

Table 3 Decomposition analysis of socioeconomic inequality in poor self-rated health

Variable	Marginal effects	Mean	Elasticity	C_k	Contribution		
					Absolute	Percentage	Summed percentage
Age group (years)							
< 40	Ref	0.65	Ref	Ref	Ref	Ref	2.4
≥ 40	0.069	0.35	0.174	-0.041	-0.007	2.4	
Sex							
Male	Ref	0.61	Ref	Ref	Ref	Ref	0.27
Female	0.040	0.39	0.112	-0.007	-0.000	0.27	
Marital status							
Single	Ref	0.35	Ref	Ref	Ref	Ref	2.56
Married	0.032	0.60	0.138	-0.049	-0.007	2.31	
Divorced/widowed	0.011	0.05	0.004	-0.168	-0.000	0.23	
Socioeconomic status							
1 (poorest)	0.124	0.20	0.179	-0.800	-0.143	48.5	45.50
2	0.029	0.21	0.044	-0.399	-0.017	5.9	
3	0.065	0.19	0.088	0.000	0.000	0.00	
4	0.046	0.20	0.066	0.400	0.026	-9.00	
5 (wealthiest)	Ref	0.20	Ref	Ref	Ref	Ref	
Health insurance							
Yes	0.14	80	0.081	0.051	0.004	-1.40	-1.40
No	Ref	20	Ref	Ref	Ref	Ref	
Smoking status							
Smoker	0.017	0.81	0.099	-0.216	-0.021	7.26	7.26
Non-smoker	Ref	0.19	Ref	Ref	Ref	Ref	
Obesity status							
Obese	0.069	0.91	0.453	0.135	0.061	-20.72	-20.72
Not obese	Ref	0.9	Ref	Ref	Ref	Ref	
Chronic health condition							
Yes	0.300	0.13	0.281	-0.035	-0.035	11.90	11.90
No	Ref	0.87	Ref	Ref	Ref	Ref	
Total observed					-0.141		47.7
Residual					-0.154		52.3
C index for total sample					-0.295		100

C_k : concentration index, Ref: reference category in the regression analysis.