

Family History of MI, Smoking, and Risk of Periodontal Disease

Y.H. Yu, L. Doucette-Stamm, J. Rogus, K. Moss, R.Y.L. Zee, B. Steffensen, P.M. Ridker, J.E. Buring, S. Offenbacher, K. Kornman, and D.I. Chasman

Appendix

Appendix Table 1. Association between CDC/AAP Definition of Severe Periodontitis by Family History of MI and Smoking from the Dental ARIC Study

	Group 1 Fam Hx MI (-) Smoker (-)	Group 2 Fam Hx MI (+) Smoker (-)	Group 3 Fam Hx MI (-) Smoker (+)	Group 4 Fam Hx MI (+) Smoker (+)
		Odds Ratio (95% CI)	Odds Ratio (95% CI)	Odds Ratio (95% CI)
Model 1	Ref.	1.02 (0.88-1.18)	2.61 (2.12-3.22)	2.54 (1.97-3.28)
Model 2	Ref.	1.07 (0.92-1.25)	2.89 (2.31-3.62)	3.13 (2.39-4.10)
Model 3	Ref.	1.06 (0.91-1.24)	2.73 (2.17-3.44)	3.02 (2.29 -3.99)

Model 1 = Unadjusted logistic regression

Model 2 = adjusted for: age, race/center, gender, diabetes, and BMI

Model 3 = adjusted for: age, race/center, gender, diabetes, BMI, education (3-levels) and income (3-levels)

Appendix Table 2. Risk of Ever-Having Periodontal Disease Using Multi-variate Logistic Regression Model in the WGHS

	Odds Ratio (95% CI)	P-value
Group 1 Fam Hx MI (-) /Smoker (-)	Ref.	Ref.
Group 2 Fam Hx MI (+) /Smoker (-)	<i>1.22 (1.05-1.42)</i>	<i>0.009</i>
Group 3 Fam Hx MI (-) /Smoker (+)	<i>1.91 (1.77-2.06)</i>	<i><2e-16</i>
Group 4 Fam Hx MI (+) /Smoker (+)	<i>2.11 (1.84-2.41)</i>	<i><2e-16</i>
Age	<i>1.03 (1.02-1.03)</i>	<i><2e-16</i>
BMI	1.00 (1.00-1.01)	0.7
Bachelor's degree	<i>1.19 (1.10-1.27)</i>	<i>3.32e-06</i>
Income	<i>1.04 (1.02-1.07)</i>	<i>0.002</i>
Incd Diabetes	1.07 (0.93-1.24)	0.325
HRT	1.07 (0.99-1.15)	0.097
CRP (mg/L) †	<i>0.96 (0.92-1.00)</i>	<i>0.049</i>
HDL (mg/dL) †	0.98 (0.95-1.02)	0.349
LDL (mg/dL) †	<i>1.08 (1.04-1.11)</i>	<i>2.86e-05</i>
ICAM (ng/ml) †	<i>1.09 (1.05-1.13)</i>	<i>2.04e-06</i>
Fibrinogen (mg/dL) †	<i>1.06 (1.02-1.10)</i>	<i>0.003</i>

† Standardized serum levels. 1 SD increase.

Abbreviation: BMI, body-mass index; Fam Hx, family history; MI, myocardial infarction; Incd, incident; HRT, hormone replacement therapy; HDL, high-density lipoproteins; LDL, low-density lipoproteins; CRP, C-reactive protein (natural logarithm transformed); ICAM, intercellular adhesion molecule 1.