

ONLINE SUPPLEMENTARY MATERIAL

Replacement of potatoes with other vegetables and risk of myocardial infarction in the Danish Diet, Cancer and Health cohort

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Supplemental table S1

Hazard ratios (HR) and 95% CI for myocardial infarction associated with substitutions between vegetable groups among women in the Diet, Cancer and Health cohort (n=29,142)

	HR (95% CI) Model 1a [*]	HR (95% CI) Model 1b [†]	HR (95% CI) Model 2 [‡]
250 kcal/week			
Other vegetables for potatoes	0.87 (0.80, 0.95)	0.92 (0.83, 1.03)	0.96 (0.86, 1.08)
Fruiting vegetables for potatoes	0.76 (0.62, 0.94)	0.93 (0.76, 1.13)	0.95 (0.78, 1.17)
Root vegetables for potatoes	0.76 (0.63, 0.91)	0.86 (0.72, 1.03)	0.91 (0.76, 1.08)
Fruiting for root vegetables	1.00 (0.75, 1.34)	1.07 (0.81, 1.42)	1.05 (0.79, 1.39)
100 kcal/week			
Cabbage for potatoes	1.01 (0.82, 1.24)	1.09 (0.89, 1.33)	1.11 (0.90, 1.36)
Cabbage for fruiting vegetables	1.12 (0.88, 1.43)	1.12 (0.89, 1.42)	1.13 (0.89, 1.43)
Cabbage for root vegetables	1.12 (0.89, 1.42)	1.15 (0.92, 1.45)	1.15 (0.92, 1.44)

^{*} Model 1a was stratified by age and date of enrolment and further adjusted for age and total energy intake (kcal). To explore the vegetable substitutions we used the leave-one-out method (please see the statistical methods section for more details). For example, the substitution of other vegetables (fruiting vegetables, root vegetables, cabbage, and remaining vegetables) for potatoes was specified in the statistical models by inclusion of other vegetables and the total sum of potatoes and other vegetables.

[†] Model 1b: as model 1a plus BMI, waist circumference, length of education, smoking status, physical activity, alcohol abstinence, alcohol intake, menopausal status, and use of postmenopausal hormones.

[‡] Model 2: as model 1b plus fruits, unprocessed red meat, processed red meat, poultry, lean fish, fatty fish, lean dairy products, fatty dairy products, refined grains, whole grains, nuts, potato chips, sweets, and soft drinks.

Supplemental table S2

Hazard ratios (HR) and 95% CI for myocardial infarction associated with substitutions between vegetable groups among men in the Diet, Cancer and Health cohort (n=26,029)

	HR (95% CI) Model 1a [*]	HR (95% CI) Model 1b [†]	HR (95% CI) Model 2 [‡]
250 kcal/week			
Other vegetables for potatoes	0.91 (0.86, 0.95)	0.99 (0.92, 1.07)	1.03 (0.95, 1.11)
Fruiting vegetables for potatoes	0.76 (0.67, 0.87)	0.92 (0.81, 1.05)	0.95 (0.83, 1.08)
Root vegetables for potatoes	0.95 (0.84, 1.08)	1.03 (0.91, 1.16)	1.07 (0.95, 1.21)
Fruiting for root vegetables	0.80 (0.66, 0.97)	0.89 (0.74, 1.08)	0.89 (0.73, 1.07)
100 kcal/week			
Cabbage for potatoes	0.99 (0.86, 1.12)	1.05 (0.92, 1.19)	1.06 (0.93, 1.21)
Cabbage for fruiting vegetables	1.10 (0.94, 1.28)	1.08 (0.93, 1.26)	1.08 (0.93, 1.26)
Cabbage for root vegetables	1.00 (0.87, 1.16)	1.03 (0.89, 1.20)	1.03 (0.89, 1.19)

^{*} Model 1a was stratified by age and date of enrolment and further adjusted for age and total energy intake (kcal). To explore the vegetable substitutions we used the leave-one-out method (please see the statistical methods section for more details). For example, the substitution of other vegetables (fruiting vegetables, root vegetables, cabbage, and remaining vegetables) for potatoes was specified in the statistical models by inclusion of other vegetables and the total sum of potatoes and other vegetables.

[†] Model 1b: as model 1a plus BMI, waist circumference, length of education, smoking status, physical activity, alcohol abstinence, and alcohol intake.

[‡] Model 2: as model 1b plus fruits, unprocessed red meat, processed red meat, poultry, lean fish, fatty fish, lean dairy products, fatty dairy products, refined grains, whole grains, nuts, potato chips, sweets, and soft drinks.

Supplemental table S3

Hazard ratios (HR) and 95% CI for myocardial infarction associated with substitutions between vegetable groups among women according to quintiles of energy adjusted other vegetable intake in the Diet, Cancer and Health cohort (n=29,142)

	Q1 HR (95% CI)	Q3 HR (95% CI)	Q5 HR (95% CI)	Likelihood ratio test, <i>p-value</i> [†]
200 g/week				
Other vegetables for potatoes	0.92 (0.78, 1.08)	1.03 (0.67, 1.58)	1.03 (0.92, 1.16)	0.46
Fruiting vegetables for potatoes	1.09 (0.81, 1.46)	0.93 (0.59, 1.48)	0.94 (0.80, 1.11)	0.31
Root vegetables for potatoes	0.75 (0.50, 1.13)	0.97 (0.61, 1.55)	1.02 (0.90, 1.16)	0.27
Cabbage for potatoes	0.66 (0.32, 1.35)	1.40 (0.78, 2.50)	1.15 (0.87, 1.50)	0.27

* The Cox models were stratified by age and date of enrolment and further adjusted for age, total energy intake, BMI, waist circumference, length of education, smoking status, physical activity, alcohol abstinence, alcohol intake, menopausal status, and use of postmenopausal hormones.

† The test for interaction was performed in Cox models without and with interaction terms between other vegetable intake and the two exposures of interest in each substitution analysis (e.g. interaction terms with cabbage and potatoes in the analysis of substitution of cabbage for potatoes).

Supplemental table S4

Hazard ratios (HR) and 95% CI for myocardial infarction associated with substitutions between vegetable groups among men according to quintiles of energy adjusted other vegetable intake in the Diet, Cancer and Health cohort (n=26,029)

	Q1 HR (95% CI)	Q3 HR (95% CI)	Q5 HR (95% CI)	Likelihood ratio test, <i>p-value</i> [†]
200 g/week				
Other vegetables for potatoes	0.94 (0.83, 1.07)	0.96 (0.75, 1.23)	1.01 (0.96, 1.07)	0.68
Fruiting vegetables for potatoes	0.79 (0.62, 1.02)	0.90 (0.69, 1.18)	1.03 (0.94, 1.13)	0.13
Root vegetables for potatoes	0.97 (0.65, 1.46)	1.03 (0.77, 1.36)	1.00 (0.94, 1.07)	0.99
Cabbage for potatoes	1.06 (0.64, 1.78)	1.20 (0.84, 1.71)	1.06 (0.86, 1.30)	0.72

* The Cox models were stratified by age and date of enrolment and further adjusted for age, total energy intake, BMI, waist circumference, length of education, smoking status, physical activity, alcohol abstinence, and alcohol intake.

† The test for interaction was performed in Cox models without and with interaction terms between other vegetable intake and the two exposures of interest in each substitution analysis (e.g. interaction terms with cabbage and potatoes in the analysis of substitution of cabbage for potatoes).