## Appendix

In this appendix we present the complete estimation results for the models relating different definitions of access to physical activity (in Table 1) and to obesity (in Table 2). In each case we also present a base model with no accessibility statistics for comparison.

Table 1: Estimated Effect of Accessibility on Physical Activity Rates

Table 1:	Table 1: Estimated Effect of Accessibility on Physical Activity Rates					
·	No Access	Size and Distance	Amenities	10-minute Walk		
(Intercept)	-24.5190*	-24.8266*	-24.8920*	-24.7176*		
(	[-41.5947; -7.4433]	[-41.7445; -7.9087]	[-41.8372; -7.9468]	[-41.7891; -7.6461		
log(Density)	0.1740*	0.1766*	0.1757*	0.1686*		
log(Income)	[0.0348; 0.3132]	[0.0375; 0.3156]	[0.0366; 0.3148]	[0.0293; 0.3079]		
	5.9786*	5.9976*	5.9964*	$5.9767^*$		
Fulltime	[5.5540; 6.4032]	[5.5737; 6.4215]	[5.5723; 6.4205]	[5.5523; 6.4011]		
	0.1283*	0.1275*	0.1275*	0.1285*		
C 11 1 1 1	[0.1098; 0.1468]	[0.1090; 0.1460]	[0.1090; 0.1460]	[0.1100; 0.1470]		
College-educated	0.0075	0.0076	0.0073	0.0083		
Cinala Adulta	[-0.0159; 0.0310] -0.0363*	[-0.0158; 0.0309] -0.0362*	[-0.0161; 0.0306] -0.0360*	[-0.0152; 0.0317] -0.0366*		
Single Adults	-0.0503 [-0.0527; -0.0198]	[-0.0526; -0.0198]	[-0.0524; -0.0196]	[-0.0530; -0.0201		
Youth (0-17)	-0.1306*	-0.1311*	[-0.0524, -0.0190] $-0.1310^*$	-0.1311*		
	[-0.1572; -0.1040]	[-0.1576; -0.1046]	[-0.1576; -0.1045]	[-0.1577; -0.1045		
Young adults (18-34)	0.0283*	0.0293*	0.0294*	0.0281*		
	[0.0081; 0.0484]	[0.0092; 0.0495]	[0.0092; 0.0495]	[0.0079; 0.0482]		
Seniors (65+)	0.0430*	0.0403*	0.0408*	0.0427*		
(22,7)	[0.0157; 0.0704]	[0.0130; 0.0677]	[0.0135; 0.0682]	[0.0153; 0.0700]		
Black population share	$-0.0499^*$	$-0.0499^*$	-0.0498*	$-0.0497^*$		
	[-0.0587; -0.0412]	[-0.0586; -0.0412]	[-0.0585; -0.0411]	[-0.0584; -0.0409]		
Asian population share	-0.0772*	-0.0767*	-0.0768*	-0.0774*		
Hispanic population shar	[-0.0877; -0.0666]	[-0.0873; -0.0662]	[-0.0874; -0.0663]	[-0.0879; -0.0669]		
		-0.1025*	-0.1025*	-0.1020*		
Other Minorities $\gamma$ : log(Density)	[-0.1112; -0.0929]	[-0.1116; -0.0934]	[-0.1116; -0.0934]	[-0.1111; -0.0928		
	0.0006	0.0035	0.0037	-0.0005		
	[-0.0882; 0.0894] 1.1105*	[-0.0851; 0.0921] $1.0987^*$	[-0.0850; 0.0923] 1.1030*	[-0.0893; 0.0883] 1.0928*		
	[0.7245; 1.4964]	[0.7156; 1.4817]	[0.7196; 1.4865]	[0.7063; 1.4793]		
$\gamma$ : log(Income)	1.9269*	1.9646*	1.9570*	1.9189*		
	[0.8913; 2.9625]	[0.9370; 2.9922]	[0.9282; 2.9857]	[0.8836; 2.9541]		
γ: Fulltime	-0.0360	-0.0396	-0.0388	-0.0363		
,	[-0.0835; 0.0115]	[-0.0869; 0.0076]	[-0.0861; 0.0085]	[-0.0837; 0.0112]		
γ: College-educated	-0.0707*	-0.0711*	$-0.0721^*$	-0.0731*		
	[-0.1307; -0.0107]	[-0.1306; -0.0116]	[-0.1317; -0.0125]	[-0.1332; -0.0131		
γ: Single Adults	-0.0081	-0.0085	-0.0077	-0.0076		
γ: Youth (0-17)	[-0.0506; 0.0344]	[-0.0507; 0.0336]	[-0.0499; 0.0345]	[-0.0501; 0.0348]		
	-0.0111	-0.0111	-0.0101	-0.0120		
$\gamma$ : Young adults (18-34	[-0.0806; 0.0585]	[-0.0802; 0.0579]	[-0.0793; 0.0591]	[-0.0815; 0.0575]		
	•	0.0842*	0.0848*	0.0801*		
	[0.0296; 0.1317]	[0.0335; 0.1349]	[0.0339; 0.1356]	[0.0291; 0.1311]		
$\gamma$ : Seniors (65+)	$ \begin{array}{c} 0.0625 \\ [-0.0071; 0.1322] \end{array} $	0.0589 [-0.0103; 0.1282]	0.0603 [ $-0.0090; 0.1296$ ]	0.0623 [-0.0073; 0.1319]		
$\gamma$ : Black population sha $\gamma$ : Asian population sha		0.0011	0.0008	0.0006		
	[-0.0157; 0.0168]	[-0.0151; 0.0172]	[-0.0153; 0.0170]	[-0.0157; 0.0168]		
		-0.0398*	-0.0401*	-0.0409*		
	[-0.0597; -0.0223]	[-0.0584; -0.0212]	[-0.0587; -0.0215]	[-0.0596; -0.0222		
$\gamma$ : Hispanic population s	. , ,	-0.0009	-0.0008	0.0008		
	[-0.0164; 0.0182]	[-0.0181; 0.0163]	[-0.0181; 0.0164]	[-0.0165; 0.0181]		
γ: Other Minorities	0.0656	0.0715	0.0710	0.0716		
Accessibility	[-0.1926; 0.3239]	[-0.1856; 0.3287]	[-0.1863; 0.3284]	[-0.1866; 0.3299]		
		$0.1610^*$	$0.1472^*$	0.5865		
-		[0.0238; 0.2982]	[0.0058; 0.2886]	[-0.1778; 1.3508]		
$\lambda$ : spatial correlation	0.6985*	0.6906*	0.6917*	0.6987*		
	[0.6600; 0.7370]	[0.6514; 0.7297]	[0.6526; 0.7307]	[0.6602; 0.7372]		
Num. obs.	2099	2099	2099	2099		
D	27	28	28	28		
Parameters	-4438.0569	-4435.5066	-4436.0465			

 $<sup>^{\</sup>ast}$  0 outside the confidence interval. 95% confidence interval in brackets.

Table 2: Estimated Effect of Accessibility on Obesity Rates

	Table 2:	Estimated Effect	t of Accessibilit	y on Obesity R	lates
		No Access	Size and Distance	Amenities	10-minute Walk
og(Density)	(Intercept)	71.6539*	71.7489*	71.7525*	71.7182*
-0.1037; 0.0448   -0.1090; 0.0436   -0.1049c; 0.0437   -0.40907   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.4908   -0.0137   -0.0031   -0.0032   -0.005	. (5				
-0.4849	log(Density)				
Entitime	log(Income)				
-0.0244; -0.0031   -0.0244; -0.0030   -0.0244; -0.0030   -0.0246; -0.0032   0.0343"   0.0343"   0.0343"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0340"   0.0010   0.0010   0.0010   0.0010   0.0010   0.0010   0.0010   0.0010   0.0010   0.0010   0.0052   0.0053   0.0053   0.00052   0.0053   0.00052   0.00054   0.0055   0.00052   0.00054   0.0055   0.00052   0.00054   0.0055   0.00052   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00054   0.0055   0.00055   0.00054   0.0055   0.00055   0.00054   0.0055   0.00	ios(income)				
College-educated	Fulltime	$-0.0137^*$	$-0.0137^*$	$-0.0137^*$	-0.0139*
	G.11				[-0.0246; -0.0032]
Single Adults	College-educated				
Country   Coun	Single Adults				
Young adults (18-34)					
Noung adults (18-34)	Youth (0-17)				
Country   Coun	37 1.1. (10.04)				
Seniors $(65+)$ $-0.0826^*$ $-0.0821^*$ $-0.0821^*$ $-0.0825^*$ $-0.0825^*$ $-0.0973; -0.0669]$ $[-0.0973; -0.0667]$ $[-0.0976; -0.0673]$ $[-0.0976; -0.0673]$ $[-0.0462^*]$ $[0.0444; 0.0511]$ $[0.0414; 0.0511]$ $[0.0414; 0.0511]$ $[0.0414; 0.0511]$ $[0.0414; 0.0511]$ $[0.0414; 0.0511]$ $[-0.1010^*]$ $-0.1010^*$ $-0.1010^*$ $-0.1010^*$ $-0.0061^*$ $[-0.0939; -0.0930]$ $[-0.1075; -0.0951]$ $[-0.1076; -0.0951]$ $[-0.1069; -0.0930]$ $[-0.0116; -0.0006]$ $[-0.0113; -0.016]$ $[-0.0183; -0.016]$ $[-0.0893; -0.010]$ $[-0.0893; -0.0320]$ $[-0.0783; -0.083]$ $[-0.0803; -0.0100]$ $[-0.0809; -0.0301; -0.0118]$ $[-0.0402; 0.0171]$ $[-0.0402; 0.0402;$ $[-0.0402; 0.0402;$ $[-0.0402; 0.0402;$ $[-0.0402; 0.0402;$ $[-0.0402; 0.0$	Young adults (18-34)				
Black population share	Seniors (65±)				
County   C					[-0.0976; -0.0673]
Asian population share    -0.1010*   -0.1010*   -0.1010*   -0.1010*   -0.1009*   -0.1009*   -0.1008*   -0.0061*   -0.0061*   -0.0062*   -0.0062*   -0.0066*   -0.0061*   -0.0062*   -0.0062*   -0.0062*   -0.0066*   -0.0061*   -0.0062*   -0.0062*   -0.0062*   -0.0062*   -0.0064*   -0.0067*   -0.00863   -0.0098*   -0.0098*   -0.0098*   -0.0098*   -0.0098*   -0.0098*   -0.0099*   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00116   -0.00117   -0.0033*   -0.0032	Black population share				
College-educated   College-ed	A . 1				
Hispanic population share	Asian population share				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hispanic population share	. / 1			
Other Minorities	mspaine population share				
	Other Minorities		. , ,		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		[-0.1127; -0.0156]	[-0.1132; -0.0161]	[-0.1133; -0.0162]	[-0.1122; -0.0151]
	$\gamma$ : log(Density)				
$ [-0.7966; 0.6240]  [-0.8108; 0.6100]  [-0.8091; 0.6118]  [-0.7883; 0.6317] \\ -0.0118  -0.0115  -0.0116  -0.0116  -0.0116 \\ -0.0404; 0.0169]  [-0.0402; 0.0172]  [-0.0402; 0.0171]  [-0.0402; 0.0171] \\ [0.0368; 0.0698*  0.0698*  0.0699*  0.0710* \\ [0.0334; 0.1062]  [0.0334; 0.1062]  [0.0335; 0.1063]  [0.0346; 0.1075] \\ [-0.0368; 0.0140]  [-0.0367; 0.0104]  [-0.0368; 0.0140]  [-0.0371; 0.0137] \\ [-0.0368; 0.0140]  [-0.0367; 0.0104]  [-0.0368; 0.0140]  [-0.0371; 0.0137] \\ [-0.0330]  -0.0330  -0.0332  -0.0332  -0.0326 \\ [-0.0748; 0.0088]  [-0.0748; 0.0088]  [-0.0750; 0.0086]  [-0.0744; 0.0092] \\ [-0.0548; 0.0069]  [-0.0554; 0.0069]  [-0.0555; 0.0059]  [-0.0542; 0.0071] \\ [-0.0525; 0.0059]  [-0.0524; 0.006]  [-0.0555; 0.0059]  [-0.0542; 0.0071] \\ [-0.0628; 0.0185]  [-0.0624; 0.0190]  [-0.0625; 0.0189]  [-0.0628; 0.0185] \\ [-0.0808; 0.0292]  [-0.0624; 0.0190]  [-0.0628; 0.0189]  [-0.0628; 0.0185] \\ [-0.0549; -0.0325]  [-0.0624; 0.0190]  [-0.0680; 0.0292]  [0.0079; 0.0291] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0595; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0595; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0595; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0595; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0595; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0325]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0326]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; -0.0326]  [-0.0596; -0.0327]  [-0.0596; -0.0327]  [-0.0596; -0.0327] \\ [-0.0594; $	au log(Incomo)				
$\begin{array}{c} \text{Y: Fulltime} & -0.0118 & -0.0115 & -0.0116 & -0.0116 \\ -0.0404; 0.0169] & [-0.0402; 0.0172] & [-0.0402; 0.0171] & [-0.0402; 0.0171] \\ \text{Y: College-educated} & 0.0698* & 0.0698* & 0.0699* & 0.0710* \\ & [0.0334; 0.1062] & [0.0334; 0.1062] & [0.0335; 0.1063] & [0.0346; 0.1075] \\ \text{Y: Single Adults} & -0.0114 & -0.0113 & -0.0114 & -0.0117 \\ & [-0.0368; 0.0140] & [-0.0367; 0.0140] & [-0.0368; 0.0140] & [-0.0371; 0.0137] \\ \text{Y: Youth } (0-17) & -0.0330 & -0.0330 & -0.0332 & -0.0326 \\ & [-0.0748; 0.0088] & [-0.0748; 0.0088] & [-0.0750; 0.0086] & [-0.0744; 0.0092] \\ \text{Y: Young adults } (18-34) & -0.0238 & -0.0247 & -0.0248 & -0.0235 \\ & [-0.0545; 0.0069] & [-0.0554; 0.0060] & [-0.0555; 0.0059] & [-0.0542; 0.0071] \\ \text{Y: Seniors } (65+) & -0.0222 & -0.0217 & -0.0218 & -0.0222 \\ \text{Y: Polymous adults } (18-34) & [-0.0629; 0.0185] & [-0.0624; 0.019] & [-0.0625; 0.0189] & [-0.0628; 0.0185] \\ \text{Y: Black population share} & 0.0186* & 0.0186* & 0.0186* & 0.0185* \\ [0.0080; 0.0292] & [0.0080; 0.0292] & [0.0080; 0.0292] & [0.0079; 0.0291] \\ \text{Y: Asian population share} & -0.0460* & -0.0462* & -0.0461* & -0.0461* \\ \text{Y: Hispanic population share} & -0.0460* & -0.0462* & -0.0461* & -0.0461* \\ \text{Y: Other Minorities} & 0.0794 & 0.0263* & 0.0263* & 0.0258* \\ [0.0129; 0.0386] & [0.0134; 0.0392] & [0.0134; 0.0391] & [0.0130; 0.0386] \\ \text{Y: Other Minorities} & 0.0794 & 0.0789 & 0.0790 & 0.0767 \\ \text{Physical Activity} & -0.4807* & -0.4803* & -0.4803* & -0.4803* \\ \text{Y: Physical Activity} & 0.0180 & 0.0195 & 0.0194 & 0.0173 \\ \text{Po.05048}; 0.02562] & [-0.0327] & [-0.0338; 0.0772] & [-0.044; 0.0750] \\ \text{Accessibility} & -0.0397; 0.0757] & [-0.0338; 0.0772] & [-0.044; 0.0750] \\ \text{Accessibility} & -0.0399; 0.0797] & [-0.0388; 0.0772] & [-0.049; 0.0750] \\ \text{Accessibility} & -0.0399; 0.0797] & [-0.0398; 0.8622] & [0.8099; 0.8624] \\ \text{Num. obs.} & 2099 & 2099 & 2099 & 2099 \\ \text{Parameters} & 29 & 30 & 30 & 30 & 30 \\ \end{array}$	7. log(mcome)				
$\begin{array}{c} \text{Y: College-educated} \\ \text{(0.0698*)} \\ \text{(0.0334; 0.1062)} \\ \text{(0.0335; 0.1063)} \\ \text{(0.0308; 0.0140)} \\ \text{(0.0368; 0.0140)} \\ \text{(0.0368; 0.0140)} \\ \text{(0.0368; 0.0140)} \\ \text{(0.0368; 0.0140)} \\ \text{(0.0330)} \\ \text{(0.0330)} \\ \text{(0.03330)} \\ \text{(0.03330)} \\ \text{(0.03330)} \\ \text{(0.03332)} \\ \text{(0.0088)} \\ \text{(0.0247)} \\ \text{(0.0248)} \\ \text{(0.0247)} \\ \text{(0.0248)} \\ \text{(0.0255; 0.0059)} \\ \text{(0.0555; 0.0059)} \\ \text{(0.0555; 0.0059)} \\ \text{(0.0542; 0.0071)} \\ \text{(0.0222)} \\ \text{(0.00217)} \\ \text{(0.00217)} \\ \text{(0.00217)} \\ \text{(0.0080; 0.0292)} \\ (0.0080; 0.0292)$	γ: Fulltime	. , ,		. , ,	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		. , ,		. , ,	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\gamma$ : College-educated				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cimalo Adulto				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7. Single Adults				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	γ: Youth (0-17)				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		[-0.0748; 0.0088]	[-0.0748; 0.0088]	[-0.0750; 0.0086]	[-0.0744; 0.0092]
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\gamma$ : Young adults (18-34)				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- Coming (CT   )				
$\begin{array}{c} \text{Y: Black population share} \\ \text{Y: Asian population share} \\ \text{Y: Hispanic population share} \\ \text{Y: Other Minorities} \\ Y: Othe$	γ: Semors (65+)				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	γ: Black population share				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	, 1 1				
$\begin{array}{c} \text{Y: Hispanic population share} \\ \text{Y: Other Minorities} \\ \text{Y: Other Minorities} \\ \text{Y: Other Minorities} \\ \text{Physical Activity} \\ \text{Polysical Activity} \\ Polysical Act$	$\gamma$ : Asian population share				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	. III:	. , ,			
$\begin{array}{c} \text{Y: Other Minorities} & 0.0794 & 0.0789 & 0.0790 & 0.0767 \\ & [-0.0648; 0.2236] & [-0.0652; 0.2230] & [-0.0652; 0.2231] & [-0.0674; 0.2209] \\ \text{Physical Activity} & -0.4807^* & -0.4803^* & -0.4803^* & -0.4803^* \\ & [-0.5048; -0.4566] & [-0.5044; -0.4561] & [-0.5044; -0.4562] & [-0.5044; -0.4562] \\ \text{Y: Physical Activity} & 0.0180 & 0.0195 & 0.0194 & 0.0173 \\ & [-0.0397; 0.0757] & [-0.0383; 0.0772] & [-0.0383; 0.0772] & [-0.0404; 0.0750] \\ \text{Accessibility} & -0.0349 & -0.0352 & -0.2630 \\ & [-0.1095; 0.0397] & [-0.1129; 0.0425] & [-0.6491; 0.1232] \\ \text{A: spatial correlation} & 0.8363^* & 0.8357^* & 0.8360^* & 0.8361^* \\ & [0.8101; 0.8625] & [0.8094; 0.8620] & [0.8098; 0.8622] & [0.8099; 0.8624] \\ \text{Num. obs.} & 2099 & 2099 & 2099 & 2099 \\ \text{Parameters} & 29 & 30 & 30 & 30 & 30 \\ \end{array}$	$\gamma$ : Hispanic population share				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	γ: Other Minorities				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	,				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Physical Activity	$-0.4807^*$	$-0.4803^*$	$-0.4803^*$	$-0.4803^*$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T1 + 1 + · · ·				
Accessibility $-0.0349 -0.0352 -0.2630$ $[-0.1095; 0.0397] [-0.1129; 0.0425] [-0.6491; 0.1232]$ A: spatial correlation $0.8363^* 0.8357^* 0.8360^* 0.8361^*$ $[0.8101; 0.8625] [0.8094; 0.8620] [0.8098; 0.8622] [0.8099; 0.8624]$ Num. obs. $2099 2099 2099 2099 2099$ Parameters $29 30 30 30 30$	γ: Physical Activity				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Accessibility	[-0.0591;0.0151]			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11000001011109				
Num. obs.         2099         2099         2099         2099           Parameters         29         30         30         30	$\lambda$ : spatial correlation	0.8363*			
Parameters 29 30 30 30		[0.8101; 0.8625]	[0.8094; 0.8620]	[0.8098; 0.8622]	[0.8099; 0.8624]
	Num. obs.	2099	2099	2099	2099
Log Likelihood $-3114.3931$ $-3113.9742$ $-3113.9998$ $-3113.5028$	Parameters				
	Log Likelihood	-3114.3931	-3113.9742	-3113.9998	-3113.5028

 $<sup>^*</sup>$  0 outside the confidence interval. 95% confidence interval in brackets.