Table 3 Unadjusted and adjusted multinomial regression of predictors for HNBP and hypertension (n=13 983)

	HNBP				Hypertension			
	Unadjusted		Adjusted*		Unadjusted		Adjusted	
	OR (CI)	P	OR (CI)	P	OR (CI)	P	OR (CI)	P
Age group, yr								
18–30	Reference				Reference			
31–40	1.40 (1.20–1.64)	<0.001	1.36 (1.14–1.63)	0.001	2.0 (1.70–2.33)	<0.001	1.53 (1.27–1.83)	<0.001
41–50	1.80 (1.52–2.14)	<0.001	1.67 (1.37–2.03)	<0.001	5.45 (4.65–6.38)	<0.001	3.61 (2.97–4.38)	<0.001
51–59	2.60 (2.14–3.15)	<0.001	2.39 (1.91–2.99)	<0.001	11.74 (9.88–13.0)	<0.001	7.01 (5.64–8.70)	<0.001
Gender								
Female	Reference				Reference			
Male	1.47 (1.31–1.66)	<0.001	1.52 (1.23–1.89)	<0.001	0.97 (0.89–1.08)	0.686	1.31 (1.05–1.63)	0.016
Marital status								
Never married	Reference				Reference			
Ever married	1.22 (1.04–1.44)	0.014	0.79 (0.64–0.96)	0.020	3.51 (2.92–4.22)	<0.001	1.00 (0.80–1.26)	0.979
Residence								
Rural	Reference				Reference			
Urban	0.83 (0.73–0.95)	0.009	0.77 (0.66–0.89)	<0.001	1.10 (0.97–1.24)	0.120	0.91 (0.79–1.04)	0.169
Education								
No education	Reference				Reference			
Primary	0.99 (0.79–1.23)	0.906	0.94 (0.75–1.19)	0.636	0.88 (0.72–1.06)	0.184	0.95 (0.77–1.18)	0.666
Secondary	0.80 (0.67–0.94)	0.008	0.93 (0.78–1.12)	0.455	0.51 (0.44–0.59)	<0.001	0.91 (0.77–1.09)	0.325
Higher	0.81 (0.65–1.01)	0.065	0.98 (0.76–1.27)	0.882	0.46 (0.38–0.57)	<0.001	0.86 (0.67–1.11)	0.256
Employment								
Yes	Reference				Reference			
No	0.71 (0.63–0.81)	<0.001	0.99 (0.82–1.21)	0.987	0.91 (0.82–1.01)	0.094	1.02 (0.84–1.24)	0.817
Smoking status								
Ex-smoker	1.27 (0.93–1.73)	0.129	0.85 (0.61–1.19)	0.358	1.92 (1.50–2.45)	<0.001	1.22 (0.88–1.69)	0.222
Smoker	1.41 (1.23–1.62)	<0.001	1.12 (0.91–1.36)	0.283	0.92 (0.81–1.05)	0.241	0.90 (0.74–1.09)	0.273
BMI								
Normal	Reference				Reference			
Underweight	0.81 (0.49–1.34)	0.418	0.81 (0.49–1.34)	0.412	0.57 (0.28–1.14)	0.112	0.61 (0.29–1.33)	0.217
Overweight	1.34 (1.14–1.57)	<0.001	1.33 (1.12–1.57)	0.001	1.80 (1.52–2.14)	<0.001	1.42 (1.18–1.70)	<0.001
Obese	1.64 (1.42–1.89)	<0.001	1.72 (1.47–2.02)	<0.001	4.42 (3.81–5.14)	<0.001	2.90 (2.45–3.44)	<0.001
Diabetes								
No	Reference				Reference			
Yes	1.98 (1.44–2.72)	<0.001	1.44 (1.05–1.96)	0.022	7.09 (5.73–8.76)	<0.001	2.79 (2.20–3.53)	<0.001
Heart attack								
No	Reference				Reference			
Yes	1.30 (0.51–3.28)	0.580	0.86 (0.33–2.25)	0.764	6.70 (3.83–11.71)	<0.001	1.97 (1.08–3.58)	0.026
Stroke								
No	Reference				Reference			
Yes	2.16 (0.24–19.36)	0.491	2.14 (0.24–18.96)	0.495	33.51 (10.94– 102.64)	<0.001	20.60 (5.29–80.26)	<0.001
CVD risk								
Low risk	Reference				Reference			
High risk (≥20%)[15]	3.71 (2.75–5.02)	<0.001	4.52 (3.14–6.50)	<0.001	5.88 (4.58–7.55)	<0.001	19.15 (13.08–28.05)	<0.001

*Adjustment was done for age, gender, marital status, residence, education, employment, smoking status, BMI, diabetes, previous heart attack or stroke, and CVD risk. HNBP = high-normal blood pressure; OR = odds ratio; CI = confidence interval; BMI = body mass index; DM: diabetes mellitus; CVD = cardiovascular disease.