

## Supplemental Information

**Table S1.** Student's Two-sample t-test for SA (mg/cm<sup>2</sup>) Categories for Beach Locations

Var	Beach Pair	N	Mean	Std. Dev	Std. Err	Equality of Variances		Pooled (Equal) DF: t Value Pr >  t	Satterthwaite (Unequal) DF: t Value Pr >  t
						F	Pr		
Hand Sand Adherence	1-2	25	58.83	58.55	11.71	3.33	<b>0.0045</b>	48: -0.17	37: -0.17
		25	61.07	32.06	6.41			0.8678	0.8680
	1-3	25	58.83	58.55	11.71	72.03	<b>&lt;.0001</b>	48: 3.96	<b>25: 3.96</b>
		25	12.10	6.89	1.38			0.0002	<b>0.0006</b>
	1-4	25	58.83	58.55	11.71	72.71	<b>&lt;.0001</b>	46: 4.08	<b>25: 4.26</b>
		23	8.61	6.87	1.43			0.0002	<b>0.0003</b>
	2-3	25	61.07	32.06	6.41	21.60	<b>&lt;.0001</b>	48: 7.46	<b>26: 7.46</b>
		25	12.10	6.90	1.38			<.0001	<b>&lt;.0001</b>
	2-4	25	61.07	32.06	6.41	21.81	<b>&lt;.0001</b>	46: 7.68	<b>26: 7.98</b>
		23	8.61	6.87	1.43			<.0001	<b>&lt;.0001</b>
	3-4	25	12.10	6.90	1.38	1.01	0.9870	46: 1.76	46: 1.76
		23	8.61	6.87	1.43			0.0855	0.0855
Full Body Sand Adherence	1-2	26	3.94	2.90	0.57	0.23	0.0003	<b>57: -3.67</b>	<b>48: -3.94</b>
		33	8.72	6.10	1.06			<b>0.0005</b>	<b>0.0025</b>
	1-3	26	3.94	2.90	0.57	0.54	0.1184	<b>54: -4.50</b>	<b>54: -4.62</b>
		31	8.14	3.95	0.71			<b>&lt;.0001</b>	<b>&lt;.0001</b>
	1-4	26	3.94	2.90	0.57	0.55	0.1290	53: -1.82	51: -1.85
		29	5.64	3.93	0.73			0.0748	0.0705
	2-3	33	8.72	6.10	1.06	2.39	0.0187	62: 0.44	55: 0.45
		31	8.14	3.95	0.71			0.6598	0.6559
	2-4	33	8.72	6.10	1.06	2.41	0.0203	<b>60: 2.32</b>	<b>55: 2.38</b>
		29	5.65	3.93	0.73			<b>0.0240</b>	<b>0.0208</b>
	3-4	31	8.14	3.95	0.71	1.01	0.9798	<b>58: 2.45</b>	<b>58: 2.45</b>
		29	5.65	3.93	0.73			<b>0.0173</b>	<b>0.0173</b>
Adjusted Body Sand Adherence	1-2	22	40.14	47.73	6.81	0.21	<b>&lt;.0001</b>	49: -0.78	41: -0.85
		28	58.92	105.10	10.25			0.4402	0.3984
	1-3	22	40.14			1.90	0.1178	<b>49: -3.26</b>	<b>36: -3.64</b>
		29	141.37	139.23	11.80			<b>0.0020</b>	<b>0.0008</b>
	1-4	22	40.14	34.66	5.89	1.11	0.783	48: -0.81	37: -0.78
		29	30.67	34.66	5.89			0.4205	0.4205
	2-3	28	58.92	105.10	10.25	0.57	0.1428	<b>56: -2.54</b>	<b>52: -2.54</b>
		29	141.37	139.23	11.80			<b>0.0140</b>	<b>0.0139</b>
	2-4	28	58.92	105.10	10.25	<b>9.20</b>	<b>&lt;.0001</b>	55: 1.35	43: 1.37
		29	30.67	34.66	5.89			0.1817	0.1789
	3-4	29	141.37	139.23	11.80	16.14	<b>&lt;.0001</b>	<b>55: 4.09</b>	<b>32: 4.15</b>
		29	30.67	34.66	5.89			<b>0.0001</b>	<b>0.0002</b>

1: Crandon, 2: Haulover, 3: Seawall, 4: Stewart. Bold indicates significance

**Table S2.** Tukey's Studentized Range (HSD) Test for Adjusted-Body SA (mg/cm<sup>2</sup>) Compared to Clothing Type

Comparisons significant at the 0.05 level are indicated by *.				
Clothing on pictures	Difference Between Means	Simultaneous 95% Confidence Limits		
3 - 1	61.68	-25.07	148.42	
3 - 5	77.20	-60.95	215.35	
3 - 4	93.80	13.72	173.88	*
3 - 2	102.13	28.42	175.83	*
3 - 7	113.28	-175.02	401.57	
1 - 3	-61.68	-148.42	25.07	
1 - 5	15.52	-127.49	158.54	
1 - 4	32.12	-56.09	120.33	
1 - 2	40.45	-42.02	122.91	
1 - 7	51.60	-239.06	342.26	
5 - 3	-77.20	-215.35	60.95	
5 - 1	-15.52	-158.54	127.49	
5 - 4	16.60	-122.48	155.67	
5 - 2	24.92	-110.58	160.43	
5 - 7	36.08	-273.83	345.98	
4 - 3	-93.80	-173.88	-13.72	*
4 - 1	-32.12	-120.33	56.09	
4 - 5	-16.60	-155.67	122.48	
4 - 2	8.33	-67.10	83.75	
4 - 7	19.48	-269.26	308.22	
2 - 3	-102.13	-175.83	-28.42	*
2 - 1	-40.45	-122.91	42.02	
2 - 5	-24.92	-160.43	110.58	
2 - 4	-8.33	-83.75	67.10	
2 - 7	11.15	-275.88	298.19	
7 - 3	-113.28	-401.57	175.02	
7 - 1	-51.60	-342.26	239.06	
7 - 5	-36.08	-345.98	273.83	
7 - 4	-19.48	-308.22	269.26	
7 - 2	-11.15	-298.19	275.88	

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).

**Table S3. Clothing type vs. Full Body SA.**

Clothing Type	N	Mean Full Body-SA (mg/cm <sup>2</sup> )
1	22	7.17
2	33	6.91
3	30	6.52
4	28	6.13
5	4	11.42
6	1	6.40
7	1	0.93

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).

**Table S4. Clothing type vs. Adjusted-Body SA.**

Clothing Type	N	Mean Adjusted Body SA (mg/cm <sup>2</sup> )
1	21	36.17
2	29	67.59
3	27	109.46
4	25	41.24
5	4	196.23
6	1	12.92
7	1	46.30

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).

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

Sex	Clothing Type	N	Mean Full Body SA (mg/cm <sup>2</sup> )
Male	1	13	10.10
	2	8	7.32
	3	22	7.30
	4	6	7.10
	5	3	8.89
Female	1	20	9.40
	2	35	5.01
	3	30	6.81
	4	27	6.30
	5	6	10.41
	7	1	5.78

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

<b>Shoes Worn into Pool</b>	<b>Variable</b>	<b>Mean</b>	<b>Std. Dev</b>	<b>Minimum</b>	<b>Maximum</b>	<b>N</b>
<b>No</b>	<b>Adjusted Body SA (mg/cm<sup>2</sup>)</b>	78.55	114.26	4.62	572.28	83
	<b>Full Body SA (mg/cm<sup>2</sup>)</b>	7.02	4.84	0.36	23.17	93
<b>Yes</b>	<b>Adjusted Body SA (mg/cm<sup>2</sup>)</b>	41.24	45.36	1.99	188.00	25
	<b>Full Body SA (mg/cm<sup>2</sup>)</b>	5.90	4.71	0.16	18.18	26