

## SUPPLEMENTAL DIGITAL CONTENT 3

**Table S3-A: Associations of any leisure-time walking with urban form characteristics, psychosocial factors and their interaction (n=736)<sup>a,b,c</sup>.**

	Attitude (AT)			Self-Efficacy (SE)			Social Influence (SI)			Intention (INT)		
		OR	95%CI		OR	95%CI		OR	95%CI		OR	95%CI
<b>Accessibility (L1)</b>	L1	1.05	0.88-1.25	L1	1.05	0.88-1.24	L1	1.04	0.87-1.24	L1	1.05	0.88-1.25
	AT	1.14	0.97-1.33	SE	<b>1.22</b>	<b>1.03-1.45</b>	SI	1.17	1.00-1.36	INT	<b>1.31</b>	<b>1.11-1.54</b>
	L1 * AT	1.00	0.85-1.17	L1 * SE	0.98	0.84-1.14	L1 * SI	1.11	0.95-1.28	L1 * INT	0.97	0.83-1.14
<b>Safety (L2)</b>	L2	0.93	0.78-1.10	L2	0.94	0.79-1.11	L2	0.92	0.78-1.09	L2	0.92	0.77-1.08
	AT	1.14	0.97-1.34	SE	<b>1.23</b>	<b>1.04-1.46</b>	SI	1.17	1.00-1.36	INT	<b>1.32</b>	<b>1.13-1.55</b>
	L2 * AT	1.13	0.97-1.33	L2 * SE	1.05	0.89-1.24	L2 * SI	1.05	0.91-1.23	L2 * INT	1.14	0.96-1.35
<b>Comfort (L3)</b>	L3	1.02	0.86-1.21	L3	1.01	0.85-1.20	L3	1.03	0.86-1.23	L3	1.02	0.85-1.21
	AT	1.13	0.96-1.33	SE	<b>1.23</b>	<b>1.04-1.46</b>	SI	1.16	0.99-1.36	INT	<b>1.32</b>	<b>1.12-1.56</b>
	L3 * AT	0.98	0.84-1.14	L3 * SE	1.03	0.88-1.20	L3 * SI	1.06	0.90-1.24	L3 * INT	1.07	0.91-1.24
<b>Pleasurability (L4)</b>	L4	0.98	0.82-1.17	L4	0.99	0.83-1.18	L4	0.97	0.81-1.16	L4	0.97	0.82-1.16
	AT	1.14	0.97-1.33	SE	<b>1.23</b>	<b>1.04-1.46</b>	SI	1.16	0.99-1.36	INT	<b>1.31</b>	<b>1.12-1.54</b>
	L4 * AT	1.13	0.96-1.32	L4 * SE	1.00	0.85-1.17	L4 * SI	1.08	0.93-1.26	L4 * INT	1.01	0.85-1.20
<b>Hierarchy score (H0-H4)</b>	H4	1.00		H4	1.00		H4	1.00		H4	1.00	
	H3	0.58	0.29-1.19	H3	0.66	0.33-1.30	H3	0.68	0.34-1.35	H3	0.68	0.34-1.37
	H2	0.79	0.49-1.28	H2	0.79	0.49-1.28	H2	0.79	0.49-1.27	H2	0.82	0.51-1.33
	H1	1.19	0.73-1.92	H1	1.15	0.71-1.87	H1	1.20	0.74-1.94	H1	1.19	0.73-1.92
	H0	1.06	0.71-1.58	H0	1.05	0.70-1.56	H0	1.10	0.74-1.64	H0	1.06	0.71-1.57
	AT	1.23	0.93-1.62	SE	1.22	0.91-1.64	SI	<b>1.36</b>	<b>1.03-1.79</b>	INT	1.30	0.98-1.72
	H4 * AT	1.00	( <i>p</i> =0.1507) <sup>d</sup>	H4 * SE	1.00	( <i>p</i> =0.9842) <sup>d</sup>	H4 * SI	1.00	( <i>p</i> =0.3984) <sup>d</sup>	H4 * INT	1.00	( <i>p</i> =1.000) <sup>d</sup>
	H3 * AT	0.52	0.24-1.12	H3 * SE	1.05	0.52-2.14	H3 * SI	0.75	0.36-1.57	H3 * INT	1.01	0.49-2.10
	H2 * AT	1.01	0.63-1.62	H2 * SE	1.07	0.67-1.73	H2 * SI	0.62	0.38-1.01	H2 * INT	1.01	0.63-1.63
	H1 * AT	0.65	0.39-1.06	H1 * SE	0.91	0.55-1.51	H1 * SI	0.82	0.50-1.34	H1 * INT	1.00	0.59-1.72
	H0 * AT	1.04	0.70-1.54	H0 * SE	1.02	0.69-1.50	H0 * SI	0.89	0.60-1.30	H0 * INT	1.01	0.69-1.48

a. All multilevel models are adjusted for feasibility (being able to walk for at least 400m), age, gender, educational level, and ethnicity.

b. Bold printed results are significant ( $p < 0.05$ )

c. All individual psychosocial factors and urban form characteristics were standardized for ease of interpretation (mean=0, standard deviation=1).

d. p-value resulting from the likelihood-ratio test of the model without the interaction nested in the model with the interaction.

Note: We want to acknowledge Ding et al (2012) for the idea of how to present many interaction results compactly into one table.

**Table S3-B: Associations of sufficient leisure-time walking\* with urban form characteristics, psychosocial factors and their interaction (n=736)<sup>a,b,c</sup>**

	Attitude (AT)			Self-Efficacy (SE)			Social Influence (SI)			Intention (INT)		
		OR	95%CI		OR	95%CI		OR	95%CI		OR	95%CI
<b>Accessibility (L1)</b>	L1	1.08	0.81-1.43	L1	1.01	0.77-1.33	L1	0.98	0.75-1.28	L1	0.99	0.76-1.28
	AT	<b>1.38</b>	<b>1.14-1.68</b>	SE	<b>1.65</b>	<b>1.32-2.08</b>	SI	<b>1.26</b>	<b>1.04-1.53</b>	INT	<b>1.50</b>	<b>1.21-1.85</b>
	L1 * AT	0.84	0.69-1.02	L1 * SE	0.99	0.80-1.21	L1 * SI	<b>1.20</b>	<b>1.00-1.43</b>	L1 * INT	1.08	0.89-1.32
<b>Safety (L2)</b>	L2	1.13	0.86-1.49	L2	1.13	0.86-1.49	L2	1.06	0.81-1.40	L2	1.08	0.83-1.41
	AT	<b>1.38</b>	<b>1.14-1.68</b>	SE	<b>1.66</b>	<b>1.32-2.08</b>	SI	<b>1.24</b>	<b>1.02-1.50</b>	INT	<b>1.47</b>	<b>1.20-1.81</b>
	L2 * AT	0.83	0.69-1.00	L2 * SE	0.94	0.75-1.17	L2 * SI	1.07	0.89-1.30	L2 * INT	0.94	0.76-1.16
<b>Comfort (L3)</b>	L3	1.11	0.86-1.43	L3	1.07	0.83-1.38	L3	1.10	0.85-1.41	L3	1.09	0.85-1.39
	AT	<b>1.37</b>	<b>1.13-1.66</b>	SE	<b>1.65</b>	<b>1.31-2.07</b>	SI	<b>1.24</b>	<b>1.02-1.50</b>	INT	<b>1.47</b>	<b>1.19-1.81</b>
	L3 * AT	<b>0.81</b>	<b>0.66-0.99</b>	L3 * SE	0.99	0.80-1.21	L3 * SI	1.08	0.88-1.32	L3 * INT	0.93	0.75-1.15
<b>Pleasurability (L4)</b>	L4	1.02	0.78-1.34	L4	1.07	0.82-1.40	L4	1.01	0.78-1.30	L4	1.02	0.79-1.31
	AT	<b>1.39</b>	<b>1.14-1.69</b>	SE	<b>1.65</b>	<b>1.32-2.07</b>	SI	<b>1.24</b>	<b>1.02-1.51</b>	INT	<b>1.48</b>	<b>1.20-1.82</b>
	L4 * AT	0.85	0.70-1.02	L4 * SE	0.87	0.70-1.08	L4 * SI	1.01	0.84-1.22	L4 * INT	0.96	0.77-1.19
<b>Hierarchy score (H0-H4)</b>	H4	1.00		H4	1.00		H4	1.00		H4	1.00	
	H3	1.04	0.45-2.39	H3	0.52	0.14-1.86	H3	0.91	0.36-2.31	H3	1.04	0.45-2.43
	H2	<b>0.48</b>	<b>0.24-0.97</b>	H2	0.48	0.24-1.00	H2	0.65	0.34-1.23	H2	0.57	0.28-1.13
	H1	0.57	0.30-1.08	H1	0.55	0.28-1.07	H1	0.65	0.34-1.22	H1	0.54	0.27-1.08
	H0	1.27	0.81-1.98	H0	1.28	0.81-2.01	H0	1.48	0.93-2.35	H0	1.38	0.87-2.17
	AT	1.09	0.80-1.49	SE	1.41	0.98-2.03	SI	<b>1.59</b>	<b>1.11-2.29</b>	INT	<b>1.47</b>	<b>1.01-2.13</b>
	H4 * AT	1.00	( <i>p=0.2688</i> ) <sup>d</sup>	H4 * SE	1.00	( <i>p=0.0609</i> ) <sup>d</sup>	H4 * SI	1.00	( <i>p=0.2113</i> ) <sup>d</sup>	H4 * INT	1.00	( <i>p=0.1341</i> ) <sup>d</sup>
	H3 * AT	1.39	0.56-3.45	H3 * SE	<b>5.25</b>	<b>1.13-24.48</b>	H3 * SI	1.52	0.51-4.48	H3 * INT	1.32	0.49-3.58
	H2 * AT	<b>2.05</b>	<b>1.06-3.97</b>	H2 * SE	1.81	0.82-4.01	H2 * SI	0.64	0.33-1.22	H2 * INT	1.61	0.72-3.58
	H1 * AT	1.24	0.65-2.35	H1 * SE	1.08	0.52-2.23	H1 * SI	0.64	0.33-1.23	H1 * INT	1.67	0.74-3.78
	H0 * AT	1.31	0.85-2.02	H0 * SE	1.05	0.65-1.68	H0 * SI	0.67	0.42-1.06	H0 * INT	0.79	0.50-1.25

\*. Sufficient =five or more days a week with at least 30 minutes of physical activity a day.

a. All multilevel models are adjusted for feasibility (being able to walk for at least 400m), age, gender, educational level, and ethnicity.

b. Bold printed results are significant (p<0.05)

c. All individual psychosocial factors and urban form characteristics were standardized for ease of interpretation (mean=0, standard deviation=1).

d. p-value resulting from the likelihood-ratio test of the model without the interaction nested in the model with the interaction.

Note: We want to acknowledge Ding et al (2012) for the idea of how to present many interaction results compactly into one table.

**Reference:**

Ding D, Sallis JF, Conway TL, Saelens BE, Frank LD, Cain KL, and Slymen DJ. Interactive effects of built environment and psychosocial attributes on physical activity: a test of ecological models. *Ann. Behav. Med.* 2012;44(3):365-74.