Factor Study [Tertsunen et al, 2020]	1,547	250	7.5%	0.71 [0.5.1.01]	
Malmo Diet and Cancer cohort - Men [Drake et al.,2013]	6,940	444	9.4%	0.59 [0.43, 0.80]	
Malmo Diet and Cancer cohort - Women [Drake et al.,2013]	10,186	265	7.3%	1.07 [0.75, 1.53]	
Swedish Mammography Cohort [Lemming et al.,2018]	33,341	3,003	24.3%	0.91 [0.79, 1.05]	_ _
Swedish Women's Lifestyle and Health Cohort [Roswall et al.,2015(92)]	44,961	270	7.4%	0.88 [0.62, 1.25]	
The Copenhagen General Population Study [Ewers et al., 2016]	88,818	2,982	7.5%	0.71 [0.5,1.01]	-
Western Norway B-vitamin Intervention Trial (WENBIT) [Pauschitz et al., 2019]	2,019	171	4.9%	0.71 [0.45, 1.12]	
Total (95% CI) Heterogeneity: Tau ² = 0.01; Chi ² = 10.48, df = 7 (P = 0.16); I ² = 33% Test for overall effect: Z = 3.85 (P = 0.0001)	639,068	11,146	100.00%	0.81 [0.73, 0.90]	0.5 0.7 1 1.5 2
					Protective association Harmful association

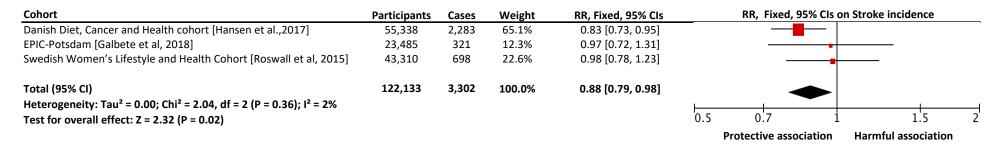
ESM Fig. 3. Forest plot of the association between the Nordic dietary patterns and CHD incidence.

RR, risk ratio. Pooled risk estimate is represented by the diamond. Values of $I^2 \ge 50\%$ indicate substantial heterogeneity. Values greater than 1.0 indicate a harmful association.

Cohort	Participants	Cases	Weight	RR, Random, 95% CIs	RR, Random, 95% Cls on CHD incidence
Danish Diet, Cancer and Health cohort - Male [Gunge et al.,2017]	25,759	1,669	23.9%	0.86 [0.69, 1.08]	
Danish Diet, Cancer and Health cohort - Females [Gunge et al.,2017]	28,809	653	13.7%	0.56 [0.37, 0.84]	
EPIC-Potsdam [Galbete et al, 2018]	23,485	312	18.1%	0.88 [0.64, 1.20]	
Swedish Women's Lifestyle and Health Cohort [Roswall et al, 2015]	43,310	1,019	27.0%	1.09 [0.91, 1.31]	
Western Norway B-vitamin Intervention Trial (WENBIT) [Pauschitz et al., 2019]	2,019	307	17.4%	0.90 [0.65, 1.25]	
Total (95% Cl) Heterogeneity: Tau ² = 0.03; Chi ² = 9.57, df = 4 (P = 0.05); l ² = 58%	123,382	3,960	100.00%	0.88 [0.72, 1.06]	
Test for overall effect: Z = 1.38 (P = 0.17)					
					Protective association Harmful association

ESM Fig. 4. Forest plot of the association between the Nordic dietary patterns and stroke incidence.

RR, risk ratio. Pooled risk estimate is represented by the diamond. Values of $I^2 \ge 50\%$ indicate substantial heterogeneity. Values greater than 1.0 indicate a harmful association.



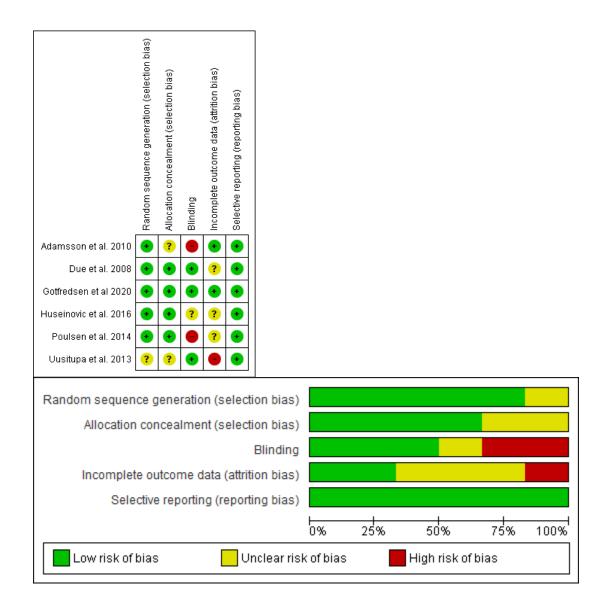
ESM Fig. 5. Forest plot of the association between the Nordic dietary patterns and type 2 diabetes mellitus incidence.

LogRR, logarithmic risk ratio. Pooled risk estimate is represented by the diamond. Values of $I^2 \ge 50\%$ indicate substantial heterogeneity. Values greater than 1.0 indicate a harmful association.

Cohort	Participants	Cases	Weight	RR, Random, 95% Cls	RR, Random, 95% CIs on Type 2 Diabetes Mellitus incidence
Danish Diet, Cancer and Health cohort - Men [Lacoppidan et al.,2015]	26,107	4,097	19.9%	0.80 [0.69, 0.93]	
Danish Diet, Cancer and Health cohort - Women [Lacoppidan et al.,2015]	28,953	3,269	14.2%	0.89 [0.72,1.10]	
EPIC-Postdam [Galbete et al, 2018]	23,485	1,376	20.1%	1.01 [0.87, 1.18]	
Helsinki Birth Cohort Study, Health 2000 Survey [Karneva et al.,2014]	6,744	541	10.9%	0.93 [0.72, 1.21]	
Malmo Diet Study - Men [Mandalazi et al.,2016]	10,413	1,859	16.1%	1.02 [0.84, 1.23]	
Malmo Diet Study - Women [Mandalazi et al.,2016]	16,455	1,979	18.8%	1.10 [0.93,1.30]	
Total (95% CI) Heterogeneity: Tau² = 0.01; Chi² = 9.35, df = 6 (P = 0.1); l² = 47% Test for overall effect: Z = 0.88 (P = 0.38)	112,157	13,121	100.00%	0.96 [0.86, 1.06]	
					Protective association Harmful association

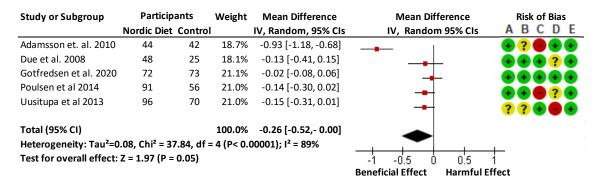
ESM Fig. 6. Risk of bias of included RCTs.

Colored bars represent the proportion of studies assessed and circles represent the individual RCT. The colors represent low (green), unclear (yellow) or high (red) risk of bias for the 5 domains of bias above according to criteria set by the Cochrane Risk of Bias tool.



ESM Fig. 7. Forest plot of randomized controlled trials assessing the effect of Nordic diets on LDL-C.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimates for each subgroup and overall effect are represented by the diamonds. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by random effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I² statistic, with significance set at P<0.10 and I²>50% considered to be evidence of substantial heterogeneity.



ESM Fig. 8. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on BMI.

Study or Subgroup	Participants	6 Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet Co	ntrol	IV, Fixed, 95% CIs	IV, Fixed 95% CIs	ABCDE
Adamsson et. al. 2010	44	42 82.4%	-1.03 [-1.26, -0.80]		• ? • • •
Due et al. 2008	48	52 12.1%	-0.50 [-1.11, 0.11]	+	•••?•
Gotfredsen et al. 2020	72	73 0.1%	2.46 [-5.66,10.58]		
Huseinovic et al. 2016	47	53 16.3%	-1.30 [-2.21, -0.39]	-	••??•
Total (95% CI)		100.0%	-0.98 [-1.19, -0.77]	1	
Heterogeneity:Chi ² =3.6	9, df =3 (P=0.3); I ²	= 19%			<u> </u>
Test for overall effect: Z					
				Beneficial effect Harmful e	ffect

ESM Fig. 9. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on body weight.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimates for each subgroup and overall effect are represented by the diamonds. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by random effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I2 statistic, with significance set at P<0.10 and I2>50% considered to be evidence of substantial heterogeneity.

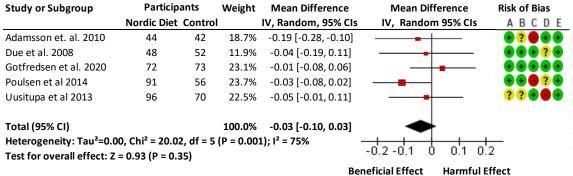
Study or Subgroup	Participa	ints	Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet	Control	I	IV, Random, 95% Cl	s IV, Random 95% CIs	ABCDE
Adamsson et. al. 2010	44	42	19.7%	-3.03 [-3.74, -2.32]		• ? • • •
Due et al. 2008	48	52	13.8%	-1.60 [-3.58, 0.38]		•••?•
Gotfredsen et al. 2020	72	73	18.6%	-0.71 [-1.69,0.29]		
Huseinovic et al. 2016	47	53	11.1%	-3.70 [-6.26, -1.14]	_	••??•
Poulsen et al 2014	91	56	16.6%	-3.22 [-4.62, -1.82]		••••
Uusitupa et al 2013	96	70	20.2%	-0.50 [-1.05, 0.05]	-	??•••
Total (95% CI)			100.0%	-2.00 [-3.24, -0.75]	•	
Heterogeneity: Tau ² =1.	92, Chi² = 41.79), df = 5	(P < 0.000	01); I² = 88%		
Test for overall effect: Z	= 3.14(P = 0.00)2)			-5 Ó Ś	
					Beneficial Effect Harmful E	ffect

ESM Fig. 10. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on waist circumference.

Study or Subgroup	Participants	Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet Cont	rol	IV, Fixed, 95% CIs	IV,Fixed,95% CIs	ABCDE
Due et al. 2008	48 52	19.0%	-1.40 [-3.89, 1.09]		•••
Gotfredsen et al. 2020	72 73	27.4%	-0.28 [-1.07,1.63]		
Huseinovic et al. 2016	47 53	20.3%	-2.50 [-4.81, -0.19]		
Poulsen et al 2014	91 56	25.9%	-2.94 [-4.54, -1.34]	_ _	.
Total (95% CI)		100.0%	-1.32 [-2.20, -0.43]	•	
Heterogeneity: Chi ² = 1	0.30, df = 3 (P = 0.0	2); I ² = 71%			_
Test for overall effect: Z = 2.92 (P = 0.003)				-4 -2 Ó 2	4
				Beneficial Effect Harmful B	ffect

ESM Fig. 11. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on HDL-C.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimates for each subgroup and overall effect are represented by the diamonds. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by random effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I² statistic, with significance set at P<0.10 and I²>50% considered to be evidence of substantial heterogeneity.

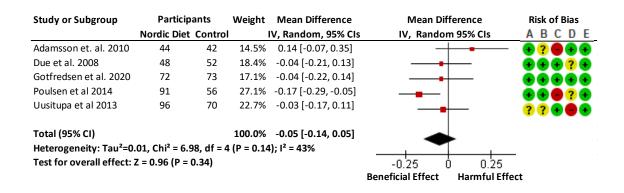


ESM Fig. 12. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on Non-HDL-C.

Study or Subgroup	Participan Nordic Diet Co		Mean Difference IV, Fixed, 95% Cls	Mean Difference IV, Fixed 95% Cls	Risk of Bias
Adamsson et. al. 2010	44	42 62.5%	-1.02 [-1.28, -0.76]		••••
Due et al. 2008	48	52 32.4%	-0.14 [-0.50, 0.22]		•••?•
Gotfredsen et al. 2020	72	73 4.2%	-0.13 [-1.14, 0.88]		
Uusitupa et al 2013	96	70 0.8%	-0.18 [-2.52, 2.16]		?? 🕈 🖶 🛨
Total (95% CI) Heterogeneity: Chi ² = 16	18 df = 3 (P = 0)	100.0% 001): I ² = 81%	-0.69 [-0.90, -0.48]	•	
Test for overall effect: Z	, ,			-2 Ó 2	
				Beneficial Effect Harmful E	ffect

ESM Fig. 13. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on triglycerides.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimates for each subgroup and overall effect are represented by the diamonds. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by random effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I2 statistic, with significance set at P<0.10 and I2>50% considered to be evidence of substantial heterogeneity.

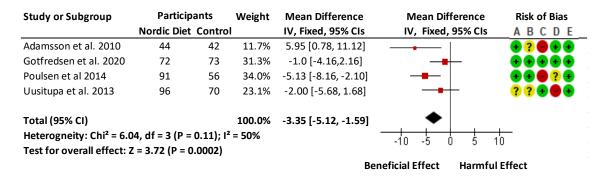


ESM Fig. 14. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on ApoB.

Study or Subgroup	Participants	Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet Cont	ol	IV, Fixed, 95% CIs	IV, Fixed 95% CIs	ABCDE
Adamsson et. al. 2010	44 42	52.3%	-0.25 [-0.31, -0.19]		• ? • •
Uusitupa et al 2013	96 70	47.7%	-0.04 [-0.10, 0.02]	-	?? 🕈 🖶 🗣
Total (95% CI)		100.0%	-0.15 [-0.19, -0.11]	▲	
Heterogeneity: Chi ² = 2	24.62, df = 1 (P < 0.	•			
Test for overall effect:	Z = 7.09 (P < 0.000	-0.25 0 0.25			
				Beneficial Effect Harmful Eff	ect

ESM Fig. 15. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on systolic blood pressure.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimates for each subgroup and overall effect are represented by the diamonds. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by random effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I² statistic, with significance set at P<0.10 and I²>50% considered to be evidence of substantial heterogeneity.



ESM Fig. 16. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on diastolic blood pressure.

Study or Subgroup	Participants	Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet Contr	ol	IV, Fixed, 95% CIs	IV, Fixed 95% CIs	ABCDE
Adamsson et al. 2010	44 42	8.3%	-3.47 [-7.36, 0.42]		•••
Gotfredsen et al.	72 73	44.1%	-0.45 [-2.14, 1.24]		
Poulsen et al 2014	91 56	21.5%	-3.24 [-5.66, -0.82]		
Uusitupa et al. 2013	96 70	26.0%	-1.20 [-3.40, -1.00]		22.00
Total (95% CI)		100.0%	-1.50 [-2.62, -0.37]	•	
Heterogeneity: Chi ² =	4.53, df = 3 (P = 0.	21); I² = 34%		Ļ.	
Test for overall effect	:: Z = 2.61(P = 0.009)		-10 -5 0 5 1	0
				Beneficial Effect Harmful	Effect

ESM Fig. 17. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on fasting blood glucose.

Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimate is represented by the diamond. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by fixed effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I² statistic, with significance set at P<0.10 and I²>50% considered to be evidence of substantial heterogeneity.

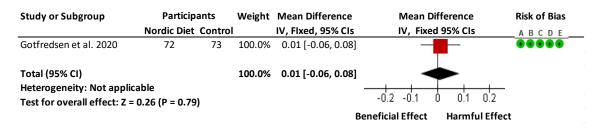
Study or Subgroup	Participants	Weight	Mean Difference	Mean Difference	Risk of Bias
	Nordic Diet Contr	ol	IV, Random, 95% Cl	s IV, Random 95% CIs	ABCDE
Adamsson et. al. 2010	44 42	13.7%	-0.05 [-0.21, -0.11]		••••
Due et al. 2008	48 52	11.6%	-0.02 [-0.19, 0.15]		•••?•
Gotfredsen et al. 2020	72 73	24.0%	0.04 [-0.08 0.16]		
Poulsen et al 2014	91 56	31.8%	-0.11 [-0.21, -0.01]		•••
Uusitupa et al 2013	96 70	18.9%	-0.02 [-0.15, 0.11]		??•••
Total (95% CI)		100.0%	-0.04 [-0.10, 0.02]	•	
Heterogeneity: Tau ² =0.00,Chi ² = 3.59, df = 4 (P 0.46); l ² = 0% Test for overall effect: Z = 1.28 (P = 0.20)				-0.2 -0.1 0 0.1 0.2	
				Beneficial Effect Harmful E	ffect

ESM Fig. 18. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on fasting blood insulin.

Study or Subgroup	Participa Nordic Diet		Weight	Mean Difference IV, Fixed, 95% CIs	Mean Difference IV, Fixed 95% CIs	Risk of Bias
Adamsson et. al. 2010	44	42	34.0%	-9.79 [-17.40, -2.18]		• ? • • •
Due et al. 2008	48	52	18.4%	-9.70 [-20.03, 0.63]		•••?•
Gotfredsen et al. 2020	72	73	21.0%	-1.67 [-11.34, 8.00]		
Poulsen et al 2014	91	56	26.5%	-8.89 [-17.50, -0.28]		•••
Total (95% Cl) 100.0% Heterogeneity:Chi ² = 2.00, df = 3 (P 0.57); l ² = 0%			-7.83 [-12.26, -3.39]		-+-	
Test for overall effect: Z = 3.46 (P = 0.0005)				-20 -10 0 10	20	
					Beneficial Effect Harmful	Effect

ESM Fig. 19. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on HbA1c.

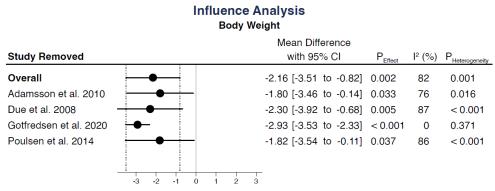
Risk of bias: A=random sequence generation; B=allocation concealment; C=blinding of participants and personnel; D=incomplete outcome data; E=selective reporting. Pooled effect estimate is represented by the diamond. Data are expressed as weighted mean differences with 95% CIs using the generic inverse-variance method modelled by fixed effects. Paired analyses were applied to all crossover trials. Inter-study heterogeneity was assessed using the Cochran Q statistic and quantified using the I² statistic, with significance set at P<0.10 and I²>50% considered to be evidence of substantial heterogeneity. The overall mean difference (MD) for HbA1c is 0.062 mmol/mol [-0.37, 0.50 mmol/mol] (MD 0.01 %[-0.06, 0.08]).



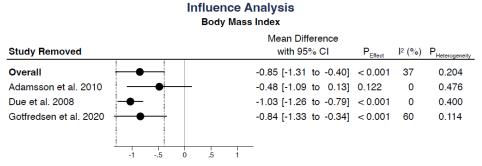
ESM Fig. 20. Forest plot of randomized controlled trials assessing the effect of Nordic dietary patterns on inflammation.

Study or Subgroup	Participants Nordic Diet Cont	Weight rol	Mean Difference IV, Random, 95% CIs	Mean Difference IV, Random 95% CIs	Risk of Bias
Adamsson et. al. 2010	44 42	18.0%	-2.19 [-9.80, 5.42]		••••
Due et al. 2008	48 52	9.7%	-4.76 [-17.09, 7.57]		•••?•
Gotfredsen et al. 2020	72 73	37.5%	-0.03 [-0.44, 0.38]	_	
Poulsen et al 2014	91 56	8.5%	-21.14 [-34.62, -7.67]	_	•••
Uusitupa et al 2013	96 70	26.3%	2.86 [-1.90, 7.62]		?? 🕈 🖨 🖶
Total (95% CI)		100.0%	-1.91 [-6.37, 2.55]	•	
Heterogeneity: Tau ² =13.	80, Chi² = 11.72, df =				
Test for overall effect: Z	= 0.84 (P = 0.4)	-20-10 0 10 20	l		
				Beneficial Effect Harmful B	ffect

ESM Fig. 21. Influence analysis plots of ad libitum randomized controlled trials assessing the effect of Nordic dietary patterns on adiposity markers.



Influence analysis: Removal of each study, one at a time and recalculation of the overall effect and heterogeneity



Influence analysis: Removal of each study, one at a time and recalculation of the overall effect and heterogeneity

Influence Analysis Waist Circumference

		Mean Difference			
Study Removed		with 95% CI	P_{Effect}	l² (%)	P _{Heterogeneity}
Overall	•	-1.32 [-3.49 to 0.84]	0.233	78	0.010
Due et al. 2008		-1.30 [-4.45 to 1.86]	0.419	89	0.003
Gotfredsen et al. 2020		-2.48 [-3.86 to -1.10]	< 0.001	4	0.308
Poulsen et al. 2014		-0.22 [-1.73 to 1.29]	0.774	26	0.246
	-3 -2 -1 0 1 2	3			

Influence analysis: Removal of each study, one at a time and recalculation of the overall effect and heterogeneity