

Supplementary Table 1: Outcome measures at four years, by eligibility stratum and randomised arm

	Eligible for 24-month recall			Ineligible for 24-month recall	
	Risk-based	24-month	6-month	Risk-based	6-month
Attended clinical follow-up - n	143	138	135	606	602
Most advanced carious lesion per person – n (%)					
▪ Sound surfaces (ICDAS 0)	1 (0.7)	1 (0.7)	0 (0)	3 (0.5)	8 (1.3)
▪ Initial lesions (ICDAS 1-2)	22 (15.4)	28 (20.3)	33 (24.4)	100 (16.5)	107 (17.8)
▪ Moderate lesions (ICDAS 3-4)	98 (68.5)	87 (63.0)	87 (64.4)	393 (64.9)	376 (2.5)
▪ Extensive caries or treatment needed (ICDAS 5-6)	20 (14.0)	22 (15.9)	13 (9.6)	110 (18.2)	107 (17.8)
▪ Missing	2 (1.4)	0 (0)	2 (1.5)	0 (0)	4 (0.7)
Root caries – n (%)					
Yes	26 (18.2)	21 (15.2)	17 (12.6)	121 (20.0)	137 (22.8)
No	99 (69.2)	101 (73.2)	99 (73.3)	417 (68.8)	390 (64.8)
Missing	18 (12.6)	16 (11.6)	19 (14.1)	68 (11.2)	75 (12.5)

Supplementary Table 2: Treatment effects for the secondary outcomes at four-year follow-up

Outcome / status	Comparator	Effect size 95% CI, p-value
Eligible for 24-month recall stratum		
Anxiety	Risk-based vs six-month	-0.31 (-1.22,0.61), 0.51
	24-month vs six-month	0.02 (-0.90,0.93), 0.97
	24-month vs risk-based	0.32 (-0.60,1.24), 0.49
Attitude	Risk-based vs six-month	0.15 (-0.03,0.32), 0.11
	24-month vs six-month	0.17 (-0.01,0.35), 0.06
	24-month vs risk-based	0.02 (-0.15,0.20), 0.79
Behaviour	Risk-based vs six-month	0.01 (-0.02,0.04), 0.53
	24-month vs six-month	0.00 (-0.03,0.03), 0.89
	24-month vs risk-based	-0.01 (-0.04,0.02), 0.62
Knowledge	Risk-based vs six-month	-0.03 (-0.06,0.01), 0.10
	24-month vs six-month	-0.01 (-0.05,0.02), 0.42
	24-month vs risk-based	0.01 (-0.02,0.05), 0.41
Perceived behavioural control	Risk-based vs six-month	0.30 (-0.02,0.61), 0.06
	24-month vs six-month	0.09 (-0.22,0.40), 0.59
	24-month vs risk-based	-0.21 (-0.52,0.10), 0.19
Satisfaction	Risk-based vs six-month	0.05 (-0.10,0.20), 0.51
	24-month vs six-month	-0.11 (-0.26,0.04), 0.16
	24-month vs risk-based	-0.16 (-0.31,-0.01), 0.04
Self-reported bleeding	Risk-based vs six-month	-0.16 (-0.37,0.06), 0.15
	24-month vs six-month	-0.22 (-0.43,-0.01), 0.04
	24-month vs risk-based	-0.06 (-0.28,0.15), 0.57
EQ5-D	Risk-based vs six-month	0.032 (-0.013, 0.076), 0.165
	24-month vs six-month	0.024 (-0.021, 0.069), 0.290
	24-month vs risk-based	-0.008 (-0.053, 0.037), 0.741
Overall sample (eligible and ineligible for 24-month recall)		
Anxiety	Risk-based vs six-month	-0.11 (-0.52,0.29), 0.59
Attitude	Risk-based vs six-month	0.04 (-0.04,0.11), 0.38
Behaviour	Risk-based vs six-month	0.00 (-0.01,0.02), 0.52
Knowledge	Risk-based vs six-month	-0.01 (-0.03,0.00), 0.15
Perceived behavioural control	Risk-based vs six-month	0.06 (-0.08,0.20), 0.38
Satisfaction	Risk-based vs six-month	0.03 (-0.03,0.09), 0.31
Self-reported bleeding	Risk-based vs six-month	-0.02 (-0.12,0.08), 0.72
EQ5-D	Risk-based vs six-month	0.008 (-0.012, 0.029), 0.432

*Note: effect size represents mean difference. The models are adjusted for protocol minimisation variables and have a random effect for centre. For all variables except behaviour, knowledge, perceived behaviour control and self-reported bleeding the mixed effects model also has a random effect for participant and an interaction time*treatment effect. The effect size presented corresponds to the treatment effect at four years.*