Table 3 Logistic regression showing association between chronic headache and sociodemographic and clinical variables using baseline data from the Ravansar non-communicable disease cohort study, 2021

Variable	Males		Females	
	Univariate model	Multivariate model	Univariate model	Multivariate model
	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
Age (years)				
35–45	Ref	Ref	Ref	Ref
46–55	1.17 (0.89, 1.54)	1.03 (0.77, 1.38)	1.27 (1.10, 1.52)	1.08 (1.01, 1.32)
56–65	1.16 (0.84, 1.60)	1.06 (0.73, 1.54)	0.98 (0.81, 1.20)	0.85 (0.66, 1.11)
Residence				
Urban	Ref	Ref	Ref	Ref
Rural	0.17 (0.11, 0.25)	0.16 (0.10, 0.24)	0.19 (0.16, 0.24)	0.19 (0.15, 0.24)
Education level				
Illiterate	Ref	Ref	Ref	Ref
Primary	1.16 (0.87, 1.55)	1.14 (0.82, 1.60)	1.21 (1.03, 1.42)	1.03 (0.84, 1.26)
Secondary	0.80 (0.53, 1.21)	0.68 (0.42, 1.11)	1.20 (0.83, 1.74)	0.87 (0.56, 1.35)
Tertiary	1.04 (0.69, 1.56)	0.78 (0.46, 1.31)	0.81 (0.48, 1.35)	0.44 (0.23, 0.83)
Employment				
No	Ref	Ref	Ref	Ref
Yes	0.62 (0.36, 0.99)	0.57 (0.32, 1.01)	1.11 (0.13, 9.43)	0.84 (0.10, 7.47)
Retired	1.26 (0.64, 2.46)	1.01 (0.50, 2.02)	7.98 (0.60, 10.93)	6.83 (0.48, 10.35)
Housewife/ husband	–	–	1.05 (0.13, 8.78)	0.96 (0.12, 8.41)
Depression				
No	Ref	Ref	Ref	Ref
Yes	2.43 (1.23, 4.87)	2.73 (1.34, 5.52)	2.45 (1.84, 3.26)	2.38 (1.76, 3.23)
Marital status				
Single	Ref	Ref	Ref	Ref
Married	0.95 (0.41, 2.20)	0.73 (0.28, 1.90)	3.29 (2.05, 5.39)	1.73 (1.03, 2.91)
Divorced/ widowed	0.37 (0.04, 3.21)	0.32 (0.03, 2.95)	2.88 (1.67, 4.99)	1.61 (0.91, 2.87)
Smoking status				
Non-smoker	Ref	Ref	Ref	Ref
Current	1.10 (0.82, 1.48)	1.18 (0.87, 1.61)	0.96 (0.55, 1.66)	1.19 (0.65, 2.18)
Former	1.49 (1.08, 2.05)	1.47 (1.05, 2.06)	1.07 (0.70, 1.64)	1.18 (0.75, 1.86)
Use alcohol				
No	Ref	Ref	No data	No data
Yes	1.17 (0.84, 1.64)	1.17 (0.82, 1.68)	No data	No data
Use oral contraceptive pill				
No	Ref	Ref	Ref	Ref
Yes	–	–	1.45 (1.19, 1.77)	1.11 (0.88, 1.38)
Menopause				
No	Ref	Ref	Ref	Ref
Yes	–	–	0.80 (0.67, 0.94)	0.75 (0.61, 0.93)
Comorbidity				
No	Ref	Ref	Ref	Ref
Yes	1.83 (1.20, 2.80)	1.64 (1.04, 2.59)	1.67 (1.29, 2.16)	1.45 (1.10, 1.91)
Sleep duration (hours)	1.01 (0.91, 1.11)	1.02 (0.92, 1.13)	0.89 (0.84, 0.94)	0.88 (0.82, 0.94)
Body mass index (kg/m²)	0.99 (0.97, 1.03)	0.95 (0.88, 1.03)	1.02 (1.01, 1.04)	1.02 (0.97, 1.07)

OR = odds ratio.
CI = confidence interval.
Ref = reference category.