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name: <unnamed>
log: /Users/caislin/sfuvault/INT_TimexNbhood/Manuscript/Final models.smcl
log type: smcl
opened on: 14 Oct 2021, 14:45:37

1 . **All physical activity

2 . ***Montreal

3 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 1 || interact_id: count_days, irr nolog

Mixed-effects nbinoimial regression      Number of obs   =    39,464
Overdispersion:      mean                Number of groups  =     157
Group variable:      interact_id

Obs per group:
      min =         24
      avg =       251.4
      max =         565

Integration method: mvaghermite           Integration pts.  =         7

Wald chi2(24)        =    6306.58
Prob > chi2          =     0.0000

Log likelihood = -81445.891

total_active_minutes_n |      IRR      Std. Err.      z    P>|z|    [95% Conf. Interval]
+-----+-----+-----+-----+-----+
      ale_index_q      |    1.180712    .0252849      7.76  0.000    1.132181    1.231325
+-----+-----+-----+-----+-----+
      gentrify_Dingx3   |
      Low SES          |    .8947062    .027967      -3.56  0.000    .8415373    .9512344
      Gentrified       |    .9346066    .0285977      -2.21  0.027    .8802037    .992372
+-----+-----+-----+-----+-----+
      sprawl_n         |    .6628286    .0166897     -16.33  0.000    .6309114    .6963605
      prox_idx_emp_q    |    1.013108    .0189188      0.70  0.486    .9766986    1.050876
      prox_idx_pharma_q |    1.147199    .0201637      7.81  0.000    1.108352    1.187408
      prox_idx_childcare_q |    1.054003    .0162638      3.41  0.001    1.022604    1.086367
      prox_idx_health_q |    .9839212    .0145507     -1.10  0.273    .9558116    1.012857
      prox_idx_grocery_q |    .9250066    .0138385     -5.21  0.000    .8982774    .9525313
      prox_idx_educpri_q |    .902028    .0103566     -8.98  0.000    .8819562    .9225566
      prox_idx_educsec_q |    .9456143    .0092463     -5.72  0.000    .9276644    .9639115
      prox_idx_lib_q    |    .9925228    .0084921     -0.88  0.380    .9760173    1.009307
      prox_idx_transit_q |    .8940329    .0120696     -8.30  0.000    .8706871    .9180048
      prox_idx_parks_q  |    1.068537    .0103901      6.82  0.000    1.048365    1.089096
+-----+-----+-----+-----+-----+
      genderx3         |
      male             |    1.061265    .1206151      0.52  0.601    .8493421    1.326064
      other            |    .726283    .3498252     -0.66  0.507    .2825608    1.866809
+-----+-----+-----+-----+-----+
      incomegrps       |
      $50-100k         |    .9413081    .1572264     -0.36  0.717    .6785094    1.305893
      $100k+           |    .8571269    .1326088     -1.00  0.319    .6329261    1.160746
+-----+-----+-----+-----+-----+
      0.white          |    1.026413    .2246882      0.12  0.905    .668327    1.57636
      agegroupx4       |    1.040239    .0856915      0.48  0.632    .8851438    1.22251
      home_yes         |    34.37677    1.665231     73.03  0.000    31.26312    37.80052
      weekend           |    .9514947    .0200011     -2.37  0.018    .9130898    .9915149
      total_precip_mm_n |    .9969202    .0019155     -1.61  0.108    .993173    1.000682
      mean_temp_c_n    |    .988788    .0028158     -3.96  0.000    .9832846    .9943223
      _cons            |    3.419917    .8003937      5.25  0.000    2.161729    5.410406
+-----+-----+-----+-----+-----+
      /lnalpha         |    1.025833    .0092218          1.007759    1.043908
+-----+-----+-----+-----+-----+
      interact_id       |
      var(count_days)   |    .0040581    .0006877          .0029112    .0056567
      var(_cons)       |    .3968528    .0532903          .3050199    .5163339
+-----+-----+-----+-----+-----+

Note: Estimates are transformed only in the first equation.
Note: _cons estimates baseline incidence rate (conditional on zero random effects).
LR test vs. nbinoimial model: chi2(2) = 2534.62      Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

4 .
5 . ***Saskatoon

6 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 2 || interact_id: count_days, irr nolog

Mixed-effects nbinoimial regression      Number of obs   =    11,909
Overdispersion:      mean                Number of groups  =     78
Group variable:      interact_id

Obs per group:
      min =         3
      avg =       152.7
      max =        376

Integration method: mvaghermite           Integration pts.  =         7

Wald chi2(24)        =    1546.23
Prob > chi2          =     0.0000

Log likelihood = -27685.225

total_active_minutes_n |      IRR      Std. Err.      z    P>|z|    [95% Conf. Interval]
+-----+-----+-----+-----+-----+

```

ale_index_q	1.299567	.0815848	4.17	0.000	1.14911	1.469724
gentrify_Dingx3						
Low SES	.4387898	.0347266	-10.41	0.000	.3757429	.5124154
Gentrified	1.026368	.0870015	0.31	0.759	.8692606	1.211871
sprawl_n	.7942243	.0778984	-2.35	0.019	.6553244	.9625648
prox_idx_emp_q	.8214776	.0618847	-2.61	0.009	.7087154	.9521812
prox_idx_pharma_q	.9054514	.0403742	-2.23	0.026	.8296788	.9881443
prox_idx_childcare_q	1.086728	.0401561	2.25	0.024	1.010806	1.168353
prox_idx_health_q	.7439372	.0393133	-5.60	0.000	.6707406	.8251215
prox_idx_grocery_q	.7868337	.0239823	-7.87	0.000	.7412057	.8352706
prox_idx_educpri_q	.7162676	.0204689	-11.68	0.000	.6772522	.7575306
prox_idx_educsec_q	.9070572	.0230497	-3.84	0.000	.8629872	.9533778
prox_idx_lib_q	1.14532	.0298934	5.20	0.000	1.088204	1.205435
prox_idx_transit_q	.9966432	.0420619	-0.08	0.936	.9175209	1.082589
prox_idx_parks_q	1.289188	.0364048	9.00	0.000	1.219775	1.362552
genderx3						
male	.870082	.1594919	-0.76	0.448	.6074761	1.24621
other	15.11773	11.26628	3.64	0.000	3.508651	65.13774
incomegrps						
\$50-100k	1.101827	.237298	0.45	0.653	.7224235	1.680485
\$100k+	1.558643	.2950305	2.34	0.019	1.075538	2.258749
0.white	.7536442	.1603865	-1.33	0.184	.4966131	1.143706
agegroupx4	1.05587	.1357891	0.42	0.672	.8206209	1.358559
home_yes	27.31902	3.092278	29.22	0.000	21.88348	34.10467
weekend	1.066939	.0493748	1.40	0.161	.9744252	1.168236
total_precip_mm_n	.9703142	.0224989	-1.30	0.194	.9272042	1.015429
mean_temp_c_n	1.003424	.0044279	0.77	0.439	.9947834	1.012141
_cons	18.65154	6.225844	8.77	0.000	9.695841	35.8793
/lnalpha	1.520552	.0157274			1.489727	1.551377
interact_id						
var(count_days)	.0009526	.0008139			.0001785	.0050833
var(_cons)	.4214627	.0827782			.2867988	.6193571

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoimial model: chi2(2) = 630.42 Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

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7 .
8 . **Vancouver

9 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 3 || interact_id: count_days, irr nolog

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Mixed-effects nbinoimial regression      Number of obs   =    42,685
Overdispersion:      mean                Number of groups  =     150
Group variable:      interact_id

Obs per group:
    min =         21
    avg =       284.6
    max =         691

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Integration method: mvaghermite          Integration pts.  =         7

Wald chi2(23)      =    6157.22
Log likelihood = -85528.641               Prob > chi2       =    0.0000

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total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.149268	.0215108	7.43	0.000	1.107872	1.192211
gentrify_Dingx3						
Low SES	1.14653	.0361454	4.34	0.000	1.07783	1.219608
Gentrified	1.153103	.0329756	4.98	0.000	1.09025	1.21958
sprawl_n	.5098774	.0177004	-19.40	0.000	.4763391	.5457771
prox_idx_emp_q	.896109	.0175353	-5.61	0.000	.8623912	.9311451
prox_idx_pharma_q	1.055264	.0175659	3.23	0.001	1.021391	1.09026
prox_idx_childcare_q	.8339564	.0127428	-11.88	0.000	.8093512	.8593096
prox_idx_health_q	1.142545	.0224846	6.77	0.000	1.099315	1.187475
prox_idx_grocery_q	1.068635	.0134924	5.26	0.000	1.042515	1.095409
prox_idx_educpri_q	.9258973	.014104	-5.05	0.000	.8986625	.9539575
prox_idx_educsec_q	.9150093	.0137661	-5.90	0.000	.8884222	.9423922
prox_idx_lib_q	1.116683	.0098477	12.51	0.000	1.097548	1.136152
prox_idx_transit_q	.8521872	.0118253	-11.53	0.000	.8293224	.8756824
prox_idx_parks_q	1.122313	.0115661	11.20	0.000	1.099872	1.145213
genderx3						
male	.70442	.0799038	-3.09	0.002	.5639988	.8798025
incomegrps						
\$50-100k	.7379457	.1263563	-1.77	0.076	.5275647	1.032222
\$100k+	.7337501	.1119409	-2.03	0.042	.5441127	.9894811
0.white	.9582458	.1470183	-0.28	0.781	.7093847	1.29441
agegroupx4	.9184956	.0717477	-1.09	0.276	.7881085	1.070454
home_yes	38.35815	2.108392	66.35	0.000	34.44059	42.72133

weekend	1.042365	.0226178	1.91	0.056	.998964	1.087651
total_precip_mm_n	1.000565	.0029256	0.19	0.847	.994847	1.006315
mean_temp_c_n	1.019931	.0069508	2.90	0.004	1.006398	1.033645
_cons	6.168833	1.957703	5.73	0.000	3.311852	11.4904
/lnalpha	1.227323	.0092092			1.209274	1.245373
interact_id						
var(count_days)	.0039587	.0007064			.0027904	.0056162
var(_cons)	.318689	.0456152			.2407306	.4218934

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model: chi2(2) = 2299.45 Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

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10 .
11 . ***Victoria

12 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 4 || interact_id: count_days, irr nolog
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Mixed-effects nbinoomial regression      Number of obs      =      35,658  
Overdispersion:      mean  
Group variable:      interact\_id      Number of groups      =      152

Obs per group:  
min =      66  
avg =      234.6  
max =      512

Integration method: mvaghermite      Integration pts.      =      7

Log likelihood = -88664.633      Wald chi2(24)      =      6945.65  
Prob > chi2      =      0.0000

total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.338586	.0261348	14.94	0.000	1.288331	1.390802
gentrify_Dingx3						
Low SES	.8004989	.0292275	-6.09	0.000	.7452157	.8598832
Gentrified	.9509282	.0354068	-1.35	0.177	.8840038	1.022919
sprawl_n	.5569012	.0275004	-11.85	0.000	.5055277	.6134955
prox_idx_emp_q	.8064385	.0226851	-7.65	0.000	.7631799	.852149
prox_idx_pharma_q	1.197442	.0197005	10.95	0.000	1.159446	1.236684
prox_idx_childcare_q	.8759487	.0133629	-8.68	0.000	.8501455	.902535
prox_idx_health_q	.9650185	.0160952	-2.13	0.033	.9339826	.9970858
prox_idx_grocery_q	1.05578	.0142895	4.01	0.000	1.028141	1.084162
prox_idx_educpri_q	1.095217	.0136779	7.28	0.000	1.068734	1.122356
prox_idx_educsec_q	.834931	.0082289	-18.30	0.000	.8189575	.8512161
prox_idx_lib_q	1.082383	.0101077	8.48	0.000	1.062752	1.102376
prox_idx_transit_q	.9293698	.0157861	-4.31	0.000	.8989389	.9608309
prox_idx_parks_q	.9586955	.0117268	-3.45	0.001	.9359847	.9819573
genderx3						
male	1.006344	.0987587	0.06	0.949	.830258	1.219776
other	1.879011	.6565062	1.81	0.071	.9473894	3.726747
incomegrps						
\$50-100k	.7662035	.1098428	-1.86	0.063	.578517	1.014781
\$100k+	.675579	.0933548	-2.84	0.005	.5152914	.8857259
0.white	.944536	.1626181	-0.33	0.740	.674015	1.323633
agegroupx4	.9747071	.0652649	-0.38	0.702	.8548284	1.111397
home_yes	33.7828	1.56423	76.02	0.000	30.85196	36.99205
weekend	.9661414	.0204174	-1.63	0.103	.9269414	1.006999
total_precip_mm_n	1.00387	.0021178	1.83	0.067	.9997275	1.008029
mean_temp_c_n	.9946176	.0055828	-0.96	0.336	.9837354	1.00562
_cons	6.149299	1.370298	8.15	0.000	3.973246	9.517124
/lnalpha	.974109	.0086438			.9571675	.9910506
interact_id						
var(count_days)	.0022201	.0004153			.0015386	.0032035
var(_cons)	.2961012	.0404844			.2264956	.3870977

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model: chi2(2) = 2698.56 Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

```
13 . **MVPA

14 . ***Montreal

15 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 1 || interact_id: count_days, irr nolog
```

Mixed-effects nbinoomial regression      Number of obs      =      39,464  
Overdispersion:      mean  
Group variable:      interact\_id      Number of groups      =      157

Obs per group:

min =	24
avg =	251.4
max =	565

Integration method: **mvaghermite**

Integration pts. = 7

Log likelihood = **-41553.506**

Wald chi2(24) = **1970.53**  
 Prob > chi2 = **0.0000**

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.458577	.0442251	12.45	0.000	1.374423	1.547884
gentrify_Dingx3						
Low SES	.9873744	.0427178	-0.29	0.769	.9071006	1.074752
Gentrified	1.037175	.0436117	0.87	0.385	.9551254	1.126274
sprawl_n	.5941449	.0204741	-15.11	0.000	.5553415	.6356597
prox_idx_emp_q	1.072499	.0277754	2.70	0.007	1.019419	1.128343
prox_idx_pharma_q	1.112392	.0270294	4.38	0.000	1.060657	1.16665
prox_idx_childcare_q	.9226748	.020144	-3.69	0.000	.8840261	.9630133
prox_idx_health_q	.9827812	.0199313	-0.86	0.392	.9444827	1.022633
prox_idx_grocery_q	.919688	.0191564	-4.02	0.000	.8828982	.9580107
prox_idx_educpri_q	.9305739	.0145102	-4.61	0.000	.9025646	.9594524
prox_idx_educsec_q	.9544687	.0129007	-3.45	0.001	.9295158	.9800914
prox_idx_lib_q	.9897254	.0119352	-0.86	0.392	.9666071	1.013397
prox_idx_transit_q	.9823209	.0182369	-0.96	0.337	.9472196	1.018723
prox_idx_parks_q	1.066272	.0145522	4.70	0.000	1.038128	1.095179
genderx3						
male	1.22948	.2135684	1.19	0.234	.8747069	1.728147
other	.9674897	.7146123	-0.04	0.964	.2274717	4.114957
incomegrps						
\$50-100k	.7953098	.2028519	-0.90	0.369	.4824237	1.311125
\$100k+	.9197647	.2173387	-0.35	0.723	.5788144	1.461552
0.white	1.213485	.4052456	0.58	0.562	.6306292	2.335042
agegroupx4	1.036263	.1302327	0.28	0.777	.8100189	1.3257
home_yes	9.113335	.5885545	34.22	0.000	8.02981	10.34307
weekend	.8916291	.0266448	-3.84	0.000	.8409062	.9454115
total_precip_mm_n	1.003824	.0026827	1.43	0.153	.9985802	1.009096
mean_temp_c_n	.9874136	.004028	-3.10	0.002	.9795502	.99534
__cons	.4048775	.1439767	-2.54	0.011	.2016655	.81286
/lnalpha	1.445352	.0153905			1.415187	1.475517
interact_id						
var(count_days)	.0093995	.001553			.0067993	.0129941
var(__cons)	.9447513	.125057			.7288592	1.224592

Note: Estimates are transformed only in the first equation.Note: \_\_cons estimates baseline incidence rate (conditional on zero random effects).LR test vs. nbinoimial model: chi2(2) = **3269.59**      Prob > chi2 = **0.0000**Note: LR test is conservative and provided only for reference.

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16 .
17 . ***Saskatoon

18 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps i.bl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 2 || interact_id: count_days, irr nolog

```

Mixed-effects nbinoimial regression      Number of obs      =      **11,909**  
 Overdispersion:      **mean**  
 Group variable:      **interact\_id**      Number of groups      =      **78**

Obs per group:

min =	3
avg =	152.7
max =	376

Integration method: **mvaghermite**

Integration pts. = 7

Log likelihood = **-13341.495**

Wald chi2(24) = **530.20**  
 Prob > chi2 = **0.0000**

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.37799	.1022235	4.32	0.000	1.19152	1.593642
gentrify_Dingx3						
Low SES	.5944332	.059005	-5.24	0.000	.4893399	.722097
Gentrified	1.473357	.1536871	3.72	0.000	1.200932	1.80758
sprawl_n	.7370163	.0875599	-2.57	0.010	.5839176	.9302563
prox_idx_emp_q	.7554466	.0705895	-3.00	0.003	.6290234	.9072787
prox_idx_pharma_q	.9997952	.0554062	-0.00	0.997	.8968908	1.114506
prox_idx_childcare_q	.9726071	.0440083	-0.61	0.539	.8900665	1.062802
prox_idx_health_q	.7538467	.0479985	-4.44	0.000	.6654045	.854044
prox_idx_grocery_q	.7295636	.0285814	-8.05	0.000	.6756418	.7877889
prox_idx_educpri_q	.7714598	.0271681	-7.37	0.000	.7200075	.826589
prox_idx_educsec_q	.8942757	.0289728	-3.45	0.001	.8392555	.952903
prox_idx_lib_q	1.104404	.0341659	3.21	0.001	1.03943	1.17344
prox_idx_transit_q	1.223189	.0627432	3.93	0.000	1.106194	1.352557
prox_idx_parks_q	1.167955	.0410893	4.41	0.000	1.090135	1.25133

genderx3						
male	1.211552	.2485715	0.94	0.350	.8104066	1.811262
other	8.62637	7.388096	2.52	0.012	1.60995	46.22147
incomegrps						
\$50-100k	1.239591	.3029479	0.88	0.379	.7678039	2.001274
\$100k+	1.452487	.3107875	1.74	0.081	.9549514	2.209241
0.white	.8271106	.1976373	-0.79	0.427	.5178092	1.321166
agegroupx4	.9027158	.1304789	-0.71	0.479	.6800142	1.198351
home_yes	6.644724	.9113201	13.81	0.000	5.078496	8.693982
weekend	1.015709	.0616845	0.26	0.797	.9017278	1.144098
total_precip_mm_n	.951656	.0294054	-1.60	0.109	.8957328	1.011071
mean_temp_c_n	1.00984	.0058379	1.69	0.090	.9984621	1.021347
_cons	2.640142	1.005574	2.55	0.011	1.251476	5.569703
/lnalpha	1.883141	.0267817			1.83065	1.935633
interact_id						
var(count_days)	.003091	.0013923			.0012785	.0074731
var(_cons)	.4846952	.1029564			.3196398	.7349816

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model: chi2(2) = 447.05      Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

```
19 .
20 . ***Vancouver

21 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps i.bl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 3 || interact_id: count_days, irr nolog
```

Mixed-effects nbinoomial regression      Number of obs      =      42,685  
Overdispersion:      mean  
Group variable:      interact\_id      Number of groups      =      150

Obs per group:  
  min =      21  
  avg =      284.6  
  max =      691

Integration method: **mvaghermite**      Integration pts.      =      7

Wald chi2(23)      =      2230.94  
Prob > chi2      =      0.0000

Log likelihood = -46720.684

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.168012	.0296773	6.11	0.000	1.11127	1.227651
gentrify_Dingx3						
Low SES	1.348335	.0596396	6.76	0.000	1.236367	1.470443
Gentrified	1.249917	.0494715	5.64	0.000	1.15662	1.350739
sprawl_n	.4784158	.022983	-15.35	0.000	.4354256	.5256505
prox_idx_emp_q	.8726221	.0239912	-4.96	0.000	.8268447	.9209339
prox_idx_pharma_q	1.125588	.026565	5.01	0.000	1.074708	1.178878
prox_idx_childcare_q	.8067846	.0176369	-9.82	0.000	.772947	.8421036
prox_idx_health_q	1.336712	.0378618	10.25	0.000	1.264526	1.413018
prox_idx_grocery_q	1.057253	.0190792	3.09	0.002	1.020512	1.095317
prox_idx_educpri_q	.8647427	.0181728	-6.92	0.000	.8298483	.9011044
prox_idx_educsec_q	.8448106	.0177057	-8.05	0.000	.8108111	.8802358
prox_idx_lib_q	1.097427	.0133816	7.62	0.000	1.071511	1.12397
prox_idx_transit_q	.8263779	.0162626	-9.69	0.000	.7951108	.8588747
prox_idx_parks_q	1.155295	.0161519	10.33	0.000	1.124068	1.18739
genderx3						
male	.6698951	.1199796	-2.24	0.025	.4715794	.9516094
incomegrps						
\$50-100k	.7187046	.1945185	-1.22	0.222	.4228355	1.221601
\$100k+	.7624003	.1838858	-1.12	0.261	.4752027	1.223171
0.white	.7888381	.1913618	-0.98	0.328	.4903402	1.269049
agegroupx4	.7860619	.0971761	-1.95	0.052	.6169185	1.00158
home_yes	7.647848	.5661864	27.48	0.000	6.614895	8.842102
weekend	1.108977	.033877	3.39	0.001	1.044528	1.177403
total_precip_mm_n	.9903377	.0042724	-2.25	0.024	.9819992	.9987469
mean_temp_c_n	1.014401	.0101803	1.42	0.154	.994643	1.034552
_cons	2.902249	1.442718	2.14	0.032	1.095467	7.688999
/lnalpha	1.717307	.0140049			1.689858	1.744756
interact_id						
var(count_days)	.012505	.002082			.0090233	.0173301
var(_cons)	.8143664	.1165926			.6151111	1.078167

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model: chi2(2) = 2262.79      Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

22 .

23 . \*\*\*Victoria

```
24 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 4 || interact_id: count_days, irr nolog
```

```
Mixed-effects nbinoimial regression      Number of obs   =    35,658
Overdispersion:      mean
Group variable:      interact_id          Number of groups  =     152
```

```
Obs per group:
      min =      66
      avg =    234.6
      max =     512
```

```
Integration method: mvaghermite          Integration pts.  =      7
```

```
Wald chi2(24)      =    2002.68
Prob > chi2        =     0.0000
Log likelihood = -39553.163
```

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.570293	.050453	14.05	0.000	1.474456	1.672359
gentrify_Dingx3						
Low SES	.7803047	.047874	-4.04	0.000	.6918954	.8800107
Gentrified	.9458519	.0594142	-0.89	0.375	.8362853	1.069773
sprawl_n	.3679975	.0291702	-12.61	0.000	.3150448	.4298504
prox_idx_emp_q	.6511034	.0306829	-9.11	0.000	.5936597	.7141056
prox_idx_pharma_q	1.163553	.0317539	5.55	0.000	1.102951	1.227484
prox_idx_childcare_q	.8308105	.0208449	-7.39	0.000	.7909436	.8726869
prox_idx_health_q	.9644539	.0271694	-1.28	0.199	.9126462	1.019202
prox_idx_grocery_q	1.115699	.0249482	4.90	0.000	1.067858	1.165684
prox_idx_educpri_q	1.095248	.0227209	4.39	0.000	1.051609	1.140698
prox_idx_educsec_q	.7746199	.0127809	-15.48	0.000	.7499706	.8000794
prox_idx_lib_q	1.101823	.0172638	6.19	0.000	1.068501	1.136184
prox_idx_transit_q	1.00084	.0285233	0.03	0.976	.9464679	1.058335
prox_idx_parks_q	.9822916	.0194791	-0.90	0.368	.9448457	1.021222
genderx3						
male	1.257003	.170934	1.68	0.093	.9629088	1.640919
other	1.033664	.5032665	0.07	0.946	.3980608	2.684165
incomegrps						
\$50-100k	.9472442	.1880802	-0.27	0.785	.6418766	1.397888
\$100k+	.9885691	.1895053	-0.06	0.952	.6789451	1.439393
0.white	.7639752	.1817455	-1.13	0.258	.4792731	1.217799
agegroupx4	.818595	.076267	-2.15	0.032	.6819683	.9825937
home_yes	11.23462	.8526719	31.87	0.000	9.681773	13.03653
weekend	.9601363	.0337568	-1.16	0.247	.8962024	1.028631
total_precip_mm_n	1.001886	.0036249	0.52	0.603	.9948063	1.009016
mean_temp_c_n	.9891377	.0089106	-1.21	0.225	.9718265	1.006757
_cons	1.261965	.4051285	0.72	0.469	.6726458	2.367601
/lnalpha	1.843794	.0149618			1.81447	1.873119
interact_id						
var(count_days)	.0057525	.0011223			.0039245	.008432
var(_cons)	.5277797	.0773787			.3959648	.7034752

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoimial model: chi2(2) = 1626.36 Prob &gt; chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

25 .

26 . \*Sensitivity, participants in DAS for at least 5 minutes/day

27 .

28 . \*\*All physical activity

29 . \*\*\*Montreal

```
30 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 1 & minutes_da >= 5 || interact_id: count_days, irr nolog
```

```
Mixed-effects nbinoimial regression      Number of obs   =     8,182
Overdispersion:      mean
Group variable:      interact_id          Number of groups  =     157
```

```
Obs per group:
      min =      7
      avg =     52.1
      max =     131
```

```
Integration method: mvaghermite          Integration pts.  =      7
```

```
Wald chi2(24)      =    3390.84
Prob > chi2        =     0.0000
Log likelihood = -31258.666
```

total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.073658	.0323636	2.36	0.018	1.012064	1.139001

gentrify_Dingx3						
Low SES						
Gentrified						
sprawl_n						
prox_idx_emp_q						
prox_idx_pharma_q						
prox_idx_childcare_q						
prox_idx_health_q						
prox_idx_grocery_q						
prox_idx_educpri_q						
prox_idx_educsec_q						
prox_idx_lib_q						
prox_idx_transit_q						
prox_idx_parks_q						
genderx3						
male						
other						
incomegrps						
\$50-100k						
\$100k+						
0.white						
agegroupx4						
home_yes						
weekend						
total_precip_mm_n						
mean_temp_c_n						
_cons						
/lnalpha						
interact_id						
var(count_days)						
var(_cons)						

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(2) = 612.06$  Prob >  $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

31 .
32 .
33 . ***Saskatoon

34 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 2 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

Mixed-effects nbinoomial regression      Number of obs      =      3,620

Overdispersion:      mean      Number of groups      =      78

Group variable:      interact\_id

Obs per group:

min =	3
avg =	46.4
max =	85

Integration method: mvaghermite      Integration pts.      =      7

Wald  $\chi^2(24)$       =      1069.70

Log likelihood = **-14877.295**      Prob >  $\chi^2$       =      0.0000

total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]
ale_index_q					
gentrify_Dingx3					
Low SES					
Gentrified					
sprawl_n					
prox_idx_emp_q					
prox_idx_pharma_q					
prox_idx_childcare_q					
prox_idx_health_q					
prox_idx_grocery_q					
prox_idx_educpri_q					
prox_idx_educsec_q					
prox_idx_lib_q					
prox_idx_transit_q					
prox_idx_parks_q					
genderx3					
male					
other					
incomegrps					
\$50-100k					
\$100k+					
0.white					
agegroupx4					
home_yes					
weekend					

total_precip_mm_n	.9594238	.0217182	-1.83	0.067	.9177874	1.002949
mean_temp_c_n	1.005143	.0040241	1.28	0.200	.9972871	1.013061
_cons	46.85655	12.18118	14.80	0.000	28.15046	77.99289
/lnalpha	.4091275	.0227805			.3644785	.4537765
interact_id						
var(count_days)	1.89e-34	2.77e-20			.	.
var(_cons)	.2160275	.0431204			.1460844	.3194583

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(01) = 263.53$  Prob >=  $\chi^2 = 0.0000$

```

35 .
36 .
37 . ***Vancouver

38 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 3 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

```

Mixed-effects nbinoomial regression      Number of obs   =      9,261
Overdispersion:      mean                Number of groups  =      150
Group variable:      interact_id

Obs per group:
      min =          2
      avg =        61.7
      max =        124

```

```

Integration method: mvaghermite           Integration pts. =          7

```

```

Log likelihood = -35177.15                Wald chi2(23)     =      4149.91
                                           Prob > chi2      =      0.0000

```

total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.047211	.022886	2.11	0.035	1.003303	1.093042
gentrify_Dingx3						
Low SES	1.002244	.0374646	0.06	0.952	.9314402	1.07843
Gentrified	1.098644	.036702	2.82	0.005	1.029014	1.172986
sprawl_n	.7960665	.0344946	-5.26	0.000	.7312497	.8666286
prox_idx_emp_q	.9467866	.021747	-2.38	0.017	.9051085	.990384
prox_idx_pharma_q	.9313335	.0190403	-3.48	0.001	.8947529	.9694096
prox_idx_childcare_q	.9808266	.0175432	-1.08	0.279	.9470384	1.01582
prox_idx_health_q	1.024029	.0260015	0.94	0.350	.9743144	1.07628
prox_idx_grocery_q	.9951923	.0150516	-0.32	0.750	.9661248	1.025134
prox_idx_educpri_q	1.058504	.0194457	3.09	0.002	1.021069	1.097311
prox_idx_educsec_q	.9764421	.0167442	-1.39	0.164	.9441694	1.009818
prox_idx_lib_q	1.037849	.0115322	3.34	0.001	1.01549	1.0607
prox_idx_transit_q	.8815506	.0147181	-7.55	0.000	.8531706	.9108746
prox_idx_parks_q	1.070442	.012994	5.61	0.000	1.045274	1.096215
genderx3						
male	.9313215	.0759853	-0.87	0.383	.7936904	1.092819
incomegrps						
\$50-100k	1.071994	.1298286	0.57	0.566	.8454811	1.359193
\$100k+	1.050526	.112846	0.46	0.646	.8510829	1.296706
0.white	.9236318	.1022019	-0.72	0.473	.7435523	1.147324
agegroupx4	.8979495	.0508972	-1.90	0.058	.8035343	1.003458
home_yes	7.503301	.2580526	58.60	0.000	7.014197	8.02651
weekend	1.06036	.0255642	2.43	0.015	1.011421	1.111668
total_precip_mm_n	1.00212	.0031174	0.68	0.496	.9960284	1.008248
mean_temp_c_n	1.011224	.0063039	1.79	0.073	.9989438	1.023655
_cons	22.07911	5.306034	12.88	0.000	13.78547	35.36239
/lnalpha	.0032641	.0151747			-.0264778	.0330061
interact_id						
var(count_days)	.0004142	.0002414			.0001322	.0012979
var(_cons)	.1611207	.0231903			.1215168	.2136318

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(2) = 885.98$  Prob >  $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

39 .
40 .
41 . ***Victoria

42 . menbreg total_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpr
> _q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> == 4 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

```

Mixed-effects nbinoomial regression      Number of obs   =      9,603
Overdispersion:      mean                Number of groups  =      152
Group variable:      interact_id

Obs per group:
      min =          9
      avg =        63.2

```



max = 126

Integration method: mvaghermite

Integration pts. = 7

Log likelihood = -39401.611

Wald chi2(24) = 4048.57

Prob &gt; chi2 = 0.0000

total_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.102025	.0263834	4.06	0.000	1.051509	1.154968
gentrify_Dingx3						
Low SES	1.013421	.0475362	0.28	0.776	.9244059	1.111007
Gentrified	.9400191	.0461492	-1.26	0.208	.8537837	1.034965
sprawl_n	.8585037	.0518009	-2.53	0.011	.7627495	.9662787
prox_idx_emp_q	.8493843	.0308872	-4.49	0.000	.7909535	.9121315
prox_idx_pharma_q	.9804851	.0208524	-0.93	0.354	.9404552	1.022219
prox_idx_childcare_q	1.045571	.0207973	2.24	0.025	1.005594	1.087138
prox_idx_health_q	.9416642	.0200011	-2.83	0.005	.9032675	.9816931
prox_idx_grocery_q	1.000308	.0169242	0.02	0.985	.9676814	1.034035
prox_idx_educpri_q	.9960358	.0162798	-0.24	0.808	.9646336	1.02846
prox_idx_educsec_q	.9508359	.0123765	-3.87	0.000	.9268852	.9754054
prox_idx_lib_q	.9967826	.0116658	-0.28	0.783	.9741783	1.019911
prox_idx_transit_q	1.059884	.0236068	2.61	0.009	1.01461	1.107177
prox_idx_parks_q	.9845763	.015794	-0.97	0.333	.9541022	1.016024
genderx3						
male	.9545521	.0725629	-0.61	0.541	.8224192	1.107914
other	1.163355	.3104679	0.57	0.571	.6895242	1.962794
incomegrps						
\$50-100k	.8665261	.0957379	-1.30	0.195	.6978095	1.076035
\$100k+	.8195719	.0874809	-1.86	0.062	.6648597	1.010285
0.white	1.103334	.1506323	0.72	0.471	.8443	1.441839
agegroupx4	.9762628	.0505738	-0.46	0.643	.8820059	1.080592
home_yes	7.791936	.2702745	59.19	0.000	7.279813	8.340086
weekend	1.056081	.0266429	2.16	0.031	1.005132	1.109613
total_precip_mm_n	1.000919	.0024562	0.37	0.708	.996116	1.005744
mean_temp_c_n	1.002816	.0059057	0.48	0.633	.9913073	1.014458
_cons	24.2105	4.687035	16.46	0.000	16.56591	35.38281
/lnalpha	.0947936	.0140933			.0671713	.1224158
interact_id						
var(count_days)	.0006975	.0002473			.0003481	.0013976
var(_cons)	.1638974	.0240772			.122893	.2185832

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model: chi2(2) = 1066.97

Prob &gt; chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

```

43 .
44 .
45 . **MVPA
46 . ***Montreal
47 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps i.bl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 1 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

Mixed-effects nbinoomial regression      Number of obs = 8,182

Overdispersion: mean      Number of groups = 157

Group variable: interact\_id

Obs per group:

min = 7

avg = 52.1

max = 131

Integration method: mvaghermite

Integration pts. = 7

Log likelihood = -18566.214

Wald chi2(24) = 366.19

Prob &gt; chi2 = 0.0000

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.282673	.0512027	6.24	0.000	1.186143	1.387058
gentrify_Dingx3						
Low SES	.9369473	.0535668	-1.14	0.255	.8376268	1.048045
Gentrified	.9091153	.0501433	-1.73	0.084	.815962	1.012903
sprawl_n	.7648741	.0324929	-6.31	0.000	.7037683	.8312854
prox_idx_emp_q	1.047028	.0352238	1.37	0.172	.9802175	1.118392
prox_idx_pharma_q	.9830733	.0318217	-0.53	0.598	.9226413	1.047464
prox_idx_childcare_q	.9405681	.0259537	-2.22	0.026	.8910509	.992837
prox_idx_health_q	1.02149	.0276905	0.78	0.433	.9686345	1.07723
prox_idx_grocery_q	.87265	.0238072	-4.99	0.000	.8272143	.9205813
prox_idx_educpri_q	.9959946	.0198735	-0.20	0.841	.957795	1.035718
prox_idx_educsec_q	1.037546	.0188325	2.03	0.042	1.001283	1.075121
prox_idx_lib_q	.948209	.0152432	-3.31	0.001	.9187987	.9785608
prox_idx_transit_q	1.019964	.0252573	0.80	0.425	.9716423	1.070688
prox_idx_parks_q	1.058593	.018844	3.20	0.001	1.022297	1.096179

genderx3						
male	1.053445	.1199791	0.46	0.648	.8426875	1.316912
other	.8920366	.4336784	-0.23	0.814	.3439988	2.313175
incomegrps						
\$50-100k	.8960216	.1483926	-0.66	0.507	.6476623	1.239619
\$100k+	1.027506	.1579048	0.18	0.860	.7602799	1.388657
0.white	1.084431	.235534	0.37	0.709	.7084749	1.659891
agegroupx4	1.016728	.0832724	0.20	0.839	.8659433	1.193769
home_yes	1.858625	.0888196	12.97	0.000	1.692445	2.041121
weekend	.9442346	.0346089	-1.57	0.117	.8787816	1.014563
total_precip_mm_n	1.002413	.0031575	0.77	0.444	.9962434	1.008621
mean_temp_c_n	.9960982	.00368	-1.06	0.290	.9889116	1.003337
_cons	2.140017	.5315765	3.06	0.002	1.315165	3.482204
/lnalpha	.4905266	.0224815			.4464637	.5345894
interact_id						
var(count_days)	.000936	.0005466			.000298	.00294
var(_cons)	.3745594	.0525068			.2845751	.4929974

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(2) = 845.80$  Prob >  $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

48 .
49 . ***Saskatoon

50 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps i.bl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 2 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

Mixed-effects nbinoomial regression      Number of obs      =      3,620  
Overdispersion:      mean  
Group variable:      interact\_id      Number of groups      =      78

Obs per group:  
min =      3  
avg =      46.4  
max =      85

Integration method: **mvaghermite**      Integration pts.      =      7

Wald  $\chi^2(24) = 174.13$   
Log likelihood = **-8411.6859**      Prob >  $\chi^2 = 0.0000$

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	.9735596	.0702548	-0.37	0.710	.8451571	1.12147
gentrify_Dingx3						
Low SES	.8635123	.0805802	-1.57	0.116	.7191792	1.036812
Gentrified	1.235278	.1201183	2.17	0.030	1.020925	1.494636
sprawl_n	1.175974	.1279683	1.49	0.136	.9501038	1.455542
prox_idx_emp_q	.8800858	.0733314	-1.53	0.125	.7474812	1.036215
prox_idx_pharma_q	.6954542	.0361664	-6.98	0.000	.6280622	.7700775
prox_idx_childcare_q	.9034567	.03999	-2.29	0.022	.8283814	.9853361
prox_idx_health_q	1.051074	.06562	0.80	0.425	.9300185	1.187886
prox_idx_grocery_q	.8921868	.0332333	-3.06	0.002	.8293716	.9597596
prox_idx_educpri_q	.9276705	.0328326	-2.12	0.034	.865501	.9943058
prox_idx_educsec_q	1.017136	.0321958	0.54	0.591	.9559512	1.082237
prox_idx_lib_q	1.078295	.0326003	2.49	0.013	1.016256	1.144122
prox_idx_transit_q	1.259164	.0600603	4.83	0.000	1.146783	1.382558
prox_idx_parks_q	1.146427	.0394732	3.97	0.000	1.071614	1.226463
genderx3						
male	1.182303	.1754091	1.13	0.259	.8839806	1.581303
other	1.699675	.9879771	0.91	0.361	.5439822	5.310646
incomegrps						
\$50-100k	1.143723	.2036102	0.75	0.451	.806838	1.621269
\$100k+	1.349541	.2098508	1.93	0.054	.9950065	1.8304
0.white	.9924437	.1734335	-0.04	0.965	.7046202	1.397838
agegroupx4	.8418862	.0874838	-1.66	0.098	.6867546	1.03206
home_yes	1.48174	.1215452	4.79	0.000	1.261679	1.740183
weekend	.9765096	.0531529	-0.44	0.662	.8776964	1.086447
total_precip_mm_n	.9510562	.0248911	-1.92	0.055	.9035007	1.001115
mean_temp_c_n	1.010858	.0047385	2.30	0.021	1.001613	1.020188
_cons	6.973273	2.002003	6.76	0.000	3.97246	12.24091
/lnalpha	.5093356	.0336978			.4432891	.5753821
interact_id						
var(count_days)	.0005725	.0006953			.000053	.0061873
var(_cons)	.2510268	.0555448			.1626951	.3873163

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(2) = 250.03$  Prob >  $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

51 .
52 . ***Vancouver

53 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 3 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

```

Mixed-effects nbinoimial regression      Number of obs      =      9,261
Overdispersion:      mean
Group variable:      interact_id          Number of groups   =      150

```

```

Obs per group:
      min =      2
      avg =     61.7
      max =     124

```

```

Integration method: mvaghermite          Integration pts.    =      7

```

```

Log likelihood = -22637.055              Wald chi2(23)      =     390.05
                                          Prob > chi2        =     0.0000

```

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.051	.0301625	1.73	0.083	.9935143	1.111811
gentrify_Dingx3						
Low SES	1.213437	.0620115	3.79	0.000	1.097786	1.341273
Gentrified	1.153102	.0513621	3.20	0.001	1.056704	1.258295
sprawl_n	.6693814	.0392201	-6.85	0.000	.5967609	.7508392
prox_idx_emp_q	.9240366	.0292064	-2.50	0.012	.8685301	.9830904
prox_idx_pharma_q	1.021023	.0284235	0.75	0.455	.9668067	1.07828
prox_idx_childcare_q	.9449237	.0234715	-2.28	0.023	.9000224	.9920652
prox_idx_health_q	1.196507	.0427591	5.02	0.000	1.115568	1.283318
prox_idx_grocery_q	.9722304	.0204658	-1.34	0.181	.9329344	1.013182
prox_idx_educpri_q	.9834489	.0244874	-0.67	0.503	.9366068	1.032634
prox_idx_educsec_q	.9492344	.02195	-2.25	0.024	.9071736	.9932454
prox_idx_lib_q	1.00856	.0149045	0.58	0.564	.9797671	1.0382
prox_idx_transit_q	.8702418	.0200468	-6.03	0.000	.8318246	.9104334
prox_idx_parks_q	1.104222	.0178845	6.12	0.000	1.069719	1.139837
genderx3						
male	.951037	.1204599	-0.40	0.692	.741964	1.219023
incomegrps						
\$50-100k	1.140505	.2153489	0.70	0.486	.7877246	1.651278
\$100k+	1.11462	.1875339	0.64	0.519	.8015171	1.550032
0.white	.8309843	.1430506	-1.08	0.282	.5930098	1.164458
agegroupx4	.7448552	.0654731	-3.35	0.001	.626976	.8848972
home_yes	1.4337	.0671176	7.70	0.000	1.308006	1.571472
weekend	1.103096	.0367335	2.95	0.003	1.033398	1.177493
total_precip_mm_n	.9923214	.004454	-1.72	0.086	.98363	1.00109
mean_temp_c_n	1.008072	.0092327	0.88	0.380	.990138	1.026332
_cons	9.148107	3.361543	6.02	0.000	4.451954	18.79801
/lnalpha	.4917548	.0198786			.4527933	.5307162
interact_id						
var(count_days)	.0025388	.0008075			.001361	.0047356
var(_cons)	.3755356	.0592614			.2756304	.5116524

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoimial model: chi2(2) = 720.47 Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

```

54 .
55 . ***Victoria

```

```

56 . menbreg mvpa_active_minutes_n ale_index_q i.gentrify_Dingx3 sprawl_n prox_idx_emp_q prox_idx_pharma_q prox_idx_childcare_q prox_idx_health_q prox_idx_grocery_q prox_idx_educpri
> q prox_idx_educsec_q prox_idx_lib_q prox_idx_transit_q prox_idx_parks_q i.genderx3 i.incomegrps ibl.white agegroupx4 home_yes weekend total_precip_mm_n mean_temp_c_n if city_n
> = 4 & minutes_da >= 5 || interact_id: count_days, irr nolog

```

```

Mixed-effects nbinoimial regression      Number of obs      =      9,603
Overdispersion:      mean
Group variable:      interact_id          Number of groups   =      152

```

```

Obs per group:
      min =      9
      avg =     63.2
      max =     126

```

```

Integration method: mvaghermite          Integration pts.    =      7

```

```

Log likelihood = -22299.084              Wald chi2(24)      =     479.33
                                          Prob > chi2        =     0.0000

```

mvpa_active_minutes_n	IRR	Std. Err.	z	P> z	[95% Conf. Interval]	
ale_index_q	1.22374	.0439409	5.62	0.000	1.140578	1.312965
gentrify_Dingx3						
Low SES	.9509125	.0692036	-0.69	0.489	.8245055	1.096699
Gentrified	.9571928	.0721998	-0.58	0.562	.8256471	1.109697
sprawl_n	.5824187	.051508	-6.11	0.000	.4897299	.6926502

prox_idx_emp_q	.7438171	.0412502	-5.34	0.000	.6672072	.8292235
prox_idx_pharma_q	.9364006	.0300445	-2.05	0.041	.8793278	.9971777
prox_idx_childcare_q	.9747809	.0287534	-0.87	0.387	.9200233	1.032797
prox_idx_health_q	1.016247	.0334754	0.49	0.625	.9527099	1.084022
prox_idx_grocery_q	1.016103	.0260894	0.62	0.534	.9662338	1.068546
prox_idx_educpri_q	.9862529	.0246741	-0.55	0.580	.9390592	1.035818
prox_idx_educsec_q	.8792832	.0175196	-6.46	0.000	.8456072	.9143003
prox_idx_lib_q	1.0231	.0185177	1.26	0.207	.9874425	1.060046
prox_idx_transit_q	1.137379	.0387328	3.78	0.000	1.063942	1.215885
prox_idx_parks_q	.9922951	.0233402	-0.33	0.742	.9475877	1.039112
genderx3						
male	1.146747	.1260245	1.25	0.213	.9245343	1.42237
other	.9055093	.3485336	-0.26	0.797	.4258559	1.92541
incomegrps						
\$50-100k	.9809733	.156436	-0.12	0.904	.7176553	1.340906
\$100k+	1.056588	.162816	0.36	0.721	.7811586	1.429133
0.white	.8438731	.1658401	-0.86	0.388	.5741123	1.240388
agegroupx4	.806789	.0604088	-2.87	0.004	.6966678	.9343169
home_yes	2.403269	.126612	16.64	0.000	2.167496	2.664689
weekend	1.048628	.0403818	1.23	0.218	.9723944	1.130839
total_precip_mm_n	.9978028	.0039126	-0.56	0.575	.9901636	1.005501
mean_temp_c_n	.9864728	.008746	-1.54	0.124	.9694791	1.003764
_cons	7.415925	2.09552	7.09	0.000	4.262271	12.90297
/lnalpha	.8263119	.0194188			.7882518	.864372
interact_id						
var(count_days)	.0017296	.0006027			.0008736	.0034241
var(_cons)	.3302024	.0496504			.2459181	.4433736

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline incidence rate (conditional on zero random effects).

LR test vs. nbinoomial model:  $\chi^2(2) = 772.80$  Prob >  $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

57 .
58 . log close
      name: <unnamed>
      log: /Users/caislin/sfuvault/INT_TimexNbhood/Manuscript/Final models.smcl
      log type: smcl
      closed on: 14 Oct 2021, 15:31:53

```