

Supplementary Materials

Supplementary Methods

Two-part model

The two-part model allows separately estimating the different effects of tobacco price on the decision to become a smoker and on the cigarette consumption by current smokers.¹ The first equation is a probit model which estimates the probability that an individual will be a current smoker. The second equation is a linear model which estimates the quantity of cigarettes smoked conditional on current smokers. Since the distribution of cigarette consumption by current smokers is skewed, its logarithmic transformation is used. The two equations can be expressed as follows:

$$\Pr(S_i = 1|X_i) = \Phi(\beta_1'X_i + \varepsilon_{1i}), \quad (1)$$

$$\text{Ln}(Q_i|S_i = 1) = \beta_2'X_i + \varepsilon_{2i}, \quad (2)$$

where S_i is a binary variable that equals 1 if person i currently smokes and 0 otherwise; $\Phi(\cdot)$ is the standard normal cumulative distribution function; $\Pr(S_i = 1)$ is the probability that person i currently smokes; $\text{Ln}(Q_i|S_i = 1)$ is the natural log-transformed value of the number of cigarettes smoked per day by current smokers; β_1 and β_2 represent the vectors of regression parameters of the two equations, respectively; X_i is a vector of explanatory variables including the ln(real tobacco price), ln(equivalized household real income), sex, age, number of household members, householder status, education, occupation, regional classification, rural area, alcohol drinking, marital status, level of stress, cardiovascular disease medical history, and cancer medical history for person i ; ε_{1i} , ε_{2i} are random error terms.

The price elasticities of smoking prevalence and smoking intensity

The price elasticity of smoking prevalence can be obtained from the following equation:

$$\eta_j = \frac{\phi(\beta_1' \bar{X}) \beta_{1j}}{\Phi(\beta_1' \bar{X})}, \quad (3)$$

where η_j is the elasticity of smoking prevalence with respect to the variable x_j (real tobacco price), β_{1j} is the coefficient of the natural logarithm of variable x_j , and $\phi(\cdot)$ and $\Phi(\cdot)$ are the probability density function and the cumulative distribution function of the standard normal variable estimated at the means of the explanatory variables, respectively.²

The price elasticity of smoking intensity conditional on current smokers is the coefficient of $\ln(\text{real tobacco price})$ estimated from Eq. (2).

Recalibration method

Absolute mortality risk was calculated as $P(\text{absolute mortality risk at 10-year}) = 1 - S(t)^{\exp(f(x,M))}$, where $S(t)$ is the survival rate at time t ($t = 10$ years) at the mean values of the baseline risk factors in the National Health Insurance Service-National Sample Cohort (NHIS-NSC). The Kaplan-Meier estimation method was used to determine $S(t)$, and $f(x, M) = \beta_1(x_1 - M_1) + \dots + \beta_p(x_p - M_p)$. Here, β_1, \dots, β_p are the Cox regression coefficients obtained from the NHIS-NSC; x_1, \dots, x_p represent the current distributions of age, sex, income group indicator, the duration of smoking cessation, per capita cigarette consumption, and current smoking prevalence calculated for each income group in the Korea National Health and Nutrition Examination Survey (KNHANES) 2015-2017; and M_1, \dots, M_p are the current mean values of age, sex, income group, the duration of smoking cessation, per capita cigarette consumption, and current smoking prevalence calculated for the whole population in the

KNHANES 2015-2017 data.³

1 Cragg JG. Some statistical models for limited dependent variables with applications to the demand for durable goods. *Econometrica* 1971;39:829-844.

2 Ogloblin C, Brock G. Smoking in Russia: The ‘Marlboro Man’ rides without ‘Virginia Slims’ for now. *Comparative Economic Studies* 2003;45:87-103.

3 Alvarado BE, Harper S, Platt RW, *et al.* Would achieving healthy people 2010’s targets reduce both population levels and social disparities in heart disease? *Circ Cardiovasc Qual Outcomes* 2009;2:598-606.

Supplementary Table 1a. Summary statistics for 28 514 men from the Korea National Health and Nutrition Examination Survey (KNHANES), Korea

Variables	All	Smoker	Non-smoker
Current smoking	0.468 (0.004)	1 (0.000)	0 (0.000)
Price (real price, per pack of 20 cigarettes, unit: won)	2023.68 (8.92)	1923.04 (9.21)	2112.38 (10.95)
Equivalized household real income (unit: 10,000 won)	171.28 (1.37)	157.62 (1.47)	183.31 (1.83)
Cigarette consumption (number of cigarettes per day)	7.385 (0.073)	15.817 (0.085)	0 (0.000)
Age group (years)			
19-29	0.218 (0.004)	0.229 (0.005)	0.208 (0.005)
30-39	0.220 (0.004)	0.268 (0.005)	0.178 (0.004)
40-49	0.216 (0.003)	0.238 (0.004)	0.197 (0.004)
50-59	0.170 (0.003)	0.154 (0.004)	0.184 (0.004)
60-69	0.105 (0.002)	0.077 (0.002)	0.130 (0.003)
70 over	0.071 (0.002)	0.034 (0.001)	0.103 (0.003)
Number of household members			
1-2	0.278 (0.004)	0.261 (0.006)	0.293 (0.005)
3-4	0.583 (0.004)	0.592 (0.006)	0.575 (0.005)
5 over	0.138 (0.003)	0.147 (0.004)	0.131 (0.004)
Head of a family	0.643 (0.004)	0.645 (0.006)	0.641 (0.005)
Education level			
Elementary school	0.121 (0.002)	0.108 (0.003)	0.132 (0.003)
Middle school	0.100 (0.002)	0.098 (0.003)	0.102 (0.003)
High school	0.405 (0.004)	0.449 (0.005)	0.367 (0.005)
College and above	0.374 (0.005)	0.345 (0.006)	0.399 (0.006)
Occupational category			
Professionals, managers	0.151 (0.003)	0.134 (0.004)	0.167 (0.004)
White-collar	0.123 (0.003)	0.120 (0.004)	0.127 (0.004)
Service and sales workers	0.134 (0.003)	0.161 (0.004)	0.111 (0.003)
Agriculture and fisheries	0.054 (0.003)	0.052 (0.003)	0.057 (0.003)
Construction	0.292 (0.004)	0.330 (0.005)	0.258 (0.005)
No job (housewife, student, etc.)	0.245 (0.003)	0.203 (0.004)	0.282 (0.005)
Residential area I			
Capital area	0.491 (0.005)	0.493 (0.007)	0.490 (0.006)
Non-capital, metropolitan city	0.208 (0.006)	0.203 (0.006)	0.212 (0.007)
Non-capital, others	0.301 (0.006)	0.304 (0.007)	0.297 (0.007)
Residential area II			
Rural area	0.811 (0.007)	0.799 (0.008)	0.822 (0.008)
Non-rural area	0.189 (0.007)	0.201 (0.008)	0.178 (0.008)
Alcohol drinking			
Non-drinking	0.156 (0.003)	0.102 (0.003)	0.204 (0.004)
Drinking	0.844 (0.003)	0.898 (0.003)	0.796 (0.004)
Marital status			
Married, cohabitation	0.682 (0.004)	0.658 (0.006)	0.703 (0.005)
Married, separated	0.007 (0.001)	0.009 (0.001)	0.006 (0.001)
Widowed	0.014 (0.001)	0.012 (0.001)	0.016 (0.001)
Divorced	0.028 (0.001)	0.036 (0.002)	0.021 (0.001)
Never-married	0.269 (0.004)	0.285 (0.006)	0.254 (0.005)
Level of stress			
Very little	0.154 (0.003)	0.123 (0.003)	0.181 (0.004)
Somewhat	0.559 (0.003)	0.531 (0.005)	0.583 (0.005)
Much	0.237 (0.003)	0.280 (0.005)	0.199 (0.004)
Too much	0.050 (0.002)	0.065 (0.002)	0.037 (0.002)
Chronic disease			
Cardiovascular disease medical history	0.033 (0.001)	0.021 (0.001)	0.043 (0.002)
Cancer medical history	0.020 (0.001)	0.008 (0.001)	0.031 (0.002)
Number of observations	28 514	13 414	15 100

Supplementary Table 1b. Summary statistics of 36 683 women from the Korea National Health and Nutrition Examination Survey (KNHANES), Korea

Variables	All	Smoker	Non-smoker
Current smoking	0.058 (0.002)	1 (0.000)	0 (0.000)
Price (real price, per pack of 20 cigarettes, unit: won)	2025.75 (8.80)	2000.80 (16.24)	2027.29 (8.97)
Equivalized household real income (unit: 10,000 won)	161.31 (1.30)	134.57 (3.07)	162.95 (1.34)
Cigarette consumption (number of cigarettes per day)	0.547 (0.019)	9.552 (0.187)	0 (0.000)
Age group (years)			
19-29	0.196 (0.003)	0.265 (0.014)	0.192 (0.003)
30-39	0.208 (0.003)	0.211 (0.011)	0.208 (0.003)
40-49	0.206 (0.003)	0.190 (0.011)	0.207 (0.003)
50-59	0.169 (0.002)	0.135 (0.009)	0.171 (0.002)
60-69	0.115 (0.002)	0.088 (0.006)	0.116 (0.002)
70 over	0.106 (0.002)	0.112 (0.007)	0.106 (0.002)
Number of household members			
1-2	0.297 (0.004)	0.434 (0.013)	0.289 (0.004)
3-4	0.550 (0.004)	0.443 (0.013)	0.556 (0.004)
5 over	0.153 (0.003)	0.123 (0.009)	0.155 (0.003)
Head of a family	0.297 (0.004)	0.451 (0.013)	0.287 (0.004)
Education level			
Elementary school	0.245 (0.003)	0.262 (0.011)	0.244 (0.004)
Middle school	0.103 (0.002)	0.132 (0.009)	0.102 (0.002)
High school	0.363 (0.004)	0.439 (0.014)	0.358 (0.004)
College and above	0.289 (0.004)	0.167 (0.011)	0.296 (0.004)
Occupational category			
Professionals, managers	0.101 (0.002)	0.063 (0.007)	0.103 (0.002)
White-collar	0.082 (0.002)	0.068 (0.007)	0.082 (0.002)
Service and sales workers	0.150 (0.002)	0.233 (0.011)	0.145 (0.003)
Agriculture and fisheries	0.039 (0.002)	0.017 (0.003)	0.041 (0.002)
Construction	0.116 (0.002)	0.135 (0.010)	0.114 (0.002)
No job (housewife, student, etc.)	0.513 (0.003)	0.484 (0.014)	0.515 (0.004)
Residential area I			
Capital area	0.493 (0.005)	0.542 (0.012)	0.490 (0.005)
Non-capital, metropolitan city	0.208 (0.005)	0.177 (0.010)	0.210 (0.005)
Non-capital, others	0.299 (0.006)	0.281 (0.011)	0.300 (0.006)
Residential area II			
Rural area	0.815 (0.007)	0.817 (0.012)	0.814 (0.007)
Non-rural area	0.185 (0.007)	0.183 (0.012)	0.186 (0.007)
Alcohol drinking			
Non-drinking	0.375 (0.003)	0.223 (0.011)	0.384 (0.004)
Drinking	0.625 (0.003)	0.777 (0.011)	0.616 (0.004)
Marital status			
Married, cohabitation	0.660 (0.003)	0.469 (0.013)	0.671 (0.003)
Married, separated	0.009 (0.001)	0.017 (0.003)	0.009 (0.001)
Widowed	0.121 (0.002)	0.160 (0.008)	0.119 (0.002)
Divorced	0.035 (0.001)	0.122 (0.009)	0.030 (0.001)
Never-married	0.174 (0.003)	0.232 (0.013)	0.171 (0.003)
Level of stress			
Very little	0.145 (0.002)	0.119 (0.008)	0.147 (0.002)
Somewhat	0.543 (0.003)	0.400 (0.014)	0.551 (0.003)
Much	0.254 (0.003)	0.352 (0.013)	0.248 (0.003)
Too much	0.058 (0.002)	0.129 (0.009)	0.054 (0.002)
Chronic disease			
Cardiovascular disease medical history	0.027 (0.001)	0.027 (0.003)	0.027 (0.001)
Cancer medical history	0.032 (0.001)	0.019 (0.004)	0.033 (0.001)
Number of observations	36 683	1969	34 714

Supplementary Table 2a. Estimated coefficients and standard errors of the probit model for current smoking status according to income (Q1: lowest income group, Q5: highest income group) for **all subjects (men and women combined)**, Korea

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	2.679 (0.217)***	2.503 (0.477)***	2.839 (0.437)***	2.842 (0.469)***	2.935 (0.457)***	3.383 (0.455)***
Log real price	-0.435 (0.029)***	-0.460 (0.062)***	-0.414 (0.081)***	-0.376 (0.090)***	-0.303 (0.094)***	-0.315 (0.078)***
Log real income	-0.016 (0.003)***	-0.007 (0.003)**	-0.061 (0.088)	-0.130 (0.102)	-0.232 (0.103)**	-0.289 (0.079)***
Female	-1.533 (0.020)***	-1.392 (0.041)***	-1.584 (0.045)***	-1.598 (0.046)***	-1.601 (0.049)***	-1.546 (0.048)***
Age						
30-39	0.100 (0.033)***	0.221 (0.067)***	0.112 (0.075)	0.012 (0.073)	0.048 (0.071)	0.083 (0.077)
40-49	-0.053 (0.036)	0.085 (0.072)	-0.002 (0.082)	-0.113 (0.082)	-0.111 (0.081)	-0.064 (0.084)
50-59	-0.303 (0.040)***	-0.044 (0.085)	-0.286 (0.094)***	-0.470 (0.090)***	-0.299 (0.088)***	-0.258 (0.093)***
60-69	-0.491 (0.043)***	-0.216 (0.090)**	-0.510 (0.112)***	-0.576 (0.104)***	-0.600 (0.104)***	-0.530 (0.096)***
70 or over	-0.632 (0.049)***	-0.379 (0.103)***	-0.726 (0.144)***	-0.784 (0.139)***	-0.717 (0.126)***	-0.711 (0.116)***
Household members						
3-4	-0.120 (0.022)***	-0.055 (0.046)	-0.148 (0.053)***	-0.113 (0.052)**	-0.155 (0.052)***	-0.140 (0.048)***
5 or over	-0.125 (0.028)***	-0.070 (0.061)	-0.202 (0.065)***	-0.167 (0.067)**	-0.123 (0.063)*	-0.100 (0.060)*
Householder	0.094 (0.019)***	0.134 (0.039)***	0.063 (0.042)	0.074 (0.044)	0.068 (0.042)	0.065 (0.046)
Education level						
Elementary school	0.354 (0.031)***	0.367 (0.063)***	0.269 (0.069)***	0.246 (0.070)***	0.285 (0.073)***	0.304 (0.078)***
Middle school	0.251 (0.030)***	0.294 (0.063)**	0.296 (0.068)**	0.192 (0.071)**	0.050 (0.073)	0.193 (0.082)**
High school	0.209 (0.021)***	0.269 (0.049)***	0.212 (0.046)***	0.151 (0.045)***	0.175 (0.044)***	0.167 (0.046)***
Occupational category						
White-collar	0.037 (0.033)	0.095 (0.104)	0.070 (0.081)	0.027 (0.069)	-0.004 (0.067)	0.019 (0.054)
Service and sales	0.255 (0.031)***	0.289 (0.087)***	0.189 (0.076)**	0.218 (0.068)***	0.265 (0.066)***	0.295 (0.062)***
Agriculture and fisheries	0.056 (0.043)	0.097 (0.099)	-0.019 (0.089)	0.074 (0.098)	0.003 (0.109)	0.013 (0.115)
Construction	0.198 (0.029)***	0.225 (0.082)***	0.147 (0.070)**	0.241 (0.065)***	0.152 (0.064)**	0.147 (0.063)**
No job	0.045 (0.030)	0.162 (0.082)**	0.061 (0.071)	-0.048 (0.068)	-0.091 (0.067)	-0.027 (0.063)
Region						
Non-capital, metropolitan	-0.051 (0.023)**	-0.052 (0.046)	-0.053 (0.048)	-0.059 (0.049)	-0.106 (0.047)**	-0.018 (0.051)
Non-capital, others	-0.041 (0.022)*	-0.045 (0.045)	0.018 (0.041)	-0.012 (0.044)	-0.096 (0.047)**	-0.093 (0.050)*
Non-rural area	0.093 (0.026)***	0.080 (0.047)*	0.087 (0.046)*	0.092 (0.051)*	0.065 (0.056)	0.100 (0.068)
Drinking	0.422 (0.020)***	0.557 (0.038)***	0.371 (0.041)***	0.425 (0.044)***	0.424 (0.048)***	0.330 (0.049)***
Marital status						
Married, separated	0.319 (0.073)***	0.339 (0.115)***	0.319 (0.157)**	0.111 (0.212)	0.416 (0.191)**	0.270 (0.178)
Widowed	0.446 (0.035)***	0.230 (0.063)***	0.464 (0.075)***	0.495 (0.094)***	0.618 (0.085)***	0.500 (0.083)***
Divorced	0.562 (0.046)***	0.479 (0.070)***	0.566 (0.095)***	0.693 (0.117)***	0.518 (0.140)***	0.161 (0.143)
Never married	0.036 (0.032)	0.076 (0.060)	-0.063 (0.074)	0.043 (0.075)	0.031 (0.070)	0.096 (0.073)
Stress level						
Somewhat	0.043 (0.023)*	-0.031 (0.050)	0.088 (0.050)*	0.135 (0.050)***	0.038 (0.054)	-0.017 (0.055)
Much	0.292 (0.026)***	0.242 (0.055)***	0.353 (0.054)***	0.343 (0.057)***	0.294 (0.061)***	0.186 (0.062)***
Too much	0.482 (0.037)***	0.392 (0.071)***	0.530 (0.082)***	0.607 (0.082)***	0.460 (0.097)***	0.385 (0.090)***
CVD medical history	-0.081 (0.047)*	-0.150 (0.085)*	0.019 (0.093)	-0.094 (0.097)	-0.081 (0.113)	-0.088 (0.137)
Cancer medical history	-0.361 (0.065)***	-0.414 (0.137)***	-0.638 (0.132)***	-0.307 (0.134)***	-0.133 (0.178)	-0.303 (0.138)**

p-value: * <0.1 , ** <0.05 , *** <0.001

Supplementary Table 2b. Estimated coefficients and standard errors of the probit model for current smoking status according to income (Q1: lowest income group, Q5: highest income group) for **men**, Korea

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	3.733 (0.249)***	3.342 (0.580)***	4.081 (0.508)***	4.081 (0.507)***	3.815 (0.522)***	4.378 (0.542)***
Log real price	-0.582 (0.033)***	-0.577 (0.074)***	-0.557 (0.096)***	-0.497 (0.105)***	-0.465 (0.104)***	-0.367 (0.092)***
Log real income	-0.017 (0.003)***	-0.006 (0.004)*	-0.120 (0.108)	-0.198 (0.117)*	-0.206 (0.116)*	-0.409 (0.096)***
Age						
30-39	0.196 (0.037)***	0.337 (0.077)***	0.227 (0.087)***	0.110 (0.083)	0.161 (0.084)*	0.132 (0.090)
40-49	0.052 (0.040)	0.156 (0.087)*	0.116 (0.095)	-0.018 (0.092)	0.035 (0.092)	0.047 (0.097)
50-59	-0.204 (0.044)***	0.059 (0.099)	-0.186 (0.105)**	-0.355 (0.099)***	-0.177 (0.098)*	-0.170 (0.104)
60-69	-0.403 (0.047)***	-0.198 (0.107)*	-0.406 (0.124)***	-0.499 (0.113)***	-0.441 (0.111)***	-0.452 (0.107)***
70 or over	-0.674 (0.056)***	-0.516 (0.128)***	-0.790 (0.161)***	-0.863 (0.158)***	-0.640 (0.143)***	-0.786 (0.135)***
Household members						
3-4	-0.077 (0.025)***	-0.070 (0.058)	-0.061 (0.058)	-0.073 (0.057)	-0.101 (0.056)*	-0.076 (0.053)
5 or over	-0.084 (0.033)**	-0.060 (0.078)	-0.154 (0.074)**	-0.115 (0.079)	-0.043 (0.071)	-0.056 (0.072)
Householder	0.006 (0.023)	0.037 (0.051)	-0.060 (0.051)	0.001 (0.052)	0.019 (0.051)	-0.015 (0.055)
Education level						
Elementary school	0.301 (0.037)***	0.333 (0.077)***	0.203 (0.084)**	0.210 (0.081)***	0.202 (0.086)**	0.208 (0.103)**
Middle school	0.191 (0.036)***	0.244 (0.077)***	0.268 (0.079)***	0.076 (0.078)	-0.045 (0.086)	0.188 (0.092)**
High school	0.190 (0.024)***	0.277 (0.057)***	0.170 (0.056)***	0.146 (0.053)***	0.128 (0.051)**	0.166 (0.052)***
Occupational category						
White-collar	0.035 (0.037)	0.071 (0.127)	0.054 (0.093)	0.082 (0.082)	-0.012 (0.073)	-0.013 (0.062)
Service and sales	0.265 (0.037)***	0.313 (0.107)***	0.249 (0.092)***	0.181 (0.080)**	0.319 (0.075)***	0.237 (0.075)***
Agriculture and fisheries	0.143 (0.051)***	0.215 (0.119)*	0.066 (0.109)	0.129 (0.110)	0.138 (0.122)	0.009 (0.130)
Construction	0.218 (0.033)***	0.272 (0.096)***	0.164 (0.080)**	0.270 (0.073)***	0.194 (0.071)***	0.112 (0.069)
No job	0.031 (0.037)	0.175 (0.100)*	0.073 (0.088)	-0.105 (0.086)	-0.064 (0.083)	-0.123 (0.083)
Region						
Non-capital, metropolitan	-0.020 (0.027)	0.008 (0.056)	-0.034 (0.057)	-0.034 (0.056)	-0.074 (0.055)	0.025 (0.060)
Non-capital, others	-0.017 (0.025)	-0.007 (0.055)	0.085 (0.050)*	0.005 (0.049)	-0.105 (0.054)*	-0.066 (0.058)
Non-rural area	0.113 (0.031)***	0.110 (0.058)*	0.064 (0.057)	0.094 (0.060)	0.120 (0.065)*	0.137 (0.081)*
Drinking	0.440 (0.025)***	0.569 (0.050)***	0.428 (0.054)***	0.393 (0.056)***	0.470 (0.059)***	0.343 (0.064)***
Marital status						
Married, separated	0.343 (0.102)***	0.357 (0.161)**	0.505 (0.258)*	-0.059 (0.264)	0.474 (0.268)*	0.442 (0.248)*
Widowed	0.269 (0.068)***	0.225 (0.126)*	0.528 (0.152)***	0.076 (0.175)	0.064 (0.165)	0.328 (0.146)**
Divorced	0.401 (0.060)***	0.255 (0.101)**	0.484 (0.126)***	0.507 (0.136)***	0.490 (0.180)***	0.098 (0.175)
Never married	0.009 (0.036)	0.000 (0.073)	-0.132 (0.086)	0.055 (0.081)	0.064 (0.083)	0.094 (0.082)
Stress level						
Somewhat	0.069 (0.026)***	0.043 (0.059)	0.083 (0.059)	0.114 (0.059)*	0.111 (0.060)*	-0.008 (0.062)
Much	0.299 (0.030)***	0.261 (0.066)***	0.372 (0.067)***	0.337 (0.068)***	0.345 (0.069)***	0.154 (0.070)**
Too much	0.435 (0.047)***	0.394 (0.089)***	0.424 (0.106)***	0.560 (0.107)***	0.394 (0.113)***	0.355 (0.109)***
CVD medical history	-0.092 (0.052)**	-0.165 (0.098)*	0.004 (0.110)	-0.112 (0.109)	-0.037 (0.123)	-0.153 (0.146)
Cancer medical history	-0.416 (0.073)***	-0.555 (0.165)***	-0.692 (0.152)***	-0.311 (0.157)**	-0.412 (0.167)**	-0.150 (0.166)

p-value: *<0.1, **<0.05, ***<0.001

Supplementary Table 2c. Estimated coefficients and standard errors of the probit model for current smoking status according to income (Q1: lowest income group, Q5: highest income group) for **women**, Korea

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	-1.629 (0.364)***	-0.637 (0.764)	-1.921 (0.781)**	-2.574 (0.897)***	-1.426 (0.837)*	-1.326 (0.825)
Log real price	-0.043 (0.049)	-0.200 (0.100)**	-0.023 (0.144)	-0.099 (0.146)	0.089 (0.165)	-0.151 (0.136)
Log real income	-0.016 (0.004)***	-0.009 (0.004)*	0.024 (0.164)	0.254 (0.195)	-0.180 (0.197)	0.083 (0.123)
Age						
30-39	-0.068 (0.061)	0.026 (0.130)	-0.055 (0.124)	-0.254 (0.145)*	-0.176 (0.123)	0.065 (0.135)
40-49	-0.288 (0.067)***	-0.054 (0.133)	-0.235 (0.145)	-0.379 (0.168)**	-0.514 (0.155)***	-0.417 (0.165)**
50-59	-0.550 (0.079)***	-0.277 (0.153)*	-0.544 (0.181)***	-0.771 (0.187)***	-0.618 (0.179)***	-0.495 (0.194)**
60-69	-0.668 (0.084)***	-0.266 (0.165)	-0.775 (0.218)***	-0.613 (0.213)***	-0.910 (0.238)***	-0.625 (0.191)***
70 or over	-0.577 (0.086)***	-0.271 (0.172)	-0.752 (0.288)***	-0.355 (0.274)	-0.817 (0.247)***	-0.410 (0.209)*
Household members						
3-4	-0.291 (0.039)***	-0.118 (0.071)*	-0.407 (0.104)***	-0.284 (0.091)***	-0.321 (0.099)***	-0.402 (0.095)***
5 or over	-0.321 (0.049)***	-0.246 (0.103)**	-0.411 (0.129)***	-0.352 (0.122)***	-0.339 (0.119)***	-0.317 (0.103)***
Householder	0.131 (0.036)***	0.158 (0.071)**	0.173 (0.079)**	0.078 (0.095)	0.079 (0.087)	0.145 (0.086)*
Education level						
Elementary school	0.555 (0.060)***	0.525 (0.127)***	0.584 (0.132)***	0.450 (0.149)***	0.562 (0.164)***	0.467 (0.154)***
Middle school	0.523 (0.063)***	0.495 (0.127)***	0.553 (0.135)***	0.586 (0.146)***	0.455 (0.147)***	0.323 (0.190)*
High school	0.358 (0.043)***	0.325 (0.103)***	0.455 (0.089)***	0.291 (0.096)***	0.427 (0.100)***	0.222 (0.105)**
Occupational category						
White-collar	0.020 (0.075)	0.179 (0.191)	0.039 (0.168)	-0.352 (0.173)**	-0.021 (0.159)	0.177 (0.150)
Service and sales	0.290 (0.065)***	0.309 (0.168)*	0.154 (0.157)	0.304 (0.138)**	0.116 (0.151)	0.646 (0.144)***
Agriculture and fisheries	-0.173 (0.094)*	-0.372 (0.204)*	-0.181 (0.191)	0.059 (0.231)	-0.439 (0.236)*	0.231 (0.255)
Construction	0.140 (0.072)*	0.121 (0.173)	0.126 (0.162)	0.120 (0.159)	0.015 (0.160)	0.325 (0.185)*
No job	0.170 (0.062)***	0.265 (0.163)	0.168 (0.144)	0.110 (0.129)	-0.111 (0.131)	0.368 (0.136)***
Region						
Non-capital, metropolitan	-0.157 (0.039)***	-0.188 (0.079)**	-0.121 (0.078)	-0.134 (0.090)	-0.228 (0.089)**	-0.143 (0.095)
Non-capital, others	-0.113 (0.037)***	-0.116 (0.069)*	-0.147 (0.073)**	-0.078 (0.078)	-0.066 (0.097)	-0.193 (0.090)**
Non-rural area	0.055 (0.043)	0.022 (0.076)	0.152 (0.081)*	0.104 (0.083)	-0.086 (0.103)	0.010 (0.116)
Drinking	0.368 (0.031)***	0.503 (0.060)***	0.237 (0.069)***	0.467 (0.071)***	0.334 (0.084)***	0.291 (0.078)***
Marital status						
Married, separated	0.336 (0.105)***	0.379 (0.182)**	0.149 (0.216)	0.415 (0.253)	0.389 (0.296)	-0.070 (0.353)
Widowed	0.316 (0.045)***	0.095 (0.079)	0.272 (0.112)**	0.456 (0.130)***	0.585 (0.104)***	0.316 (0.111)***
Divorced	0.717 (0.058)***	0.658 (0.090)***	0.622 (0.128)***	0.866 (0.166)***	0.645 (0.204)***	0.242 (0.204)
Never married	0.100 (0.063)	0.151 (0.128)	0.104 (0.128)	0.075 (0.159)	-0.042 (0.135)	0.155 (0.141)
Stress level						
Somewhat	-0.057 (0.042)	-0.224 (0.088)**	0.114 (0.089)	0.148 (0.090)*	-0.192 (0.101)*	-0.127 (0.112)
Much	0.233 (0.044)***	0.155 (0.086)*	0.336 (0.091)***	0.304 (0.097)***	0.162 (0.105)	0.190 (0.124)
Too much	0.468 (0.057)***	0.315 (0.108)***	0.584 (0.119)***	0.564 (0.132)***	0.482 (0.133)***	0.366 (0.152)**
CVD medical history	0.017 (0.078)	-0.005 (0.140)	0.039 (0.170)	0.091 (0.160)	-0.124 (0.261)	0.124 (0.212)
Cancer medical history	-0.203 (0.103)**	-0.208 (0.186)	-0.430 (0.201)**	-0.284 (0.211)	0.245 (0.232)	-0.947 (0.344)***

p-value: *<0.1, **<0.05, ***<0.001

Supplementary Table 3a. Estimated coefficients and standard errors of the linear model for smoking intensity according to income (Q1: lowest income group, Q5: highest income group) for **all subjects (men and women combined)**, Korea

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	4.179 (0.153)***	4.030 (0.341)***	3.468 (0.317)***	4.149 (0.370)***	4.322 (0.315)***	5.211 (0.397)***
Log real price	-0.241 (0.020)***	-0.225 (0.044)***	-0.120 (0.057)**	-0.276 (0.075)***	-0.109 (0.066)	-0.281 (0.071)***
Log real income	-0.004 (0.002)**	-0.004 (0.002)**	-0.074 (0.059)	0.053 (0.081)	-0.216 (0.075)***	-0.117 (0.076)
Female	-0.626 (0.025)***	-0.670 (0.045)***	-0.592 (0.049)***	-0.585 (0.060)***	-0.640 (0.056)***	-0.639 (0.065)***
Age						
30-39	0.158 (0.022)***	0.140 (0.043)***	0.167 (0.047)***	0.152 (0.049)***	0.166 (0.045)***	0.184 (0.056)***
40-49	0.225 (0.025)***	0.265 (0.047)***	0.276 (0.055)***	0.182 (0.056)***	0.228 (0.051)***	0.205 (0.072)***
50-59	0.239 (0.028)***	0.233 (0.056)***	0.263 (0.062)***	0.226 (0.068)***	0.301 (0.056)***	0.235 (0.069)***
60-69	0.110 (0.032)***	0.057 (0.064)	0.111 (0.080)	0.141 (0.080)*	0.167 (0.066)**	0.058 (0.087)
70 or over	-0.117 (0.042)***	-0.164 (0.087)	-0.161 (0.109)	-0.086 (0.123)	-0.165 (0.097)*	-0.136 (0.129)
Household members						
3-4	-0.063 (0.016)***	-0.001 (0.034)	-0.046 (0.034)	-0.098 (0.038)***	-0.055 (0.035)	-0.106 (0.042)**
5 or over	-0.020 (0.020)	0.086 (0.043)**	-0.056 (0.043)	-0.063 (0.052)	-0.020 (0.045)	-0.086 (0.052)
Householder	-0.023 (0.015)	-0.022 (0.029)	-0.025 (0.030)	0.011 (0.034)	-0.039 (0.039)	-0.049 (0.036)
Education level						
Elementary school	0.170 (0.025)***	0.204 (0.050)***	0.156 (0.054)***	0.167 (0.054)***	0.126 (0.060)**	0.118 (0.095)
Middle school	0.171 (0.025)***	0.134 (0.046)***	0.191 (0.051)***	0.176 (0.054)***	0.151 (0.067)**	0.136 (0.068)**
High school	0.115 (0.016)***	0.101 (0.036)***	0.140 (0.037)***	0.076 (0.037)**	0.115 (0.035)***	0.128 (0.040)***
Occupational category						
White-collar	0.011 (0.028)	0.053 (0.070)	0.069 (0.077)	0.023 (0.064)	-0.061 (0.057)	-0.007 (0.053)
Service and sales	0.103 (0.026)***	0.085 (0.065)	0.173 (0.068)**	0.075 (0.059)	0.051 (0.052)	0.092 (0.053)*
Agriculture and fisheries	0.054 (0.037)	0.059 (0.075)	0.112 (0.083)	0.013 (0.108)	0.025 (0.075)	0.006 (0.093)
Construction	0.097 (0.025)***	0.091 (0.059)	0.124 (0.067)*	0.081 (0.056)	0.044 (0.053)	0.117 (0.050)**
No job	-0.036 (0.027)	-0.040 (0.062)	0.012 (0.067)	0.003 (0.063)	-0.159 (0.059)***	-0.032 (0.063)
Region						
Non-capital, metropolitan	0.016 (0.017)	0.039 (0.036)	0.003 (0.034)	0.064 (0.034)*	-0.014 (0.041)	-0.038 (0.041)
Non-capital, others	0.005 (0.016)	-0.008 (0.031)	0.031 (0.032)	0.021 (0.041)	0.001 (0.035)	-0.029 (0.044)
Non-rural area	0.047 (0.017)***	-0.009 (0.033)	0.000 (0.033)	0.080 (0.037)**	0.075 (0.039)*	0.133 (0.048)***
Drinking	-0.039 (0.019)**	0.017 (0.038)	-0.025 (0.040)	-0.071 (0.034)**	-0.032 (0.054)	-0.129 (0.046)***
Marital status						
Married, separated	0.058 (0.057)	-0.061 (0.085)	0.192 (0.111)	0.087 (0.159)	-0.177 (0.178)	0.322 (0.124)***
Widowed	0.112 (0.039)***	0.148 (0.071)**	0.006 (0.073)	0.079 (0.095)	0.183 (0.110)*	0.167 (0.092)*
Divorced	0.088 (0.031)***	0.077 (0.048)	-0.023 (0.087)	0.165 (0.061)***	0.202 (0.068)***	0.132 (0.086)
Never married	0.013 (0.021)	-0.006 (0.042)	0.053 (0.046)	0.035 (0.047)	0.068 (0.044)	-0.045 (0.058)
Stress level						
Somewhat	0.027 (0.019)	-0.004 (0.040)	0.046 (0.040)	0.082 (0.044)*	-0.055 (0.045)	0.056 (0.047)
Much	0.072 (0.021)***	0.022 (0.042)	0.072 (0.043)*	0.192 (0.048)***	0.007 (0.050)	0.064 (0.054)
Too much	0.155 (0.031)***	0.105 (0.051)**	0.138 (0.062)**	0.232 (0.090)***	0.120 (0.069)*	0.178 (0.084)**
CVD medical history	-0.017 (0.042)	0.016 (0.073)	-0.094 (0.087)	0.073 (0.104)	0.064 (0.074)	-0.145 (0.142)
Cancer medical history	-0.048 (0.060)	-0.006 (0.125)	-0.035 (0.131)	-0.175 (0.122)	0.005 (0.156)	0.020 (0.115)

p-value: * <0.1 , ** <0.05 , *** <0.001

Supplementary Table 3b. Estimated coefficients and standard errors of the linear model for smoking intensity according to income (Q1: lowest income group, Q5: highest income group) for **men, Korea**

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	4.062 (0.157)***	3.727 (0.360)***	3.446 (0.329)***	4.029 (0.373)***	4.273 (0.328)***	5.101 (0.421)***
Log real price	-0.229 (0.021)***	-0.186 (0.047)***	-0.116 (0.061)*	-0.243 (0.079)***	-0.116 (0.072)	-0.242 (0.075)***
Log real income	-0.004 (0.002)**	-0.003 (0.002)	-0.080 (0.065)	0.018 (0.085)	-0.197 (0.081)**	-0.155 (0.081)*
Age						
30-39	0.169 (0.023)***	0.148 (0.046)***	0.184 (0.055)***	0.184 (0.050)***	0.153 (0.048)***	0.195 (0.059)***
40-49	0.241 (0.026)***	0.264 (0.051)***	0.303 (0.064)***	0.241 (0.056)***	0.230 (0.054)***	0.207 (0.075)***
50-59	0.252 (0.030)***	0.224 (0.061)***	0.285 (0.073)***	0.273 (0.069)***	0.312 (0.057)***	0.239 (0.071)***
60-69	0.131 (0.035)***	0.057 (0.069)	0.123 (0.091)	0.181 (0.081)**	0.202 (0.068)***	0.075 (0.091)
70 or over	-0.138 (0.045)***	-0.222 (0.093)**	-0.207 (0.123)*	-0.087 (0.133)	-0.150 (0.102)	-0.154 (0.144)
Household members						
3-4	-0.046 (0.017)***	0.028 (0.035)	-0.046 (0.035)	-0.079 (0.040)**	-0.025 (0.037)	-0.091 (0.043)**
5 or over	-0.001 (0.021)	0.100 (0.043)**	-0.045 (0.045)	-0.035 (0.055)	-0.002 (0.046)	-0.063 (0.056)
Householder	-0.040 (0.016)**	-0.042 (0.030)	-0.046 (0.032)	-0.020 (0.035)	-0.035 (0.042)	-0.079 (0.037)**
Education level						
Elementary school	0.146 (0.027)***	0.181 (0.051)***	0.153 (0.056)***	0.164 (0.057)***	0.072 (0.061)	0.025 (0.104)
Middle school	0.165 (0.025)***	0.165 (0.046)***	0.173 (0.057)***	0.176 (0.054)***	0.099 (0.071)	0.099 (0.068)
High school	0.116 (0.017)***	0.108 (0.038)***	0.147 (0.038)***	0.086 (0.038)**	0.103 (0.037)***	0.108 (0.042)***
Occupational category						
White-collar	0.011 (0.029)	0.007 (0.072)	0.066 (0.081)	0.028 (0.066)	-0.062 (0.060)	-0.003 (0.055)
Service and sales	0.101 (0.027)***	0.090 (0.070)	0.159 (0.072)**	0.092 (0.062)	0.027 (0.054)	0.088 (0.055)
Agriculture and fisheries	0.077 (0.039)**	0.076 (0.075)	0.116 (0.085)	0.022 (0.115)	0.033 (0.076)	0.084 (0.099)
Construction	0.110 (0.026)***	0.085 (0.060)	0.131 (0.070)*	0.075 (0.058)	0.065 (0.056)	0.150 (0.051)***
No job	-0.036 (0.028)	-0.040 (0.063)	-0.007 (0.072)	-0.039 (0.070)	-0.161 (0.063)**	0.005 (0.066)
Region						
Non-capital, metropolitan	0.004 (0.018)	0.030 (0.036)	-0.019 (0.037)	0.056 (0.036)	-0.024 (0.043)	-0.045 (0.042)
Non-capital, others	0.012 (0.017)	0.019 (0.033)	0.027 (0.034)	0.020 (0.041)	0.020 (0.036)	-0.038 (0.046)
Non-rural area	0.035 (0.018)*	-0.052 (0.036)	0.011 (0.035)	0.073 (0.037)*	0.061 (0.040)	0.135 (0.051)***
Drinking	-0.029 (0.020)	0.028 (0.042)	-0.009 (0.041)	-0.059 (0.037)	-0.035 (0.059)	-0.105 (0.047)**
Marital status						
Married, separated	0.079 (0.064)	-0.007 (0.097)	0.223 (0.114)*	0.030 (0.186)	-0.228 (0.204)	0.320 (0.130)**
Widowed	0.043 (0.048)	-0.021 (0.084)	0.048 (0.099)	0.033 (0.124)	0.081 (0.183)	0.124 (0.094)
Divorced	0.106 (0.034)***	0.130 (0.050)**	-0.053 (0.100)	0.116 (0.061)*	0.243 (0.066)***	0.132 (0.090)
Never married	-0.007 (0.023)	-0.059 (0.043)	0.040 (0.054)	0.037 (0.049)	0.070 (0.047)	-0.095 (0.060)
Stress level						
Somewhat	0.038 (0.020)*	0.015 (0.041)	0.054 (0.042)	0.082 (0.046)*	-0.054 (0.046)	0.086 (0.050)*
Much	0.090 (0.022)***	0.055 (0.043)	0.086 (0.046)*	0.204 (0.050)***	0.003 (0.051)	0.087 (0.057)
Too much	0.161 (0.033)***	0.110 (0.053)**	0.175 (0.068)**	0.201 (0.099)**	0.119 (0.073)	0.194 (0.090)**
CVD medical history	-0.061 (0.044)	-0.076 (0.080)	-0.071 (0.087)	0.062 (0.114)	0.023 (0.077)	-0.223 (0.160)
Cancer medical history	-0.045 (0.057)	0.063 (0.121)	-0.050 (0.112)	-0.131 (0.136)	-0.029 (0.152)	-0.004 (0.121)

p-value: *<0.1, **<0.05, ***<0.001

Supplementary Table 3c. Estimated coefficients and standard errors of the linear model for smoking intensity according to income (Q1: lowest income group, Q5: highest income group) for **women**, Korea

	Total	Income Q1	Income Q2	Income Q3	Income Q4	Income Q5
Constant	4.036 (0.573)***	3.901 (1.134)***	2.688 (1.192)**	4.287 (1.286)***	2.660 (1.081)**	4.803 (1.373)***
Log real price	-0.299 (0.075)***	-0.322 (0.145)**	-0.123 (0.196)	-0.476 (0.244)*	0.042 (0.203)	-0.584 (0.218)***
Log real income	-0.002 (0.005)	-0.006 (0.005)	-0.024 (0.197)	0.239 (0.265)	-0.293 (0.269)	0.358 (0.230)
Age						
30-39	0.121 (0.071)*	0.168 (0.129)	0.003 (0.134)	-0.066 (0.193)	0.427 (0.122)***	0.118 (0.186)
40-49	0.100 (0.081)	0.350 (0.131)***	-0.013 (0.142)	-0.265 (0.225)	0.124 (0.166)	0.007 (0.238)
50-59	0.129 (0.088)	0.244 (0.151)	0.113 (0.169)	-0.123 (0.261)	0.154 (0.195)	0.124 (0.258)
60-69	0.007 (0.097)	0.050 (0.170)	0.172 (0.247)	-0.103 (0.305)	-0.017 (0.252)	-0.133 (0.276)
70 or over	-0.124 (0.115)	-0.103 (0.213)	0.006 (0.303)	-0.163 (0.359)	-0.204 (0.316)	-0.254 (0.347)
Household members						
3-4	-0.198 (0.049)***	-0.166 (0.094)*	-0.049 (0.114)	-0.319 (0.134)**	-0.327 (0.104)***	-0.232 (0.120)*
5 or over	-0.216 (0.064)***	-0.090 (0.143)	-0.245 (0.136)*	-0.354 (0.166)**	-0.126 (0.172)	-0.379 (0.148)**
Householder	0.001 (0.050)	-0.018 (0.096)	0.045 (0.094)	0.109 (0.129)	-0.089 (0.111)	0.151 (0.115)
Education level						
Elementary school	0.355 (0.087)***	0.310 (0.169)*	0.161 (0.193)	0.229 (0.195)	0.713 (0.229)***	1.030 (0.291)***
Middle school	0.284 (0.091)***	0.032 (0.162)	0.329 (0.174)*	0.297 (0.197)	0.669 (0.195)***	0.474 (0.253)*
High school	0.193 (0.068)***	0.099 (0.140)	0.127 (0.159)	0.142 (0.144)	0.396 (0.144)***	0.373 (0.143)**
Occupational category						
White-collar	0.017 (0.100)	0.411 (0.256)	0.148 (0.196)	-0.112 (0.254)	0.082 (0.198)	-0.251 (0.258)
Service and sales	0.182 (0.088)**	0.268 (0.238)	0.459 (0.193)**	0.133 (0.168)	0.350 (0.182)*	-0.117 (0.235)
Agriculture and fisheries	-0.043 (0.146)	0.322 (0.304)	0.271 (0.353)	0.064 (0.257)	0.266 (0.270)	-1.139 (0.320)***
Construction	-0.040 (0.098)	0.161 (0.245)	0.116 (0.243)	0.279 (0.177)	-0.221 (0.210)	-0.574 (0.279)**
No job	0.078 (0.088)	0.201 (0.226)	0.318 (0.202)	0.348 (0.158)**	-0.043 (0.204)	-0.337 (0.259)
Region						
Non-capital, metropolitan	0.059 (0.058)	0.018 (0.115)	0.086 (0.111)	0.102 (0.122)	-0.023 (0.133)	0.020 (0.164)
Non-capital, others	-0.063 (0.054)	-0.148 (0.103)	0.041 (0.092)	-0.037 (0.136)	-0.185 (0.119)	0.018 (0.112)
Non-rural area	0.139 (0.063)**	0.236 (0.111)**	-0.079 (0.104)	0.217 (0.158)	0.242 (0.164)	0.166 (0.171)
Drinking	-0.073 (0.054)	0.029 (0.097)	-0.069 (0.124)	-0.188 (0.104)*	0.081 (0.129)	-0.246 (0.132)*
Marital status						
Married, separated	0.106 (0.136)	-0.044 (0.214)	0.046 (0.346)	0.349 (0.273)	0.282 (0.359)	0.556 (0.696)
Widowed	0.031 (0.071)	0.149 (0.134)	-0.142 (0.129)	-0.015 (0.186)	0.065 (0.190)	-0.219 (0.184)
Divorced	0.130 (0.072)*	0.112 (0.111)	0.110 (0.172)	0.406 (0.183)**	0.080 (0.231)	0.120 (0.263)
Never married	0.202 (0.067)***	0.303 (0.133)**	0.170 (0.129)	0.254 (0.184)	0.180 (0.142)	0.114 (0.196)
Stress level						
Somewhat	-0.061 (0.065)	-0.047 (0.132)	-0.063 (0.121)	0.129 (0.144)	-0.146 (0.159)	-0.286 (0.156)*
Much	-0.081 (0.064)	-0.075 (0.120)	-0.089 (0.117)	0.090 (0.149)	-0.074 (0.169)	-0.248 (0.171)
Too much	0.077 (0.076)	0.088 (0.133)	-0.038 (0.164)	0.328 (0.188)*	-0.042 (0.185)	-0.265 (0.214)
CVD medical history	0.260 (0.110)**	0.459 (0.148)***	-0.132 (0.356)	0.222 (0.251)	0.559 (0.236)**	0.473 (0.247)*
Cancer medical history	-0.081 (0.165)	-0.184 (0.250)	0.033 (0.381)	-0.447 (0.340)	0.050 (0.352)	1.435 (0.277)***

p-value: *<0.1, **<0.05, ***<0.001

Supplementary Table 4a. Price elasticities by income group (Q1: lowest income group, Q5: highest income group) in **men**, Korea

	Smoking Prevalence		Smoking Intensity	
	Price elasticity	95% CI	Price elasticity	95% CI
Total	-0.493	(-0.548 to -0.443)	-0.229	(-0.269 to -0.188)
Income Q1	-0.450	(-0.557 to -0.334)	-0.186	(-0.283 to -0.093)
Income Q2	-0.446	(-0.593 to -0.304)	-0.116	(-0.234 to 0.008)
Income Q3	-0.413	(-0.583 to -0.248)	-0.243	(-0.402 to -0.087)
Income Q4	-0.406	(-0.582 to -0.235)	-0.116	(-0.254 to 0.021)
Income Q5	-0.349	(-0.510 to -0.181)	-0.242	(-0.394 to -0.090)

The 95% CI for price elasticity represents the 95% bootstrap confidence interval estimated by the 2.5th and 97.5th percentiles of the each price elasticity distribution of smoking prevalence and smoking intensity calculated from 1000 bootstrap samples drawn from the Korea National Health and Nutrition Examination Survey (KNHANES).

Supplementary Table 4b. Price elasticities by income group (Q1: lowest income group, Q5: highest income group) in **women**, Korea

	Smoking Prevalence		Smoking Intensity	
	Price elasticity	95% CI	Price elasticity	95% CI
Total	-0.066	(-0.215 to 0.074)	-0.299	(-0.427 to -0.165)
Income Q1	-0.292	(-0.561 to -0.028)	-0.322	(-0.606 to -0.046)
Income Q2	-0.037	(-0.486 to 0.379)	-0.123	(-0.517 to 0.225)
Income Q3	-0.150	(-0.528 to 0.262)	-0.476	(-0.958 to 0.018)
Income Q4	0.137	(-0.300 to 0.576)	0.042	(-0.366 to 0.466)
Income Q5	-0.231	(-0.580 to 0.167)	-0.584	(-1.036 to -0.171)

The 95% CI for price elasticity represents the 95% bootstrap confidence interval estimated by the 2.5th and 97.5th percentiles of the each price elasticity distribution of smoking prevalence and smoking intensity calculated from 1000 bootstrap samples drawn from the Korea National Health and Nutrition Examination Survey (KNHANES).

Supplementary Table 5. Simulated impact of tobacco price increases on current smoking prevalence (%) and per capita cigarette consumption (cigarettes/day) according to income (Q1: lowest income group, Q5: highest income group) for **men and women**, Korea

Men														
% Changes in tobacco price	Current smoking prevalence (%)							Per capita cigarette consumption (cigarettes/day)						
	Total	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)	Q1-Q5	Total	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)	Q1-Q5
No change	39.41	41.80	41.73	40.61	38.85	33.92	7.88	5.47	6.21	6.09	5.65	5.03	4.31	1.90
10% increase	37.51	39.96	39.91	38.97	37.31	32.76	7.21	5.34	6.10	6.02	5.52	4.98	4.21	1.89
20% increase	35.71	38.21	38.17	37.39	35.82	31.63	6.58	5.22	5.98	5.95	5.38	4.92	4.11	1.88
30% increase	33.99	36.53	36.50	35.87	34.40	30.54	5.98	5.10	5.87	5.88	5.25	4.86	4.01	1.87
40% increase	32.35	34.92	34.91	34.42	33.03	29.50	5.42	4.99	5.77	5.82	5.13	4.81	3.91	1.86
50% increase	30.80	33.39	33.38	33.03	31.72	28.48	4.90	4.87	5.66	5.75	5.01	4.75	3.82	1.84
60% increase	29.31	31.92	31.93	31.69	30.46	27.51	4.41	4.76	5.56	5.68	4.88	4.70	3.73	1.83
70% increase	27.90	30.51	30.53	30.41	29.25	26.56	3.95	4.66	5.45	5.62	4.77	4.64	3.64	1.82
80% increase	26.56	29.17	29.20	29.17	28.09	25.65	3.52	4.55	5.35	5.55	4.65	4.59	3.55	1.80
90% increase	25.28	27.89	27.93	27.99	26.97	24.77	3.12	4.45	5.25	5.49	4.54	4.54	3.46	1.79
100% increase	24.07	26.66	26.71	26.86	25.90	23.92	2.75	4.35	5.16	5.43	4.43	4.48	3.38	1.78

Women														
% Changes in tobacco price	Current smoking prevalence (%)							Per capita cigarette consumption (cigarettes/day)						
	Total	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)	Q1-Q5	Total	Q1 (lowest)	Q2	Q3	Q4	Q5 (highest)	Q1-Q5
No change	5.95	8.84	6.54	6.05	4.53	3.67	5.18	0.46	0.71	0.52	0.52	0.31	0.22	0.49
10% increase	5.91	8.59	6.52	5.96	4.59	3.58	5.00	0.44	0.69	0.51	0.50	0.31	0.20	0.48
20% increase	5.87	8.34	6.50	5.87	4.65	3.50	4.84	0.43	0.67	0.51	0.47	0.32	0.19	0.47
30% increase	5.83	8.10	6.47	5.78	4.72	3.42	4.68	0.42	0.65	0.50	0.45	0.32	0.18	0.46
40% increase	5.79	7.87	6.45	5.70	4.78	3.34	4.52	0.40	0.62	0.49	0.43	0.32	0.17	0.45
50% increase	5.75	7.64	6.42	5.61	4.85	3.27	4.37	0.39	0.60	0.49	0.41	0.32	0.16	0.44
60% increase	5.72	7.42	6.40	5.53	4.92	3.19	4.23	0.38	0.59	0.48	0.39	0.32	0.15	0.43
70% increase	5.68	7.21	6.38	5.45	4.98	3.12	4.09	0.37	0.57	0.48	0.37	0.32	0.14	0.42
80% increase	5.64	7.00	6.35	5.37	5.05	3.05	3.95	0.36	0.55	0.47	0.36	0.32	0.14	0.41
90% increase	5.60	6.80	6.33	5.29	5.12	2.98	3.82	0.35	0.53	0.46	0.34	0.33	0.13	0.40
100% increase	5.57	6.60	6.31	5.21	5.19	2.91	3.69	0.34	0.51	0.46	0.32	0.33	0.12	0.39

Supplementary Table 6. Sex-specific numbers (%) of baseline study participants in 2006 and deaths during follow-up until 2015 according to income (Q1: lowest income group, Q5: highest income group) and risk factors in the National Health Insurance Service-National Sample Cohort (NHIS-NSC) 2006-2015, Korea

	All		Men		Women	
	No. of participants (%)	No. of deaths	No. of participants (%)	No. of deaths	No. of participants (%)	No. of deaths
Income						
Income Q1	59 923 (20.4)	3522	30 813 (20.6)	2221	29 110 (20.2)	1301
Income Q2	59 117 (20.1)	3220	30 415 (20.3)	2090	28 702 (19.9)	1130
Income Q3	58 767 (20.0)	2811	30 126 (20.1)	1570	28 641 (19.9)	1241
Income Q4	61 911 (21.1)	2737	30 632 (20.5)	1561	31 279 (21.7)	1176
Income Q5	54 140 (18.4)	2663	27 633 (18.5)	1538	26 507 (18.4)	1125
Duration of smoking cessation						
<5 years	81457 (27.7)	4537	76 940 (51.4)	4177	4517 (3.1)	360
5-9 years	1303 (0.4)	71	1274 (0.9)	66	29 (0.0)	5
≥10 years	953 (0.3)	70	939 (0.6)	69	14 (0.0)	1
Never smoking	210145 (71.5)	10275	70 466 (47.1)	4668	139 679 (96.8)	5607
Current smoking						
No smoking	214 209 (72.9)	10 498	74 424 (49.7)	4883	139 785 (96.9)	5615
Current smoking	79 649 (27.1)	4455	75 195 (50.3)	4097	4454 (3.1)	358
Total	293 858 (100.0)	14 953	149 619 (100.0)	8980	144 239 (100.0)	5973

1 The mean age of the NHIS-NSC participants was 47.0 years for both sexes, 45.7 years for men, and 48.3 years for women.

2 The mean of per capita cigarette consumption of the NHIS-NSC participants was 4.4 cigarettes/day for both sexes, 8.5 cigarettes/day for men, and 0.3 cigarettes/day for women.

Supplementary Table 7. Cox regression coefficients (β) with standard errors for mortality in the National Health Insurance Service-National Sample Cohort (NHIS-NSC) 2006-2015, Korea

	All	Men
	β (SE)	β (SE)
Age, years	0.116 (0.001)***	0.111 (0.001)***
Sex		
Male	0.000 (reference)	
Female	-0.604 (0.019)***	
Income		
Income Q1	0.306 (0.026)***	0.388 (0.033)***
Income Q2	0.170 (0.026)***	0.224 (0.034)***
Income Q3	0.166 (0.027)***	0.182 (0.036)***
Income Q4	0.034 (0.027)	0.055 (0.036)
Income Q5	0.000 (reference)	0.000 (reference)
Duration of smoking cessation		
<5 years	0.168 (0.111)	0.143 (0.113)
5-9 years	0.155 (0.120)	0.081 (0.124)
≥ 10 years	-0.120 (0.120)	-0.135 (0.121)
Never smoking	0.000 (reference)	0.000 (reference)
Consumption	0.005 (0.002)***	0.004 (0.002)**
Current smoking		
No smoking	0.000 (reference)	0.000 (reference)
Current smoking	0.244 (0.114)**	0.231 (0.116)
Survival rate at time t (t=10 years)	0.9491	0.9400

p-value: * <0.1 , ** <0.05 , *** <0.001

Income Q1: lowest income group, income Q5: highest income group

Supplementary Table 8 Distribution of risk factors in the whole population and each income group (Q1: lowest income group, Q5: highest income group) in the Korea National Health and Nutrition Examination Survey (KNHANES) 2015 to 2017, Korea

	All						Men					
	Whole population	Income group levels					Whole population	Income group levels				
		Q1	Q2	Q3	Q4	Q5		Q1	Q2	Q3	Q4	Q5
Age, years *	51.37	51.77	51.50	51.33	51.18	51.08	51.14	51.50	51.12	51.26	50.90	50.91
Sex												
Male	0.437	0.438	0.437	0.436	0.439	0.436						
Female	0.563	0.563	0.564	0.564	0.561	0.564						
Income												
Income Q1	0.199	1	0	0	0	0	0.199	1	0	0	0	0
Income Q2	0.201	0	1	0	0	0	0.200	0	1	0	0	0
Income Q3	0.201	0	0	1	0	0	0.200	0	0	1	0	0
Income Q4	0.201	0	0	0	1	0	0.201	0	0	0	1	0
Income Q5	0.199	0	0	0	0	1	0.199	0	0	0	0	1
Duration of smoking cessation												
<5 years	0.286	0.323	0.306	0.289	0.269	0.242	0.493	0.526	0.528	0.496	0.479	0.432
5-9 years	0.036	0.035	0.036	0.040	0.033	0.037	0.062	0.054	0.062	0.067	0.059	0.069
≥10 years	0.111	0.100	0.099	0.114	0.119	0.124	0.198	0.167	0.177	0.196	0.219	0.232
Never smoking	0.567	0.543	0.559	0.557	0.579	0.598	0.247	0.252	0.233	0.241	0.244	0.268
Consumption (cigarettes/day)												
Cigarette smoking	2.942	3.465	3.280	3.088	2.639	2.232	5.465	6.212	6.093	5.653	5.035	4.309
No smoking	0.771	0.743	0.757	0.762	0.781	0.812	0.606	0.582	0.583	0.594	0.612	0.661
Current smoking	0.229	0.257	0.243	0.238	0.219	0.189	0.394	0.418	0.417	0.406	0.389	0.339

*Mean.

Supplementary Table 9. Ten scenarios of changes in current smoking prevalence and per capital cigarette consumption by income and associated **overall mortality risk** in the whole population, Korea

% Changes in price	All		Men	
	10-year rate % (95% CI)	R % (95% CI)	10-year rate % (95% CI)	R % (95% CI)
No change	5.09 (5.00, 5.16)		6.00 (5.87, 6.12)	
10% increase	5.08 (4.99, 5.15)	0.2 (0.0, 0.4)	5.98 (5.85, 6.11)	0.4 (0.1, 0.8)
20% increase	5.07 (4.98, 5.14)	0.5 (0.1, 0.8)	5.95 (5.82, 6.09)	0.8 (0.2, 1.5)
30% increase	5.06 (4.97, 5.13)	0.7 (0.1, 1.1)	5.93 (5.79, 6.08)	1.1 (0.2, 2.2)
40% increase	5.05 (4.96, 5.12)	0.9 (0.1, 1.5)	5.91 (5.76, 6.07)	1.5 (0.3, 2.8)
50% increase	5.04 (4.95, 5.11)	1.1 (0.2, 1.8)	5.89 (5.73, 6.05)	1.8 (0.4, 3.5)
60% increase	5.03 (4.94, 5.10)	1.3 (0.2, 2.1)	5.87 (5.71, 6.04)	2.1 (0.4, 4.1)
70% increase	5.02 (4.93, 5.10)	1.4 (0.2, 2.4)	5.85 (5.68, 6.02)	2.4 (0.5, 4.7)
80% increase	5.01 (4.92, 5.09)	1.6 (0.2, 2.7)	5.83 (5.65, 6.02)	2.7 (0.6, 5.2)
90% increase	5.00 (4.91, 5.09)	1.8 (0.3, 3.0)	5.82 (5.62, 6.01)	3.0 (0.6, 5.7)
100% increase	4.99 (4.89, 5.09)	2.0 (0.3, 3.3)	5.80 (5.59, 6.01)	3.3 (0.7, 6.2)

Note: The confidence interval (CI) for 10-year mortality risk represents the 95% bootstrap confidence interval estimated by the 2.5th and 97.5th percentiles of the distribution of the mortality risks calculated after applying the Cox regression model to 200 bootstrap samples from the National Health Insurance Service (NHIS) sample cohort data (2006-2015). The reduction % in 10-year overall mortality risk, denoted by R %, was calculated as $(P_C - P_S)/P_C \times 100$, where P_C is the predicted risk in the whole population based on the current distributions of risk factors in the Korea National Health and Nutrition Examination Survey (KNHANES) 2015-2017, and P_S is the predicted risk in the whole population based on each of the scenarios.

Supplementary Table 10. Effects of adjusting tobacco prices under different scenarios on the relative index of inequality (RII) and slope index of inequality (SII) (95% confidence interval, CI) by income, Korea

	Relative inequality measure		Absolute inequality measure	
	RII (95% CI)	RIIR % (95% CI)	SII per 100 000 (95% CI)	SIIR % (95% CI)
All				
No change	1.68 (1.60 to 1.79)		2617 (2340 to 2913)	
10% increase	1.68 (1.60 to 1.78)	0.5 (0.1 to 0.9)	2601 (2328 to 2899)	0.6 (0.1 to 1.1)
20% increase	1.68 (1.60 to 1.78)	1.0 (0.1 to 1.7)	2585 (2317 to 2884)	1.2 (0.1 to 2.1)
30% increase	1.67 (1.59 to 1.78)	1.4 (0.2 to 2.5)	2571 (2306 to 2870)	1.7 (0.2 to 3.1)
40% increase	1.67 (1.59 to 1.78)	1.8 (0.2 to 3.3)	2557 (2296 to 2856)	2.3 (0.3 to 4.0)
50% increase	1.67 (1.59 to 1.77)	2.2 (0.2 to 4.0)	2545 (2287 to 2843)	2.7 (0.3 to 4.8)
60% increase	1.66 (1.58 to 1.77)	2.6 (0.3 to 4.6)	2533 (2278 to 2832)	3.2 (0.4 to 5.7)
70% increase	1.66 (1.58 to 1.77)	2.9 (0.3 to 5.2)	2521 (2265 to 2822)	3.7 (0.4 to 6.4)
80% increase	1.66 (1.58 to 1.77)	3.2 (0.4 to 5.8)	2510 (2251 to 2813)	4.1 (0.5 to 7.1)
90% increase	1.66 (1.58 to 1.77)	3.5 (0.4 to 6.3)	2500 (2236 to 2804)	4.5 (0.6 to 7.8)
100% increase	1.66 (1.57 to 1.77)	3.8 (0.4 to 6.8)	2490 (2228 to 2797)	4.8 (0.6 to 8.5)
Men				
No change	1.84 (1.73 to 1.98)		3608 (3226 to 4037)	
10% increase	1.84 (1.73 to 1.98)	0.4 (0.1 to 0.8)	3583 (3203 to 4005)	0.7 (0.1 to 1.4)
20% increase	1.84 (1.72 to 1.97)	0.8 (0.1 to 1.6)	3560 (3180 to 3977)	1.3 (0.2 to 2.7)
30% increase	1.83 (1.72 to 1.97)	1.2 (0.2 to 2.4)	3537 (3155 to 3959)	2.0 (0.3 to 3.9)
40% increase	1.83 (1.71 to 1.97)	1.5 (0.2 to 3.1)	3516 (3124 to 3954)	2.6 (0.5 to 5.0)
50% increase	1.83 (1.71 to 1.97)	1.8 (0.3 to 3.7)	3496 (3095 to 3939)	3.1 (0.6 to 6.1)
60% increase	1.83 (1.71 to 1.96)	2.1 (0.3 to 4.3)	3477 (3073 to 3934)	3.6 (0.7 to 7.1)
70% increase	1.82 (1.70 to 1.96)	2.4 (0.4 to 4.9)	3459 (3051 to 3921)	4.1 (0.8 to 8.1)
80% increase	1.82 (1.70 to 1.96)	2.7 (0.4 to 5.4)	3442 (3025 to 3910)	4.6 (0.8 to 9.0)
90% increase	1.82 (1.70 to 1.96)	2.9 (0.4 to 5.9)	3425 (3000 to 3897)	5.1 (0.9 to 9.9)
100% increase	1.82 (1.70 to 1.96)	3.1 (0.5 to 6.3)	3410 (2976 to 3884)	5.5 (1.0 to 10.7)

Note: The slope index of inequality (SII) is the difference in the predicted mortality risks at the top (range=1) and bottom (range=0) of the income distribution. The relative index of inequality (RII) is the ratio of the predicted mortality risks at the top (range=1) and bottom (range=0) of the income distribution; The CI for SII and RII represents the 95% bootstrap confidence intervals estimated by the 2.5th and 97.5th percentiles of the distribution of the SIIs and RIIs for the 10-year mortality risks calculated after applying the Cox regression model to 200 bootstrap samples from the National Health Insurance Service (NHIS) sample cohort data (2006-2015). RIIR (RII reduction, %) = $[\text{RIIC} - \text{RIIS}]/[\text{RIIC} - 1] \times 100$, SIIR (SII reduction, %) = $[\text{SIIC} - \text{SIIS}]/\text{SIIC} \times 100$, where the subscript 'C' represents the current distributions of smoking-related variables in the Korea National Health and Nutrition Examination Survey (KNHANES) 2015-2017, and the subscript 'S' represents each of the scenarios (i.e., % change in price).

Supplementary Table 11. Effects of adjusting tobacco prices under different scenarios on relative risk (RR) and absolute risk (AR) by income levels (income Q1 vs. income Q5 presented), Korea

	Relative risk		Absolute risk	
	RR (95% CI)	RRR % (95% CI)	AR per 100 000 (95% CI)	ARR % (95% CI)
All				
No change	1.51 (1.46 to 1.59)		2166 (1959 to 2426)	
10% increase	1.51 (1.46 to 1.58)	0.4 (0.0 to 0.8)	2153 (1943 to 2413)	0.6 (0.1 to 1.1)
20% increase	1.51 (1.46 to 1.58)	0.8 (0.1 to 1.5)	2141 (1934 to 2400)	1.2 (0.1 to 2.0)
30% increase	1.51 (1.46 to 1.58)	1.2 (0.1 to 2.2)	2130 (1914 to 2388)	1.7 (0.2 to 3.0)
40% increase	1.51 (1.46 to 1.58)	1.6 (0.2 to 2.9)	2119 (1900 to 2377)	2.2 (0.3 to 3.9)
50% increase	1.50 (1.45 to 1.58)	1.9 (0.2 to 3.5)	2108 (1887 to 2365)	2.7 (0.3 to 4.7)
60% increase	1.50 (1.45 to 1.58)	2.2 (0.2 to 4.1)	2099 (1874 to 2353)	3.1 (0.4 to 5.5)
70% increase	1.50 (1.45 to 1.58)	2.5 (0.3 to 4.6)	2089 (1863 to 2342)	3.6 (0.5 to 6.2)
80% increase	1.50 (1.45 to 1.58)	2.8 (0.3 to 5.1)	2080 (1852 to 2336)	4.0 (0.5 to 6.9)
90% increase	1.50 (1.45 to 1.57)	3.0 (0.3 to 5.6)	2072 (1842 to 2330)	4.4 (0.6 to 7.5)
100% increase	1.50 (1.45 to 1.57)	3.3 (0.4 to 6.0)	2064 (1833 to 2325)	4.7 (0.6 to 8.1)
Men				
No change	1.62 (1.53 to 1.73)		3006 (2652 to 3400)	
10% increase	1.62 (1.53 to 1.73)	0.4 (0.0 to 0.8)	2985 (2636 to 3385)	0.7 (0.1 to 1.4)
20% increase	1.62 (1.53 to 1.73)	0.8 (0.1 to 1.6)	2965 (2610 to 3370)	1.3 (0.2 to 2.7)
30% increase	1.62 (1.53 to 1.72)	1.1 (0.1 to 2.3)	2947 (2585 to 3354)	2.0 (0.3 to 3.9)
40% increase	1.61 (1.53 to 1.72)	1.4 (0.2 to 2.9)	2929 (2561 to 3337)	2.5 (0.5 to 5.1)
50% increase	1.61 (1.52 to 1.72)	1.7 (0.2 to 3.6)	2912 (2539 to 3326)	3.1 (0.6 to 6.2)
60% increase	1.61 (1.52 to 1.72)	2.0 (0.3 to 4.2)	2897 (2518 to 3314)	3.6 (0.7 to 7.2)
70% increase	1.61 (1.52 to 1.72)	2.3 (0.3 to 4.7)	2882 (2498 to 3301)	4.1 (0.8 to 8.2)
80% increase	1.61 (1.52 to 1.71)	2.5 (0.3 to 5.2)	2867 (2480 to 3290)	4.6 (0.9 to 9.1)
90% increase	1.61 (1.51 to 1.71)	2.8 (0.4 to 5.7)	2854 (2464 to 3279)	5.1 (0.9 to 9.9)
100% increase	1.60 (1.51 to 1.71)	3.0 (0.4 to 6.1)	2841 (2449 to 3272)	5.5 (1.0 to 10.7)

Note: relative risk (RR), absolute risk (AR), RR reduction (RRR), and AR reduction (ARR), for comparing income Q1 (the bottom 20% of income) and income Q5 (the top 20% of income) are defined as follows: $RR = P_L/P_H$, $AR = P_L - P_H$, $RRR(\%) = [(P_L/P_H)_C - (P_L/P_H)_S] / [(P_L/P_H)_C - 1] \times 100$, $ARR(\%) = [(P_L - P_H)_C - (P_L - P_H)_S] / (P_L - P_H)_C \times 100$, where P_L is the mortality risk in income Q1, P_H is the mortality risk in income Q5, the subscript 'C' represents the current distributions of risk factors in KNHANES 2015-2017, and the subscript 'S' represents each of the scenarios. The CI for RR and AR represents the 95% bootstrap confidence intervals estimated by the 2.5th and 97.5th percentiles of the distribution of the RRs and ARs for the 10-year mortality risks calculated after applying the Cox regression model to 200 bootstrap samples from the National Health Insurance Service (NHIS) sample cohort data (2006-2015).

Supplementary Table 12a. Relative reduction and absolute reduction estimates by income group for mortality under different scenarios **in all subjects (men and women combined), Korea**

% Changes in price	10-year rate %	Relative reduction		Absolute reduction	
		RR	RRR %	AR per 100 000	ARR %
Current					
Income Q1	6.39	1.513		2166	
Income Q2	5.39	1.278		1174	
Income Q3	5.23	1.240		1014	
Income Q4	4.49	1.063		265	
Income Q5	4.22				
10% increase					
Income Q1	6.37	1.511	0.4	2153	0.6
Income Q2	5.38	1.277	0.4	1167	0.6
Income Q3	5.22	1.239	0.4	1009	0.6
Income Q4	4.48	1.063	0.0	265	0.1
Income Q5	4.21				
20% increase					
Income Q1	6.35	1.509	0.8	2141	1.2
Income Q2	5.37	1.276	0.8	1161	1.1
Income Q3	5.21	1.239	0.8	1003	1.1
Income Q4	4.47	1.063	-0.1	265	0.3
Income Q5	4.21				
30% increase					
Income Q1	6.33	1.507	1.2	2130	1.7
Income Q2	5.35	1.275	1.1	1155	1.6
Income Q3	5.20	1.238	1.1	998	1.6
Income Q4	4.46	1.063	-0.1	264	0.4
Income Q5	4.20				
40% Increase					
Income Q1	6.31	1.505	1.6	2119	2.2
Income Q2	5.34	1.274	1.4	1149	2.1
Income Q3	5.19	1.237	1.5	993	2.1
Income Q4	4.46	1.063	-0.1	264	0.5
Income Q5	4.19				
50% increase					
Income Q1	6.29	1.504	1.9	2108	2.7
Income Q2	5.33	1.273	1.8	1144	2.5
Income Q3	5.17	1.236	1.8	989	2.6
Income Q4	4.45	1.063	-0.1	264	0.7
Income Q5	4.19				
60% increase					
Income Q1	6.28	1.502	2.2	2099	3.1
Income Q2	5.32	1.272	2.0	1139	3.0
Income Q3	5.16	1.235	2.1	984	3.0
Income Q4	4.44	1.063	-0.1	263	0.8
Income Q5	4.18				
70% increase					
Income Q1	6.26	1.501	2.5	2089	3.6
Income Q2	5.31	1.272	2.3	1134	3.4
Income Q3	5.15	1.235	2.4	980	3.4
Income Q4	4.44	1.063	-0.1	263	1.0
Income Q5	4.17				

80% increase					
Income Q1	6.25	1.499	2.8	2080	4.0
Income Q2	5.30	1.271	2.6	1130	3.8
Income Q3	5.14	1.234	2.7	975	3.8
Income Q4	4.43	1.063	-0.1	262	1.1
Income Q5	4.17				
90% increase					
Income Q1	6.23	1.498	3.0	2072	4.4
Income Q2	5.29	1.270	2.8	1125	4.1
Income Q3	5.13	1.233	2.9	972	4.2
Income Q4	4.42	1.063	-0.1	262	1.3
Income Q5	4.16				
100% increase					
Income Q1	6.22	1.497	3.3	2064	4.7
Income Q2	5.28	1.270	3.1	1121	4.5
Income Q3	5.13	1.233	3.2	968	4.6
Income Q4	4.42	1.063	-0.1	262	1.4
Income Q5	4.16				

Supplementary Table 12b. Relative reduction and absolute reduction estimates by income group for mortality under different scenarios **in men, Korea**

% Changes in price	10-year rate %	Relative reduction		Absolute reduction	
		RR	RRR %	AR per 100 000	ARR %
Current					
Income Q1	7.83	1.624		3006	
Income Q2	6.41	1.329		1587	
Income Q3	6.18	1.282		1361	
Income Q4	5.19	1.077		370	
Income Q5	4.82				
10% increase					
Income Q1	7.79	1.621	0.4	2985	0.7
Income Q2	6.38	1.328	0.5	1574	0.8
Income Q3	6.16	1.281	0.5	1350	0.8
Income Q4	5.17	1.076	0.9	366	1.2
Income Q5	4.81				
20% increase					
Income Q1	7.76	1.619	0.8	2965	1.3
Income Q2	6.35	1.326	1.0	1562	1.6
Income Q3	6.13	1.279	1.0	1339	1.6
Income Q4	5.15	1.075	1.8	361	2.4
Income Q5	4.79				
30% increase					
Income Q1	7.73	1.617	1.1	2947	2.0
Income Q2	6.33	1.324	1.5	1550	2.4
Income Q3	6.11	1.278	1.5	1329	2.4
Income Q4	5.14	1.075	2.7	357	3.5
Income Q5	4.78				
40% increase					
Income Q1	7.69	1.615	1.4	2929	2.5
Income Q2	6.30	1.323	1.9	1539	3.1
Income Q3	6.08	1.277	2.0	1319	3.1
Income Q4	5.12	1.074	3.4	353	4.5
Income Q5	4.77				
50% increase					
Income Q1	7.67	1.613	1.7	2912	3.1
Income Q2	6.28	1.322	2.3	1528	3.7
Income Q3	6.06	1.276	2.4	1310	3.8
Income Q4	5.10	1.074	4.2	350	5.5
Income Q5	4.75				
60% increase					
Income Q1	7.64	1.611	2.0	2897	3.6
Income Q2	6.26	1.320	2.7	1518	4.3
Income Q3	6.04	1.274	2.8	1301	4.4
Income Q4	5.09	1.073	4.8	346	6.4
Income Q5	4.74				
70% increase					
Income Q1	7.61	1.609	2.3	2882	4.1
Income Q2	6.24	1.319	3.1	1509	4.9
Income Q3	6.02	1.273	3.2	1292	5.0
Income Q4	5.07	1.073	5.5	343	7.3
Income Q5	4.73				
80% increase					
Income Q1	7.58	1.608	2.5	2867	4.6
Income Q2	6.22	1.318	3.4	1500	5.5
Income Q3	6.00	1.272	3.6	1284	5.6
Income Q4	5.06	1.072	6.1	340	8.1

Income Q5	4.72				
90% increase					
Income Q1	7.56	1.606	2.8	2854	5.1
Income Q2	6.20	1.317	3.7	1492	6.0
Income Q3	5.98	1.271	3.9	1277	6.2
Income Q4	5.04	1.072	6.6	337	8.9
Income Q5	4.71				
100% increase					
Income Q1	7.54	1.605	3.0	2841	5.5
Income Q2	6.18	1.316	4.0	1484	6.5
Income Q3	5.97	1.270	4.2	1270	6.7
Income Q4	5.03	1.071	7.2	335	9.6
Income Q5	4.70				