

**Table 4.** Prediction of the relationship of various factors with compliance in wearing the retainer using binary logistic regression (enter method).

Variable (ref)	Crude OR	Adjusted OR (95% CI)	P value
Age (ref: working-age group)	1.74 (1.05-2.88)	2.93 (1.28-6.73)	0.011
Gender (ref: male)	1.28 (0.75-2.19)	1.28 (0.63-2.61)	0.492
Length of time after debonding (ref: 1-2 years)			
>2-3 years	1.20 (0.68-2.13)	1.01 (0.45-2.23)	0.987
>3-4 years	1.24 (0.69-2.20)	0.82 (0.37-1.80)	0.619
Number of recall visits (ref: 0 time)			
1 time	1.14 (0.65-1.99)	2.40 (1.12-5.16)	0.025
2 times	1.12 (0.47-2.65)	3.09 (0.91-10.46)	0.070
More than 3 times	0.52 (0.18-1.49)	1.01 (0.25-4.03)	0.986
Motivation for orthodontic treatment (ref: internal and both)	0.66 (0.35-1.26)	0.68 (0.27-1.72)	0.411
Reasons for receiving orthodontic treatment (ref: function)			
Esthetic	1.16 (0.29-4.67)	1.08 (0.53-2.18)	0.835
Both	1.47 (0.38-5.64)	1.24 (0.19-8.03)	0.820
Sponsorship (ref: parent)	0.69 (0.43-1.13)	0.95 (0.45-2.00)	0.897
Experience in losing or breaking a retainer (ref: no)	1.56 (0.93-2.63)	2.83 (1.38-5.79)	0.004
Method of orthodontist instructions (ref: other)	0.78 (0.29-2.10)	1.02 (0.27-3.78)	0.979
Self-assessment level of compliance in wearing the retainer (ref: 0-7 score)	13.08 (7.39-23.16)	20.40 (10.25-40.61)	<0.001
Knowledge on the responsibilities of retainer (ref: did not know)	1.71 (0.11-27.67)	0.57 (0.01-47.02)	0.802
Knowledge on frequency of wearing the retainer (ref: did not know)	1.61 (0.66-3.92)	4.61 (1.41-15.03)	0.011
Knowledge on impact of non-compliance in wearing retainer (ref: did not know)	0.85 (0.25-2.88)	0.97 (0.19-4.87)	0.968
Attitude on importance of the retainer (ref: more)	1.63 (1.00-2.67)	1.23 (0.61-2.50)	0.563
Attitude on tooth relapse concern (ref: more)	1.52 (0.94-2.44)	1.27 (0.64-2.52)	0.497

Four following factors had fewer data. It was not included in the data analysis: 'how the patient managed after losing or breaking a retainer', 'knowing the location of services for a new retainer', 'difficulties in traveling to dental service clinic for a new retainer', and 'difficulty obtaining a new retainer'.