Supplementary Table

Supplementary Table S1. Odds ratios of catastrophic health expenditure by characteristic of diabetes patients

Number of chronic diseases		Odds ratio (95% CI)	P value
Sex Male 1 (ref) Female 0.78 (0.70-0.88) <0.001	Number of chronic diseases	1.44 (1.37-1.53)	< 0.001
Male 1 (ref) Female 0.78 (0.70-0.88) <0.001	Age, per 5 years	1.11 (1.07-1.14)	< 0.001
Female 0.78 (0.70-0.88) <0.001 School education level Primary school and below 1 (ref) Secondary school 0.83 (0.74-0.94) 0.002 Junior college and above 0.44 (0.35-0.56) <0.001 Employment status Employed 1 (ref) Retired 1.51 (1.26-1.80) <0.001 Student 2.49 (0.45-13.85) 0.298 Unemployed 1.78 (1.24-2.56) 0.002 Jobless† 1.59 (1.36-1.86) <0.001 Smoking status Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001 Frequency of alcohol consumption At least 3 times a week 1 (ref) 1 or 2 times a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) <0.001 Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 0.138 (1.19-1.60) <0.001	Sex		
School education level Primary school and below 1 (ref) Secondary school 0.83 (0.74-0.94) 0.002 Junior college and above 0.44 (0.35-0.56) <0.001	Male	1 (ref)	
Primary school and below 1 (ref) Secondary school 0.83 (0.74-0.94) 0.002 Junior college and above 0.44 (0.35-0.56) <0.001	Female	0.78 (0.70-0.88)	< 0.001
Secondary school 0.83 (0.74-0.94) 0.002 Junior college and above 0.44 (0.35-0.56) <0.001	School education level		
Junior college and above 0.44 (0.35-0.56) <0.001	Primary school and below	1 (ref)	
Employment status Employed 1 (ref) Retired 1.51 (1.26-1.80) <0.001 Student 2.49 (0.45-13.85) 0.298 Unemployed 1.78 (1.24-2.56) 0.002 Jobless† 1.59 (1.36-1.86) <0.001 Smoking status Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001 Frequency of alcohol consumption At least 3 times a week 1 (ref) 1 or 2 times a week 1.15 (0.80-1.66) 0.449 Less than once a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) <0.001 Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Secondary school	0.83 (0.74-0.94)	0.002
Employed 1 (ref) Retired 1.51 (1.26-1.80) <0.001 Student 2.49 (0.45-13.85) 0.298 Unemployed 1.78 (1.24-2.56) 0.002 Jobless† 1.59 (1.36-1.86) <0.001 Smoking status Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001 Frequency of alcohol consumption At least 3 times a week 1 (ref) 1 or 2 times a week 1.15 (0.80-1.66) 0.449 Less than once a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) <0.001 Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Junior college and above	0.44 (0.35-0.56)	< 0.001
Retired 1.51 (1.26-1.80) <0.001	Employment status		
Student 2.49 (0.45-13.85) 0.298 Unemployed 1.78 (1.24-2.56) 0.002 Jobless† 1.59 (1.36-1.86) <0.001	Employed	1 (ref)	
Unemployed 1.78 (1.24-2.56) 0.002 Jobless† 1.59 (1.36-1.86) <0.001 Smoking status Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001 Frequency of alcohol consumption At least 3 times a week 1 (ref) 1 or 2 times a week 1.15 (0.80-1.66) 0.449 Less than once a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) <0.001 Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Retired	1.51 (1.26-1.80)	< 0.001
Jobless† 1.59 (1.36-1.86) <0.001	Student	2.49 (0.45-13.85)	0.298
Smoking status Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001	Unemployed	1.78 (1.24-2.56)	0.002
Daily smoker 1 (ref) Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001	Jobless†	1.59 (1.36-1.86)	< 0.001
Occasional smoker 1.45 (1.04-2.03) 0.029 Non-smoker 1.39 (1.19-1.63) <0.001	Smoking status		
Non-smoker 1.39 (1.19-1.63) <0.001	Daily smoker	1 (ref)	
Frequency of alcohol consumption At least 3 times a week 1 or 2 times a week 1.15 (0.80-1.66) Less than once a week No drinking 1.84 (1.47-2.30) Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance I (ref) UEBMI 0.90 (0.62-1.32) URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) 0.449 0.441	Occasional smoker	1.45 (1.04-2.03)	0.029
At least 3 times a week 1 (ref) 1 or 2 times a week 1.15 (0.80-1.66) Less than once a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 Quartile 4 (highest) 1.38 (1.19-1.60) 0.001	Non-smoker	1.39 (1.19-1.63)	< 0.001
1 or 2 times a week Less than once a week No drinking 1.84 (1.47-2.30) 20.001 Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 Quartile 4 (highest) 1.38 (1.19-1.60) 0.001	Frequency of alcohol consumption		
Less than once a week 1.56 (1.15-2.12) 0.004 No drinking 1.84 (1.47-2.30) <0.001	At least 3 times a week	1 (ref)	
No drinking 1.84 (1.47-2.30) <0.001	1 or 2 times a week	1.15 (0.80-1.66)	0.449
Physical examination Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Less than once a week	1.56 (1.15-2.12)	0.004
Yes 1 (ref) No 1.06 (0.96-1.18) 0.227 Health insurance 0.06 (0.96-1.18) 0.227 Health insurance 1 (ref) 0.00 (0.62-1.32) 0.588 UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status 0.94 (0.42-2.08) 0.877 Socioeconomic status 0.023 0.597 Quartile 1 (lowest) 1 (ref) 0.023 Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	No drinking	1.84 (1.47-2.30)	< 0.001
No 1.06 (0.96-1.18) 0.227 Health insurance 0.90 (0.62-1.32) 0.588 UEBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Physical examination		
Health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Yes	1 (ref)	
No public health insurance 1 (ref) UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	No	1.06 (0.96-1.18)	0.227
UEBMI 0.90 (0.62-1.32) 0.588 URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Health insurance		
URBMI 0.94 (0.65-1.38) 0.762 NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) 0.597 Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	No public health insurance	1 (ref)	
NRCMS 1.17 (0.80-1.70) 0.420 Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	UEBMI	0.90 (0.62-1.32)	0.588
Other* 0.94 (0.42-2.08) 0.877 Socioeconomic status 1 (ref) 0.90 (0.90-1.20) 0.597 Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	URBMI	0.94 (0.65-1.38)	0.762
Socioeconomic status Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	NRCMS	1.17 (0.80-1.70)	0.420
Quartile 1 (lowest) 1 (ref) Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Other*	0.94 (0.42-2.08)	0.877
Quartile 2 1.04 (0.90-1.20) 0.597 Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Socioeconomic status		
Quartile 3 1.18 (1.02-1.36) 0.023 Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Quartile 1 (lowest)	1 (ref)	
Quartile 4 (highest) 1.38 (1.19-1.60) <0.001	Quartile 2	1.04 (0.90-1.20)	0.597
	Quartile 3	1.18 (1.02-1.36)	0.023
Region	Quartile 4 (highest)	1.38 (1.19-1.60)	< 0.001
	Region		

1 (ref)	
1.08 (0.96-1.21)	0.179
1.16 (1.03-1.32)	0.017
0.83 (0.80-0.86)	< 0.001
1 (ref)	
0.58 (0.46-0.75)	< 0.001
	1.08 (0.96-1.21) 1.16 (1.03-1.32) 0.83 (0.80-0.86) 1 (ref)

[†]Jobless includes urban and rural residents who cannot be employed due to disability or long-term bedridden illness or beyond the working age, while unemployed refers to those who have the ability to work but have not been given employment opportunities.

^{*}Includes Government Employee Health Insurance and Government Labor Health Insurance. Abbreviations: CI, confidence interval; NRCMS, New Rural Cooperative Medical Scheme; UEBMI, Urban Employee Basic Medical insurance; URBMI, Urban Resident Basic Medical insurance.