

Supplemental Information

Table S1. Student's Two-sample t-test for SA (mg/cm²) Categories for Beach Locations .

SA Category (mg/cm ²)	Beach Pair	N	Mean	Std. Dev	Std. Err	Equality of Variances		Pooled (Equal) DF:t Value <i>p</i> > t	Satterthwaite (Unequal) DF: t Value <i>p</i> > t	
						F	<i>p</i>			
Hand SA	1-2	25	58.8	58.6	11.7	3.3	0.0045	48	37	
		25	61.1	32.1	6.4			-0.2	-0.2	
	1-3	25	58.8	58.6	11.7	72.0	<0.0001	0.9	0.9	
		25	12.1	6.9	1.4			48	25	
	1-4	25	58.8	58.6	11.7	72.7	<0.0001	4.0	4.0	
		23	8.6	6.9	1.4			0.0002	0.0006	
	2-3	25	61.1	32.1	6.4	21.6	<0.0001	46	25	
		25	12.1	6.9	1.4			4.1	4.3	
	2-4	25	61.1	32.1	6.4	21.81	<0.0001	0.0002	0.0003	
		23	8.6	6.9	1.4			48	26.22	
	3-4	25	12.1	6.9	1.4	1.0	1.0	7.5	7.5	
		23	8.61	6.87	1.4			<.0001	<.0001	
	Full-Body SA	1-2	26	204.7	151.0	29.6	4.4	0.0003	46	48
			33	453.3	317.7	55.3			-3.7	-4.0
1-3		26	204.7	151.0	29.6	1.9	0.1	0.0005	0.0002	
		31	423.5	205.7	36.9			55	54	
1-4		26	204.7	151.0	29.6	1.8	0.1	-4.5	-4.6	
		29	293.7	204.5	38.0			<0.0001	<0.0001	
2-3		33	453.3	317.7	55.3	2.4	0.02	53	51	
		31	423.5	205.7	36.9			-1.8	-1.9	
2-4		33	453.3	317.7	55.3	2.4	0.02	0.1	0.1	
		29	293.7	204.5	38.0			62	55	
3-4		31	423.5	205.7	36.9	1.01	0.9797	0.4	0.5	
		29	293.7	204.5	38.0			0.7	0.7	
Adjusted-Body SA		1-2	22	1561.2	1050.5	224.0	32.02	<0.0001	60	55
			28	4051.8	5944.0	1123.3			2.3	2.4
	1-3	22	1561.2	1050.5	224.0	8.01	<0.0001	0.02	0.02	
		29	4133.8	2972.8	552.0			58	58	
	1-4	22	1561.2	1050.5	224.0	1.11	0.8	2.45	2.5	
		29	4133.8	2972.8	552.0			0.0173	0.0173	

							49	44
	29	1569.6	996.5	185.0			-0.03	-0.03
							1.0	1.0
	28	4051.8	5944.0	1123.3			55	39
2-3	29	4133.8	2972.8	552.0	4.00	0.0005	-0.07	-0.07
							1.0	1.0
	28	4051.8	5944.0	1123.3			55	28
2-4	29	1569.6	996.5	185.0	35.6	<0.0001	2.2	2.2
							0.0307	0.0377
	29	4133.8	2972.8	552.0			56	34
3-4	29	1569.6	996.5	185.0	8.9	<0.0001	4.4	4.4
							<0.0001	<0.0001

Age Groups: 1 (0–24 months), 2 (25–48 months) and 3 (>48 months).

Table S2. Tukey's Studentized Range (HSD) Test for Adjusted-Body SA (mg/cm²) Compared to Clothing Type of 1: bathing suit, 2: bathing suit, short, dress or shirt 3: short, dress or shirt, 4: short, shirt and shoes 5: short, 6: diaper, 7: full body clothing).

Clothing Type	Difference Between Means	Simultaneous 95% Confidence Limits		
5-3	4949	-58	10,481	
5-2	6315	819	11,811.5	***
5-4	6563	969	12,157.0	***
5-1	7380	1767	12,992.9	***
5-7	7872	-3673	19,416.9	
5-6	8309	-3236	19,853.8	
3-2	1366	-1373	4105.3	
3-4	1614	-1316	4544.1	
3-1	2431	-534	5397.0	
3-7	2923	-7593	13,438.6	
3-6	3360	-7156	13,875.5	
2-3	-1366	-4105	1373.2	
2-4	248	-2614	3109.9	
2-1	1065	-1833	3963.5	
2-7	1557	-8940	12,053.7	
2-6	1994	-8503	12,490.6	
4-1	817	-2262	3896.5	
4-7	1309	-9239	11,857.1	
4-6	1746	-8802	12,294.0	
1-7	492	-10,066	11,050.0	
1-6	929	-9629	11,486.9	
7-2	-1557	-12,053	8940.0	
7-6	437	-14,167	15,040.3	

Comparisons significant at the 0.05 level are indicated by ***.

Table S3. Clothing type vs. Full Body SA.

Clothing Type	Mean Full Body SA	N
5:short	593.9	4
1:bathing suit	373.0	22
2: bathing suit, short, dress or shirt	359.2	33
3: short, dress or shirt	339.3	30
6: diaper	332.7	1
4: short, shirt and shoes	318.9	28
7: full body clothing	48.2	1

Table S4. Clothing type vs. Adjusted Body SA.

Clothing Type	Mean Adjusted Body SA	N
5: short	8942.2	4
3: short, dress or shirt	3993.3	27
2: bathing suit, short, dress or shirt	2627.2	30
4: short, shirt and shoes	2379.2	23
1:bathing suit	1562.2	22
7: full body clothing	1070.3	1
6: diaper	633.4	1

Table S5. Clothing Type vs. Full Body SA By Sex.

Sex (F/M)	Clothing Type	N	Mean Full Body SA	N
F	1:bathing suit	21	381.64	21
	2: bathing suit, short, dress or shirt	19	313.24	19
	3: short, dress or shirt	9	245.28	9
	4: short, shirt and shoes	17	223.35	16
	6:diaper	1	332.70	1
	7: full body clothing	1	48.16	1
	1:bathing suit	1	191.55	1
M	2: bathing suit, short, dress or shirt	16	421.56	14
	3: short, dress or shirt	21	379.66	21
	4: short, shirt and shoes	12	446.36	12
	5:short	4	593.94	4

Table S6. Comparisons for Body-SA for the Children Wearing Shoes during Pool Rinses.

Shoes Worn into Pool	Variable	Mean	Std. Dev	Minimum	Maximum	N
No	Adjusted Body SA (mg/cm ²)	3020.8	4014.6	262.1	26,457.4	84
	Full Body SA (mg/cm ²)	345.0	240.1	19.0	1204.8	91
Yes	Adjusted Body SA (mg/cm ²)	2092.8	949.1	538.0	3551.8	18
	Full Body SA (mg/cm ²)	296.1	246.0	8.3	997.9	21