

Online Resource 1. Poisson regression models evaluating the association between anterior malocclusion and the number of present teeth as a continuous outcome.

Variables	Participants, n	Model 1	Model 2	Model 3
		RR (95% CI), <i>P</i> value		
Normal	16,790	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)
Open bite	177	1.05 (1.00–1.01), <0.001	1.04 (1.01–1.07), 0.017	1.04 (1.01–1.07), 0.081
Crossbite	348	0.99 (0.97–1.00), 0.328	0.97 (0.95–0.995), 0.016	0.98 (0.96–1.00), 0.043
Combined	34	1.00 (0.94–1.07), 0.89	0.97 (0.91–1.04), 0.409	0.97 (0.91–1.04), 0.457

Model 1: crude; Model 2: adjusted for age and sex; Model 3: adjusted for age, sex, active caries, periodontitis severity, plaque accumulation, BMI, hypertension, diabetes, smoking, alcohol consumption, education

BMI, body mass index; *CI*, confidence interval; *RR*, rate ratio

Article title: Association of anterior crossbite and open bite with the number of remaining teeth: a cross-sectional analysis from the Tohoku Medical Megabank Cohort Study

Journal name: Clinical Oral Investigations

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Online Resource 2. Poisson regression models evaluating the association between anterior malocclusion and the number of missing molars as a continuous outcome.

Variables	Participants, n	Model 1	Model 2	Model 3
		RR (95% CI), <i>P</i> value		
Normal	16,790	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)
Open bite	177	0.58 (0.52–0.65), <0.001	0.68 (0.60–0.76), <0.001	0.65 (0.57–0.73), <0.001
Crossbite	348	1.06 (1.00–1.13), 0.061	1.24 (1.17–1.32), <0.001	1.12 (1.00–1.27), <0.001
Combined	34	1.00 (0.81–1.22), 0.963	1.37 (1.12–1.68), 0.002	1.35 (1.09–1.66), 0.005

Model 1: crude; Model 2: adjusted for age and sex; Model 3: adjusted for age, sex, active caries, periodontitis severity, plaque accumulation, BMI, hypertension, diabetes, smoking, alcohol consumption, education

BMI, body mass index; *CI*, confidence interval; *RR*, rate ratio

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