ON-LINE APPENDIX: THE MODEL

To estimate a change in the number of smokers following the economic crisis, we propose a novel method. The general scheme applied is as follows:

\[
\text{Change in number of smokers for each employment status } L \\
N_1^L s_1^L - N_0^L s_0^L
\]

\[
\text{Change in Population} \\
(N_1^L - N_0^L) s_0^L
\]

\[
\text{Change in Prevalence} \\
(s_1^L - s_0^L) N_1^L
\]

where:

\[
N_0 = \text{population in the pre-crisis period}
\]

\[
N_1 = \text{population in the post-crisis period}
\]

\[
N_1^L = \text{number of population in employment status } L \text{ in the post-crisis period;}
\]

\[
s_1^L = \text{smoking prevalence for employment status } L \text{ in the post-crisis period;}
\]

\[
N_0^L = \text{number of population in employment status } L \text{ in the pre-crisis period;}
\]

\[
s_0^L = \text{smoking prevalence for employment status } L \text{ in the pre-crisis period}
\]

\[
E(N_1^L) = (N_0^L/N_0) N_1
\]

\[
E(s_1^L) = s_0^L \text{ decreased by the trend and adjusted by socioeconomic characteristics.}
\]