

Supplementary information

Additional file S1 – original codes and recoded variables

S1 Table 1. Categories for socio-behavioral characteristics, as originally coded and as recoded for analyses.

Variable	Categories	Original code	New code
Share household with	Mother and father	1	0
	Only mother	2	1
	Only father	3	1
	Other, specify	4	0/1*
Educational level of mother/father	Primary school	1	1
	High school/vocational school	2	1
	University/college (≤ 4 years)	3	0
	University/college (≥ 5 years)	4	0
	Unknown	90	[missing]
Frequency of toothbrushing	Missing	99	[missing]
	Never	1	1
	Most days	2	1
	Once a day	3	1
	Twice a day, or more	4	0
Frequency of tooth flossing during the last 3 months	Do not know	90	1
	Missing	99	[missing]
	Several times daily	1	0
	Twice a day	2	0
	Daily	3	0
Gingival bleeding occurs during toothbrushing	Several times weekly	4	0
	Several times a month, but not weekly	5	1
	Seldom	6	1
	Never	7	1
	Do not know	90	1
Pain or discomfort occurs during toothbrushing (adolescents ≥ 12 years)	Missing	99	[missing]
	Every day	1	1
	Most days	2	1
	Once a week	3	1
	Sometimes	4	1
Merged with: Impression of child's experience during toothbrushing (children < 12 years)	Never	5	0
	Do not know	90	0
	Missing	99	[missing]
	Yes	1	1
	No	2	0
Frequency of intraoral ulcerations	Do not know	90	0
	Missing	99	[missing]
	Once or several times a month	1	1
	Several times yearly, but less than once a month	2	1
	Less than once a year	3	0
	Never	4	0
	Do not know	90	0
	Missing	99	[missing]

*living across two households, given two caregivers in both households coded 1.

S1 Table 2. ECOHIS answering categories as originally coded and recoded for analysis

Category	Original code	New code for ADD score
Never	1	0
Hardly ever	2	1
Occasionally	3	2
Often	4	3
Very often	5	4
Do not know	90	0-4*
Missing	99	0-4*

* Replaced by the average score for section if less than three missing items for the child section or less than two missing items for the family section; participants with more than two items missing from the child section or more than one item missing from the family section have been excluded (n=1).