

Observational results: myocardial Infarction

Row	Study PMID	Study Name	Outcome	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA
2	Ascherio 1995 7885425	Health Professional Follow-up Study	MI	Any myocardial infarction	Healthy	Healthy 40-75 yo men without diagnosis of myocardial infarction, angina, stroke, transient ischemic attack, or peripheral arterial disease, or had undergone coronary artery surgery.	All	811/44895 (1.81)	6 y	EPA+DHA
3	Ascherio 1995 7885425	Health Professional Follow-up Study	MI	Any myocardial infarction	Healthy	Healthy 40-75 yo men without diagnosis of myocardial infarction, angina, stroke, transient ischemic attack, or peripheral arterial disease, or had undergone coronary artery surgery.	All	811/44895 (1.81)	6 y	EPA+DHA
4	Ascherio 1995 7885425	Health Professional Follow-up Study	MI	Any myocardial infarction	Healthy	Healthy 40-75 yo men without diagnosis of myocardial infarction, angina, stroke, transient ischemic attack, or peripheral arterial disease, or had undergone coronary artery surgery.	All	811/44895 (1.81)	6 y	EPA+DHA
5	Ascherio 1995 7885425	Health Professional Follow-up Study	MI	Any myocardial infarction	Healthy	Healthy 40-75 yo men without diagnosis of myocardial infarction, angina, stroke, transient ischemic attack, or peripheral arterial disease, or had undergone coronary artery surgery.	All	811/44895 (1.81)	6 y	EPA+DHA
6	Ascherio 1995 7885425	Health Professional Follow-up Study	MI	Any myocardial infarction	Healthy	Healthy 40-75 yo men without diagnosis of myocardial infarction, angina, stroke, transient ischemic attack, or peripheral arterial disease, or had undergone coronary artery surgery.	All	811/44895 (1.81)	6 y	EPA+DHA
7	Iso 2006 16401768	Japan Public Health Center-Based Study - Cohort I	MI	nd	Healthy	Healthy 40-59	All	221/41578 (0.53)	11.5 y	EPA+DHA
8	Iso 2006 16401768	Japan Public Health Center-Based Study - Cohort I	MI	nd	Healthy	Healthy 40-59	All	221/41578 (0.53)	11.5 y	EPA+DHA
9	Iso 2006 16401768	Japan Public Health Center-Based Study - Cohort I	MI	nd	Healthy	Healthy 40-59	All	221/41578 (0.53)	11.5 y	EPA+DHA
10	Iso 2006 16401768	Japan Public Health Center-Based Study - Cohort I	MI	nd	Healthy	Healthy 40-59	All	221/41578 (0.53)	11.5 y	EPA+DHA
11	Iso 2006 16401768	Japan Public Health Center-Based Study - Cohort I	MI	nd	Healthy	Healthy 40-59	All	221/41578 (0.53)	11.5 y	EPA+DHA
12	Morris 1995 7598116	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	281/21185 (1.33)	4 y	All n-3
13	Morris 1995 7598116	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	281/21185 (1.33)	4 y	All n-3
14	Morris 1995 7598116	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	281/21185 (1.33)	4 y	All n-3
15	Morris 1995 7598116	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	281/21185 (1.33)	4 y	All n-3
16	Morris 1995 7598116	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	281/21185 (1.33)	4 y	All n-3
17	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	222 case-control pairs	5 y	EPA
18	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	222 case-control pairs	5 y	DHA
19	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	222 case-control pairs	5 y	EPA+DHA

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Row	Study PMID	n3 measure	Supplement	Adjustments	Quantile	n3 units	Quantile low
2	Ascherio 1995 7885425	Intake	No	age, BMI, smoking habits, alcohol consumption, history of hypertension, history of diabetes, history of hypercholesterolemia, family history of myocardial infarction before 60 years of age, profession	Qt1	g/d	0.01
3	Ascherio 1995 7885425	Intake	No	age, BMI, smoking habits, alcohol consumption, history of hypertension, history of diabetes, history of hypercholesterolemia, family history of myocardial infarction before 60 years of age, profession	Qt2	g/d	0.12
4	Ascherio 1995 7885425	Intake	No	age, BMI, smoking habits, alcohol consumption, history of hypertension, history of diabetes, history of hypercholesterolemia, family history of myocardial infarction before 60 years of age, profession	Qt3	g/d	0.2
5	Ascherio 1995 7885425	Intake	No	age, BMI, smoking habits, alcohol consumption, history of hypertension, history of diabetes, history of hypercholesterolemia, family history of myocardial infarction before 60 years of age, profession	Qt4	g/d	0.29
6	Ascherio 1995 7885425	Intake	No	age, BMI, smoking habits, alcohol consumption, history of hypertension, history of diabetes, history of hypercholesterolemia, family history of myocardial infarction before 60 years of age, profession	Qt5	g/d	0.42
7	Iso 2006 16401768	Intake	No	age; sex; cigarette smoking; alcohol intake; body mass index; histories of hypertension and diabetes; medication use for hypercholesterolemia; education level; sports at leisure time; quintiles of dietary intake of fruits, vegetables, saturated fat, monounsaturated fat, n6 polyunsaturated fat, cholesterol, and total energy; and PHC.	Qt1	g/d	nd
8	Iso 2006 16401768	Intake	No	age; sex; cigarette smoking; alcohol intake; body mass index; histories of hypertension and diabetes; medication use for hypercholesterolemia; education level; sports at leisure time; quintiles of dietary intake of fruits, vegetables, saturated fat, monounsaturated fat, n6 polyunsaturated fat, cholesterol, and total energy; and PHC.	Qt2	g/d	nd
9	Iso 2006 16401768	Intake	No	age; sex; cigarette smoking; alcohol intake; body mass index; histories of hypertension and diabetes; medication use for hypercholesterolemia; education level; sports at leisure time; quintiles of dietary intake of fruits, vegetables, saturated fat, monounsaturated fat, n6 polyunsaturated fat, cholesterol, and total energy; and PHC.	Qt3	g/d	nd
10	Iso 2006 16401768	Intake	No	age; sex; cigarette smoking; alcohol intake; body mass index; histories of hypertension and diabetes; medication use for hypercholesterolemia; education level; sports at leisure time; quintiles of dietary intake of fruits, vegetables, saturated fat, monounsaturated fat, n6 polyunsaturated fat, cholesterol, and total energy; and PHC.	Qt4	g/d	nd
11	Iso 2006 16401768	Intake	No	age; sex; cigarette smoking; alcohol intake; body mass index; histories of hypertension and diabetes; medication use for hypercholesterolemia; education level; sports at leisure time; quintiles of dietary intake of fruits, vegetables, saturated fat, monounsaturated fat, n6 polyunsaturated fat, cholesterol, and total energy; and PHC.	Qt5	g/d	nd
12	Morris 1995 7598116	Intake	explicitly excluded fish oil supplements	age, aspirin and beta-carotene assignment, smoking, alcohol consumption, obesity, diabetes, vigorous exercise, parental history of MI before age 60 years, history of hypertension, history of hypercholesterolemia, vitamin supplement use, and saturated fat intake	T1	g/wk	<0.5
13	Morris 1995 7598116	Intake	explicitly excluded fish oil supplements	age, aspirin and beta-carotene assignment, smoking, alcohol consumption, obesity, diabetes, vigorous exercise, parental history of MI before age 60 years, history of hypertension, history of hypercholesterolemia, vitamin supplement use, and saturated fat intake	T2	g/wk	0.5
14	Morris 1995 7598116	Intake	explicitly excluded fish oil supplements	age, aspirin and beta-carotene assignment, smoking, alcohol consumption, obesity, diabetes, vigorous exercise, parental history of MI before age 60 years, history of hypertension, history of hypercholesterolemia, vitamin supplement use, and saturated fat intake	T3	g/wk	1
15	Morris 1995 7598116	Intake	explicitly excluded fish oil supplements	age, aspirin and beta-carotene assignment, smoking, alcohol consumption, obesity, diabetes, vigorous exercise, parental history of MI before age 60 years, history of hypertension, history of hypercholesterolemia, vitamin supplement use, and saturated fat intake	T4	g/wk	1.7
16	Morris 1995 7598116	Intake	explicitly excluded fish oil supplements	age, aspirin and beta-carotene assignment, smoking, alcohol consumption, obesity, diabetes, vigorous exercise, parental history of MI before age 60 years, history of hypertension, history of hypercholesterolemia, vitamin supplement use, and saturated fat intake	T5	g/wk	nd
17	Guallar 1995 7829792	Cholesterol ester	NA	matching: age, smoking status	All	% FA	nd
18	Guallar 1995 7829792	Cholesterol ester	NA	matching: age, smoking status	All	% FA	nd
19	Guallar 1995 7829792	Cholesterol ester	NA	matching: age, smoking status	All	% FA	nd

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Row	Study PMID	Quantile median	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
2	Ascherio 1995 7885425	nd	0.11	RR	163	9329	50499	Reference group			Q5 vs. Q1	0.48
3	Ascherio 1995 7885425	nd	0.19	RR	166	9220	49902	1	0.81	1.25		
4	Ascherio 1995 7885425	nd	0.28	RR	153	9005	48613	0.92	0.74	1.15		
5	Ascherio 1995 7885425	nd	0.41	RR	144	8860	47722	0.86	0.69	1.08		
6	Ascherio 1995 7885425	nd	6.52	RR	185	8481	45343	1.09	0.88	1.35		
7	Iso 2006 16401768	0.3 (mean)	nd	HR	76		102711	Reference group			P trend	0.02
8	Iso 2006 16401768	0.6 (mean)	nd	HR	44		95861	0.77	0.52	1.15		
9	Iso 2006 16401768	0.9 (mean)	nd	HR	39		95258	0.68	0.43	1.05		
10	Iso 2006 16401768	1.3 (mean)	nd	HR	36		91435	0.66	0.4	1.09		
11	Iso 2006 16401768	2.1 (mean)	nd	HR	26		92062	0.43	0.24	0.78		
12	Morris 1995 7598116	nd	nd	RR	43	4335	nd	1				0.98
13	Morris 1995 7598116	nd	1	RR	66	4134	nd	1.6	1.1	2.4		
14	Morris 1995 7598116	nd	1.7	RR	72	4691	nd	1.4	1	2.2		
15	Morris 1995 7598116	nd	2.3	RR	50	4075	nd	1.2	0.8	1.8		
16	Morris 1995 7598116	nd	>=2.3	RR	50	3950	nd	1.2	0.8	1.8		
17	Guallar 1995 7829792	0.2	nd	RR	222	nd	nd	1.05	0.91	1.21	per % U increase	0.54
18	Guallar 1995 7829792	0.18	nd	RR	222	nd	nd	1.02	0.94	1.11	per % U increase	0.59
19	Guallar 1995 7829792	0.39	nd	RR	222	nd	nd	1.05	0.92	1.19	per % U increase	0.5

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Row	Study PMID	Study Name	Outcome	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA
20	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	213 case-control pairs	5 y	EPA
21	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	213 case-control pairs	5 y	DHA
22	Guallar 1995 7829792	Physician's Health Study	MI	fatal and nonfatal MI	Healthy	US male physicians	All	213 case-control pairs	5 y	EPA+DHA
23	Bergkvist_2015_2 5679993	Swedish Mammography Study	MI	fatal and nonfatal MI	Healthy		All	1386/33446 (0.04)	12 y	EPA+DHA
24	Bergkvist_2015_2 5679993	Swedish Mammography Study	MI	fatal and nonfatal MI	Healthy		All	1386/33446 (0.04)	12 y	EPA+DHA
25	Bergkvist_2015_2 5679993	Swedish Mammography Study	MI	fatal and nonfatal MI	Healthy		All	1386/33446 (0.04)	12 y	EPA+DHA
26	Bergkvist_2015_2 5679993	Swedish Mammography Study	MI	fatal and nonfatal MI	Healthy		All	1386/33446 (0.04)	12 y	EPA+DHA

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Row	Study PMID	n3 measure	Supplement	Adjustments	Quantile	n3 units	Quantile low
20	Guallar 1995 7829792	Phospholipid	NA	matching: age, smoking status	All	% FA	nd
21	Guallar 1995 7829792	Phospholipid	NA	matching: age, smoking status	All	% FA	nd
22	Guallar 1995 7829792	Phospholipid	NA	matching: age, smoking status	All	% FA	nd
23	Bergkvist_2015_2 5679993	intake	yes	Adjusted for attained age (years), postsecondary education (yes/no), family history of myocardial infarction before the age of 60 years (yes/no), ever use of postmenopausal hormones (yes/no), use of aspirin (yes/no), smoking status (never, past or current), waist circumference (b80, 80–87, ≥88 cm), weight loss of ≥5 kg within a year (yes/no), parity (0, ≥1 children), total physical activity (quartiles, MET-h), use of fish oil supplements (yes/no), alcohol consumption (0, N0–4.9, 5.0–14.9, N15.0 g/day), energy intake (continuous, kcal/day), consumption of fruit and vegetables (quartiles, servings/week), dairy products (quartiles, servings/day) and red and processed meat (quartiles, servings/week), dietary intake of saturated fatty acids (quartiles, g/day) and dietary MeHg exposure (quartiles, µg/day).	Qr1	mg/d	nd
24	Bergkvist_2015_2 5679993	intake	yes	Adjusted for attained age (years), postsecondary education (yes/no), family history of myocardial infarction before the age of 60 years (yes/no), ever use of postmenopausal hormones (yes/no), use of aspirin (yes/no), smoking status (never, past or current), waist circumference (b80, 80–87, ≥88 cm), weight loss of ≥5 kg within a year (yes/no), parity (0, ≥1 children), total physical activity (quartiles, MET-h), use of fish oil supplements (yes/no), alcohol consumption (0, N0–4.9, 5.0–14.9, N15.0 g/day), energy intake (continuous, kcal/day), consumption of fruit and vegetables (quartiles, servings/week), dairy products (quartiles, servings/day) and red and processed meat (quartiles, servings/week), dietary intake of saturated fatty acids (quartiles, g/day) and dietary MeHg exposure (quartiles, µg/day).	Qr2	mg/d	nd
25	Bergkvist_2015_2 5679993	intake	yes	Adjusted for attained age (years), postsecondary education (yes/no), family history of myocardial infarction before the age of 60 years (yes/no), ever use of postmenopausal hormones (yes/no), use of aspirin (yes/no), smoking status (never, past or current), waist circumference (b80, 80–87, ≥88 cm), weight loss of ≥5 kg within a year (yes/no), parity (0, ≥1 children), total physical activity (quartiles, MET-h), use of fish oil supplements (yes/no), alcohol consumption (0, N0–4.9, 5.0–14.9, N15.0 g/day), energy intake (continuous, kcal/day), consumption of fruit and vegetables (quartiles, servings/week), dairy products (quartiles, servings/day) and red and processed meat (quartiles, servings/week), dietary intake of saturated fatty acids (quartiles, g/day) and dietary MeHg exposure (quartiles, µg/day).	Qr3	mg/d	nd
26	Bergkvist_2015_2 5679993	intake	yes	Adjusted for attained age (years), postsecondary education (yes/no), family history of myocardial infarction before the age of 60 years (yes/no), ever use of postmenopausal hormones (yes/no), use of aspirin (yes/no), smoking status (never, past or current), waist circumference (b80, 80–87, ≥88 cm), weight loss of ≥5 kg within a year (yes/no), parity (0, ≥1 children), total physical activity (quartiles, MET-h), use of fish oil supplements (yes/no), alcohol consumption (0, N0–4.9, 5.0–14.9, N15.0 g/day), energy intake (continuous, kcal/day), consumption of fruit and vegetables (quartiles, servings/week), dairy products (quartiles, servings/day) and red and processed meat (quartiles, servings/week), dietary intake of saturated fatty acids (quartiles, g/day) and dietary MeHg exposure (quartiles, µg/day).	Qr4	mg/d	nd

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Row	Study PMID	Quantile median	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
20	Guallar 1995 7829792	0.49	nd	RR	213	nd	nd	1.01	0.84	1.21	per % U increase	0.92
21	Guallar 1995 7829792	2.11	nd	RR	213	nd	nd	1.06	0.81	1.39	per % U increase	0.66
22	Guallar 1995 7829792	2.58	nd	RR	213	nd	nd	1.06	0.8	1.4	per % U increase	0.7
23	Bergkvist_2015_2 5679993	148	nd	RR	355	nd	96037	Ref			P trend	0.16
24	Bergkvist_2015_2 5679993	247	nd	RR	312	nd	97727	0.98	0.84	1.16		
25	Bergkvist_2015_2 5679993	334	nd	RR	289	nd	97907	0.9	0.76	1.07		
26	Bergkvist_2015_2 5679993	518	nd	RR	430	nd	95867	1.11	0.93	1.33		