

Supplementary Online Content

**Supplement table S1 Associations of olive oil and other vegetable oil consumption with heart disease and stroke mortality**

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**Supplement Table S1 Associations of olive oil and other vegetable oil consumption with heart disease and stroke mortality**

	Vegetable oil consumption	
	No	Yes
<b>Olive oil</b>		
<b>Heart disease mortality</b>		
Deaths/person-years	118/19592	62/19473
Model 1	1.00 (Ref.)	<b>0.44 (0.27-0.72)</b>
Model 2	1.00 (Ref.)	<b>0.56 (0.32-0.97)</b>
Model 3	1.00 (Ref.)	<b>0.55 (0.32-0.97)</b>
<b>Stroke mortality</b>		
Deaths/person-years	25/19592	15/19473
Model 1	1.00 (Ref.)	0.75 (0.30-1.88)
Model 2	1.00 (Ref.)	0.83 (0.31-2.21)
Model 3	1.00 (Ref.)	0.81 (0.31-2.09)
<b>Corn oil</b>		
<b>Heart disease mortality</b>		
Deaths/person-years	115/26333	65/12732
Model 1	1.00 (Ref.)	1.56 (0.96-2.52)
Model 2	1.00 (Ref.)	1.31 (0.79-2.17)
Model 3	1.00 (Ref.)	1.33 (0.81-2.17)
<b>Stroke mortality</b>		
Deaths/person-years	27/26333	13/12732
Model 1	1.00 (Ref.)	0.95 (0.41-2.20)
Model 2	1.00 (Ref.)	0.94 (0.36-2.45)
Model 3	1.00 (Ref.)	0.95 (0.37-2.40)
<b>Canola/rapeseed oil</b>		
<b>Heart disease mortality</b>		
Deaths/person-years	124/24388	56/14677
Model 1	1.00 (Ref.)	0.81 (0.47-1.40)
Model 2	1.00 (Ref.)	1.00 (0.58-1.75)
Model 3	1.00 (Ref.)	1.00 (0.56-1.80)
<b>Stroke mortality</b>		
Deaths/person-years	31/24388	9/14677
Model 1	1.00 (Ref.)	1.17 (0.49-2.80)
Model 2	1.00 (Ref.)	1.16 (0.49-2.79)
Model 3	1.00 (Ref.)	1.12 (0.47-2.65)

Model 1: Adjusted for age, sex, and race/ethnicity.

Model 2: Adjusted for covariates in model 1 plus education, family income, smoking status, alcohol intake, physical activity, HEI-2015, and total energy intake.

Model 3: Adjusted for covariates in model 2 plus body mass index (calculated as  $\text{kg/m}^2$ ).

**Supplement Table S2 Associations of vegetable oil consumption with heart disease and stroke mortality**

	Vegetable oil consumption			
	No vegetable oil	Olive oil exclusively	Olive oil and other vegetable oil	Other vegetable oil
<b>Heart disease mortality</b>				
Deaths/person-years	39/4276	18/7401	40/11427	83/15963
Model 1	1.00 (Ref.)	<b>0.27 (0.15-0.48)</b>	0.43 (0.21-0.87)	0.76 (0.52-1.11)
Model 2	1.00 (Ref.)	<b>0.33 (0.16-0.69)</b>	0.56 (0.24-1.31)	0.76 (0.49-1.18)
Model 3	1.00 (Ref.)	<b>0.34 (0.17-0.70)</b>	0.58 (0.25-1.35)	0.78 (0.50-1.22)
<b>Stroke mortality</b>				
Deaths/person-years	7/4276	7/7401	8/11427	18/15963
Model 1	1.00 (Ref.)	0.44 (0.10-1.92)	0.60 (0.15-2.43)	0.56 (0.15-2.08)
Model 2	1.00 (Ref.)	0.56 (0.14-2.31)	0.75 (0.16-3.44)	0.66 (0.18-2.41)
Model 3	1.00 (Ref.)	0.54 (0.13-2.23)	0.70 (0.16-2.96)	0.65 (0.19-2.19)

Model 1: Adjusted for age, sex, and race/ethnicity.

Model 2: Adjusted for covariates in model 1 plus education, family income, smoking status, alcohol intake, physical activity, HEI-2015, and total energy intake.

Model 3: Adjusted for covariates in model 2 plus body mass index (calculated as kg/m<sup>2</sup>).

**Supplement Table S3 Associations of exclusive olive oil consumption frequency with heart disease and stroke mortality**

	No vegetable oil	Frequency of exclusive olive oil consumption	
		<1 time/mo to ≤1 time/wk	≥2 times/wk
Heart disease mortality			
Deaths/person-years	39/4276	9/3762	9/3639
Model 1	1.00 (Ref.)	0.31 (0.13-0.74)	0.26 (0.12-0.59)
Model 2	1.00 (Ref.)	0.30 (0.09-0.94)	0.21 (0.08-0.57)
Model 3	1.00 (Ref.)	0.32 (0.10-1.08)	0.22 (0.08-0.60)
Stroke mortality			
Deaths/person-years	7/4276	5/3762	2/3639
Model 1	1.00 (Ref.)	0.65 (0.10-4.27)	0.31 (0.04-2.22)
Model 2	1.00 (Ref.)	0.81 (0.26-2.57)	0.29 (0.03-2.55)
Model 3	1.00 (Ref.)	0.85 (0.25-2.82)	0.26 (0.04-1.65)

Model 1: Adjusted for age, sex, and race/ethnicity.

Model 2: Adjusted for covariates in model 1 plus education, family income, smoking status, alcohol intake, physical activity, HEI-2015, and total energy intake.

Model 3: Adjusted for covariates in model 2 plus body mass index (calculated as kg/m<sup>2</sup>).

**Supplement Table S4 Associations of exclusive corn oil consumption frequency with heart disease and stroke mortality**

	No vegetable oil	Frequency of exclusive corn oil consumption	
		<1 time/mo to ≤1 time/wk	≥2 times/wk
Heart disease mortality			
Deaths/person-years	39/4276	14/2535	17/2856
Model 1	1.00 (Ref.)	0.96 (0.46-2.02)	0.66 (0.37-1.18)
Model 2	1.00 (Ref.)	0.57 (0.28-1.15)	0.50 (0.23-1.09)
Model 3	1.00 (Ref.)	0.58 (0.28-1.21)	0.51 (0.23-1.13)
Stroke mortality			
Deaths/person-years	7/4276	3/2535	5/2856
Model 1	1.00 (Ref.)	0.27 (0.05-1.53)	0.35 (0.09-1.36)
Model 2	1.00 (Ref.)	0.36 (0.06-2.25)	0.41 (0.12-1.35)
Model 3	1.00 (Ref.)	0.20 (0.01-2.96)	0.36 (0.10-1.33)

Model 1: Adjusted for age, sex, and race/ethnicity.

Model 2: Adjusted for covariates in model 1 plus education, family income, smoking status, alcohol intake, physical activity, HEI-2015, and total energy intake.

Model 3: Adjusted for covariates in model 2 plus body mass index (calculated as kg/m<sup>2</sup>).

**Supplement Table 5 Associations of exclusive canola oil consumption frequency with heart disease and stroke mortality**

	No vegetable oil	Frequency of exclusive canola oil consumption	
		<1 time/mo to ≤1 time/wk	≥2 times/wk
Heart disease mortality			
Deaths/person-years	39/4276	10/2477	13/2453
Model 1	1.00 (Ref.)	0.37 (0.16-0.87)	0.83 (0.36-1.91)
Model 2	1.00 (Ref.)	0.31 (0.12-0.78)	0.60 (0.21-1.68)
Model 3	1.00 (Ref.)	0.30 (0.12-0.78)	0.62 (0.22-1.73)
Stroke mortality			
Deaths/person-years	7/4276	2/2477	2/2453
Model 1	1.00 (Ref.)	1.28 (0.29-5.75)	0.21 (0.02-1.77)
Model 2	1.00 (Ref.)	1.43 (0.34-6.00)	0.75 (0.08-6.60)
Model 3	1.00 (Ref.)	1.20 (0.37-3.84)	0.80 (0.08-7.84)

Model 1: Adjusted for age, sex, and race/ethnicity.

Model 2: Adjusted for covariates in model 1 plus education, family income, smoking status, alcohol intake, physical activity, HEI-2015, and total energy intake.

Model 3: Adjusted for covariates in model 2 plus body mass index (calculated as kg/m<sup>2</sup>).