

## Supplemental Information

**SUPPLEMENTAL TABLE 1** Fluoride Pharmacokinetics in a Toddler

	Time <sub>elapsed</sub> (min)	Vol <sub>urine</sub> (mL)	Cr <sub>urine</sub> (mg)	Flow <sub>urine</sub> (mL/min) <sup>a</sup>	F <sub>urine</sub> (μg)	[F] <sub>plasma</sub> (μg/L) <sup>b</sup>	Time <sub>mid</sub> (min) <sup>a</sup>
Diaper							
FT1	20	43	11.7	0.36	<i>4.3</i>	20	10
FT2	90	46	10.6	0.43	28	25	74
FT3	50	34	4.7	0.70	9.3	18	152
FT4	30	15	1.9	0.76	2.8	14	186
FT5,6	60	33	5.3	0.61	9.7	17	223
FC1	40	22	3.1	0.76	2.2	6.8	15
FC2	40	55	5.9	1.00	7.9	13	58
FC3	90	24	2.8	0.92	3.0	10	101
FC4	10	73	7.9	0.99	9.9	12	153
FC5	110	51	10.2	0.53	7.0	6.4	241

FT, treatment diaper; FC, control diaper.

Excessively high urine creatinine in the first diaper after treatment indicated 95 min of urinary holding before varnish application. Urine fluoride for this time-point was corrected (italics) by removing the amount of fluoride built up during this amount of time in the control day.

<sup>a</sup> Time corrected by urine creatinine.

<sup>b</sup> Estimated from urine fluoride using the previous study<sup>21</sup> as in Fig 1.