Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
2	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
3	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
4	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
5	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
6	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
7	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
8	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
9	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
10	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
11	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	EPA+DHA+DPA	Intake
12	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
13	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
14	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
15	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
16	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
17	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
18	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
19	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
20	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
21	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
22	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
23	Dolecek 1992 1579579	MRFIT	Death, all-cause	CVD, Cancer and other	Healthy	Men aged 35-57 assigned to the usual care group	Men	522/6258 (8.34)	10.5 y	ALA	Intake
24	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	DHA	Blood
25	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	DHA	Blood
26	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	DHA	Blood
27	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	EPA	Blood

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
2	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt1	g/d	nd	0 (mean)
3	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt2	g/d	nd	0.009 (mean)
4	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt3	g/d	nd	0.046 (mean)
5	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt4	g/d	nd	0.153 (mean)
6	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt5	g/d	nd	0.664 (mean)
7	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt1	% kcal	nd	0 (mean)
8	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt2	% kcal	nd	0.004 (mean)
9	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt3	% kcal	nd	0.019 (mean)
10	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt4	% kcal	nd	0.063 (mean)
11	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt5	% kcal	nd	0.284 (mean)
12	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt1	g/d	nd	0.873 (mean)
13	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt2	g/d	nd	1.273 (mean)
14	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt3	g/d	nd	1.577 (mean)
15	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt4	g/d	nd	1.926 (mean)
16	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt5	g/d	nd	2.802 (mean)
17	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	All	g/d	nd	nd
18	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt1	% kcal	nd	0.424 (mean)
19	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt2	% kcal	nd	0.544 (mean)
20	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt3	% kcal	nd	0.63 (mean)
21	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt4	% kcal	nd	0.732 (mean)
22	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	Qt5	% kcal	nd	0.98 (mean)
23	Dolecek 1992 1579579	nd	age ,race, smoking, baseline diastolic blood pressure, high density lipoprotein, low density lipoprotein	All	% kcal	all	nd
24	Hara 2013 23047296	No	Propensity score	T1	mcg/mL	nd	nd
25	Hara 2013 23047296	No	Propensity score	T2	mcg/mL	61.4	nd
26	Hara 2013 23047296	No	Propensity score	T3	mcg/mL	83.5	nd
27	Hara 2013 23047296	No	Propensity score	T1	mcg/mL	nd	nd

Appendix F

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
2	Dolecek 1992 1579579	nd	RR	nd	1307	nd	Reference group				<0.10
3	Dolecek 1992 1579579	nd	RR	nd	1197	nd	1.09	nd	nd	nd	
4	Dolecek 1992 1579579	nd	RR	nd	1251	nd	1.02	nd	nd	nd	
5	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.85	nd	nd	nd	
6	Dolecek 1992 1579579	nd	RR	nd	1251	nd	0.75	nd	nd	nd	
7	Dolecek 1992 1579579	nd	RR	nd	1307	nd	Reference group				<0.10
8	Dolecek 1992 1579579	nd	RR	nd	1196	nd	1.09	nd	nd	nd	
9	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.97	nd	nd	nd	
10	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.92	nd	nd	nd	
11	Dolecek 1992 1579579	nd	RR	nd	1251	nd	0.73	nd	nd	nd	
12	Dolecek 1992 1579579	nd	RR	nd	1251	nd	Reference group				<0.05
13	Dolecek 1992 1579579	nd	RR	nd	1253	nd	0.96	nd	nd	nd	
14	Dolecek 1992 1579579	nd	RR	nd	1251	nd	0.69	nd	nd	nd	
15	Dolecek 1992 1579579	nd	RR	nd	1251	nd	0.89	nd	nd	nd	
16	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.69	nd	nd	nd	
17	Dolecek 1992 1579579	nd	HR	522	6258	nd	0.834435359	nd	nd	nd	<0.05
18	Dolecek 1992 1579579	nd	RR	nd	1251	nd	Reference group				<0.05
19	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.86	nd	nd	nd	
20	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.85	nd	nd	nd	
21	Dolecek 1992 1579579	nd	RR	nd	1252	nd	0.75	nd	nd	nd	
22	Dolecek 1992 1579579	nd	RR	nd	1251	nd	0.68	nd	nd	nd	
23	Dolecek 1992 1579579	nd	HR	522	6258	nd	0.51845606	nd	nd	nd	<0.05
24	Hara 2013 23047296	61.4	HR	nd	239	nd	0.523560209	0.281690141	0.970873786	T2-3 vs. T1	0.0386
25	Hara 2013 23047296	83.5	HR	nd	236	nd	nd	nd	nd	nd	
26	Hara 2013 23047296	nd	HR	nd	237	nd	nd	nd	nd	nd	
27	Hara 2013 23047296	24.6	HR	nd	237	nd	0.689655172	0.374531835	1.265822785	T2-3 vs. T1	0.2315

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
28	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	EPA	Blood
29	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No statin	nd/671 (nd)	4 y	EPA	Blood
30	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	All n-3	Plasma
31	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	All n-3	Plasma
32	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	All n-3	Plasma
33	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	All n-3	Plasma
34	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	All n-3	Plasma
35	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DHA	Plasma
36	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DHA	Plasma
37	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DHA	Plasma
38	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DHA	Plasma
39	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DHA	Plasma
40	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	EPA	Plasma
41	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	EPA	Plasma
42	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	EPA	Plasma
43	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	EPA	Plasma
44	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	EPA	Plasma
45	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1517/2583 (58.7)	12y	ALA	Intake

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
28	Hara 2013 23047296	No	Propensity score	T2	mcg/mL	24.6	nd
29	Hara 2013 23047296	No	Propensity score	T3	mcg/mL	38.8	nd
30	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt1	% FA	nd	3.17
31	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt2	% FA	nd	3.72
32	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt3	% FA	nd	4.21
33	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt4	% FA	nd	4.8
34	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt5	% FA	nd	6.04
35	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt1	% FA	nd	1.95
36	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt2	% FA	nd	2.44
37	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt3	% FA	nd	2.87
38	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt4	% FA	nd	3.36
39	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt5	% FA	nd	4.34
40	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt1	% FA	nd	0.3
41	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt2	% FA	nd	0.41
42	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt3	% FA	nd	0.51
43	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt4	% FA	nd	0.64
44	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt5	% FA	nd	0.92
45	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt1	% fat intake	0.39	1.33

Appendix F

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
28	Hara 2013 23047296	38.8	HR	nd	237	nd	nd	nd	nd	nd	
29	Hara 2013 23047296	nd	HR	nd	238	nd	nd	nd	nd	nd	
30	Mozaffarian 2013 23546563	nd	HR	347	nd	5879	Reference group			P trend	<0.001
31	Mozaffarian 2013 23546563	nd	HR	343	nd	6158	0.9	0.78	1.05		
32	Mozaffarian 2013 23546563	nd	HR	340	nd	6077	0.93	0.8	1.08		
33	Mozaffarian 2013 23546563	nd	HR	309	nd	6242	0.85	0.72	0.99		
34	Mozaffarian 2013 23546563	nd	HR	286	nd	6437	0.7	0.59	0.83		
35	Mozaffarian 2013 23546563	nd	HR	349	nd	5999	Reference group			P trend	<0.001
36	Mozaffarian 2013 23546563	nd	HR	326	nd	6095	0.98	0.84	1.14		
37	Mozaffarian 2013 23546563	nd	HR	343	nd	6168	0.95	0.81	1.1		
38	Mozaffarian 2013 23546563	nd	HR	317	nd	6179	0.89	0.76	1.04		
39	Mozaffarian 2013 23546563	nd	HR	290	nd	6389	0.77	0.65	0.91		
40	Mozaffarian 2013 23546563	nd	HR	371	nd	5779	Reference group			P trend	0.001
41	Mozaffarian 2013 23546563	nd	HR	354	nd	5884	0.99	0.86	1.15		
42	Mozaffarian 2013 23546563	nd	HR	314	nd	6307	0.87	0.74	1.01		
43	Mozaffarian 2013 23546563	nd	HR	290	nd	6478	0.78	0.67	0.92		
44	Mozaffarian 2013 23546563	nd	HR	296	nd	6381	0.8	0.68	0.95		
45	Fretts 2014 25159901	1.45	HR	328	nd	4875	Reference group			P trend	<0.0001

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
46	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1517/2583 (58.7)	12y	ALA	Intake
47	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1517/2583 (58.7)	12y	ALA	Intake
48	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1517/2583 (58.7)	12y	ALA	Intake
49	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1517/2583 (58.7)	12y	ALA	Intake
50	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1757/2709 (64.9)	16y	ALA	Plasma
51	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1757/2709 (64.9)	16y	ALA	Plasma
52	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1757/2709 (64.9)	16y	ALA	Plasma
53	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1757/2709 (64.9)	16y	ALA	Plasma
54	Fretts 2014 25159901	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1757/2709 (64.9)	16y	ALA	Plasma
55	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DPA	Plasma
56	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DPA	Plasma
57	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DPA	Plasma
58	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DPA	Plasma
59	Mozaffarian 2013 23546563	Cardiovascular Health Study	Death, all-cause	Total mortality	Healthy	Healthy age >= 65y	All	1625/3941 (41.2)	16y	DPA	Plasma
60	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Men	1163/13355 (8.71)	7 y	EPA+DHA	Intake
61	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Men	1163/13355 (8.71)	7 y	EPA+DHA	Intake
62	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Men	1163/13355 (8.71)	7 y	EPA+DHA	Intake
63	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Men	1163/13355 (8.71)	7 y	EPA+DHA	Intake
64	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Men	1163/13355 (8.71)	7 y	EPA+DHA	Intake
65	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Women	899/17125 (5.25)	7 y	EPA+DHA	Intake
66	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Women	899/17125 (5.25)	7 y	EPA+DHA	Intake
67	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Women	899/17125 (5.25)	7 y	EPA+DHA	Intake
68	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Women	899/17125 (5.25)	7 y	EPA+DHA	Intake

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
46	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt2	% fat intake	1.45	1.56
47	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt3	% fat intake	1.65	1.76
48	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt4	% fat intake	1.87	2
49	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt5	% fat intake	2.17	2.44
50	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt1	% FA	0.05	0.09
51	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt2	% FA	0.11	0.12
52	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt3	% FA	0.13	0.14
53	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt4	% FA	0.15	0.17
54	Fretts 2014 25159901	no	age, sex, race, enrolment site, education, smoking status, diabetes, BMI, waist circumference, physical activity, alcohol consumption and treated hypertension.	Qt5	% FA	0.19	0.22
55	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt1	% FA	nd	0.63
56	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt2	% FA	nd	0.75
57	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt3	% FA	nd	0.82
58	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt4	% FA	nd	0.91
59	Mozaffarian 2013 23546563	no	Adjusted for age (years), sex, race (white, nonwhite), education(<high school, high school, some college, college graduate), enrollment site (4 sites), fatty acid measurement batch (1994–96, 2007–10), smoking (never, former, current), prevalent diabetes (yes, no), prevalent atrial fibrillation (yes, no), prevalent drug-treated hypertension (yes, no), leisure-time physical activity (mcal/week), body mass index (kg/m2), waist circumference (cm), and alcohol use (6 categories).	Qt5	% FA	nd	1.04
60	Nagata 2002 12397000	No	age, total energy, marital status, BMI, smoking status, alcohol intake, coffee intake, exercise, and history of hypertension and diabetes	Qt1	mg/d	nd	410
61	Nagata 2002 12397000	No	age, total energy, marital status, BMI, smoking status, alcohol intake, coffee intake, exercise, and history of hypertension and diabetes	Qt2	mg/d	nd	602
62	Nagata 2002 12397000	No	age, total energy, marital status, BMI, smoking status, alcohol intake, coffee intake, exercise, and history of hypertension and diabetes	Qt3	mg/d	nd	788
63	Nagata 2002 12397000	No	age, total energy, marital status, BMI, smoking status, alcohol intake, coffee intake, exercise, and history of hypertension and diabetes	Qt4	mg/d	nd	1051
64	Nagata 2002 12397000	No	age, total energy, marital status, BMI, smoking status, alcohol intake, coffee intake, exercise, and history of hypertension and diabetes	Qt5	mg/d	nd	1582
65	Nagata 2002 12397000	No	age,total energy, marital status, years of education, alcohol intake, smoking status(never, former, current), age at menarche, menopausal status, exercise, and history of diabetes mellitus	Qt1	mg/d	nd	332
66	Nagata 2002 12397000	No	age,total energy, marital status, years of education, alcohol intake, smoking status(never, former, current), age at menarche, menopausal status, exercise, and history of diabetes mellitus	Qt2	mg/d	nd	486
67	Nagata 2002 12397000	No	age,total energy, marital status, years of education, alcohol intake, smoking status(never, former, current), age at menarche, menopausal status, exercise, and history of diabetes mellitus	Qt3	mg/d	nd	635
68	Nagata 2002 12397000	No	age,total energy, marital status, years of education, alcohol intake, smoking status(never, former, current), age at menarche, menopausal status, exercise, and history of diabetes mellitus	Qt4	mg/d	nd	832

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Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
46	Fretts 2014 25159901	1.65	HR	328	nd	4987	0.98	0.84	1.15		
47	Fretts 2014 25159901	1.87	HR	301	nd	5096	0.88	0.75	1.03		
48	Fretts 2014 25159901	2.17	HR	298	nd	5291	0.86	0.73	1.02		
49	Fretts 2014 25159901	4.88	HR	262	nd	5600	0.73	0.61	0.88		
50	Fretts 2014 25159901	0.11	HR	360	nd	6483	Reference group			P trend	0.11
51	Fretts 2014 25159901	0.13	HR	354	nd	6025	1.09	0.93	1.26		
52	Fretts 2014 25159901	0.15	HR	359	nd	6315	1.09	0.94	1.27		
53	Fretts 2014 25159901	0.19	HR	331	nd	6352	0.95	0.81	1.11		
54	Fretts 2014 25159901	0.47	HR	353	nd	6936	0.93	0.79	1.08		
55	Mozaffarian 2013 23546563	nd	HR	353	nd	5963	Reference group			P trend	0.004
56	Mozaffarian 2013 23546563	nd	HR	307	nd	6209	0.77	0.66	0.9		
57	Mozaffarian 2013 23546563	nd	HR	330	nd	6262	0.82	0.71	0.96		
58	Mozaffarian 2013 23546563	nd	HR	332	nd	6083	0.82	0.71	0.96		
59	Mozaffarian 2013 23546563	nd	HR	303	nd	6312	0.76	0.65	0.89		
60	Nagata 2002 12397000	nd	HR	205	18281 pt-yrs		Reference group			P trend	0.38
61	Nagata 2002 12397000	nd	HR	198	18315 pt-yrs		0.82	0.67	0.99		
62	Nagata 2002 12397000	nd	HR	225	nd	18186	0.87	0.72	1.05		
63	Nagata 2002 12397000	nd	HR	258	nd	18138	0.88	0.73	1.06		
64	Nagata 2002 12397000	nd	HR	277	nd	18116	0.87	0.73	1.05		
65	Nagata 2002 12397000	nd	HR	216	nd	21838	Reference group			P trend	0.01
66	Nagata 2002 12397000	nd	HR	179	nd	22111	0.92	0.76	1.13		
67	Nagata 2002 12397000	nd	HR	163	nd	22032	0.84	0.69	1.04		
68	Nagata 2002 12397000	nd	HR	178	nd	22025	0.9	0.73	1.09		

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
69	Nagata 2002 12397000	Takayama	Death, all-cause	all cause mortality	Healthy	Healthy >35, from Takayama	Women	899/17125 (5.25)	7 y	EPA+DHA	Intake
70	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA	Intake
71	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA	Intake
72	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA	Intake
73	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA	Intake
74	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA	Intake
75	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	DHA	Intake
76	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	DHA	Intake
77	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	DHA	Intake
78	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	DHA	Intake
79	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	DHA	Intake
80	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA+DHA	Intake
81	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA+DHA	Intake
82	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA+DHA	Intake
83	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA+DHA	Intake
84	Takata 2013 23788668	Shanghai Women's and Men's Health Studies	Death, all-cause	nd	Healthy	Healthy 40-74	All	5836/134296 (4.35)	11.2 y women; 5.6 y men	EPA+DHA	Intake
85	Warensjo 2008 18614742	ULSAM	Death, all-cause	Total Mortality	Healthy	Healthy	All	1012/2009 (19.0/ 1000 person-yrs)	30.7	ALA	Plasma
86	Warensjo 2008 18614742	ULSAM	Death, all-cause	Total Mortality	Healthy	Healthy	All	1012/2009 (19.0/ 1000 person-yrs)	30.7	EPA	Plasma

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
69	Nagata 2002 12397000	No	age,total energy, marital status, years of education, alcohol intake, smoking status(never, former, current), age at menarche, menopausal status, exercise, and history of diabetes mellitus	Qt5	mg/d	nd	1253
70	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt1	g/d	nd	0.006 (men), 0.005 (women)
71	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt2	g/d	nd	0.01 (men), 0.01 (women)
72	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt3	g/d	nd	0.02 (men), 0.02 (women)
73	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt4	g/d	nd	0.03 (men), 0.03 (women)
74	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt5	g/d	nd	0.07 (men), 0.06 (women)
75	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt1	g/d	nd	0.009 (men), 0.008 (women)
76	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt2	g/d	nd	0.02 (men), 0.02 (women)
77	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt3	g/d	nd	0.05 (men), 0.04 (women)
78	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt4	g/d	nd	0.08 (men), 0.08 (women)
79	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt5	g/d	nd	0.15 (men), 0.15 (women)
80	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt1	g/d	nd	nd
81	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt2	g/d	nd	nd
82	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt3	g/d	nd	nd
83	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt4	g/d	nd	nd
84	Takata 2013 23788668	No	age at baseline, total energy intake, income, occupation, education, comorbidity index, physical activity level, red meat intake, poultry intake, total vegetable intake, total fruit intake, smoking history (ever/never smoking for women; pack-years of smoking for men), and alcohol consumption (among men only).	Qt5	g/d	nd	nd
85	Warensjo 2008 18614742	NA	total cholestrol, BMI, smoking, physical activity, hypertension	All	% FA	nd	0.66 (SD = 0.16)
86	Warensjo 2008 18614742	NA	total cholestrol, BMI, smoking, physical activity, hypertension	All	% FA	0.9	1.3

Appendix F

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
69	Nagata 2002 12397000	nd	HR	163	nd	22118	0.77	0.52	0.94		
70	Takata 2013 23788668	nd	HR	2043	26860	nd	Reference group			P trend	<0.0001
71	Takata 2013 23788668	nd	HR	1220	nd	nd	0.88	0.81	0.94		
72	Takata 2013 23788668	nd	HR	1015	26860	nd	0.89	0.82	0.96		
73	Takata 2013 23788668	nd	HR	855	nd	nd	0.89	0.81	0.97		
74	Takata 2013 23788668	nd	HR	703	26858	nd	0.79	0.72	0.87		
75	Takata 2013 23788668	nd	HR	2057	26860	nd	Reference group			P trend	<0.0001
76	Takata 2013 23788668	nd	HR	1189	nd	nd	0.84	0.78	0.91		
77	Takata 2013 23788668	nd	HR	991	26860	nd	0.86	0.79	0.93		
78	Takata 2013 23788668	nd	HR	885	nd	nd	0.88	0.81	0.96		
79	Takata 2013 23788668	nd	HR	714	26858	nd	0.78	0.71	0.86		
80	Takata 2013 23788668	nd	HR	2053	26860	nd	Reference group			P trend	<0.0001
81	Takata 2013 23788668	nd	HR	1197	nd	nd	0.86	0.8	0.93		
82	Takata 2013 23788668	nd	HR	993	26860	nd	0.87	0.87	0.94		
83	Takata 2013 23788668	nd	HR	881	nd	nd	0.9	0.9	0.98		
84	Takata 2013 23788668	nd	HR	712	26858	nd	0.79	0.79	0.87		
85	Warensjo 2008 18614742	nd	HR	nd	nd	nd	1.03	0.97	1.1	Per % FA unit	
86	Warensjo 2008 18614742	1.6	HR	nd	nd	nd	1	0.94	1.08	Per % FA unit	

Appendix F

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
87	Warensjo 2008 18614742	ULSAM	Death, all-cause	Total Mortality	Healthy	Healthy	All	1012/2009 (19.0/ 1000 person-yrs)	30.7	DHA	Plasma
88	Yamagishi 2008 18786479	JACC	Death, all-cause	nd	Healthy	Healthy 40-79 yo	All	7008/57972 (12.09)	12.7 y	All n-3	Intake
89	Yamagishi 2008 18786479	JACC	Death, all-cause	nd	Healthy	Healthy 40-79 yo	All	7008/57972 (12.09)	12.7 y	All n-3	Intake
90	Yamagishi 2008 18786479	JACC	Death, all-cause	nd	Healthy	Healthy 40-79 yo	All	7008/57972 (12.09)	12.7 y	All n-3	Intake
91	Yamagishi 2008 18786479	JACC	Death, all-cause	nd	Healthy	Healthy 40-79 yo	All	7008/57972 (12.09)	12.7 y	All n-3	Intake
92	Yamagishi 2008 18786479	JACC	Death, all-cause	nd	Healthy	Healthy 40-79 yo	All	7008/57972 (12.09)	12.7 y	All n-3	Intake
93	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA+DHA	Intake
94	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA+DHA	Intake
95	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA+DHA	Intake

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
87	Warensjo 2008 18614742	NA	total cholestrol, BMI, smoking, physical activity, hypertension	All	% FA	0.56	0.68
88	Yamagishi 2008 18786479	No	age, sex, htn and dm history, smoking status, alcohol consumption, BMI, mental stress, walking, sports, education, total energy, dietary intake of cholesterol/saturated and omega-3FA/vegetables/fruit	Qt1	g/d	0.05	nd
89	Yamagishi 2008 18786479	No	age, sex, htn and dm history, smoking status, alcohol consumption, BMI, mental stress, walking, sports, education, total energy, dietary intake of cholesterol/saturated and omega-3FA/vegetables/fruit	Qt2	g/d	1.18	nd
90	Yamagishi 2008 18786479	No	age, sex, htn and dm history, smoking status, alcohol consumption, BMI, mental stress, walking, sports, education, total energy, dietary intake of cholesterol/saturated and omega-3FA/vegetables/fruit	Qt3	g/d	1.47	nd
91	Yamagishi 2008 18786479	No	age, sex, htn and dm history, smoking status, alcohol consumption, BMI, mental stress, walking, sports, education, total energy, dietary intake of cholesterol/saturated and omega-3FA/vegetables/fruit	Qt4	g/d	1.75	nd
92	Yamagishi 2008 18786479	No	age, sex, htn and dm history, smoking status, alcohol consumption, BMI, mental stress, walking, sports, education, total energy, dietary intake of cholesterol/saturated and omega-3FA/vegetables/fruit	Qt5	g/d	2.11	nd
93	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr1	g/day	0	nd
94	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr2	g/day	0.082	nd
95	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr3	g/day	0.174	nd

Appendix F

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
87	Warensjo 2008 18614742	0.81	HR	nd	nd	nd	0.95	0.89	1.02	Per % FA unit	
88	Yamagishi 2008 18786479	1.18	HR	1252	11594	735904	Reference group				0.1
89	Yamagishi 2008 18786479	1.47	HR	1262	11595	735904	0.97	0.9	1.06		
90	Yamagishi 2008 18786479	1.75	HR	1328	11594	735904	0.94	0.86	1.02		
91	Yamagishi 2008 18786479	2.11	HR	1415	11595	735904	0.94	0.85	1.03		
92	Yamagishi 2008 18786479	5.06	HR	1751	11594	735904	0.92	0.84	1.02		
93	Bell 2014 24496442	0.082	HR	935	17703	nd	1	nd	nd		0.004
94	Bell 2014 24496442	0.174	HR	785	17485	nd	0.83	0.75	0.91		
95	Bell 2014 24496442	0.322	HR	667	17601	nd	0.69	0.62	0.76		

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
96	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA+DHA	Intake
97	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA	Intake
98	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA	Intake
99	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA	Intake

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
96	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr4	g/day	0.322	nd
97	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr1	g/day	0	nd
98	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr2	g/day	0.027	nd
99	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr3	g/day	0.058	nd

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
96	Bell 2014 24496442	nd	HR	650	17498	nd	0.64	0.58	0.71		
97	Bell 2014 24496442	0.027	HR	922	17573	nd	1	nd	nd		0.014
98	Bell 2014 24496442	0.058	HR	762	17571	nd	0.81	0.73	0.89		
99	Bell 2014 24496442	0.112	HR	664	17572	nd	0.69	0.62	0.76		

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
100	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	EPA	Intake
101	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	DHA	Intake
102	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	DHA	Intake
103	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	DHA	Intake

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
100	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr4	g/day	0.112	nd
101	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr1	g/day	0	nd
102	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr2	g/day	0.054	nd
103	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr3	g/day	0.113	nd

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
100	Bell 2014 24496442	nd	HR	689	17571	nd	0.68	0.62	0.76		
101	Bell 2014 24496442	0.054	HR	933	17572	nd	1	nd	nd		0.004
102	Bell 2014 24496442	0.113	HR	806	17572	nd	0.84	0.76	0.92		
103	Bell 2014 24496442	0.207	HR	662	17572	nd	0.69	0.62	0.76		

Observational results: all-cause death

Outcome	Study PMID	Study Name	Outcome2	Outcome Definition	Population Type	Population	Subgroup	Cases Total/N Total (Rate %)	Followup	n3 FA	n3 measure
104	Bell 2014 24496442	VITAL	Death, all-cause	Total mortality	Healthy	Men and women aged 50-76	All	3037/70287 (0.04)	6 y	DHA	Intake
106	**Subgroup analyses**										
107	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	DM	nd/250 (nd)	4 y	EPA	Blood
108	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No DM	nd/462 (nd)	4 y	EPA	Blood
109	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	HTN	nd/470 (nd)	4 y	EPA	Blood
110	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No HTN	nd/232 (nd)	4 y	EPA	Blood
111	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	Statin	nd/431 (nd)	4 y	EPA	Blood
112	Hara 2013 23047296	Osaka Acute Coronary Insufficiency Study	Death, all-cause	nd	CVD	AMI patients	No Statin	nd/281 (nd)	4 y	EPA	Blood

Observational results: all-cause death

Outcome	Study PMID	Supplement	Adjustments	Quantile	n3 units	Quantile low	Quantile median
104	Bell 2014 24496442	yes	age (as the time scale), sex, race/ethnicity, marital status (married/living together, never married, separated/divorced, widowed, or missing), education (high school graduate or less, some college, or college/advanced degree), total energy intake (kcal/day; continuous), body mass index (weight (kg)/height (m)2 (none, <1 drink/day, 1–2 drinks/day, >2 drinks/day, or missing), average physical activity in the 10 years before baseline (MET-hours/week; tertiles), self-rated health (excellent, very good, good, fair, or poor), mammogram in the last 2 years (yes/no), prostate-specific antigen test in the last 2 years (yes/no), sigmoidoscopy in the last 10 years (yes/no), current use of cholesterol-lowering medication (yes/no), aspirin use in the past 10 years (none, low, high, or missing), use of nonaspirin nonsteroidal antiinflammatory drugs in the past 10 years (none, low, high, or missing), smoking (never, 1–12.5 pack-years, 12.6–35.0 pack-years, or >35.0 pack-years), morbidity score,c percentage of calories derived from trans fat (quartiles), percentage of calories derived from saturated fat (quartiles), number of servings per day of fruits (quartiles), number of servings per day of vegetables (quartiles), years of estrogen therapy (none, <5, 5–9, ≥10, or missing), years of estrogen + progestin therapy (none, <5, 5–9, ≥10, or missing), age at menopause (≤39 years, 40–44 years, 45–49 years, 50–54 years, ≥55 years, or missing), age at death of father (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years), and age at death of mother (≤59 years, 60–69 years, 70–79 years, 80–89 years, or ≥90 years)	Qr4	g/day	0.207	nd
106	**Subgroup analyses**						
107	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd
108	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd
109	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd
110	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd
111	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd
112	Hara 2013 23047296	No	No	T1 vs. T2-3	nd	nd	nd

Observational results: all-cause death

Outcome	Study PMID	Quantile high	Metric	n Cases	N quantile	Person Years	Estimate	CI low	CI high	Comparison	P value
104	Bell 2014 24496442	nd	HR	636	17572	nd	0.63	0.57	0.69		
106	**Subgroup analyses**										
107	Hara 2013 23047296	nd	HR	nd	nd	nd	2.73	1.06	7.03	DM interaction	0.0887
108	Hara 2013 23047296	nd	HR	nd	nd	nd	0.92	0.4	2.1		
109	Hara 2013 23047296	nd	HR	nd	nd	nd	0.96	0.47	1.96	HTN interaction	0.0145
110	Hara 2013 23047296	nd	HR	nd	nd	nd	8.23	1.75	38.77		
111	Hara 2013 23047296	nd	HR	nd	nd	nd	2.64	1.11	6.26	Statin interaction	0.0615
112	Hara 2013 23047296	nd	HR	nd	nd	nd	0.83	0.35	2.01		