

Supplementary Table 1. Descriptive characteristics of the study population based on the census distribution (states)

Variables	7 states, n (%)						
	Kachin (n=180)	Kayah (n=182)	Kayin (n=178)	Chin (n=180)	Mon (n=122)	Rakhine (n=180)	Shan (n=540)
Age (years)							
15 – 18	60 (33.3)	60 (33.0)	60 (33.7)	60 (33.3)	2 (1.6)	60 (33.3)	180 (33.3)
35 – 44	60 (33.3)	60 (33.0)	60 (33.7)	60 (33.3)	60 (49.2)	60 (33.3)	180 (33.3)
60 – 74	60 (33.3)	62 (34.1)	58 (32.6)	60 (33.3)	60 (49.2)	60 (33.3)	180 (33.3)
Gender							
Male	80 (44.4)	80 (44.0)	104 (58.4)	74 (41.1)	100 (82.0)	71 (39.4)	320 (59.3)
Female	100 (55.6)	102 (56.0)	74 (41.6)	106 (58.9)	22 (18.0)	109 (60.6)	220 (40.7)
Geographic location							
Urban	90 (50.0)	91 (50.0)	89 (50.0)	90 (50.0)	62 (50.8)	90 (50.0)	270 (50.0)
Rural	90 (50.0)	91 (50.0)	89 (50.0)	90 (50.0)	60 (49.2)	90 (50.0)	270 (50.0)
Educational level							
University and above	32 (17.8)	4 (2.2)	12 (6.7)	29 (16.1)	5 (4.1)	38 (21.1)	96 (17.8)
High school level	59 (32.8)	58 (31.9)	65 (36.5)	55 (30.6)	14 (11.5)	43 (23.9)	125 (23.1)
Junior high school level	54 (30.0)	49 (26.9)	49 (27.5)	37 (20.6)	60 (49.2)	51 (28.3)	202 (37.4)
Primary school and below	35 (19.4)	71 (39.0)	71 (39.0)	59 (32.8)	43 (35.2)	48 (26.7)	117 (21.7)
Tooth brushing							
Twice or more a day	111 (61.7)	133 (73.1)	122 (68.5)	122 (67.8)	73 (59.9)	126 (70.0)	337 (62.4)
Once a day	54 (30.0)	44 (24.2)	49 (27.5)	47 (26.1)	47 (38.5)	51 (28.3)	176 (32.6)
Less than once a day	15 (8.3)	5 (2.7)	7 (3.9)	11 (6.1)	2 (1.6)	3 (1.7)	27 (5.0)
Last dental visit							
<12 months	16 (8.9)	9 (4.9)	19 (10.7)	10 (5.6)	12 (9.8)	22 (12.2)	52 (9.6)
1 – 2 years	5 (2.8)	8 (4.4)	10 (5.6)	11 (6.1)	10 (8.2)	6 (3.3)	27 (5.0)
> 2 years	22 (12.2)	36 (19.8)	32 (18.0)	35 (19.4)	24 (19.7)	31 (17.2)	93 (17.2)
Never	137 (76.1)	129 (70.9)	117 (65.7)	124 (68.9)	76 (62.3)	121 (67.2)	368 (68.1)
Smoking cigarette currently							
No	153 (85.0)	134 (73.6)	159 (89.3)	153 (85.0)	97 (79.5)	159 (88.3)	449 (83.1)
Yes	27 (15.0)	48 (26.4)	19 (10.7)	27 (15.0)	25 (20.5)	21 (11.7)	91 (16.9)
Chewing tobacco or snuff currently							
No	132 (73.3)	132 (72.5)	142 (79.8)	139 (77.2)	84 (68.9)	144 (80.0)	417 (77.2)
Yes	48 (26.7)	50 (27.5)	36 (20.2)	41 (22.8)	38 (31.1)	36 (20.0)	123 (22.8)
Self-reported number of teeth							
20 teeth or more	151 (83.9)	153 (84.1)	151 (84.8)	159 (88.3)	97 (79.5)	147 (81.7)	461 (85.4)
10 – 19 teeth	22 (12.2)	19 (10.4)	17 (9.6)	12 (6.7)	13 (10.7)	21 (11.7)	50 (9.3)
1 – 9 teeth	6 (3.3)	8 (4.4)	9 (5.1)	7 (3.9)	12 (9.8)	11 (6.1)	24 (4.4)
No natural teeth	1 (0.6)	2 (1.1)	1 (0.6)	2 (1.1)	-	1 (0.6)	5 (0.9)
Self-rated teeth condition							
Good	58 (32.2)	47 (25.8)	54 (30.3)	46 (25.6)	31 (25.4)	44 (24.4)	156 (28.9)
Average	70 (38.9)	87 (47.8)	75 (42.1)	84 (46.7)	48 (39.3)	82 (45.6)	229 (42.4)
Poor	52 (28.9)	48 (26.4)	49 (27.5)	50 (27.8)	43 (35.2)	54 (30.0)	155 (28.7)
Self-rated gingival condition							
Good	65 (36.1)	56 (30.8)	58 (32.6)	58 (32.2)	37 (30.3)	64 (35.6)	177 (32.8)
Average	72 (40.0)	88 (48.4)	77 (43.3)	81 (45.0)	56 (45.9)	79 (43.9)	238 (44.1)
Poor	43 (23.9)	38 (20.9)	43 (24.2)	41 (22.8)	29 (23.8)	37 (20.6)	125 (23.1)

Supplementary Table 2. Descriptive characteristics of the study population based on the census distribution (regions)

Variables	8 regions, n (%)							
	Bago (n=180)	Sagaing (n=180)	Tanintharyi (n=120)	Yangon (n=300)	Mandalay (n=360)	Magway (n=360)	Ayeyarwady (n=271)	Naypyitaw (n=180)
Age (years)								
15 – 18	60 (33.3)	60 (33.3)	-	60 (20.0)	120 (33.3)	120 (33.3)	60 (22.1)	60 (33.3)
35 – 44	60 (33.3)	60 (33.3)	60 (50.0)	120 (40.0)	120 (33.3)	120 (33.3)	106 (39.1)	60 (33.3)
60 – 74	60 (33.3)	60 (33.3)	60 (50.0)	120 (40.0)	120 (33.3)	120 (33.3)	105 (38.7)	60 (33.3)
Gender								
Male	89 (49.4)	85 (47.2)	62 (51.7)	155 (51.7)	177 (49.2)	183 (50.8)	98 (36.2)	73 (40.6)
Female	91 (50.6)	95 (52.8)	58 (48.3)	145 (48.3)	183 (50.8)	177 (49.2)	173 (63.8)	107 (59.4)
Geographic location								
Urban	90 (50.0)	90 (50.0)	60 (50.0)	150 (50.0)	180 (50.0)	180 (50.0)	140 (51.7)	90 (50.0)
Rural	90 (50.0)	90 (50.0)	60 (50.0)	150 (50.0)	180 (50.0)	180 (50.0)	131 (48.3)	90 (50.0)
Educational level								
University and above	20 (11.1)	36 (20.0)	6 (5.0)	32 (10.7)	49 (13.6)	39 (10.8)	13 (4.8)	20 (11.1)
High school level	61 (33.9)	48 (26.7)	14 (11.7)	64 (21.3)	111 (30.8)	134 (37.2)	82 (30.3)	62 (34.4)
Junior high school level	49 (27.2)	26 (14.4)	62 (51.7)	110 (36.7)	53 (14.7)	59 (16.4)	63 (23.2)	48 (26.7)
Primary school and below	50 (27.8)	70 (38.9)	38 (31.7)	94 (31.3)	147 (40.8)	128 (35.6)	113 (41.7)	50 (27.8)
Tooth brushing								
Twice or more a day	91 (50.6)	110 (61.1)	65 (54.2)	186 (62.0)	242 (67.2)	217 (60.3)	170 (62.7)	98 (54.4)
Once a day	82 (45.6)	65 (36.1)	41 (34.2)	106 (35.3)	104 (28.9)	134 (37.2)	89 (32.8)	77 (42.8)
Less than once a day	7 (3.9)	5 (2.8)	14 (11.7)	8 (2.7)	14 (3.9)	9 (2.5)	12 (4.4)	5 (2.8)
Last dental visit								
<12 months	13 (7.2)	17 (9.4)	13 (10.8)	24 (8.0)	27 (7.5)	31 (8.6)	25 (9.2)	11 (6.1)
1 – 2 years	10 (5.6)	5 (2.8)	6 (5.0)	18 (6.0)	14 (3.9)	20 (5.6)	12 (4.4)	9 (5.0)
> 2 years	33 (18.3)	35 (19.4)	44 (36.7)	69 (23.0)	57 (15.8)	71 (19.7)	49 (18.1)	31 (17.2)
Never	124 (68.9)	123 (68.3)	57 (47.5)	189 (63.0)	262 (72.8)	238 (66.1)	185 (68.3)	129 (71.7)
Smoking cigarette currently								
No	150 (83.3)	150 (83.3)	98 (81.7)	244 (81.3)	301 (83.6)	297 (82.5)	222 (81.9)	152 (84.4)
Yes	30 (16.7)	30 (16.7)	22 (18.3)	56 (18.7)	59 (16.4)	63 (17.5)	49 (18.1)	28 (15.6)
Chewing tobacco or snuff currently								
No	141 (78.3)	134 (74.4)	99 (82.5)	237 (79.0)	269 (74.7)	284 (78.9)	198 (73.1)	136 (75.6)
Yes	39 (21.7)	46 (25.6)	21 (17.5)	63 (21.0)	91 (25.3)	76 (21.1)	73 (26.9)	44 (24.4)
Self-reported number of teeth								
20 teeth or more	159 (88.3)	154 (85.6)	98 (81.7)	246 (82.0)	315 (87.5)	300 (83.3)	237 (87.5)	146 (81.1)
10 – 19 teeth	13 (7.2)	16 (8.9)	15 (12.5)	36 (12.0)	29 (8.1)	41 (11.4)	23 (8.5)	27 (15.0)
1 – 9 teeth	7 (3.9)	9 (5.0)	6 (5.0)	15 (5.0)	12 (3.3)	15 (4.2)	8 (3.0)	7 (3.9)
No natural teeth	1 (0.6)	1 (0.6)	1 (0.8)	3 (1.0)	4 (1.1)	4 (1.1)	3 (1.1)	-
Self-rated teeth condition								
Good	53 (29.4)	56 (31.1)	31 (25.8)	91 (30.3)	119 (33.1)	99 (27.5)	81 (29.9)	48 (26.7)
Average	80 (44.4)	74 (41.1)	55 (45.8)	124 (41.3)	124 (34.4)	174 (48.3)	127 (46.9)	85 (47.2)
Poor	47 (26.1)	50 (27.8)	34 (28.4)	85 (28.3)	117 (32.5)	87 (24.2)	63 (23.2)	47 (26.1)
Self-rated gingival condition								
Good	72 (40.0)	65 (36.1)	45 (37.5)	105 (35.0)	149 (41.4)	111 (30.8)	87 (32.1)	60 (33.3)
Average	77 (42.8)	73 (40.6)	49 (40.8)	127 (42.3)	129 (35.8)	181 (50.3)	121 (44.6)	88 (48.9)
Poor	31 (17.2)	42 (23.3)	26 (21.7)	68 (22.7)	82 (22.8)	68 (18.9)	63 (23.2)	32 (17.8)