

Economic Inequality and Depressive Symptoms: An Individual versus Aggregate level analysis using Mexican survey data

Supplementary Electronic Material

Appendix A: DEPRESSIVE SYMPTOMS INSTRUMENT

Information regarding depressive symptoms was collected as part of the survey using the reduced version of the widely used Centre for Epidemiologic Studies Depression Scale (CES-D), validated for Mexico, and whose questions read as follow:

Figure A1. Depressive symptoms questions as they appeared in the questionnaire

II. DEPRESIÓN

A continuación le mencionaré sentimientos o conductas que usted haya podido experimentar. Por favor, dígame con qué frecuencia se ha sentido así durante la ÚLTIMA SEMANA.

2.01				
Durante la última semana...				
ENTREVISTADOR: LEA LAS OPCIONES DE RESPUESTA PARA CADA PREGUNTA Y ANOTE SÓLO UNA				
	Rara vez o nunca (menos de un día)	Pocas veces o alguna vez (1 - 2 días)	Un número de veces considerable (3 - 4 días)	Todo el tiempo o la mayoría del tiempo (5 - 7 días)
a) ¿se sentía como si no pudiera quitarse de encima la tristeza?	a201_a	2	3	4
b) ¿le costaba concentrarse en lo que estaba haciendo?	a201_b	2	3	4
c) ¿se sintió deprimido/a?	a201_c	2	3	4
d) ¿le parecía que todo lo que hacía era un esfuerzo?	a201_d	2	3	4
e) ¿no durmió bien?	a201_e	2	3	4
f) ¿disfrutó de la vida?	a201_f	2	3	4
g) ¿se sintió triste?	a201_g	2	3	4

CUALQUIER
OPCIÓN
PASE A 2.02

Our translation of the above Spanish text:

“I will read feelings or conducts that you might have experimented. Please, tell me the frequency to which you have felt this in the LAST WEEK:

- You felt overwhelmed by sadness
- It was hard for you to concentrate in what I was doing
- You felt depressed
- It felt like everything you did was a major effort
- You did not sleep well
- You felt you enjoyed life
- You felt sad”

Appendix B: DERIVATION OF OUR ASSET INDEX THROUGH PRINCIPAL COMPONENT ANALYSIS

We model absolute wealth as quartiles of an asset index built through PCA using the rich information on assets possession and quality contained in the survey. Since customary PCA in the presence of numerous binary and cardinal variables (as in our data) may produce incorrect results (Kolenikov and Angeles 2009; Howe et al. 2012), we adopt the methodology proposed by Kolenikov and Angeles (2009) and run PCA using polychoric correlations. The tables below provide information regarding the construction of the asset index.

Indicators Used to Construct Asset Index and Weights Produced by PCA

Indicator	Description	Measurement Type	Categories	Weight Produced by PCA
wall	Main Material of walls	Categorical	Waste / Rubbish	-0.519897
			Cardboard	-0.447112
			Asbestos	-0.392333
			Bamboo/Palm	-0.354359
			Mud	-0.335058
			Wood	-0.271810
			Adobe	-0.196361
			Stone/brick	0.043297
			Earthen	-0.405640
			Concrete	-0.084464
floor	Main Material of floor	Categorical	Titled/Wooden	0.200031
			Waste / Rubbish	-0.542463
roof	Main Material of roof	Categorical	Cardboard	-0.388435
			Metallic Sheeting	-0.230421
			Asbestos	-0.144841
			Bamboo/Palm	-0.123205
			Wood	-0.108482
			Earthen	-0.094848
			Tiled	-0.087643
			Concrete	0.086410
			No	-0.209200
			Yes	0.028389
room	Number of Rooms	Count		0.149054
electri	Electric Power	Binary	No	-0.434158
			Yes	0.010178
water	Water Source	Categorical	Mains inside	0.106606
			Mains outside	-0.125085

			Public hydrant	-0.221008
			Other House	-0.232282
			Water pipe	-0.248469
sewage	Waste disposal	Categorical	Dwell, river, lake	-0.335705
			Mains	0.093212
			Septic	-0.141988
			Ravine	-0.239378
			River, Lake	-0.244539
combustion	Type of fuel	Categorical	No sewage	-0.321830
			Gas tank	0.071834
			Natural gas	-0.135708
			Wood	-0.228368
			Coal	-0.385054
rubbish	Rubbish Disposal	Categorical	Electricity	-0.402787
			Other	-0.476754
			Collected	0.064575
			Public area	-0.112264
			Public Container	-0.127265
			Burnt	-0.207659
			Bury	-0.333376
heat	Heating	Binary	Street	-0.352484
			Ravine	-0.370694
			River, Lake	-0.428607
bulb	Number of Bulbs	Count	No	-0.010792
			Yes	0.160503
sanitation	Private-Flush Toilet in house	Binary	No	0.180272
			Yes	-0.185733
h60101	Other Property Ownership	Binary	Yes	0.150005
			No	-0.006266
h60102	Automobile	Binary	Yes	0.040635
			No	-0.070335
h60103	Van/Pick up	Binary	Yes	0.217372
			No	-0.037145
h60104	Motorcycle	Binary	Yes	0.134830
			No	-0.005224
h60105	Boat / Trajinera	Binary	Yes	0.099967
			No	0.000174
h60106	Television	Binary	Yes	-0.012057
			No	-0.373232
h60107	Cable TV	Binary	Yes	0.028456
			No	-0.083285
h60108	Radio	Binary	Yes	0.171998
			No	-0.053974

		Yes	0.048774
		No	-0.097571
h60109	Music system	Yes	0.122251
		No	-0.295532
h60110	Iron	Yes	0.060723
		No	-0.300585
h60111	Food processor	Yes	0.055300
		No	-0.329142
h60112	Refrigerator	Yes	0.063081
		No	-0.355153
h60113	Gas stove	Yes	0.055571
		No	-0.000500
h60114	Other stove	Yes	0.006298
		No	-0.199982
h60115	Washer/tumble Dryer	Yes	0.112716
		No	-0.114742
h60116	Water heater	Yes	0.207308
		No	-0.083285
h60117	Computer / Notebook	Yes	0.261892
		No	-0.066320
h60118	Internet / WiFi	Yes	0.304679
		No	-0.124738
h60119	Microwave	Yes	0.192950
		No	-0.108426
h60120	Landline	Yes	0.205613
		No	-0.121921
h60121	Water tank	Yes	0.114623
		No	-0.030712
h60122	Other Water tank	Yes	0.165364
		No	-0.285739
h60123	Electricity Meter	Yes	0.029783
		No	-0.170461
h60124	Mobile Phone	Yes	0.094838
		No	-0.034449
h60125	Air Conditioning	Yes	0.225565

Note. First Component Eigen Value = 15.00 with 40% of the variance reproduced.

Polychoric Correlations to Use with Principal Components Analysis

	Walls	Floors	Roof	Kitchen	N of Rooms	Electricity	Water Source	Sewage	Fuel	Rubbish Disposal	Heating	N of Bulbs	Sanitation Type	Other Property Ownership	Automobile	Van/Pick up	Motorcycle
Walls																	
Floors	0.5625																
Roof	0.6781	0.6151															
Kitchen	-0.2534	-0.3787	-0.2958														
N of Rooms	0.3573	0.4442	0.3952	0.0000													
Electricity	-0.4445	-0.4603	-0.3517	0.3521	-0.4026												
Water Source	-0.4543	-0.5650	-0.5126	0.3270	0.0000	0.4753											
Sewage	-0.4683	-0.4907	-0.4891	0.2432	-0.3419	0.5022	0.6210										
Fuel	-0.4734	-0.4719	-0.4828	0.2824	-0.3289	0.4590	0.5335	0.5922									
Rubbish Disposal	-0.4643	-0.4234	-0.4417	0.1321	-0.2450	0.4563	0.5294	0.6513	0.6176								
Heating	-0.0175	-0.2145	0.0042	0.1813	-0.2202	-0.0116	0.2873	0.2244	0.1034	0.1236							
N of Bulbs	0.5366	0.5474	0.5646	-0.5847	0.5787	-0.6054	0.0000	0.0000	0.0000	0.0000	-0.2022						
Sanitation Type	0.4840	0.6480	0.5873	-0.4050	0.4762	-0.4996	-0.7161	-0.6742	-0.5814	-0.5285	-0.3684	0.6505					
Other Property Ownership	-0.0481	0.0751	0.0012	-0.1006	0.1430	0.0233	0.0055	0.0562	0.0707	0.1005	-0.1347	0.1404	0.0607				
Automobile	0.3408	0.4509	0.3709	-0.3028	0.3743	-0.3439	-0.4503	-0.3706	-0.4058	-0.3425	-0.3421	0.4492	0.5292	0.1777			
Van/Pick up	0.1253	0.2170	0.1840	-0.2327	0.2971	-0.2190	-0.1697	-0.0638	-0.2133	-0.0661	-0.2253	0.2523	0.2814	0.2475	0.1104		
Motorcycle	0.1282	0.1099	0.0810	-0.0612	0.0923	-0.1868	-0.0608	0.0220	-0.1050	0.0000	0.0035	0.1030	0.0927	0.1322	0.1392	0.2075	
Boat / Trajinera	-0.0973	-0.0589	-0.1084	0.0486	-0.0013	-0.0350	0.1336	0.1797	0.0792	0.2171	0.0710	0.0395	-0.0715	0.1132	0.0967	0.1780	0.3765
Television	0.4498	0.4248	0.4206	-0.3041	0.3803	-0.7255	-0.4399	-0.4715	-0.5516	-0.4748	-0.0705	0.5419	0.4893	-0.0217	0.4248	0.3436	0.1957
Cable TV	0.2866	0.4268	0.3110	-0.2422	0.3098	-0.4376	-0.3786	-0.2666	-0.3351	-0.2697	-0.1991	0.4266	0.4324	0.1376	0.4590	0.2583	0.2035
Radio	0.1101	0.1104	0.1265	-0.1680	0.1741	-0.2078	-0.1492	-0.1485	-0.1462	-0.1370	-0.1212	0.1684	0.1545	0.0331	0.1318	0.0814	-0.0111
Music system	0.2984	0.3577	0.2950	-0.2411	0.3124	-0.4216	-0.3023	-0.2892	-0.3173	-0.2634	-0.1091	0.3764	0.3437	0.0917	0.3205	0.1716	0.1798
Iron	0.4305	0.4539	0.4241	-0.3638	0.4637	-0.6000	-0.4449	-0.4399	-0.5374	-0.4390	-0.1836	0.6200	0.5148	0.0277	0.4403	0.3127	0.1516
Food processor	0.4063	0.4225	0.3786	-0.3862	0.4708	-0.6097	-0.4147	-0.4543	-0.5344	-0.4273	-0.1286	0.6314	0.4920	0.0222	0.4207	0.3056	0.1213
Refrigerator	0.4328	0.5052	0.4247	-0.3783	0.4814	-0.6525	-0.4945	-0.4608	-0.5933	-0.4438	-0.2464	0.6852	0.6066	0.0090	0.5368	0.4014	0.2140
Gas stove	0.5225	0.5249	0.5090	-0.3736	0.4471	-0.5370	-0.5475	-0.5955	-0.8634	-0.6230	-0.2173	0.5918	0.6341	-0.0604	0.5240	0.3662	0.1545
Other stove	-0.0364	0.0269	-0.0359	-0.0061	0.0447	0.0826	-0.0187	0.0271	0.2205	0.0627	-0.1734	0.0760	0.0103	0.1088	0.0596	0.0569	0.0048
Washer/tumble Dryer	0.3643	0.4541	0.3663	-0.3470	0.4448	-0.5199	-0.4400	-0.3829	-0.5102	-0.3663	-0.2846	0.5727	0.5317	0.0770	0.4998	0.3690	0.2260
Water heater	0.3436	0.5547	0.5039	-0.4341	0.4981	-0.4273	-0.5820	-0.5577	-0.4843	-0.4341	-0.4392	0.5597	0.7184	0.1135	0.5017	0.3055	0.0254
Computer / Notebook	0.4240	0.5403	0.4676	-0.3337	0.4394	-0.4162	-0.5356	-0.4721	-0.4226	-0.4479	-0.2989	0.5523	0.5854	0.1930	0.5910	0.2769	0.1577
Internet / WiFi	0.4399	0.5591	0.4861	-0.3451	0.4362	-0.4321	-0.5808	-0.5236	-0.4110	-0.4900	-0.2951	0.5270	0.6060	0.1857	0.5873	0.2669	0.1272
Microwave	0.3465	0.5114	0.3936	-0.3487	0.4342	-0.4774	-0.4966	-0.4407	-0.4936	-0.4056	-0.3934	0.5507	0.5861	0.1069	0.5195	0.3157	0.1369
Landline	0.3640	0.5040	0.4440	-0.3748	0.4928	-0.4423	-0.5033	-0.4861	-0.4287	-0.4140	-0.2601	0.5393	0.5659	0.1021	0.4532	0.2755	0.0489
Water tank	0.3518	0.4714	0.4892	-0.3103	0.3424	-0.2985	-0.3858	-0.3504	-0.3872	-0.3012	0.0760	0.4361	0.5616	0.0748	0.2921	0.2139	0.1025
Other Water tank	0.3161	0.3249	0.3618	-0.2213	0.2568	-0.1717	-0.2502	-0.2796	-0.2773	-0.2442	0.0175	0.2925	0.2660	0.0885	0.2649	0.1201	0.0709
Electricity Meter	0.3627	0.4007	0.3623	-0.3758	0.3730	-0.7935	-0.4176	-0.3947	-0.3428	-0.3229	-0.1313	0.4942	0.4814	0.0684	0.3269	0.2260	0.0666
Mobile Phone	0.3578	0.3876	0.3311	-0.1683	0.3038	-0.4228	-0.3727	-0.3664	-0.4796	-0.4064	-0.1985	0.4844	0.4319	0.0888	0.4888	0.2432	0.2247
Air Conditioning	0.3154	0.3627	0.3012	-0.2278	0.2368	-0.3342	-0.4259	-0.2874	-0.3226	-0.3443	-0.4493	0.2746	0.5023	0.0929	0.4577	0.2600	0.1204

Polychoric Correlations to Use with Principal Components Analysis (cont)

	Boat / Trajinera	Television	Cable TV	Radio	Music system	Iron	Food processor	Refrigerat or	Gas stove	Other stove	Washer/tu mble Dryer	Water heater	Computer / Notebook	Internet / WiFi	Microwav e	Landline	Water tank	Other Water tank	Electricity Meter	Mobile Phone
Television	-0.0164																			
Cable TV	0.1367	0.5867																		
Radio	-0.0462	0.2386	0.0489																	
Music system	0.0436	0.4869	0.3440	0.0984																
Iron	-0.0230	0.6638	0.4030	0.2590	0.4318															
Food processor	-0.0330	0.6719	0.3794	0.2611	0.4344	0.7456														
Refrigerator	0.0723	0.7046	0.5032	0.2044	0.4541	0.6768	0.7123													
Gas stove	-0.0608	0.7101	0.4228	0.2248	0.4220	0.6886	0.7138	0.7636												
Other stove	0.0964	-0.0880	0.0728	0.0819	0.0725	-0.0430	-0.0355	-0.0370	-0.2361											
Washer/tumble Dryer	0.0749	0.5907	0.4569	0.1522	0.4072	0.5873	0.5961	0.6950	0.6592	-0.0150										
Water heater	-0.0825	0.4613	0.3743	0.2414	0.3523	0.5418	0.5348	0.5647	0.6544	0.0927	0.5130									
Computer / Notebook	0.0349	0.4518	0.5431	0.1395	0.4033	0.5646	0.5071	0.5851	0.5637	0.1329	0.5671	0.5815								
Internet / WiFi	0.0491	0.4282	0.6038	0.1582	0.3987	0.5574	0.5132	0.6199	0.5760	0.1513	0.5748	0.6018	0.9734							
Microwave	0.0011	0.5220	0.4604	0.1805	0.4011	0.5610	0.5495	0.6782	0.6427	0.0838	0.6118	0.5943	0.6254	0.6457						
Landline	-0.0048	0.4872	0.4381	0.1802	0.3362	0.5303	0.5845	0.6117	0.6001	0.0433	0.5483	0.6129	0.6631	0.7840	0.5851					
Water tank	-0.0534	0.4066	0.3161	0.1294	0.2947	0.4254	0.4299	0.4209	0.4458	0.0116	0.3567	0.5909	0.3927	0.3919	0.3712	0.4404				
Other Water tank	0.0386	0.2407	0.2188	0.1629	0.2392	0.2917	0.3051	0.2659	0.2983	0.1087	0.2266	0.3974	0.3615	0.3870	0.2758	0.3753	0.4370			
Electricity Meter	-0.0744	0.5104	0.3131	0.1536	0.2546	0.4582	0.4638	0.5222	0.4622	-0.0389	0.4096	0.4356	0.4051	0.4446	0.3911	0.4430	0.3530	0.1899		
Mobile Phone	0.0751	0.5215	0.3939	0.0844	0.3856	0.4718	0.4383	0.5078	0.5641	0.0168	0.4698	0.3660	0.6131	0.5932	0.4890	0.2516	0.2805	0.2238	0.3318	
Air Conditioning	0.1034	0.3697	0.3822	0.0453	0.2038	0.3439	0.2584	0.5477	0.4683	0.1471	0.4521	0.2827	0.4477	0.4655	0.4813	0.3489	0.0309	-0.0397	0.3575	0.4179

Pearson Correlations

	Walls	Floors	Roof	Kitchen	N of Rooms	Electricity	Water Source	Sewage	Fuel	Rubbish Disposal	Heating	N of Bulbs	Sanitation Type	Other Property Ownership	Automobile	Van/Pick up	Motorcycle
Walls																	
Floors	0.2910																
Roof	0.4307	0.4020															
Kitchen	-0.1388	-0.1885	-0.1583														
N of Rooms	0.2109	0.3619	0.2820	-0.3606													
Electricity	-0.1518	-0.1214	-0.1116	0.0996	-0.1012												
Water Source	-0.2526	-0.3128	-0.3299	0.1416	-0.2383	0.1750											
Sewage	-0.2525	-0.2954	-0.3137	0.1294	-0.2276	0.1859	0.3838										
Fuel	-0.2651	-0.2985	-0.3402	0.1514	-0.2272	0.1447	0.3394	0.3995									
Rubbish Disposal	-0.2444	-0.2649	-0.3114	0.0649	-0.1653	0.1488	0.3590	0.4380	0.4505								
Heating	-0.0194	-0.0917	-0.0025	0.0468	-0.1258	-0.0019	0.0757	0.0624	0.0456	0.0446							
N of Bulbs	0.2089	0.4101	0.3164	-0.2239	0.5787	-0.1391	-0.2562	-0.2562	-0.2493	-0.2164	-0.1496						
Sanitation Type	0.2389	0.4389	0.3999	-0.1984	0.3612	-0.1133	-0.4143	-0.4097	-0.3753	-0.3301	-0.1395	0.4042					
Other Property Ownership	-0.0130	0.0404	0.0006	-0.0354	0.0944	0.0047	0.0072	0.0207	0.0340	0.0493	-0.0481	0.1076	0.0300				
Automobile	0.1221	0.2799	0.1967	-0.1149	0.2837	-0.0561	-0.1899	-0.1723	-0.1991	-0.1678	-0.1493	0.3536	0.3043	0.0866			
Van/Pick up	0.0663	0.1269	0.0995	-0.0880	0.2186	-0.0391	-0.0744	-0.0456	-0.1045	-0.0372	-0.0924	0.2007	0.1567	0.1221	0.0586		
Motorcycle	0.0264	0.0404	0.0236	-0.0156	0.0429	-0.0183	-0.0159	-0.0074	-0.0311	-0.0012	0.0008	0.0595	0.0327	0.0419	0.0491	0.0750	
Boat / Trajinera	-0.0330	-0.0111	-0.0251	0.0072	-0.0003	-0.0023	0.0327	0.0236	0.0153	0.0440	0.0072	0.0114	-0.0131	0.0188	0.0174	0.0336	0.0789
Television	0.2164	0.1878	0.2142	-0.1250	0.1792	-0.2995	-0.2237	-0.2509	-0.2929	-0.2458	-0.0176	0.1879	0.2048	-0.0073	0.1235	0.1011	0.0357
Cable TV	0.1170	0.2783	0.1794	-0.1042	0.2397	-0.0747	-0.1791	-0.1539	-0.1824	-0.1489	-0.0830	0.3204	0.2668	0.0683	0.2816	0.1476	0.0749
Radio	0.0583	0.0734	0.0819	-0.0813	0.1328	-0.0514	-0.0772	-0.0801	-0.0905	-0.0822	-0.0490	0.1265	0.0985	0.0165	0.0763	0.0459	-0.0040
Music system	0.1357	0.2395	0.1823	-0.1127	0.2402	-0.0874	-0.1576	-0.1666	-0.1881	-0.1551	-0.0447	0.2721	0.2208	0.0459	0.1901	0.0977	0.0649
Iron	0.2358	0.2529	0.2606	-0.1808	0.2749	-0.1926	-0.2451	-0.2667	-0.3404	-0.2661	-0.0548	0.2710	0.2867	0.0115	0.1816	0.1309	0.0402
Food processor	0.2157	0.2303	0.2266	-0.1923	0.2723	-0.2007	-0.2184	-0.2770	-0.3335	-0.2540	-0.0391	0.2651	0.2664	0.0091	0.1690	0.1243	0.0321
Refrigerator	0.2330	0.2752	0.2604	-0.1883	0.2848	-0.2158	-0.2661	-0.2863	-0.3830	-0.2678	-0.0681	0.2912	0.3336	0.0037	0.2045	0.1570	0.0523
Gas stove	0.2882	0.2739	0.3138	-0.1816	0.2521	-0.1746	-0.3139	-0.3620	-0.6417	-0.4025	-0.0579	0.2509	0.3289	-0.0249	0.1865	0.1368	0.0377
Other stove	-0.0036	0.0117	-0.0138	-0.0019	0.0235	0.0153	-0.0046	0.0167	0.1074	0.0253	-0.0554	0.0500	0.0042	0.0385	0.0231	0.0216	0.0011
Washer/tumble Dryer	0.1865	0.2961	0.2390	-0.1749	0.3226	-0.1305	-0.2467	-0.2465	-0.3302	-0.2292	-0.1028	0.3287	0.3500	0.0369	0.2679	0.1936	0.0725
Water heater	0.1614	0.3707	0.2996	-0.1790	0.3892	-0.0776	-0.2814	-0.2781	-0.2693	-0.2361	-0.1900	0.4059	0.4721	0.0564	0.3112	0.1770	0.0089
Computer / Notebook	0.1405	0.3388	0.2375	-0.1237	0.3370	-0.0615	-0.2152	-0.2103	-0.2073	-0.2090	-0.1280	0.4299	0.3353	0.0944	0.3737	0.1542	0.0561
Internet / WiFi	0.1246	0.3267	0.2173	-0.1123	0.3226	-0.0529	-0.2004	-0.1969	-0.1814	-0.1954	-0.1236	0.4262	0.3111	0.0864	0.3567	0.1411	0.0425
Microwave	0.1577	0.3438	0.2426	-0.1538	0.3395	-0.0874	-0.2462	-0.2380	-0.2812	-0.2296	-0.1663	0.3892	0.3837	0.0534	0.3218	0.1833	0.0496
Landline	0.1579	0.3344	0.2608	-0.1563	0.3829	-0.0776	-0.2378	-0.2484	-0.2379	-0.2235	-0.1099	0.3966	0.3589	0.0505	0.2778	0.1585	0.0173
Water tank	0.1745	0.3196	0.3195	-0.1494	0.2644	-0.0715	-0.2063	-0.2193	-0.2310	-0.1844	0.0310	0.2936	0.3785	0.0373	0.1701	0.1207	0.0364
Other Water tank	0.0975	0.1790	0.1627	-0.0752	0.1800	-0.0286	-0.0883	-0.1173	-0.1184	-0.1066	0.0058	0.2353	0.1356	0.0380	0.1383	0.0583	0.0221
Electricity Meter	0.1887	0.1910	0.1923	-0.1726	0.1963	-0.3228	-0.2243	-0.2141	-0.1769	-0.1665	-0.0337	0.1948	0.2228	0.0234	0.1147	0.0809	0.0159
Mobile Phone	0.1664	0.2530	0.2131	-0.0821	0.2213	-0.1092	-0.2125	-0.2282	-0.3094	-0.2568	-0.0741	0.2806	0.2785	0.0425	0.2617	0.1296	0.0719
Air Conditioning	0.0873	0.1915	0.1339	-0.0723	0.1544	-0.0407	-0.1422	-0.1152	-0.1333	-0.1335	-0.2032	0.2232	0.2345	0.0384	0.2480	0.1287	0.0377

Pearson Correlations (cont)

	Boat / Trajinera	Television	Cable TV	Radio	Music system	Iron	Food processor	Refrigerator	Gas stove	Other stove	Washer/tum- ble Dryer	Water heater	Computer / Notebook	Internet / WiFi	Microwave	Landline	Water tank	Other Water tank	Electricity Meter	Mobile Phone
Television	-0.0021																			
Cable TV	0.0256	0.1734																		
Radio	-0.0085	0.1006	0.0299																	
Music system	0.0080	0.1825	0.2157	0.0624																
Iron	-0.0037	0.3553	0.1890	0.1406	0.2241															
Food processor	-0.0052	0.3643	0.1736	0.1384	0.2189	0.4861														
Refrigerator	0.0101	0.3892	0.2231	0.1092	0.2308	0.4227	0.4523													
Gas stove	-0.0096	0.3995	0.1813	0.1148	0.2037	0.4249	0.4469	0.4967												
Other stove	0.0136	-0.0265	0.0296	0.0336	0.0300	-0.0155	-0.0125	-0.0131	-0.0934											
Washer/tumble Dryer	0.0129	0.2652	0.2686	0.0952	0.2557	0.3460	0.3434	0.4133	0.3694	-0.0061										
Water heater	-0.0140	0.1569	0.2348	0.1504	0.2238	0.2520	0.2405	0.2545	0.2620	0.0382	0.3092									
Computer / Notebook	0.0060	0.1274	0.3408	0.0806	0.2410	0.2155	0.1927	0.2144	0.1935	0.0534	0.2995	0.3680								
Internet / WiFi	0.0080	0.1065	0.3639	0.0850	0.2212	0.1840	0.1681	0.1880	0.1669	0.0586	0.2689	0.3581	0.7867							
Microwave	0.0002	0.1801	0.2951	0.1136	0.2595	0.2711	0.2572	0.3074	0.2741	0.0347	0.3816	0.3979	0.3968	0.3803						
Landline	-0.0009	0.1604	0.2782	0.1114	0.2123	0.2441	0.2536	0.2660	0.2434	0.0176	0.3278	0.4110	0.4323	0.4959	0.3896					
Water tank	-0.0098	0.1672	0.1956	0.0826	0.1894	0.2311	0.2274	0.2248	0.2261	0.0048	0.2268	0.3857	0.2289	0.2105	0.2376	0.2788				
Other Water tank	0.0061	0.0680	0.1155	0.0844	0.1264	0.1097	0.1100	0.0996	0.1026	0.0399	0.1106	0.2182	0.1955	0.2051	0.1474	0.2054	0.2249			
Electricity Meter	-0.0111	0.2419	0.1235	0.0708	0.1127	0.2317	0.2340	0.2733	0.2303	-0.0121	0.1988	0.1683	0.1340	0.1236	0.1604	0.1681	0.1609	0.0623		
Mobile Phone	0.0129	0.2345	0.2312	0.0525	0.2413	0.2711	0.2447	0.2900	0.3114	0.0068	0.3044	0.2194	0.3200	0.2746	0.3011	0.1499	0.1768	0.1090	0.1593	
Air Conditioning	0.0170	0.0849	0.2012	0.0225	0.1026	0.1168	0.0902	0.1520	0.1294	0.0536	0.1956	0.1452	0.2416	0.2493	0.2527	0.1818	0.0153	-0.0158	0.0941	0.1824

Appendix C: CONCEPTUAL AND EMPIRICAL DETAILS ABOUT OF OUR ECONOMIC STATUS INDICATORS

ABSOLUTE WEALTH

Asset indices derived through principal component analysis (PCA) are continuous indicators which are widely used to measure standards of living (e.g. Jean et al 2016; Boerma, et al 2018; Heft-Neal et al 2018; Cao et al 2019; Watmough et al 2019), in particular when information on income is unavailable (as in our case) or not reliable. The use of wealth to derive indicators of economic status in our paper is not only due to the unavailability of income, but it is also supported by the considerations that:

- i) information on assets is more reliable than information on income/expenditures in developing countries contexts (due to large informal economy, under-reporting, seasonality, etc.) – see Deaton (2000) and Filmer and Pritchett (2001);
- ii) wealth is useful to examine socioeconomic inequalities in health – e.g. wealth provides better information on the ability to face health shocks (Pollack et al (2007);
- iii) wealth is particularly relevant given our paper's specific purposes: wealth has been argued to be more able than income to capture psychosocial mechanisms of economic inequality given the greater visibility of assets compared to income (Heffetz 2011; Sweet 2011; Hicks and Hicks 2014) – the importance of visibility of assets for the effects of inequality to be exerted has also been experimentally shown by Nishi et al (2015).

RELATIVE DEPRIVATION

We use the wealth information to derive relative deprivation indices because as mentioned the visible character of assets makes wealth particularly suitable for the construction of indices of relative economic status (e.g. Heffetz 2011; Hicks and Hicks 2014). We employ linear as well as non-linear (concave) indices available from the relative deprivation literature (Yitzhaki 1979; Esposito 2010), which differ in the functional form adopted by the index and in particular in the assumptions regarding the sensitivity to other's wealth. The Yitzhaki (1979) index of relative deprivation is based on the difference between individual i 's achievement and the achievements of better-off individuals in her reference group. Denoting individual i 's and individual j 's levels of wealth with y_i and y_j , respectively, for an increasingly ordered wealth vector $y = (y_1, \dots, y_N)$, the Yitzhaki index reads as

$$RDY(y_i, y_j) = \sum_{j=i+1}^N \frac{y_j - y_i}{N},$$

while the Esposito index (which we use below in one of the robustness checks below) replaces the linear functional form with a hyperbolic function

$$RDE(y_i, y_j) = \sum_{j=i+1}^N \frac{1 - ((y_i)^\beta / (y_j)^\beta)}{N}, \beta > 0.$$

Results do not change depending on the functional form used. N is the size of the reference group.

The reference group is chosen following a criterion of geographic proximity (individuals living in the same municipality, yielding a total of 712 reference groups). Geographical proximity has indeed proved useful for the study of relative deprivation in Mexico (Esposito and Villaseñor 2019) and concurs with Deaton's (2001) view that "people almost certainly compare themselves to their immediate geographical neighbours" (p. 21). Robustness checks are carried out with indices derived using reference groups based on additional demographic characteristics – results are also in this case confirmed and are available upon request.

RELATIVE AFFLUENCE

The Yitzhaki index of relative affluence reads as

$$RAY(y_i, y_j) = \sum_{j=1}^{i-1} \frac{y_i - y_j}{N}.$$

No other functional forms have been employed in the literature for indices of relative affluence (Esposito 2018).

References used in Sections B and C

Boerma, T., Requejo, J., Victora, C. G., Amouzou, A., George, A., Agyepong, I., ... & Borghi, J. (2018). Countdown to 2030: tracking progress towards universal coverage for reproductive, maternal, newborn, and child health. *The Lancet*, 391(10129), 1538-1548

- Cao, G., Cui, Z., & Sun, H. (2019). Changes in health inequality for diabetes among middle-aged and older people aged 45 years and older in China from 2011 to 2015: a systematic analysis. *The Lancet*, 394, S32
- Deaton, A. (2001). *Relative deprivation, inequality, and mortality* (No. w8099). National Bureau of Economic Research
- Esposito, L. (2010). Upper boundedness for the measurement of relative deprivation. *Review of Income and Wealth*, 56(3), 632-639
- Esposito, L. (2018). Relative Deprivation and Relative Satisfaction: Theoretical Approaches, in *The Handbook of Research on Economic and Social Wellbeing*, Ed. Conchita D'Ambrosio, Edward Elgar, London, Ch 15, 339-355
- Esposito, L., & Villaseñor, A. (2019). Relative Deprivation and School Enrolment. Evidence from Mexico. *Review of Income and Wealth*, 65(1), 166-186
- Heffetz, O. (2011). A test of conspicuous consumption: Visibility and income elasticities. *Review of Economics and Statistics*, 93(4), 1101-1117
- Heft-Neal, S., Burney, J., Bendavid, E., & Burke, M. (2018). Robust relationship between air quality and infant mortality in Africa. *Nature*, 559(7713), 254
- Hicks, D. L., & Hicks, J. H. (2014). Jealous of the Joneses: conspicuous consumption, inequality, and crime. *Oxford Economic Papers*, 66(4), 1090-1120
- Jean, N., Burke, M., Xie, M., Davis, W. M., Lobell, D. B., & Ermon, S. (2016). Combining satellite imagery and machine learning to predict poverty. *Science*, 353(6301), 790-794
- Kolenikov, S., & Angeles, G. (2009). Socioeconomic status measurement with discrete proxy variables: Is principal component analysis a reliable answer?. *Review of Income and Wealth*, 55(1), 128-165
- Nishi, A., Shirado, H., Rand, D. G., & Christakis, N. A. (2015). Inequality and visibility of wealth in experimental social networks. *Nature*, 526(7573), 426
- Pollack, C. E., Chideya, S., Cubbin, C., Williams, B., Dekker, M., & Braveman, P. (2007). Should health studies measure wealth?: a systematic review. *American journal of preventive medicine*, 33(3), 250-264
- Sweet, E. (2011). Symbolic capital, consumption, and health inequality. *American Journal of Public Health*, 101(2), 260-264
- Watmough, G. R., Marcinko, C. L., Sullivan, C., Tschirhart, K., Mutuo, P. K., Palm, C. A., & Svenning, J. C. (2019). Socioecologically informed use of remote sensing data to predict rural household poverty. *Proceedings of the National Academy of Sciences*, 116(4), 1213-1218
- Yitzhaki, S. (1979). Relative deprivation and the Gini coefficient. *The quarterly journal of economics*, 321-324

Appendix D: FULL REGRESSION OUTPUT SHOWING ALL COVARIATES

	State Inequality									
	(1)		(2)		(3)		(4)		(5)	
	Beta	95% CI	Beta	95% CI	Beta	95% CI	Beta	95% CI	Beta	95% CI
Poorest Quartile	0.543 (0.0000)	[0.35,0.74]	0.592 (0.0000)	[0.39,0.79]	0.431 (0.0001)	[0.22,0.64]	0.418 (0.0001)	[0.21,0.63]	0.412 (0.0002)	[0.20,0.63]
2 nd Quartile	0.610 (0.0000)	[0.46,0.76]	0.562 (0.0000)	[0.40,0.73]	0.506 (0.0000)	[0.34,0.67]	0.455 (0.0000)	[0.28,0.63]	0.483 (0.0000)	[0.31,0.66]
3 rd Quartile	0.349 (0.0000)	[0.22,0.48]	0.271 (0.0002)	[0.13,0.41]	0.268 (0.0002)	[0.13,0.41]	0.224 (0.0026)	[0.08,0.37]	0.255 (0.0005)	[0.11,0.40]
Rel Deprivation	0.173 (0.0000)	[0.11,0.24]			0.137 (0.0001)	[0.07,0.21]	0.120 (0.0009)	[0.05,0.19]	0.216 (0.0115)	[0.05,0.38]
Rel Affluence			-0.162 (0.0000)	[-0.24,-0.09]	-0.102 (0.0123)	[-0.18,-0.02]	-0.367 (0.0003)	[-0.56,-0.17]	-0.109 (0.0080)	[-0.19,-0.03]
Gini	2.340 (0.5260)	[-4.89,9.57]	2.635 (0.4329)	[-3.95,9.22]	2.439 (0.3767)	[-2.97,7.85]	1.119 (0.5998)	[-3.06,5.30]	2.831 (0.2616)	[-2.11,7.77]
Rel DeprivationGini							-0.450 (0.3036)	[-1.31,0.41]		
Rel AffluenceGini									1.342 (0.0048)	[0.41,2.27]
HH Size	0.031 (0.0133)	[0.01,0.06]	0.030 (0.0179)	[0.01,0.05]	0.034 (0.0073)	[0.01,0.06]	0.036 (0.0046)	[0.01,0.06]	0.035 (0.0062)	[0.01,0.06]
Female	1.681 (0.0000)	[1.56,1.80]	1.690 (0.0000)	[1.57,1.81]	1.682 (0.0000)	[1.57,1.80]	1.681 (0.0000)	[1.56,1.80]	1.682 (0.0000)	[1.56,1.80]
Age	0.114 (0.0000)	[0.10,0.13]	0.114 (0.0000)	[0.10,0.13]	0.114 (0.0000)	[0.10,0.13]	0.114 (0.0000)	[0.10,0.13]	0.114 (0.0000)	[0.10,0.13]
Age 2	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]
Married	-0.394 (0.0000)	[-0.49,-0.30]	-0.400 (0.0000)	[-0.49,-0.31]	-0.384 (0.0000)	[-0.48,-0.29]	-0.373 (0.0000)	[-0.47,-0.28]	-0.381 (0.0000)	[-0.47,-0.29]
No education / Primary	-0.379 (0.0000)	[-0.49,-0.27]	-0.375 (0.0000)	[-0.49,-0.26]	-0.380 (0.0000)	[-0.49,-0.27]	-0.387 (0.0000)	[-0.50,-0.27]	-0.382 (0.0000)	[-0.50,-0.27]
Secondary	-0.902 (0.0000)	[-1.03,-0.77]	-0.883 (0.0000)	[-1.02,-0.75]	-0.892 (0.0000)	[-1.02,-0.76]	-0.901 (0.0000)	[-1.03,-0.77]	-0.895 (0.0000)	[-1.03,-0.76]
Not Employed	0.630 (0.0000)	[0.41,0.85]	0.638 (0.0000)	[0.42,0.86]	0.635 (0.0000)	[0.41,0.85]	0.637 (0.0000)	[0.42,0.86]	0.636 (0.0000)	[0.42,0.86]
Retired	-0.112 (0.3718)	[-0.36,0.13]	-0.112 (0.3705)	[-0.36,0.13]	-0.113 (0.3651)	[-0.36,0.13]	-0.127 (0.3118)	[-0.37,0.12]	-0.118 (0.3466)	[-0.36,0.13]
Student	0.455 (0.0067)	[0.13,0.78]	0.451 (0.0072)	[0.12,0.78]	0.462 (0.0059)	[0.13,0.79]	0.467 (0.0054)	[0.14,0.80]	0.463 (0.0058)	[0.13,0.79]
House Work	-0.042 (0.4957)	[-0.16,0.08]	-0.051 (0.3980)	[-0.17,0.07]	-0.043 (0.4780)	[-0.16,0.08]	-0.045 (0.4613)	[-0.16,0.07]	-0.043 (0.4773)	[-0.16,0.08]
Other Act	0.521 (0.0002)	[0.25,0.80]	0.522 (0.0002)	[0.25,0.80]	0.524 (0.0002)	[0.25,0.80]	0.524 (0.0002)	[0.25,0.80]	0.523 (0.0002)	[0.25,0.80]
Social Programme	0.006 (0.9263)	[-0.11,0.12]	-0.014 (0.8197)	[-0.13,0.10]	0.007 (0.9047)	[-0.11,0.12]	0.016 (0.7944)	[-0.10,0.13]	0.010 (0.8626)	[-0.11,0.13]
Chronic Health Problem	1.184 (0.0000)	[1.06,1.31]	1.187 (0.0000)	[1.06,1.32]	1.191 (0.0000)	[1.06,1.32]	1.198 (0.0000)	[1.07,1.33]	1.192 (0.0000)	[1.06,1.32]
Victim of Violence	2.433 (0.0000)	[2.14,2.73]	2.446 (0.0000)	[2.15,2.74]	2.438 (0.0000)	[2.14,2.73]	2.451 (0.0000)	[2.16,2.75]	2.441 (0.0000)	[2.15,2.74]
Limitations in Activities	1.083 (0.0000)	[0.99,1.18]	1.087 (0.0000)	[0.99,1.18]	1.087 (0.0000)	[0.99,1.18]	1.093 (0.0000)	[1.00,1.19]	1.088 (0.0000)	[0.99,1.18]
Drinks Yearly	0.189 (0.0005)	[0.08,0.30]	0.192 (0.0004)	[0.08,0.30]	0.190 (0.0005)	[0.08,0.30]	0.190 (0.0005)	[0.08,0.30]	0.190 (0.0005)	[0.08,0.30]
Drinks Monthly	0.186 (0.0053)	[0.06,0.32]	0.188 (0.0049)	[0.06,0.32]	0.186 (0.0053)	[0.06,0.32]	0.186 (0.0054)	[0.05,0.32]	0.187 (0.0052)	[0.06,0.32]
Drinks Weekly/Daily	0.422 (0.0000)	[0.26,0.58]	0.431 (0.0000)	[0.27,0.59]	0.427 (0.0000)	[0.27,0.59]	0.430 (0.0000)	[0.27,0.59]	0.428 (0.0000)	[0.27,0.59]

Has Insurance	(0.0000) -0.027 (0.6208)	[-0.14,0.08]	(0.0000) -0.042 (0.4493)	[-0.15,0.07]	(0.0000) -0.032 (0.5603)	[-0.14,0.08]	(0.0000) -0.039 (0.4836)	[-0.15,0.07]	(0.0000) -0.034 (0.5409)	[-0.14,0.07]
Hospitals/Pop	(0.2049) -0.090 (0.2049)	[-0.23,0.05]	(0.1965) -0.084 (0.1965)	[-0.21,0.04]	(0.1004) -0.088 (0.1004)	[-0.19,0.02]	(0.0321) -0.086 (0.0321)	[-0.17,-0.01]	(0.0710) -0.087 (0.0710)	[-0.18,0.01]
Mean Wealth	(0.3061) 0.180 (0.3061)	[-0.16,0.53]	(0.1940) 0.208 (0.1940)	[-0.11,0.52]	(0.1805) 0.177 (0.1805)	[-0.08,0.43]	(0.0825) 0.173 (0.0825)	[-0.02,0.37]	(0.1397) 0.176 (0.1397)	[-0.06,0.41]
Constant	(0.2683) -1.916 (0.2683)	[-5.31,1.48]	(0.2498) -1.818 (0.2498)	[-4.91,1.28]	(0.1833) -1.736 (0.1833)	[-4.29,0.82]	(0.1609) -1.408 (0.1609)	[-3.38,0.56]	(0.1328) -1.778 (0.1328)	[-4.10,0.54]
Observations	44,324		44,324		44,324		44,324		44,324	
Overall-R2	0.0881		0.0880		0.0882		0.0884		0.0883	
Between-R2	0.3099		0.3199		0.3203		0.3355		0.3188	
Within-R2	0.0867		0.0865		0.0868		0.0870		0.0868	

Municipal Inequality

	(6)		(7)		(8)		(9)		(10)	
	Beta	95% CI	Beta	95% CI	Beta	95% CI	Beta	95% CI	Beta	95% CI
Poorest Quartile	0.681 (0.0000)	[0.42,0.94]	0.748 (0.0000)	[0.49,1.00]	0.504 (0.0013)	[0.20,0.81]	0.455 (0.0040)	[0.15,0.76]	0.389 (0.0177)	[0.07,0.71]
2 nd Quartile	0.652 (0.0000)	[0.48,0.82]	0.627 (0.0000)	[0.43,0.83]	0.516 (0.0000)	[0.30,0.73]	0.413 (0.0003)	[0.19,0.64]	0.397 (0.0009)	[0.16,0.63]
3 rd Quartile	0.360 (0.0000)	[0.23,0.49]	0.306 (0.0001)	[0.15,0.46]	0.266 (0.0011)	[0.11,0.42]	0.175 (0.0421)	[0.01,0.34]	0.193 (0.0251)	[0.02,0.36]
Rel Deprivation	0.135 (0.0014)	[0.05,0.22]			0.119 (0.0054)	[0.04,0.20]	0.095 (0.0297)	[0.01,0.18]	0.297 (0.0004)	[0.13,0.46]
Rel Affluence			-0.122 (0.0086)	[-0.21,-0.03]	-0.098 (0.0366)	[-0.19,-0.01]	-0.385 (0.0002)	[-0.59,-0.18]	-0.142 (0.0048)	[-0.24,-0.04]
Gini	-0.707 (0.6798)	[-4.07,2.65]	-0.099 (0.9542)	[-3.47,3.27]	-0.371 (0.8294)	[-3.74,3.00]	-1.904 (0.2873)	[-5.41,1.60]	0.984 (0.5861)	[-2.56,4.53]
Rel DeprivationGini							-1.282 (0.0140)	[-2.30,-0.26]		
Rel AffluenceGini									1.641 (0.0016)	[0.62,2.66]
HH Size	0.038 (0.0024)	[0.01,0.06]	0.037 (0.0032)	[0.01,0.06]	0.039 (0.0019)	[0.01,0.06]	0.039 (0.0018)	[0.01,0.06]	0.040 (0.0018)	[0.01,0.06]
Female	1.664 (0.0000)	[1.55,1.78]	1.667 (0.0000)	[1.55,1.78]	1.668 (0.0000)	[1.55,1.79]	1.669 (0.0000)	[1.55,1.79]	1.670 (0.0000)	[1.55,1.79]
Age	0.113 (0.0000)	[0.10,0.13]	0.112 (0.0000)	[0.10,0.13]	0.113 (0.0000)	[0.10,0.13]	0.113 (0.0000)	[0.10,0.13]	0.113 (0.0000)	[0.10,0.13]
Age 2	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]	-0.001 (0.0000)	[-0.00,-0.00]
Married	-0.397 (0.0000)	[-0.49,-0.30]	-0.400 (0.0000)	[-0.49,-0.31]	-0.394 (0.0000)	[-0.49,-0.30]	-0.391 (0.0000)	[-0.48,-0.30]	-0.392 (0.0000)	[-0.48,-0.30]
No education / Primary	-0.384 (0.0000)	[-0.50,-0.27]	-0.385 (0.0000)	[-0.50,-0.27]	-0.380 (0.0000)	[-0.49,-0.27]	-0.381 (0.0000)	[-0.49,-0.27]	-0.381 (0.0000)	[-0.49,-0.27]
Secondary	-0.888 (0.0000)	[-1.02,-0.75]	-0.879 (0.0000)	[-1.01,-0.74]	-0.870 (0.0000)	[-1.00,-0.74]	-0.863 (0.0000)	[-1.00,-0.73]	-0.866 (0.0000)	[-1.00,-0.73]
Not Employed	0.580 (0.0000)	[0.36,0.80]	0.584 (0.0000)	[0.37,0.80]	0.581 (0.0000)	[0.36,0.80]	0.581 (0.0000)	[0.36,0.80]	0.581 (0.0000)	[0.36,0.80]
Retired	-0.117 (0.3467)	[-0.36,0.13]	-0.119 (0.3372)	[-0.36,0.12]	-0.112 (0.3667)	[-0.36,0.13]	-0.112 (0.3686)	[-0.35,0.13]	-0.111 (0.3693)	[-0.35,0.13]
Student	0.433 (0.0092)	[0.11,0.76]	0.428 (0.0101)	[0.10,0.75]	0.439 (0.0083)	[0.11,0.77]	0.448 (0.0071)	[0.12,0.77]	0.442 (0.0079)	[0.12,0.77]
House Work	-0.033 (0.5832)	[-0.15,0.09]	-0.039 (0.5196)	[-0.16,0.08]	-0.036 (0.5567)	[-0.15,0.08]	-0.035 (0.5603)	[-0.15,0.08]	-0.035 (0.5601)	[-0.15,0.08]
Other Act	0.511 (0.0003)	[0.24,0.79]	0.513 (0.0002)	[0.24,0.79]	0.512 (0.0003)	[0.24,0.79]	0.513 (0.0002)	[0.24,0.79]	0.512 (0.0003)	[0.24,0.79]
Social Programme	0.006 (0.9162)	[-0.11,0.12]	0.000 (0.9994)	[-0.12,0.12]	0.001 (0.9817)	[-0.12,0.12]	0.006 (0.9213)	[-0.11,0.12]	0.004 (0.9502)	[-0.11,0.12]
Chronic Health Problem	1.185	[1.06,1.31]	1.186	[1.06,1.31]	1.186	[1.06,1.31]	1.184	[1.06,1.31]	1.184	[1.06,1.31]

Victim of Violence	(0.0000) 2.384 (0.0000)	[2.09,2.68]	(0.0000) 2.393 (0.0000)	[2.10,2.69]	(0.0000) 2.388 (0.0000)	[2.10,2.68]	(0.0000) 2.389 (0.0000)	[2.10,2.68]	(0.0000) 2.385 (0.0000)	[2.09,2.68]
Limitations in Activities	1.100 (0.0000)	[1.01,1.19]	1.101 (0.0000)	[1.01,1.19]	1.099 (0.0000)	[1.01,1.19]	1.097 (0.0000)	[1.00,1.19]	1.097 (0.0000)	[1.00,1.19]
Drinks Yearly	0.178 (0.0011)	[0.07,0.28]	0.178 (0.0011)	[0.07,0.28]	0.179 (0.0010)	[0.07,0.29]	0.178 (0.0011)	[0.07,0.28]	0.179 (0.0010)	[0.07,0.29]
Drinks Monthly	0.187 (0.0049)	[0.06,0.32]	0.188 (0.0048)	[0.06,0.32]	0.190 (0.0043)	[0.06,0.32]	0.193 (0.0037)	[0.06,0.32]	0.194 (0.0036)	[0.06,0.32]
Drinks Weekly/Daily	0.403 (0.0000)	[0.24,0.56]	0.409 (0.0000)	[0.25,0.57]	0.410 (0.0000)	[0.25,0.57]	0.412 (0.0000)	[0.25,0.57]	0.411 (0.0000)	[0.25,0.57]
Has Insurance	-0.041 (0.4517)	[-0.15,0.07]	-0.050 (0.3662)	[-0.16,0.06]	-0.042 (0.4423)	[-0.15,0.07]	-0.045 (0.4127)	[-0.15,0.06]	-0.044 (0.4201)	[-0.15,0.06]
Hospitals/Pop	-0.017 (0.3586)	[-0.05,0.02]	-0.018 (0.3471)	[-0.06,0.02]	-0.017 (0.3656)	[-0.05,0.02]	-0.018 (0.3446)	[-0.06,0.02]	-0.016 (0.3954)	[-0.05,0.02]
Mean Wealth	0.078 (0.2673)	[-0.06,0.22]	0.116 (0.0926)	[-0.02,0.25]	0.068 (0.3392)	[-0.07,0.21]	0.063 (0.3727)	[-0.08,0.20]	0.067 (0.3455)	[-0.07,0.21]
Constant	-0.860 (0.2367)	[-2.28,0.56]	-0.951 (0.1905)	[-2.37,0.47]	-0.661 (0.3672)	[-2.10,0.78]	-0.291 (0.6949)	[-1.75,1.16]	-0.730 (0.3199)	[-2.17,0.71]
Observations	44,324		44,324		44,324		44,324		44,324	
Overall-R2	0.0875		0.0874		0.0876		0.0878		0.0876	
Between-R2	0.0942		0.0894		0.0951		0.0941		0.0915	
Within-R2	0.0864		0.0864		0.0865		0.0867		0.0867	

For models 1-5 the second level is the State. For models 6-10 the second level is the Municipality. P-values in parenthesis.

FULL REGRESSION OUTPUT for Table 1: Multilevel linear regression models on depressive symptoms

Appendix E: FULL PREDICTION POINTS FROM MODELS 5 AND 10 IN TABLE 2

Point Predictions at	Model 5		Model 10	
	Prediction	95% CI	Prediction	95% CI
Relative Deprivation = 0	3.57	[3.49,3.65]	3.63	[3.49,3.78]
Relative Deprivation = 1	3.69	[3.63,3.75]	3.73	[3.60,3.86]
Relative Deprivation = 2	3.81	[3.71,3.91]	3.82	[3.65,3.99]
Relative Deprivation = 3	3.93	[3.77,4.09]	3.92	[3.69,4.15]
Relative Deprivation = 4	4.05	[3.82,4.28]	4.01	[3.71,4.32]
Relative Deprivation = 5	4.17	[3.87,4.47]	4.11	[3.72,4.49]
Relative Deprivation = 6	4.29	[3.92,4.65]	4.20	[3.74,4.67]
Relative Deprivation = 7	4.50	[4.01, 4.99]	4.37	[3.76, 4.98]

Average Marginal Predictions for different values of Relative Deprivation from Models 5 and 10

Point Predictions at	Gini = 0		Gini = 0.5	
	Prediction	95% CI	Prediction	95% CI
Relative Affluence = 0	3.71	[3.37,4.05]	4.16	[2.81,5.51]
Relative Affluence = 1	3.48	[3.15,3.80]	4.46	[3.14,5.78]
Relative Affluence = 2	3.24	[2.89,3.59]	4.76	[3.41,6.12]
Relative Affluence = 3	3.01	[2.60,3.42]	5.07	[3.62,6.52]
Relative Affluence = 4	2.78	[2.29,3.27]	5.37	[3.78,6.97]
Relative Affluence = 5	2.55	[1.96,3.13]	5.68	[3.90,7.45]
Relative Affluence = 6	2.31	[1.63,3.00]	5.98	[4.00,7.97]
Relative Affluence = 7	2.08	[1.29,2.87]	6.29	[4.07,8.50]

Average Marginal Predictions for different values of Relative Affluence from Model 5

Point Predictions at	Gini = 0		Gini = 0.5	
	Prediction	95% CI	Prediction	95% CI
Relative Affluence = 0	3.95	[3.73,4.17]	3.19	[1.96,4.42]
Relative Affluence = 1	3.73	[3.53,3.93]	3.62	[2.44,4.80]
Relative Affluence = 2	3.51	[3.27,3.75]	4.06	[2.83,5.29]
Relative Affluence = 3	3.29	[2.96,3.61]	4.49	[3.13,5.86]
Relative Affluence = 4	3.07	[2.64,3.49]	4.93	[3.37,6.49]
Relative Affluence = 5	2.85	[2.31,3.38]	5.37	[3.56,7.17]
Relative Affluence = 6	2.63	[1.98,3.27]	5.80	[3.72,7.88]
Relative Affluence = 7	2.40	[1.64,3.17]	6.24	[3.86,8.61]

Average Marginal Predictions for different values of Relative Affluence from Model 10

Appendix F: ROBUSTNESS CHECKS

We carry out a number of robustness checks (all of them multilevel models at State and Municipal levels). For each of them, rationale and empirical evidence are provided below – in all cases our results are confirmed.

1) Alternative outcome variable and regression model

While our main outcome measure is convenient for estimation purposes, it introduces an assumption of cardinality. We therefore test the robustness of our results by estimating Poisson multilevel regression models where the dependent variable is a count measure ranging from 0 to 7 indicating the number of items where the depression symptom has occurred more than once a week.

	MUNICIPAL LEVEL						STATE LEVEL											
	(1)		(2)		(3)		(4)		(5)		(6)							
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Poorest Quartile	0.219	[0.16,0.28]	0.0000	0.146	[0.07,0.22]	0.0001	0.116	[0.04,0.19]	0.0022	0.157	[0.11,0.20]	0.0000	0.117	[0.07,0.17]	0.0000	0.110	[0.06,0.16]	0.0000
2 nd Quartile	0.207	[0.17,0.25]	0.0000	0.150	[0.10,0.20]	0.0000	0.109	[0.05,0.16]	0.0001	0.189	[0.16,0.22]	0.0000	0.151	[0.11,0.19]	0.0000	0.137	[0.10,0.18]	0.0000
3 rd Quartile	0.116	[0.08,0.15]	0.0000	0.077	[0.04,0.12]	0.0001	0.044	[0.00,0.09]	0.0377	0.113	[0.08,0.14]	0.0000	0.084	[0.05,0.12]	0.0000	0.072	[0.04,0.11]	0.0000
Rel Deprivation	0.035	[0.02,0.05]	0.0002	0.029	[0.01,0.05]	0.0019	0.023	[0.00,0.04]	0.0157	0.053	[0.04,0.07]	0.0000	0.042	[0.03,0.06]	0.0000	0.039	[0.02,0.05]	0.0000
Rel Affluence				-0.041	[-0.06,-0.02]	0.0005	-0.137	[-0.19,-0.09]	0.0000				-0.037	[-0.06,-0.02]	0.0002	-0.103	[-0.15,-0.05]	0.0000
Gini	-0.305	[-1.50,0.89]	0.6186	-0.191	[-1.39,1.01]	0.7553	-0.636	[-1.86,0.59]	0.3079	0.639	[-2.96,4.23]	0.7276	0.685	[-2.89,4.26]	0.7070	0.406	[-3.16,3.97]	0.8238
Rel Affluence*Gini							0.537	[0.28,0.79]	0.0000						0.338	[0.11,0.56]	0.0034	
N people in HH	0.015	[0.01,0.02]	0.0000	0.015	[0.01,0.02]	0.0000	0.015	[0.01,0.02]	0.0000	0.012	[0.01,0.02]	0.0000	0.012	[0.01,0.02]	0.0000	0.012	[0.01,0.02]	0.0000
Female	0.581	[0.55,0.61]	0.0000	0.583	[0.56,0.61]	0.0000	0.583	[0.56,0.61]	0.0000	0.589	[0.56,0.62]	0.0000	0.590	[0.56,0.62]	0.0000	0.590	[0.56,0.62]	0.0000
Age	0.038	[0.03,0.04]	0.0000	0.039	[0.04,0.04]	0.0000	0.039	[0.04,0.04]	0.0000	0.039	[0.04,0.04]	0.0000	0.040	[0.04,0.04]	0.0000	0.039	[0.04,0.04]	0.0000
Age ²	-0.000	[-0.00,-0.00]	0.0000	-0.000	[-0.00,-0.00]	0.0000	-0.000	[-0.00,-0.00]	0.0000	-0.000	[-0.00,-0.00]	0.0000	-0.000	[-0.00,-0.00]	0.0000	-0.000	[-0.00,-0.00]	0.0000
Married	-0.126	[-0.15,-0.10]	0.0000	-0.124	[-0.15,-0.10]	0.0000	-0.124	[-0.14,-0.10]	0.0000	-0.123	[-0.14,-0.10]	0.0000	-0.122	[-0.14,-0.10]	0.0000	-0.121	[-0.14,-0.10]	0.0000
No education / Primary	-0.106	[-0.13,-0.08]	0.0000	-0.104	[-0.13,-0.08]	0.0000	-0.104	[-0.13,-0.08]	0.0000	-0.105	[-0.13,-0.08]	0.0000	-0.105	[-0.13,-0.08]	0.0000	-0.105	[-0.13,-0.08]	0.0000
Secondary	-0.319	[-0.35,-0.29]	0.0000	-0.311	[-0.34,-0.28]	0.0000	-0.309	[-0.34,-0.28]	0.0000	-0.327	[-0.36,-0.29]	0.0000	-0.321	[-0.35,-0.29]	0.0000	-0.321	[-0.35,-0.29]	0.0000
Not Employed	0.192	[0.15,0.24]	0.0000	0.192	[0.15,0.24]	0.0000	0.193	[0.15,0.24]	0.0000	0.215	[0.17,0.26]	0.0000	0.216	[0.17,0.26]	0.0000	0.216	[0.17,0.26]	0.0000
Retired	0.012	[-0.05,0.07]	0.6838	0.014	[-0.04,0.07]	0.6245	0.014	[-0.04,0.07]	0.6221	0.013	[-0.04,0.07]	0.6501	0.015	[-0.04,0.07]	0.6157	0.013	[-0.04,0.07]	0.6436
Student	0.146	[0.06,0.23]	0.0011	0.147	[0.06,0.23]	0.0010	0.150	[0.06,0.24]	0.0008	0.154	[0.07,0.24]	0.0005	0.155	[0.07,0.24]	0.0005	0.156	[0.07,0.24]	0.0004
House Work	-0.009	[-0.03,0.02]	0.5038	-0.010	[-0.03,0.02]	0.4572	-0.009	[-0.03,0.02]	0.4627	-0.010	[-0.04,0.01]	0.4106	-0.011	[-0.04,0.01]	0.3995	-0.011	[-0.04,0.01]	0.3967
Other Activity	0.202	[0.14,0.26]	0.0000	0.202	[0.14,0.26]	0.0000	0.203	[0.14,0.26]	0.0000	0.209	[0.15,0.27]	0.0000	0.210	[0.15,0.27]	0.0000	0.210	[0.15,0.27]	0.0000
Social Programme	-0.000	[-0.03,0.02]	0.9699	-0.002	[-0.03,0.02]	0.8502	-0.001	[-0.03,0.02]	0.9177	-0.004	[-0.03,0.02]	0.7262	-0.004	[-0.03,0.02]	0.7216	-0.003	[-0.03,0.02]	0.7851
Chronically Ill	0.320	[0.30,0.35]	0.0000	0.320	[0.30,0.35]	0.0000	0.320	[0.29,0.34]	0.0000	0.316	[0.29,0.34]	0.0000	0.316	[0.29,0.34]	0.0000	0.315	[0.29,0.34]	0.0000
Victim of Violence	0.605	[0.55,0.65]	0.0000	0.606	[0.56,0.66]	0.0000	0.607	[0.56,0.66]	0.0000	0.626	[0.58,0.68]	0.0000	0.626	[0.58,0.68]	0.0000	0.627	[0.58,0.68]	0.0000
Limitations in Activities	0.242	[0.23,0.26]	0.0000	0.242	[0.23,0.26]	0.0000	0.241	[0.23,0.26]	0.0000	0.231	[0.21,0.25]	0.0000	0.231	[0.21,0.25]	0.0000	0.230	[0.21,0.25]	0.0000
Drinks few times a year	0.060	[0.04,0.08]	0.0000	0.060	[0.04,0.08]	0.0000	0.060	[0.04,0.08]	0.0000	0.059	[0.04,0.08]	0.0000	0.059	[0.04,0.08]	0.0000	0.059	[0.04,0.08]	0.0000
Drinks few times a month	0.041	[0.01,0.07]	0.0121	0.042	[0.01,0.07]	0.0101	0.043	[0.01,0.08]	0.0078	0.041	[0.01,0.07]	0.0114	0.041	[0.01,0.07]	0.0105	0.042	[0.01,0.07]	0.0097
Drinks Weekly/Daily	0.146	[0.11,0.18]	0.0000	0.148	[0.11,0.19]	0.0000	0.149	[0.11,0.19]	0.0000	0.153	[0.11,0.19]	0.0000	0.154	[0.12,0.19]	0.0000	0.154	[0.12,0.19]	0.0000
Has Health Insurance	-0.012	[-0.04,0.01]	0.3438	-0.012	[-0.04,0.01]	0.3286	-0.013	[-0.04,0.01]	0.3063	-0.004	[-0.03,0.02]	0.7535	-0.005	[-0.03,0.02]	0.6990	-0.005	[-0.03,0.02]	0.6843
Hospitals/Pop	-0.005	[-0.02,0.01]	0.4552	-0.005	[-0.02,0.01]	0.4578	-0.005	[-0.02,0.01]	0.4377	-0.028	[-0.10,0.04]	0.4228	-0.027	[-0.09,0.04]	0.4331	-0.027	[-0.09,0.04]	0.4357
Mean Wealth	0.037	[-0.01,0.09]	0.1340	0.032	[-0.02,0.08]	0.1975	0.030	[-0.02,0.08]	0.2351	0.061	[-0.11,0.23]	0.4845	0.061	[-0.11,0.23]	0.4878	0.060	[-0.11,0.23]	0.4894
Constant	-1.676	[-2.17,-1.18]	0.0000	-1.586	[-2.08,-1.09]	0.0000	-1.460	[-1.96,-0.96]	0.0000	-1.965	[-3.65,-0.28]	0.0223	-1.908	[-3.58,-0.23]	0.0256	-1.839	[-3.51,-0.17]	0.0311
Obs	44,324			44,324			44,324			44,324			44,324			44,324		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 1 – Multilevel Poisson model for depressive symptoms

2) Alternative measures of absolute standards of living

2.a) Here we replace our absolute wealth indicator with a dichotomous variable for absolute standard of living, which identifies respondents who had to borrow, sell or pawn any of their assets to be able to pay for medical care – taken to denote a condition of (absolute) material hardship.

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)			(2)			(3)			(4)			(5)			(6)		
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Sold to pay for care	0.741	[0.44,1.04]	0.0000	0.731	[0.43,1.03]	0.0000	0.730	[0.43,1.03]	0.0000	0.762	[0.46,1.06]	0.0000	0.754	[0.45,1.05]	0.0000	0.769	[0.47,1.07]	0.0000
Pawned to pay for care	1.109	[0.88,1.34]	0.0000	1.096	[0.86,1.33]	0.0000	1.085	[0.85,1.32]	0.0000	1.110	[0.88,1.34]	0.0000	1.093	[0.86,1.33]	0.0000	1.070	[0.84,1.30]	0.0000
Borrowed to pay for care	0.981	[0.82,1.14]	0.0000	0.968	[0.81,1.13]	0.0000	0.963	[0.80,1.12]	0.0000	1.028	[0.87,1.19]	0.0000	1.024	[0.86,1.18]	0.0000	1.062	[0.90,1.22]	0.0000
Relative Deprivation	0.278	[0.23,0.33]	0.0000	0.163	[0.10,0.23]	0.0000	0.148	[0.08,0.21]	0.0000	0.264	[0.22,0.31]	0.0000	0.160	[0.10,0.22]	0.0000	0.144	[0.08,0.20]	0.0000
Relative Affluence				-0.202	[-0.27,-0.13]	0.0000	-0.497	[-0.66,-0.34]	0.0000				-0.191	[-0.26,-0.12]	0.0000	-0.513	[-0.69,-0.33]	0.0000
Gini	-0.891	[-4.18,2.39]	0.5948	-0.118	[-3.41,3.18]	0.9441	-1.991	[-5.41,1.43]	0.2538	2.413	[-3.66,8.49]	0.4362	2.724	[-2.32,7.77]	0.2901	0.967	[-2.20,4.14]	0.5498
Relative Affluence*Gini							1.884	[0.97,2.80]	0.0001							1.709	[0.82,2.60]	0.0002
Household Size	0.026	[0.00,0.05]	0.0382	0.029	[0.00,0.05]	0.0223	0.029	[0.00,0.05]	0.0200	0.020	[-0.00,0.04]	0.1154	0.024	[-0.00,0.05]	0.0559	0.029	[0.00,0.05]	0.0201
Female	1.641	[1.52,1.76]	0.0000	1.660	[1.54,1.78]	0.0000	1.661	[1.54,1.78]	0.0000	1.637	[1.52,1.75]	0.0000	1.656	[1.54,1.77]	0.0000	1.654	[1.54,1.77]	0.0000
Age	0.111	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.111	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.112	[0.10,0.13]	0.0000
Age 2	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.412	[-0.50,-0.32]	0.0000	-0.399	[-0.49,-0.31]	0.0000	-0.395	[-0.49,-0.30]	0.0000	-0.410	[-0.50,-0.32]	0.0000	-0.393	[-0.48,-0.30]	0.0000	-0.367	[-0.46,-0.27]	0.0000
No education / Primary	-0.434	[-0.55,-0.32]	0.0000	-0.410	[-0.52,-0.30]	0.0000	-0.411	[-0.52,-0.30]	0.0000	-0.454	[-0.57,-0.34]	0.0000	-0.432	[-0.54,-0.32]	0.0000	-0.445	[-0.56,-0.33]	0.0000
Secondary	-0.997	[-1.13,-0.87]	0.0000	-0.906	[-1.04,-0.77]	0.0000	-0.887	[-1.02,-0.75]	0.0000	-1.060	[-1.18,-0.94]	0.0000	-0.974	[-1.10,-0.85]	0.0000	-0.984	[-1.11,-0.86]	0.0000
Not Employed	0.559	[0.34,0.78]	0.0000	0.559	[0.34,0.78]	0.0000	0.558	[0.34,0.78]	0.0000	0.611	[0.39,0.83]	0.0000	0.613	[0.39,0.83]	0.0000	0.618	[0.40,0.84]	0.0000
Retired	-0.122	[-0.36,0.12]	0.3232	-0.105	[-0.35,0.14]	0.3968	-0.103	[-0.35,0.14]	0.4039	-0.135	[-0.38,0.11]	0.2791	-0.120	[-0.36,0.12]	0.3370	-0.145	[-0.39,0.10]	0.2449
Student	0.401	[0.08,0.73]	0.0156	0.431	[0.11,0.76]	0.0095	0.445	[0.12,0.77]	0.0073	0.407	[0.08,0.73]	0.0149	0.439	[0.11,0.77]	0.0087	0.452	[0.12,0.78]	0.0070
House Work	-0.021	[-0.14,0.10]	0.7303	-0.032	[-0.15,0.09]	0.5944	-0.032	[-0.15,0.09]	0.5916	-0.020	[-0.14,0.10]	0.7357	-0.031	[-0.15,0.09]	0.6107	-0.035	[-0.15,0.08]	0.5613
Other Act	0.505	[0.23,0.78]	0.0003	0.506	[0.23,0.78]	0.0003	0.506	[0.23,0.78]	0.0003	0.523	[0.25,0.80]	0.0002	0.524	[0.25,0.80]	0.0002	0.524	[0.25,0.80]	0.0002
Social Programme	0.044	[-0.07,0.16]	0.4629	0.018	[-0.10,0.14]	0.7671	0.026	[-0.09,0.14]	0.6665	0.074	[-0.04,0.19]	0.2020	0.050	[-0.06,0.16]	0.3868	0.068	[-0.05,0.18]	0.2382
Chronic Health Problem	1.106	[0.98,1.23]	0.0000	1.109	[0.98,1.24]	0.0000	1.106	[0.98,1.23]	0.0000	1.102	[0.97,1.23]	0.0000	1.109	[0.98,1.24]	0.0000	1.129	[1.00,1.26]	0.0000
Victim of Violence	2.348	[2.06,2.64]	0.0000	2.359	[2.07,2.65]	0.0000	2.360	[2.07,2.65]	0.0000	2.388	[2.09,2.68]	0.0000	2.399	[2.11,2.69]	0.0000	2.427	[2.13,2.72]	0.0000
Limitations in Activities	1.063	[0.97,1.16]	0.0000	1.060	[0.97,1.15]	0.0000	1.056	[0.96,1.15]	0.0000	1.047	[0.95,1.14]	0.0000	1.047	[0.95,1.14]	0.0000	1.063	[0.97,1.16]	0.0000
Drinks Yearly	0.150	[0.04,0.26]	0.0058	0.158	[0.05,0.26]	0.0036	0.157	[0.05,0.26]	0.0038	0.155	[0.05,0.26]	0.0042	0.163	[0.06,0.27]	0.0026	0.163	[0.06,0.27]	0.0026
Drinks Monthly	0.166	[0.04,0.30]	0.0122	0.180	[0.05,0.31]	0.0068	0.185	[0.06,0.32]	0.0052	0.154	[0.02,0.28]	0.0208	0.165	[0.04,0.30]	0.0129	0.163	[0.03,0.29]	0.0145
Drinks Weekly/Daily	0.391	[0.23,0.55]	0.0000	0.413	[0.25,0.57]	0.0000	0.416	[0.26,0.57]	0.0000	0.399	[0.24,0.56]	0.0000	0.417	[0.26,0.58]	0.0000	0.423	[0.26,0.58]	0.0000
Has Insurance	-0.032	[-0.14,0.08]	0.5630	-0.038	[-0.15,0.07]	0.4880	-0.042	[-0.15,0.07]	0.4481	-0.020	[-0.13,0.09]	0.7215	-0.028	[-0.14,0.08]	0.6053	-0.042	[-0.15,0.07]	0.4442
Hospitals/Pop	-0.015	[-0.05,0.02]	0.4092	-0.016	[-0.05,0.02]	0.3994	-0.017	[-0.05,0.02]	0.3563	-0.093	[-0.21,0.02]	0.1184	-0.089	[-0.19,0.01]	0.0724	-0.089	[-0.15,-0.03]	0.0033
Mean Wealth	0.005	[-0.13,0.14]	0.9436	0.026	[-0.11,0.16]	0.7010	0.016	[-0.11,0.15]	0.8058	0.155	[-0.13,0.44]	0.2938	0.168	[-0.07,0.41]	0.1701	0.160	[0.01,0.31]	0.0312
Constant	-0.008	[-1.36,1.35]	0.9910	-0.099	[-1.45,1.26]	0.8865	0.244	[-1.12,1.61]	0.7262	-1.367	[-4.22,1.48]	0.3469	-1.368	[-3.74,1.01]	0.2588	-0.967	[-2.45,0.51]	0.2002
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
Overall-R2	0.0926			0.0933			0.0936			0.0933			0.0940			0.0943		
Between-R2	0.1243			0.1242			0.1246			0.4054			0.4111			0.4399		
Within-R2	0.0910			0.0916			0.0919			0.0916			0.0922			0.0924		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 2 – Multilevel linear regression models with an alternative absolute standards of living variable

2.b) In this additional robustness check for an alternative measure of absolute standards of living, we estimate our models using a continuous measure of absolute wealth – specifically, using the computed PCA asset index in its continuous form rather than using quartiles derived from it.

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)			(2)			(3)			(4)			(5)			(6)		
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Asset index	-0.060	[-0.10,-0.02]	0.0063	-0.045	[-0.09,-0.00]	0.0446	-0.051	[-0.09,-0.01]	0.0230	-0.070	[-0.11,-0.03]	0.0010	-0.057	[-0.10,-0.01]	0.0078	-0.061	[-0.10,-0.02]	0.0046
Rel Deprivation	0.264	[0.21,0.32]	0.0000	0.147	[0.08,0.21]	0.0000	0.128	[0.06,0.20]	0.0002	0.248	[0.20,0.30]	0.0000	0.145	[0.08,0.21]	0.0000	0.134	[0.07,0.20]	0.0000
Rel Affluence				-0.218	[-0.29,-0.14]	0.0000	-0.554	[-0.71,-0.39]	0.0000				-0.203	[-0.27,-0.13]	0.0000	-0.533	[-0.71,-0.35]	0.0000
Gini	-0.858	[-4.23,2.51]	0.6176	-0.023	[-3.40,3.36]	0.9895	-2.174	[-5.68,1.33]	0.2238	2.117	[-5.00,9.23]	0.5600	2.479	[-4.31,9.27]	0.4741	0.791	[-5.44,7.02]	0.8034
Rel Affluence*Gini							2.157	[1.24,3.08]	0.0000							1.777	[0.88,2.67]	0.0001
N people in HH	0.002	[-0.03,0.04]	0.8902	0.014	[-0.02,0.05]	0.4309	0.011	[-0.02,0.05]	0.5324	-0.010	[-0.04,0.02]	0.5505	0.001	[-0.03,0.04]	0.9696	-0.001	[-0.04,0.03]	0.9420
Female	1.642	[1.53,1.76]	0.0000	1.664	[1.55,1.78]	0.0000	1.664	[1.55,1.78]	0.0000	1.645	[1.53,1.76]	0.0000	1.664	[1.55,1.78]	0.0000	1.662	[1.55,1.78]	0.0000
Age	0.111	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.112	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.437	[-0.53,-0.34]	0.0000	-0.417	[-0.51,-0.32]	0.0000	-0.414	[-0.51,-0.32]	0.0000	-0.438	[-0.53,-0.34]	0.0000	-0.419	[-0.51,-0.33]	0.0000	-0.416	[-0.51,-0.32]	0.0000
No education / Primary	-0.413	[-0.53,-0.30]	0.0000	-0.388	[-0.50,-0.27]	0.0000	-0.390	[-0.50,-0.28]	0.0000	-0.426	[-0.54,-0.31]	0.0000	-0.403	[-0.52,-0.29]	0.0000	-0.408	[-0.52,-0.30]	0.0000
Secondary	-0.995	[-1.12,-0.87]	0.0000	-0.900	[-1.03,-0.77]	0.0000	-0.877	[-1.01,-0.74]	0.0000	-1.045	[-1.17,-0.92]	0.0000	-0.956	[-1.09,-0.83]	0.0000	-0.950	[-1.08,-0.82]	0.0000
Not Employed	0.584	[0.37,0.80]	0.0000	0.584	[0.37,0.80]	0.0000	0.583	[0.36,0.80]	0.0000	0.639	[0.42,0.86]	0.0000	0.640	[0.42,0.86]	0.0000	0.638	[0.42,0.86]	0.0000
Retired	-0.120	[-0.36,0.12]	0.3325	-0.105	[-0.35,0.14]	0.3971	-0.102	[-0.35,0.14]	0.4113	-0.128	[-0.37,0.12]	0.3077	-0.112	[-0.36,0.13]	0.3696	-0.119	[-0.36,0.13]	0.3405
Student	0.390	[0.06,0.72]	0.0191	0.423	[0.10,0.75]	0.0110	0.439	[0.11,0.77]	0.0083	0.398	[0.07,0.73]	0.0177	0.431	[0.10,0.76]	0.0101	0.436	[0.11,0.77]	0.0093
House Work	-0.020	[-0.14,0.10]	0.7357	-0.032	[-0.15,0.09]	0.5931	-0.033	[-0.15,0.09]	0.5894	-0.022	[-0.14,0.10]	0.7120	-0.032	[-0.15,0.09]	0.5967	-0.033	[-0.15,0.09]	0.5862
Other Activity	0.509	[0.23,0.78]	0.0003	0.512	[0.24,0.79]	0.0003	0.512	[0.24,0.79]	0.0003	0.525	[0.25,0.80]	0.0002	0.528	[0.25,0.80]	0.0002	0.527	[0.25,0.80]	0.0002
Social Programme	0.035	[-0.08,0.15]	0.5554	0.008	[-0.11,0.13]	0.8883	0.017	[-0.10,0.14]	0.7714	0.055	[-0.06,0.17]	0.3471	0.032	[-0.08,0.15]	0.5868	0.041	[-0.07,0.16]	0.4827
Chronically Ill	1.188	[1.06,1.32]	0.0000	1.189	[1.06,1.32]	0.0000	1.185	[1.06,1.31]	0.0000	1.186	[1.06,1.31]	0.0000	1.188	[1.06,1.32]	0.0000	1.185	[1.06,1.31]	0.0000
Victim of Violence	2.380	[2.09,2.67]	0.0000	2.391	[2.10,2.68]	0.0000	2.393	[2.10,2.68]	0.0000	2.422	[2.13,2.72]	0.0000	2.429	[2.13,2.72]	0.0000	2.436	[2.14,2.73]	0.0000
Limitations in Activities	1.107	[1.01,1.20]	0.0000	1.103	[1.01,1.20]	0.0000	1.099	[1.01,1.19]	0.0000	1.092	[1.00,1.19]	0.0000	1.088	[0.99,1.18]	0.0000	1.086	[0.99,1.18]	0.0000
Drinks few times a year	0.167	[0.06,0.27]	0.0022	0.175	[0.07,0.28]	0.0013	0.174	[0.07,0.28]	0.0014	0.174	[0.07,0.28]	0.0014	0.182	[0.08,0.29]	0.0008	0.181	[0.07,0.29]	0.0009
Drinks few times a month	0.171	[0.04,0.30]	0.0102	0.185	[0.05,0.32]	0.0054	0.192	[0.06,0.32]	0.0040	0.163	[0.03,0.29]	0.0144	0.176	[0.04,0.31]	0.0084	0.179	[0.05,0.31]	0.0074
Drinks Weekly/Daily	0.389	[0.23,0.55]	0.0000	0.411	[0.25,0.57]	0.0000	0.415	[0.26,0.57]	0.0000	0.400	[0.24,0.56]	0.0000	0.418	[0.26,0.58]	0.0000	0.421	[0.26,0.58]	0.0000
Has Health Insurance	-0.034	[-0.14,0.07]	0.5415	-0.040	[-0.15,0.07]	0.4703	-0.044	[-0.15,0.06]	0.4234	-0.020	[-0.13,0.09]	0.7119	-0.027	[-0.14,0.08]	0.6211	-0.030	[-0.14,0.08]	0.5820
Hospitals/Pop	-0.015	[-0.05,0.02]	0.4177	-0.016	[-0.05,0.02]	0.4088	-0.017	[-0.05,0.02]	0.3601	-0.086	[-0.22,0.05]	0.2209	-0.082	[-0.21,0.05]	0.2191	-0.083	[-0.20,0.04]	0.1699
Mean Wealth	0.017	[-0.12,0.15]	0.8038	0.036	[-0.10,0.17]	0.6041	0.026	[-0.11,0.16]	0.7006	0.144	[-0.20,0.48]	0.4058	0.156	[-0.17,0.48]	0.3425	0.153	[-0.14,0.45]	0.3070
Constant	0.276	[-1.12,1.67]	0.6978	0.131	[-1.26,1.52]	0.8542	0.540	[-0.86,1.95]	0.4508	-0.863	[-4.19,2.47]	0.6118	-0.921	[-4.10,2.26]	0.5699	-0.564	[-3.46,2.34]	0.7030
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
Overall-R2	0.0863			0.0871			0.0875			0.0869			0.0877			0.0880		
Between-R2	0.0914			0.0902			0.0908			0.3129			0.3176			0.3294		
Within-R2	0.0854			0.0861			0.0866			0.0856			0.0862			0.0865		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 6 – Multilevel models for depressive symptoms using a continuous measure of absolute wealth

3) Alternative measures of relative deprivation and relative affluence

We use alternative measures of relative deprivation and relative affluence, based on non-linear indices as well as more refined reference groups (municipality + gender and municipality + employment status).

3.a) Measures of relative deprivation and relative affluence based on Municipality + Gender reference groups

	MUNICIPAL LEVEL						STATE LEVEL											
	Beta	(1) 95% CI	P-Value	Beta	(2) 95% CI	P-Value	Beta	(3) 95% CI	P-Value	Beta	(4) 95% CI	P-Value	Beta	(5) 95% CI	P-Value	Beta	(6) 95% CI	P-Value
Poorest Quartile	0.688	[0.43,0.94]	0.0000	0.526	[0.23,0.82]	0.0006	0.485	[0.18,0.79]	0.0016	0.566	[0.37,0.76]	0.0000	0.464	[0.25,0.68]	0.0000	0.445	[0.24,0.66]	0.0000
2 nd Quartile	0.655	[0.48,0.82]	0.0000	0.528	[0.32,0.74]	0.0000	0.435	[0.22,0.65]	0.0001	0.622	[0.47,0.77]	0.0000	0.527	[0.36,0.69]	0.0000	0.470	[0.30,0.64]	0.0000
3 rd Quartile	0.360	[0.23,0.49]	0.0000	0.272	[0.12,0.43]	0.0007	0.189	[0.02,0.35]	0.0249	0.353	[0.23,0.48]	0.0000	0.280	[0.14,0.42]	0.0001	0.232	[0.09,0.38]	0.0017
Rel Deprivation	0.133	[0.05,0.21]	0.0013	0.116	[0.03,0.20]	0.0059	0.095	[0.01,0.18]	0.0268	0.162	[0.10,0.23]	0.0000	0.131	[0.06,0.20]	0.0002	0.113	[0.04,0.18]	0.0014
Rel Affluence				-0.095	[-0.19,-0.00]	0.0396	-0.373	[-0.57,-0.18]	0.0002				-0.094	[-0.17,-0.01]	0.0208	-0.381	[-0.58,-0.18]	0.0002
Gini	-0.741	[-4.10,2.62]	0.6659	-0.438	[-3.81,2.94]	0.7991	-1.910	[-5.41,1.59]	0.2850	2.279	[-4.60,9.16]	0.5162	2.361	[-3.76,8.48]	0.4493	0.941	[-3.08,4.96]	0.6467
Rel Affluence*Gini							1.632	[0.60,2.66]	0.0019							1.453	[0.51,2.40]	0.0025
N people in HH	0.038	[0.01,0.06]	0.0025	0.039	[0.01,0.06]	0.0020	0.039	[0.01,0.06]	0.0019	0.031	[0.01,0.06]	0.0147	0.032	[0.01,0.06]	0.0102	0.036	[0.01,0.06]	0.0049
Female	1.662	[1.55,1.78]	0.0000	1.663	[1.55,1.78]	0.0000	1.661	[1.54,1.78]	0.0000	1.679	[1.56,1.80]	0.0000	1.678	[1.56,1.79]	0.0000	1.675	[1.56,1.79]	0.0000
Age	0.112	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.397	[-0.49,-0.31]	0.0000	-0.394	[-0.49,-0.30]	0.0000	-0.392	[-0.48,-0.30]	0.0000	-0.395	[-0.49,-0.30]	0.0000	-0.389	[-0.48,-0.30]	0.0000	-0.373	[-0.46,-0.28]	0.0000
No education / Primary	-0.385	[-0.50,-0.27]	0.0000	-0.381	[-0.49,-0.27]	0.0000	-0.382	[-0.50,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.389	[-0.50,-0.28]	0.0000
Secondary	-0.889	[-1.02,-0.76]	0.0000	-0.872	[-1.01,-0.74]	0.0000	-0.866	[-1.00,-0.73]	0.0000	-0.904	[-1.04,-0.77]	0.0000	-0.893	[-1.03,-0.76]	0.0000	-0.905	[-1.04,-0.77]	0.0000
Not Employed	0.580	[0.36,0.80]	0.0000	0.582	[0.36,0.80]	0.0000	0.582	[0.36,0.80]	0.0000	0.631	[0.41,0.85]	0.0000	0.635	[0.42,0.85]	0.0000	0.639	[0.42,0.86]	0.0000
Retired	-0.118	[-0.36,0.13]	0.3412	-0.114	[-0.36,0.13]	0.3593	-0.113	[-0.36,0.13]	0.3609	-0.114	[-0.36,0.13]	0.3599	-0.113	[-0.36,0.13]	0.3647	-0.130	[-0.37,0.12]	0.2996
Student	0.433	[0.11,0.76]	0.0093	0.438	[0.11,0.76]	0.0085	0.446	[0.12,0.77]	0.0074	0.453	[0.12,0.78]	0.0069	0.458	[0.13,0.79]	0.0063	0.465	[0.14,0.79]	0.0057
House Work	-0.034	[-0.15,0.09]	0.5761	-0.037	[-0.16,0.08]	0.5476	-0.036	[-0.15,0.08]	0.5559	-0.043	[-0.16,0.08]	0.4800	-0.044	[-0.16,0.08]	0.4660	-0.046	[-0.17,0.07]	0.4486
Other Activity	0.512	[0.24,0.79]	0.0003	0.514	[0.24,0.79]	0.0002	0.514	[0.24,0.79]	0.0002	0.523	[0.25,0.80]	0.0002	0.526	[0.25,0.80]	0.0002	0.525	[0.25,0.80]	0.0002
Social Programme	0.005	[-0.11,0.12]	0.9360	0.000	[-0.12,0.12]	0.9935	0.006	[-0.11,0.12]	0.9180	0.003	[-0.11,0.12]	0.9661	0.003	[-0.11,0.12]	0.9605	0.014	[-0.10,0.13]	0.8136
Chronically Ill	1.185	[1.06,1.31]	0.0000	1.186	[1.06,1.31]	0.0000	1.184	[1.06,1.31]	0.0000	1.185	[1.06,1.31]	0.0000	1.188	[1.06,1.32]	0.0000	1.200	[1.07,1.33]	0.0000
Victim of Violence	2.385	[2.09,2.68]	0.0000	2.388	[2.10,2.68]	0.0000	2.390	[2.10,2.68]	0.0000	2.435	[2.14,2.73]	0.0000	2.438	[2.14,2.73]	0.0000	2.455	[2.16,2.75]	0.0000
Limitations in Activities	1.099	[1.01,1.19]	0.0000	1.099	[1.00,1.19]	0.0000	1.097	[1.00,1.19]	0.0000	1.084	[0.99,1.18]	0.0000	1.084	[0.99,1.18]	0.0000	1.094	[1.00,1.19]	0.0000
Drinks few times a year	0.178	[0.07,0.28]	0.0011	0.180	[0.07,0.29]	0.0010	0.178	[0.07,0.29]	0.0010	0.190	[0.08,0.30]	0.0005	0.191	[0.08,0.30]	0.0005	0.191	[0.08,0.30]	0.0005
Drinks few times a month	0.188	[0.06,0.32]	0.0048	0.190	[0.06,0.32]	0.0042	0.193	[0.06,0.32]	0.0037	0.187	[0.06,0.32]	0.0052	0.188	[0.06,0.32]	0.0050	0.186	[0.06,0.32]	0.0054
Drinks Weekly/Daily	0.404	[0.25,0.56]	0.0000	0.410	[0.25,0.57]	0.0000	0.413	[0.25,0.57]	0.0000	0.423	[0.26,0.58]	0.0000	0.428	[0.27,0.59]	0.0000	0.432	[0.27,0.59]	0.0000
Has Health Insurance	-0.042	[-0.15,0.07]	0.4439	-0.043	[-0.15,0.06]	0.4351	-0.045	[-0.15,0.06]	0.4096	-0.030	[-0.14,0.08]	0.5923	-0.032	[-0.14,0.08]	0.5592	-0.041	[-0.15,0.07]	0.4543
Hospitals/Pop	-0.018	[-0.06,0.02]	0.3537	-0.018	[-0.06,0.02]	0.3542	-0.019	[-0.06,0.02]	0.3310	-0.091	[-0.22,0.04]	0.1780	-0.089	[-0.21,0.03]	0.1387	-0.088	[-0.16,-0.01]	0.0239
Mean Wealth	0.078	[-0.06,0.22]	0.2713	0.068	[-0.07,0.21]	0.3364	0.064	[-0.07,0.20]	0.3643	0.179	[-0.15,0.51]	0.2854	0.175	[-0.12,0.47]	0.2400	0.170	[-0.02,0.36]	0.0768
Constant	-0.847	[-2.27,0.58]	0.2450	-0.658	[-2.10,0.78]	0.3701	-0.316	[-1.77,1.14]	0.6706	-1.883	[-5.11,1.35]	0.2533	-1.718	[-4.60,1.16]	0.2428	-1.349	[-3.25,0.55]	0.1635
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
Overall-R2	0.0875			0.0876			0.0878			0.0880			0.0882			0.0884		
Between-R2	0.0925			0.0931			0.0930			0.3154			0.3248			0.3471		
Within-R2	0.0864			0.0865			0.0867			0.0867			0.0868			0.0869		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 3.a – Multilevel linear regression models with Municipality + Gender reference groups

3.b) Measures of relative deprivation and relative affluence based on Municipality + Employment status reference groups

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)	(2)	(3)	(4)	(5)	(6)												
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Poorest Quartile	0.685	[0.43,0.94]	0.0000	0.503	[0.20,0.80]	0.0010	0.464	[0.16,0.76]	0.0024	0.563	[0.37,0.76]	0.0000	0.452	[0.24,0.66]	0.0000	0.434	[0.22,0.64]	0.0001
2nd Quartile	0.652	[0.48,0.82]	0.0000	0.511	[0.30,0.72]	0.0000	0.423	[0.21,0.64]	0.0001	0.619	[0.47,0.77]	0.0000	0.517	[0.35,0.68]	0.0000	0.466	[0.30,0.64]	0.0000
3rd Quartile	0.359	[0.23,0.49]	0.0000	0.261	[0.10,0.42]	0.0011	0.183	[0.02,0.35]	0.0302	0.352	[0.22,0.48]	0.0000	0.273	[0.13,0.41]	0.0002	0.230	[0.09,0.37]	0.0018
Rel Deprivation	0.133	[0.05,0.21]	0.0011	0.115	[0.03,0.20]	0.0061	0.095	[0.01,0.18]	0.0249	0.163	[0.10,0.23]	0.0000	0.129	[0.06,0.20]	0.0002	0.112	[0.04,0.18]	0.0014
Rel Affluence				-0.107	[-0.20,-0.02]	0.0213	-0.368	[-0.57,-0.17]	0.0003				-0.102	[-0.18,-0.02]	0.0125	-0.351	[-0.55,-0.15]	0.0005
Gini	-0.748	[-4.11,2.61]	0.6627	-0.409	[-3.78,2.96]	0.8120	-1.786	[-5.29,1.71]	0.3172	2.282	[-4.65,9.22]	0.5189	2.382	[-4.22,8.98]	0.4794	1.139	[-2.84,5.12]	0.5746
Rel Affluence*Gini							1.535	[0.50,2.57]	0.0037						1.247	[0.30,2.19]	0.0097	
N people in HH	0.038	[0.01,0.06]	0.0024	0.039	[0.01,0.06]	0.0019	0.039	[0.01,0.06]	0.0018	0.031	[0.01,0.06]	0.0142	0.032	[0.01,0.06]	0.0103	0.036	[0.01,0.06]	0.0044
Female	1.664	[1.55,1.78]	0.0000	1.668	[1.55,1.79]	0.0000	1.668	[1.55,1.79]	0.0000	1.681	[1.56,1.80]	0.0000	1.683	[1.57,1.80]	0.0000	1.681	[1.56,1.80]	0.0000
Age	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.397	[-0.49,-0.31]	0.0000	-0.394	[-0.49,-0.30]	0.0000	-0.392	[-0.48,-0.30]	0.0000	-0.395	[-0.49,-0.30]	0.0000	-0.399	[-0.48,-0.30]	0.0000	-0.372	[-0.46,-0.28]	0.0000
No education / Primary	-0.384	[-0.50,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.382	[-0.49,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.379	[-0.49,-0.27]	0.0000	-0.388	[-0.50,-0.27]	0.0000
Secondary	-0.887	[-1.02,-0.75]	0.0000	-0.869	[-1.00,-0.74]	0.0000	-0.864	[-1.00,-0.73]	0.0000	-0.903	[-1.04,-0.77]	0.0000	-0.890	[-1.02,-0.76]	0.0000	-0.904	[-1.04,-0.77]	0.0000
Not Employed	0.593	[0.37,0.81]	0.0000	0.598	[0.38,0.82]	0.0000	0.597	[0.38,0.82]	0.0000	0.647	[0.43,0.87]	0.0000	0.651	[0.43,0.87]	0.0000	0.656	[0.44,0.88]	0.0000
Retired	-0.108	[-0.35,0.14]	0.3854	-0.098	[-0.34,0.15]	0.4312	-0.097	[-0.34,0.15]	0.4359	-0.102	[-0.35,0.14]	0.4141	-0.096	[-0.34,0.15]	0.4429	-0.113	[-0.36,0.13]	0.3661
Student	0.443	[0.12,0.77]	0.0079	0.455	[0.13,0.78]	0.0064	0.464	[0.14,0.79]	0.0054	0.465	[0.14,0.79]	0.0056	0.475	[0.15,0.80]	0.0047	0.482	[0.15,0.81]	0.0041
House Work	-0.022	[-0.14,0.10]	0.7134	-0.021	[-0.14,0.10]	0.7325	-0.021	[-0.14,0.10]	0.7350	-0.029	[-0.15,0.09]	0.6341	-0.028	[-0.15,0.09]	0.6519	-0.030	[-0.15,0.09]	0.6247
Other Activity	0.522	[0.25,0.80]	0.0002	0.526	[0.25,0.80]	0.0002	0.526	[0.25,0.80]	0.0002	0.535	[0.26,0.81]	0.0001	0.539	[0.26,0.81]	0.0001	0.538	[0.26,0.81]	0.0001
Social Programme	0.007	[-0.11,0.12]	0.9087	0.002	[-0.12,0.12]	0.9799	0.005	[-0.11,0.12]	0.9282	0.005	[-0.11,0.12]	0.9341	0.004	[-0.11,0.12]	0.9462	0.014	[-0.10,0.13]	0.8124
Chronically Ill	1.185	[1.06,1.31]	0.0000	1.187	[1.06,1.31]	0.0000	1.184	[1.06,1.31]	0.0000	1.185	[1.06,1.31]	0.0000	1.186	[1.06,1.32]	0.0000	1.201	[1.07,1.33]	0.0000
Victim of Violence	2.384	[2.09,2.68]	0.0000	2.388	[2.10,2.68]	0.0000	2.389	[2.10,2.68]	0.0000	2.434	[2.14,2.73]	0.0000	2.435	[2.14,2.73]	0.0000	2.454	[2.16,2.75]	0.0000
Limitations in Activities	1.100	[1.01,1.19]	0.0000	1.099	[1.00,1.19]	0.0000	1.097	[1.00,1.19]	0.0000	1.084	[0.99,1.18]	0.0000	1.083	[0.99,1.18]	0.0000	1.095	[1.00,1.19]	0.0000
Drinks few times a year	0.177	[0.07,0.28]	0.0011	0.179	[0.07,0.29]	0.0010	0.178	[0.07,0.28]	0.0011	0.189	[0.08,0.30]	0.0005	0.190	[0.08,0.30]	0.0005	0.190	[0.08,0.30]	0.0005
Drinks few times a month	0.187	[0.06,0.32]	0.0049	0.190	[0.06,0.32]	0.0043	0.192	[0.06,0.32]	0.0039	0.186	[0.06,0.32]	0.0053	0.187	[0.06,0.32]	0.0051	0.185	[0.05,0.32]	0.0057
Drinks Weekly/Daily	0.403	[0.24,0.56]	0.0000	0.410	[0.25,0.57]	0.0000	0.411	[0.25,0.57]	0.0000	0.423	[0.26,0.58]	0.0000	0.427	[0.27,0.59]	0.0000	0.430	[0.27,0.59]	0.0000
Has Health Insurance	-0.041	[-0.15,0.07]	0.4528	-0.043	[-0.15,0.07]	0.4378	-0.045	[-0.15,0.06]	0.4097	-0.029	[-0.14,0.08]	0.6050	-0.031	[-0.14,0.08]	0.5721	-0.041	[-0.15,0.07]	0.4551
Hospitals/Pop	-0.018	[-0.06,0.02]	0.3501	-0.018	[-0.06,0.02]	0.3517	-0.019	[-0.06,0.02]	0.3315	-0.092	[-0.23,0.04]	0.1789	-0.090	[-0.22,0.04]	0.1683	-0.088	[-0.16,-0.01]	0.0223
Mean Wealth	0.078	[-0.06,0.22]	0.2734	0.067	[-0.07,0.21]	0.3454	0.063	[-0.08,0.20]	0.3727	0.179	[-0.15,0.51]	0.2896	0.175	[-0.14,0.49]	0.2759	0.170	[-0.02,0.36]	0.0737
Constant	-0.851	[-2.28,0.57]	0.2420	-0.645	[-2.08,0.79]	0.3788	-0.324	[-1.78,1.13]	0.6619	-1.891	[-5.15,1.36]	0.2548	-1.722	[-4.83,1.38]	0.2770	-1.388	[-3.26,0.49]	0.1472
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
Overall-R2	0.0875			0.0876			0.0878			0.0880			0.0882			0.0884		
Between-R2	0.0927			0.0931			0.0932			0.3135			0.3235			0.3458		
Within-R2	0.0864			0.0865			0.0867			0.0867			0.0868			0.0869		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 3.b – Multilevel linear regression models with Municipality + Employment status reference groups

3.c) Measures of relative deprivation and relative affluence based on non-linear (concave) relative deprivation index

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)			(2)			(3)			(4)			(5)			(6)		
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Poorest Quartile	0.662	[0.39,0.93]	0.0000	0.550	[0.25,0.85]	0.0004	0.473	[0.17,0.78]	0.0025	0.509	[0.30,0.72]	0.0000	0.434	[0.21,0.66]	0.0001	0.412	[0.19,0.63]	0.0003
2nd Quartile	0.643	[0.47,0.82]	0.0000	0.546	[0.34,0.76]	0.0000	0.425	[0.20,0.65]	0.0002	0.596	[0.44,0.75]	0.0000	0.512	[0.34,0.68]	0.0000	0.451	[0.28,0.62]	0.0000
3rd Quartile	0.355	[0.22,0.49]	0.0000	0.285	[0.13,0.44]	0.0004	0.183	[0.01,0.35]	0.0331	0.342	[0.21,0.47]	0.0000	0.271	[0.13,0.41]	0.0002	0.221	[0.08,0.37]	0.0029
Rel Deprivation	0.584	[0.22,0.95]	0.0016	0.473	[0.09,0.86]	0.0161	0.405	[0.02,0.79]	0.0402	0.735	[0.43,1.04]	0.0000	0.544	[0.20,0.89]	0.0020	0.474	[0.13,0.82]	0.0071
Rel Affluence				-0.082	[-0.18,0.01]	0.0971	-0.385	[-0.59,-0.18]	0.0002				-0.097	[-0.18,-0.01]	0.0234	-0.389	[-0.59,-0.19]	0.0001
Gini	-0.627	[-3.99,2.73]	0.7145	-0.343	[-3.72,3.04]	0.8424	-1.988	[-5.50,1.53]	0.2677	2.333	[-4.60,9.26]	0.5096	2.479	[-4.97,9.93]	0.5145	0.975	[-2.92,4.87]	0.6238
Rel Affluence*Gini							1.735	[0.73,2.74]	0.0008						1.472	[0.55,2.40]	0.0018	
N people in HH	0.038	[0.01,0.06]	0.0023	0.039	[0.01,0.06]	0.0021	0.039	[0.01,0.06]	0.0018	0.031	[0.01,0.06]	0.0143	0.032	[0.01,0.06]	0.0121	0.036	[0.01,0.06]	0.0044
Female	1.665	[1.55,1.78]	0.0000	1.668	[1.55,1.78]	0.0000	1.668	[1.55,1.79]	0.0000	1.684	[1.57,1.80]	0.0000	1.685	[1.57,1.80]	0.0000	1.683	[1.57,1.80]	0.0000
Age	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.115	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.396	[-0.49,-0.30]	0.0000	-0.395	[-0.49,-0.30]	0.0000	-0.391	[-0.48,-0.30]	0.0000	-0.395	[-0.49,-0.30]	0.0000	-0.393	[-0.49,-0.30]	0.0000	-0.371	[-0.46,-0.28]	0.0000
No education / Primary	-0.384	[-0.50,-0.27]	0.0000	-0.381	[-0.49,-0.27]	0.0000	-0.382	[-0.50,-0.27]	0.0000	-0.376	[-0.49,-0.26]	0.0000	-0.375	[-0.49,-0.26]	0.0000	-0.387	[-0.50,-0.27]	0.0000
Secondary	-0.887	[-1.02,-0.75]	0.0000	-0.873	[-1.01,-0.74]	0.0000	-0.865	[-1.00,-0.73]	0.0000	-0.899	[-1.03,-0.77]	0.0000	-0.885	[-1.02,-0.75]	0.0000	-0.902	[-1.03,-0.77]	0.0000
Not Employed	0.580	[0.36,0.80]	0.0000	0.581	[0.36,0.80]	0.0000	0.581	[0.36,0.80]	0.0000	0.632	[0.41,0.85]	0.0000	0.634	[0.41,0.85]	0.0000	0.639	[0.42,0.86]	0.0000
Retired	-0.116	[-0.36,0.13]	0.3493	-0.113	[-0.36,0.13]	0.3617	-0.112	[-0.36,0.13]	0.3667	-0.111	[-0.36,0.13]	0.3748	-0.108	[-0.35,0.14]	0.3878	-0.129	[-0.37,0.12]	0.3012
Student	0.434	[0.11,0.76]	0.0091	0.438	[0.11,0.76]	0.0085	0.448	[0.12,0.77]	0.0071	0.456	[0.13,0.78]	0.0066	0.459	[0.13,0.79]	0.0062	0.468	[0.14,0.80]	0.0054
House Work	-0.034	[-0.15,0.09]	0.5778	-0.036	[-0.15,0.08]	0.5536	-0.035	[-0.15,0.08]	0.5606	-0.044	[-0.16,0.08]	0.4730	-0.045	[-0.16,0.07]	0.4632	-0.047	[-0.17,0.07]	0.4377
Other Activity	0.511	[0.24,0.79]	0.0003	0.512	[0.24,0.79]	0.0003	0.513	[0.24,0.79]	0.0002	0.520	[0.24,0.80]	0.0002	0.523	[0.25,0.80]	0.0002	0.523	[0.25,0.80]	0.0002
Social Programme	0.005	[-0.11,0.12]	0.9360	0.001	[-0.12,0.12]	0.9871	0.006	[-0.11,0.12]	0.9212	-0.002	[-0.12,0.12]	0.9768	-0.003	[-0.12,0.11]	0.9621	0.011	[-0.11,0.13]	0.8485
Chronically Ill	1.186	[1.06,1.31]	0.0000	1.186	[1.06,1.31]	0.0000	1.183	[1.06,1.31]	0.0000	1.186	[1.06,1.31]	0.0000	1.185	[1.06,1.31]	0.0000	1.202	[1.07,1.33]	0.0000
Victim of Violence	2.387	[2.09,2.68]	0.0000	2.390	[2.10,2.68]	0.0000	2.391	[2.10,2.68]	0.0000	2.438	[2.14,2.73]	0.0000	2.438	[2.14,2.73]	0.0000	2.459	[2.16,2.75]	0.0000
Limitations in Activities	1.100	[1.01,1.19]	0.0000	1.100	[1.01,1.19]	0.0000	1.098	[1.00,1.19]	0.0000	1.085	[0.99,1.18]	0.0000	1.083	[0.99,1.18]	0.0000	1.097	[1.00,1.19]	0.0000
Drinks few times a year	0.179	[0.07,0.29]	0.0010	0.180	[0.07,0.29]	0.0010	0.178	[0.07,0.29]	0.0010	0.192	[0.09,0.30]	0.0004	0.192	[0.09,0.30]	0.0004	0.191	[0.08,0.30]	0.0004
Drinks few times a month	0.188	[0.06,0.32]	0.0047	0.190	[0.06,0.32]	0.0043	0.193	[0.06,0.32]	0.0037	0.188	[0.06,0.32]	0.0049	0.189	[0.06,0.32]	0.0046	0.186	[0.06,0.32]	0.0053
Drinks Weekly/Daily	0.405	[0.25,0.56]	0.0000	0.410	[0.25,0.57]	0.0000	0.412	[0.25,0.57]	0.0000	0.426	[0.27,0.58]	0.0000	0.428	[0.27,0.59]	0.0000	0.433	[0.27,0.59]	0.0000
Has Health Insurance	-0.043	[-0.15,0.07]	0.4366	-0.044	[-0.15,0.06]	0.4236	-0.046	[-0.15,0.06]	0.4012	-0.031	[-0.14,0.08]	0.5777	-0.032	[-0.14,0.08]	0.5591	-0.043	[-0.15,0.07]	0.4350
Hospitals/Pop	-0.018	[-0.06,0.02]	0.3524	-0.018	[-0.05,0.02]	0.3574	-0.018	[-0.06,0.02]	0.3381	-0.090	[-0.22,0.04]	0.1897	-0.087	[-0.23,0.06]	0.2337	-0.086	[-0.16,-0.01]	0.0224
Mean Wealth	0.091	[-0.05,0.23]	0.1935	0.085	[-0.05,0.22]	0.2245	0.074	[-0.06,0.21]	0.2896	0.187	[-0.14,0.52]	0.2675	0.186	[-0.17,0.54]	0.3040	0.179	[-0.00,0.36]	0.0535
Constant	-0.971	[-2.39,0.45]	0.1791	-0.821	[-2.25,0.61]	0.2601	-0.386	[-1.84,1.07]	0.6025	-1.969	[-5.22,1.28]	0.2357	-1.821	[-5.32,1.67]	0.3070	-1.418	[-3.26,0.42]	0.1304
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
Overall-R2	0.0874			0.0875			0.0878			0.0880			0.0881			0.0884		
Between-R2	0.0912			0.0921			0.0918			0.3145			0.3180			0.3401		
Within-R2	0.0864			0.0865			0.0867			0.0866			0.0867			0.0869		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 3.c – Multilevel linear regression models with a concave relative deprivation index

5) Stepwise regressions results, showing the stability of signs and significance levels of our variables of interest across all alternative combinations.

Note: given the large number of regressions, the table below is presented in a reduced format (*, ** and *** indicate significance at 0.05, 0.01 and 0.001 levels, respectively).

MUNICIPAL LEVEL

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Poorest Quartile	1.015***				0.682***	0.748***	1.015***				0.503**	0.681***	0.748***		0.455**
2 nd Quartile	0.820***				0.653***	0.627***	0.820***				0.515***	0.652***	0.627***		0.413***
3 rd Quartile	0.432***				0.360***	0.305***	0.432***				0.265**	0.360***	0.306***		0.175*
Rel Deprivation		0.294***			0.134**			0.164***	0.294***		0.119**	0.135**		0.164***	0.095*
Rel Affluence			-0.344***			-0.122**		-0.227***		-0.345***	-0.099*		-0.122**	-0.227***	-0.385***
Gini				0.139			-0.482		-0.838	0.797		-0.707	-0.099	0.026	-1.904
Rel Affluence*Gini															1.641**
N people in HH	0.036**	0.037**	0.036**	0.021	0.038**	0.037**	0.036**	0.040**	0.037**	0.036**	0.039**	0.038**	0.037**	0.040**	0.039**
Female	1.661***	1.643***	1.656***	1.582***	1.664***	1.667***	1.661***	1.665***	1.643***	1.656***	1.668***	1.664***	1.667***	1.665***	1.669***
Age	0.111***	0.110***	0.111***	0.101***	0.113***	0.112***	0.111***	0.113***	0.110***	0.111***	0.113***	0.113***	0.112***	0.113***	0.113***
Age ²	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***
Married	-0.405***	-0.412***	-0.413***	-0.481***	-0.397***	-0.400***	-0.405***	-0.397***	-0.412***	-0.413***	-0.394***	-0.397***	-0.400***	-0.397***	-0.391***
No education / Primary	-0.392***	-0.416***	-0.412***	-0.528***	-0.385***	-0.385***	-0.392***	-0.389***	-0.415***	-0.412***	-0.380***	-0.384***	-0.385***	-0.389***	-0.381***
Secondary	-0.905***	-1.009***	-0.932***	-1.254***	-0.890***	-0.879***	-0.904***	-0.905***	-1.007***	-0.933***	-0.871***	-0.888***	-0.879***	-0.905***	-0.863***
Not Employed	0.583***	0.587***	0.595***	0.612***	0.579***	0.584***	0.583***	0.587***	0.587***	0.595***	0.581***	0.580***	0.584***	0.587***	0.581***
Retired	-0.126	-0.135	-0.131	-0.213	-0.117	-0.119	-0.126	-0.115	-0.135	-0.131	-0.112	-0.117	-0.119	-0.115	-0.112
Student	0.418*	0.395*	0.403*	0.264	0.433**	0.428*	0.419*	0.429*	0.396*	0.402*	0.439**	0.433**	0.428*	0.429*	0.448**
House Work	-0.037	-0.019	-0.037	-0.015	-0.033	-0.039	-0.037	-0.032	-0.019	-0.037	-0.036	-0.033	-0.039	-0.032	-0.035
Other Activity	0.511***	0.514***	0.521***	0.526***	0.510***	0.513***	0.511***	0.516***	0.515***	0.520***	0.512***	0.511***	0.513***	0.516***	0.513***
Social Programme	0.006	0.040	0.028	0.137*	0.007	0.000	0.006	0.011	0.040	0.028	0.001	0.006	0.000	0.011	0.006
Chronically Ill	1.184***	1.184***	1.184***	1.172***	1.185***	1.186***	1.184***	1.187***	1.184***	1.184***	1.186***	1.185***	1.186***	1.187***	1.184***
Victim of Violence	2.390***	2.378***	2.402***	2.396***	2.385***	2.393***	2.390***	2.390***	2.378***	2.402***	2.388***	2.384***	2.393***	2.390***	2.389***
Limitations in Activities	1.102***	1.106***	1.105***	1.120***	1.100***	1.101***	1.102***	1.102***	1.106***	1.105***	1.099***	1.100***	1.101***	1.102***	1.097***
Drinks few times a year	0.176**	0.167**	0.172**	0.141**	0.177**	0.178**	0.176**	0.177**	0.168**	0.172**	0.179**	0.178**	0.178**	0.177**	0.178**
Drinks few times a month	0.184**	0.170*	0.180**	0.131*	0.187**	0.188**	0.184**	0.185**	0.170*	0.180**	0.190**	0.187**	0.188**	0.185**	0.193**
Drinks Weekly/Daily	0.402***	0.386***	0.409***	0.346***	0.404***	0.409***	0.401***	0.409***	0.385***	0.409***	0.410***	0.403***	0.409***	0.409***	0.412***
Has Health Insurance	-0.050	-0.031	-0.052	-0.061	-0.041	-0.050	-0.050	-0.038	-0.031	-0.052	-0.042	-0.041	-0.050	-0.038	-0.045
Hospitals/Pop	-0.018	-0.014	-0.018	-0.020	-0.017	-0.018	-0.018	-0.016	-0.015	-0.017	-0.017	-0.017	-0.018	-0.016	-0.018
Mean Wealth	0.154***	0.030	0.030	0.061	0.102*	0.119**	0.138*	0.024	0.002	0.057	0.080	0.078	0.116	0.025	0.063
Constant	-1.429***	-0.207	0.311	0.344	-1.117**	-0.986*	-1.255	0.003	0.096	0.022	-0.793	-0.860	-0.951	-0.007	-0.291
Obs.	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324
Overall-R2	0.0872	0.0861	0.0864	0.0837	0.0875	0.0874	0.0872	0.0870	0.0861	0.0865	0.0876	0.0875	0.0874	0.0870	0.0878
Between-R2	0.0868	0.0903	0.0827	0.0911	0.0940	0.0894	0.0868	0.0894	0.0905	0.0835	0.0951	0.0942	0.0894	0.0894	0.0941
Within-R2	0.0862	0.0853	0.0856	0.0824	0.0864	0.0864	0.0862	0.0861	0.0853	0.0856	0.0865	0.0864	0.0864	0.0861	0.0867

Note: given the large number of regressions, the table below is presented in a reduced format (*, ** and *** indicate significance at 0.05, 0.01 and 0.001 levels, respectively).

STATE LEVEL

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Poorest Quartile	0.874***				0.542***	0.593***	0.875***				0.430***	0.543***	0.592***		0.418***
2 nd Quartile	0.782***				0.610***	0.563***	0.783***				0.505***	0.610***	0.562***		0.455***
3 rd Quartile	0.423***				0.349***	0.271***	0.423***				0.267***	0.349***	0.271***		0.224**
Rel Deprivation		0.279***			0.173***			0.164***	0.279***		0.137***	0.173***		0.164***	0.120***
Rel Affluence			-0.324***			-0.161***		-0.213***		-0.324***	-0.102*		-0.162***	-0.213***	-0.367***
Gini				2.317			2.472		2.122	2.771		2.340	2.635	2.499	1.119
Rel Affluence*Gini															1.342**
N people in HH	0.026*	0.030*	0.030*	0.014	0.031*	0.030*	0.026*	0.034**	0.030*	0.030*	0.035**	0.031*	0.030*	0.034**	0.036**
Female	1.690***	1.639***	1.655***	1.595***	1.680***	1.690***	1.690***	1.660***	1.639***	1.655***	1.682***	1.681***	1.690***	1.660***	1.681***
Age	0.112***	0.110***	0.111***	0.102***	0.114***	0.114***	0.113***	0.111***	0.111***	0.111***	0.114***	0.114***	0.114***	0.113***	0.114***
Age ²	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***	-0.001***
Married	-0.413***	-0.407***	-0.411***	-0.475***	-0.394***	-0.400***	-0.414***	-0.393***	-0.409***	-0.412***	-0.382***	-0.394***	-0.400***	-0.394***	-0.373***
No education / Primary	-0.377***	-0.438***	-0.431***	-0.525***	-0.394***	-0.375***	-0.377***	-0.412***	-0.437***	-0.430***	-0.381***	-0.379***	-0.375***	-0.411***	-0.387***
Secondary	-0.908***	-1.076***	-0.999***	-1.276***	-0.902***	-0.883***	-0.908***	-0.977***	-1.076***	-0.998***	-0.894***	-0.902***	-0.883***	-0.976***	-0.901***
Not Employed	0.635***	0.645***	0.654***	0.667***	0.630***	0.638***	0.635***	0.645***	0.644***	0.654***	0.636***	0.630***	0.638***	0.645***	0.637***
Retired	-0.118	-0.152	-0.144	-0.214	-0.112	-0.112	-0.117	-0.132	-0.151	-0.143	-0.116	-0.112	-0.112	-0.130	-0.127
Student	0.434**	0.400*	0.410*	0.286	0.454**	0.450**	0.435**	0.434**	0.400*	0.410*	0.462**	0.455**	0.451**	0.435**	0.467**
House Work	-0.054	-0.019	-0.036	-0.020	-0.042	-0.051	-0.054	-0.030	-0.018	-0.036	-0.044	-0.042	-0.051	-0.029	-0.045
Other Activity	0.516***	0.534***	0.537***	0.540***	0.521***	0.522***	0.516***	0.535***	0.534***	0.537***	0.524***	0.521***	0.522***	0.534***	0.524***
Social Programme	-0.021	0.075	0.056	0.139*	0.006	-0.013	-0.022	0.047	0.074	0.056	0.009	0.006	-0.014	0.046	0.016
Chronically Ill	1.186***	1.183***	1.185***	1.173***	1.185***	1.188***	1.185***	1.187***	1.182***	1.183***	1.194***	1.184***	1.187***	1.185***	1.198***
Victim of Violence	2.451***	2.421***	2.441***	2.441***	2.434***	2.447***	2.450***	2.429***	2.419***	2.439***	2.443***	2.433***	2.446***	2.427***	2.451***
Limitations in Activities	1.090***	1.092***	1.091***	1.106***	1.083***	1.087***	1.089***	1.089***	1.091***	1.090***	1.089***	1.083***	1.087***	1.088***	1.093***
Drinks few times a year	0.191***	0.174**	0.178**	0.153**	0.189***	0.192***	0.191***	0.182***	0.173**	0.178**	0.191***	0.189***	0.192***	0.181***	0.190***
Drinks few times a month	0.186**	0.159*	0.169*	0.128	0.186**	0.188**	0.186**	0.173**	0.159*	0.169*	0.187**	0.186**	0.188**	0.173**	0.186**
Drinks Weekly/Daily	0.426***	0.393***	0.412***	0.362***	0.423***	0.431***	0.426***	0.413***	0.392***	0.412***	0.428***	0.422***	0.431***	0.413***	0.430***
Has Health Insurance	-0.044	-0.018	-0.042	-0.049	-0.028	-0.042	-0.043	-0.026	-0.017	-0.041	-0.034	-0.027	-0.042	-0.025	-0.039
Hospitals/Pop	-0.070	-0.073	-0.062	-0.085	-0.075	-0.066	-0.086	-0.067	-0.088	-0.080	-0.071	-0.090	-0.084	-0.083	-0.086*
Mean Wealth	0.117*	0.036	0.041	0.156	0.076	0.090	0.227	0.035	0.130	0.164	0.068	0.180	0.208	0.146	0.173
Constant	-1.054*	-0.134	0.312	-0.574	-0.877	-0.649	-2.152	0.014	-1.077	-0.918	-0.652	-1.916	-1.818	-1.094	-1.408
Obs.	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324	44,324
Overall-R2	0.0875	0.0867	0.0870	0.0843	0.0880	0.0879	0.0876	0.0875	0.0867	0.0870	0.0882	0.0881	0.0880	0.0875	0.0884
Between-R2	0.3262	0.3328	0.3215	0.3311	0.3258	0.3321	0.3125	0.3326	0.3149	0.3134	0.3374	0.3099	0.3199	0.3184	0.3355
Within-R2	0.0861	0.0853	0.0855	0.0827	0.0867	0.0865	0.0861	0.0861	0.0853	0.0855	0.0868	0.0867	0.0865	0.0861	0.0870

6) Regression models including sample weights

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)			(2)			(3)			(4)			(5)			(6)		
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Poorest Quartile	0.622	[0.33,0.91]	0.0000	0.441	[0.09,0.79]	0.0144	0.406	[0.06,0.76]	0.0232	0.533	[0.27,0.79]	0.0001	0.358	[0.06,0.65]	0.0167	0.340	[0.05,0.63]	0.0233
2 nd Quartile	0.642	[0.45,0.83]	0.0000	0.506	[0.26,0.75]	0.0001	0.443	[0.20,0.69]	0.0004	0.604	[0.43,0.78]	0.0000	0.460	[0.25,0.68]	0.0000	0.401	[0.18,0.62]	0.0004
3 rd Quartile	0.361	[0.23,0.50]	0.0000	0.267	[0.09,0.44]	0.0027	0.215	[0.04,0.39]	0.0177	0.345	[0.21,0.48]	0.0000	0.243	[0.08,0.40]	0.0032	0.189	[0.02,0.36]	0.0269
Rel Deprivation	0.152	[0.06,0.25]	0.0017	0.136	[0.04,0.23]	0.0052	0.124	[0.03,0.22]	0.0122	0.178	[0.09,0.26]	0.0001	0.149	[0.06,0.24]	0.0010	0.134	[0.04,0.22]	0.0038
Rel Affluence				-0.097	[-0.19,-0.00]	0.0461	-0.287	[-0.48,-0.10]	0.0029				-0.113	[-0.20,-0.03]	0.0099	-0.492	[-0.75,-0.23]	0.0002
Gini	-1.237	[-4.03,1.55]	0.3852	-0.597	[-3.55,2.35]	0.6918	-1.605	[-4.90,1.69]	0.3398	0.738	[-6.93,8.41]	0.8505	1.422	[-6.26,9.11]	0.7168	-0.710	[-8.67,7.25]	0.8611
Rel Affluence*Gini							1.126	[0.12,2.13]	0.0276							2.254	[0.82,3.69]	0.0021
N people in HH	0.041	[0.01,0.07]	0.0028	0.042	[0.02,0.07]	0.0022	0.043	[0.02,0.07]	0.0020	0.041	[0.01,0.07]	0.0032	0.042	[0.01,0.07]	0.0024	0.042	[0.01,0.07]	0.0025
Female	1.639	[1.51,1.77]	0.0000	1.644	[1.51,1.77]	0.0000	1.644	[1.52,1.77]	0.0000	1.645	[1.52,1.77]	0.0000	1.649	[1.52,1.78]	0.0000	1.649	[1.52,1.78]	0.0000
Age	0.110	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.401	[-0.50,-0.30]	0.0000	-0.398	[-0.50,-0.30]	0.0000	-0.396	[-0.50,-0.29]	0.0000	-0.402	[-0.50,-0.30]	0.0000	-0.398	[-0.50,-0.29]	0.0000	-0.395	[-0.50,-0.29]	0.0000
No education / Primary	-0.405	[-0.53,-0.28]	0.0000	-0.400	[-0.53,-0.27]	0.0000	-0.402	[-0.53,-0.27]	0.0000	-0.402	[-0.53,-0.27]	0.0000	-0.397	[-0.53,-0.27]	0.0000	-0.400	[-0.53,-0.27]	0.0000
Secondary	-0.908	[-1.05,-0.77]	0.0000	-0.889	[-1.03,-0.75]	0.0000	-0.885	[-1.03,-0.74]	0.0000	-0.900	[-1.04,-0.76]	0.0000	-0.880	[-1.02,-0.74]	0.0000	-0.879	[-1.02,-0.74]	0.0000
Not Employed	0.540	[0.30,0.78]	0.0000	0.540	[0.30,0.78]	0.0000	0.540	[0.30,0.78]	0.0000	0.539	[0.30,0.78]	0.0000	0.541	[0.30,0.78]	0.0000	0.539	[0.30,0.78]	0.0000
Retired	-0.120	[-0.42,0.18]	0.4273	-0.116	[-0.41,0.18]	0.4418	-0.115	[-0.41,0.18]	0.4453	-0.117	[-0.41,0.18]	0.4374	-0.113	[-0.41,0.18]	0.4533	-0.118	[-0.42,0.18]	0.4343
Student	0.444	[0.17,0.71]	0.0013	0.451	[0.18,0.72]	0.0010	0.455	[0.19,0.72]	0.0009	0.448	[0.18,0.72]	0.0012	0.456	[0.19,0.73]	0.0009	0.459	[0.19,0.73]	0.0009
House Work	-0.020	[-0.15,0.11]	0.7577	-0.023	[-0.15,0.11]	0.7276	-0.023	[-0.15,0.11]	0.7292	-0.023	[-0.15,0.11]	0.7260	-0.026	[-0.16,0.10]	0.6990	-0.026	[-0.16,0.10]	0.6980
Other Activity	0.512	[0.22,0.80]	0.0005	0.513	[0.22,0.80]	0.0005	0.513	[0.22,0.80]	0.0005	0.509	[0.22,0.80]	0.0006	0.511	[0.22,0.80]	0.0005	0.510	[0.22,0.80]	0.0006
Social Programme	0.037	[-0.10,0.17]	0.5848	0.032	[-0.10,0.17]	0.6423	0.034	[-0.10,0.17]	0.6176	0.028	[-0.11,0.16]	0.6851	0.024	[-0.11,0.16]	0.7240	0.029	[-0.11,0.16]	0.6702
Chronically Ill	1.212	[1.06,1.36]	0.0000	1.213	[1.07,1.36]	0.0000	1.213	[1.07,1.36]	0.0000	1.211	[1.06,1.36]	0.0000	1.212	[1.06,1.36]	0.0000	1.209	[1.06,1.36]	0.0000
Victim of Violence	2.315	[1.96,2.67]	0.0000	2.317	[1.96,2.68]	0.0000	2.318	[1.96,2.68]	0.0000	2.316	[1.96,2.68]	0.0000	2.318	[1.96,2.68]	0.0000	2.321	[1.96,2.68]	0.0000
Limitations in Activities	1.073	[0.94,1.20]	0.0000	1.073	[0.94,1.20]	0.0000	1.072	[0.94,1.20]	0.0000	1.074	[0.94,1.20]	0.0000	1.073	[0.94,1.20]	0.0000	1.071	[0.94,1.20]	0.0000
Drinks few times a year	0.169	[0.06,0.27]	0.0015	0.171	[0.07,0.28]	0.0013	0.172	[0.07,0.28]	0.0013	0.173	[0.07,0.28]	0.0012	0.175	[0.07,0.28]	0.0011	0.173	[0.07,0.28]	0.0012
Drinks few times a month	0.174	[0.05,0.30]	0.0054	0.177	[0.05,0.30]	0.0046	0.179	[0.06,0.30]	0.0042	0.175	[0.05,0.30]	0.0051	0.178	[0.06,0.30]	0.0043	0.180	[0.06,0.30]	0.0041
Drinks Weekly/Daily	0.369	[0.22,0.52]	0.0000	0.375	[0.22,0.53]	0.0000	0.376	[0.22,0.53]	0.0000	0.368	[0.22,0.52]	0.0000	0.375	[0.22,0.53]	0.0000	0.377	[0.22,0.53]	0.0000
Has Health Insurance	-0.042	[-0.17,0.08]	0.5028	-0.043	[-0.17,0.08]	0.4936	-0.045	[-0.17,0.08]	0.4730	-0.043	[-0.17,0.08]	0.4885	-0.045	[-0.17,0.08]	0.4769	-0.046	[-0.17,0.08]	0.4650
Hospitals/Pop	-0.021	[-0.06,0.01]	0.2335	-0.021	[-0.06,0.01]	0.2422	-0.021	[-0.06,0.01]	0.2366	-0.110	[-0.22,0.00]	0.0575	-0.107	[-0.22,0.01]	0.0622	-0.109	[-0.22,0.00]	0.0590
Mean Wealth	0.063	[-0.04,0.16]	0.2172	0.055	[-0.05,0.16]	0.2885	0.054	[-0.05,0.16]	0.2971	0.090	[-0.19,0.37]	0.5362	0.096	[-0.19,0.38]	0.5075	0.092	[-0.19,0.38]	0.5258
Constant	-0.579	[-1.63,0.48]	0.2817	-0.433	[-1.49,0.62]	0.4211	-0.220	[-1.30,0.86]	0.6908	-0.808	[-3.88,2.26]	0.6062	-0.756	[-3.82,2.31]	0.6291	-0.324	[-3.43,2.78]	0.8381
Obs	44,324			44,324			44,324			44,324			44,324			44,324		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 6a – Multilevel models for depressive symptoms using sample weights

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)			(2)			(3)			(4)			(5)			(6)		
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Asset Index	-0.067	[-0.11,-0.02]	0.0025	-0.051	[-0.09,-0.01]	0.0243	-0.055	[-0.10,-0.01]	0.0143	-0.076	[-0.12,-0.03]	0.0004	-0.064	[-0.11,-0.02]	0.0021	-0.069	[-0.11,-0.03]	0.0011
Rel Deprivation	0.269	[0.20,0.34]	0.0000	0.148	[0.07,0.22]	0.0001	0.135	[0.06,0.21]	0.0005	0.259	[0.18,0.34]	0.0000	0.150	[0.05,0.25]	0.0039	0.140	[0.04,0.24]	0.0064
Rel Affluence				-0.211	[-0.28,-0.14]	0.0000	-0.501	[-0.67,-0.34]	0.0000				-0.198	[-0.30,-0.10]	0.0001	-0.656	[-0.85,-0.46]	0.0000
Gini	-1.396	[-4.19,1.40]	0.3273	-0.059	[-2.94,2.82]	0.9678	-1.889	[-5.12,1.34]	0.2515	-2.845	[-13.88,8.19]	0.6133	-1.627	[-12.89,9.64]	0.7771	-4.524	[-16.01,6.97]	0.4403
Rel Affluence*Gini							1.904	[0.92,2.89]	0.0002							2.851	[1.42,4.29]	0.0001
N people in HH	0.001	[-0.04,0.04]	0.9480	0.014	[-0.02,0.05]	0.4816	0.012	[-0.03,0.05]	0.5448	-0.009	[-0.05,0.03]	0.6691	0.002	[-0.04,0.04]	0.9199	-0.001	[-0.04,0.04]	0.9701
Female	1.617	[1.49,1.75]	0.0000	1.640	[1.51,1.77]	0.0000	1.640	[1.51,1.77]	0.0000	1.617	[1.45,1.79]	0.0000	1.636	[1.46,1.81]	0.0000	1.634	[1.46,1.81]	0.0000
Age	0.108	[0.09,0.13]	0.0000	0.110	[0.09,0.13]	0.0000	0.111	[0.09,0.13]	0.0000	0.109	[0.09,0.13]	0.0000	0.111	[0.09,0.13]	0.0000	0.112	[0.09,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.446	[-0.55,-0.34]	0.0000	-0.424	[-0.53,-0.32]	0.0000	-0.421	[-0.53,-0.32]	0.0000	-0.468	[-0.59,-0.34]	0.0000	-0.449	[-0.57,-0.32]	0.0000	-0.448	[-0.57,-0.32]	0.0000
No education / Primary	-0.433	[-0.56,-0.31]	0.0000	-0.407	[-0.54,-0.28]	0.0000	-0.410	[-0.54,-0.28]	0.0000	-0.495	[-0.65,-0.34]	0.0000	-0.472	[-0.63,-0.31]	0.0000	-0.477	[-0.63,-0.32]	0.0000
Secondary	-1.012	[-1.15,-0.87]	0.0000	-0.918	[-1.06,-0.77]	0.0000	-0.901	[-1.04,-0.76]	0.0000	-1.109	[-1.27,-0.95]	0.0000	-1.023	[-1.18,-0.86]	0.0000	-1.016	[-1.18,-0.85]	0.0000
Not Employed	0.543	[0.30,0.78]	0.0000	0.543	[0.30,0.78]	0.0000	0.540	[0.30,0.78]	0.0000	0.615	[0.37,0.86]	0.0000	0.616	[0.37,0.86]	0.0000	0.613	[0.37,0.86]	0.0000
Retired	-0.122	[-0.42,0.18]	0.4224	-0.109	[-0.41,0.19]	0.4713	-0.106	[-0.40,0.19]	0.4846	-0.124	[-0.41,0.16]	0.3938	-0.111	[-0.40,0.17]	0.4435	-0.115	[-0.40,0.17]	0.4268
Student	0.400	[0.13,0.67]	0.0035	0.435	[0.17,0.70]	0.0015	0.444	[0.17,0.71]	0.0012	0.402	[0.08,0.72]	0.0132	0.437	[0.12,0.76]	0.0070	0.443	[0.13,0.76]	0.0063
House Work	-0.008	[-0.14,0.12]	0.9087	-0.020	[-0.15,0.11]	0.7607	-0.020	[-0.15,0.11]	0.7577	0.022	[-0.10,0.14]	0.7210	0.012	[-0.11,0.13]	0.8374	0.012	[-0.11,0.13]	0.8428
Other Activity	0.511	[0.22,0.80]	0.0005	0.511	[0.22,0.80]	0.0005	0.512	[0.22,0.80]	0.0005	0.535	[0.25,0.82]	0.0002	0.537	[0.26,0.82]	0.0002	0.536	[0.26,0.82]	0.0002
Social Programme	0.064	[-0.07,0.20]	0.3500	0.035	[-0.10,0.17]	0.6092	0.041	[-0.09,0.18]	0.5471	0.093	[-0.06,0.25]	0.2376	0.069	[-0.08,0.22]	0.3695	0.081	[-0.07,0.23]	0.2815
Chronically Ill	1.216	[1.07,1.36]	0.0000	1.217	[1.07,1.36]	0.0000	1.215	[1.07,1.36]	0.0000	1.196	[1.05,1.34]	0.0000	1.198	[1.05,1.34]	0.0000	1.194	[1.05,1.34]	0.0000
Victim of Violence	2.312	[1.95,2.67]	0.0000	2.320	[1.96,2.68]	0.0000	2.322	[1.96,2.68]	0.0000	2.304	[1.91,2.70]	0.0000	2.308	[1.91,2.70]	0.0000	2.313	[1.92,2.71]	0.0000
Limitations in Activities	1.082	[0.95,1.21]	0.0000	1.079	[0.95,1.21]	0.0000	1.075	[0.95,1.21]	0.0000	1.087	[0.92,1.26]	0.0000	1.082	[0.91,1.25]	0.0000	1.079	[0.91,1.25]	0.0000
Drinks few times a year	0.159	[0.05,0.26]	0.0030	0.168	[0.06,0.27]	0.0017	0.169	[0.06,0.27]	0.0016	0.172	[0.03,0.31]	0.0144	0.179	[0.04,0.32]	0.0120	0.178	[0.04,0.32]	0.0123
Drinks few times a month	0.158	[0.04,0.28]	0.0117	0.173	[0.05,0.30]	0.0058	0.178	[0.05,0.30]	0.0046	0.172	[0.03,0.31]	0.0155	0.185	[0.04,0.33]	0.0098	0.190	[0.05,0.33]	0.0086
Drinks Weekly/Daily	0.354	[0.20,0.51]	0.0000	0.377	[0.22,0.53]	0.0000	0.379	[0.23,0.53]	0.0000	0.418	[0.24,0.60]	0.0000	0.438	[0.26,0.62]	0.0000	0.442	[0.26,0.62]	0.0000
Has Health Insurance	-0.035	[-0.16,0.09]	0.5709	-0.042	[-0.16,0.08]	0.5084	-0.045	[-0.17,0.08]	0.4698	-0.030	[-0.17,0.11]	0.6812	-0.036	[-0.18,0.11]	0.6166	-0.038	[-0.18,0.10]	0.5957
Hospitals/Pop	-0.019	[-0.05,0.02]	0.2895	-0.019	[-0.05,0.02]	0.2859	-0.020	[-0.05,0.01]	0.2612	-0.126	[-0.30,0.05]	0.1635	-0.115	[-0.29,0.06]	0.2026	-0.119	[-0.29,0.06]	0.1853
Mean Wealth	0.013	[-0.08,0.11]	0.7887	0.034	[-0.06,0.13]	0.4901	0.032	[-0.06,0.13]	0.5059	-0.102	[-0.46,0.25]	0.5754	-0.066	[-0.43,0.29]	0.7204	-0.071	[-0.43,0.29]	0.6975
Constant	0.506	[-0.51,1.52]	0.3292	0.281	[-0.75,1.31]	0.5936	0.567	[-0.49,1.63]	0.2949	1.782	[-2.23,5.80]	0.3845	1.438	[-2.64,5.52]	0.4898	1.961	[-2.14,6.06]	0.3489
Obs	44,324			44,324			44,324			44,324			44,324			44,324		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 6b – Multilevel models for depressive symptoms using sample weights and continuous measure of absolute wealth

	MUNICIPAL LEVEL									STATE LEVEL								
	(1)	(2)	(3)	(4)	(5)	(6)												
	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value	Beta	95% CI	P-Value
Poorest Quartile	0.689	[0.43,0.95]	0.0000	0.516	[0.20,0.83]	0.0012	0.463	[0.15,0.78]	0.0041	0.545	[0.35,0.74]	0.0000	0.437	[0.22,0.65]	0.0001	0.424	[0.21,0.64]	0.0001
2 nd Quartile	0.654	[0.48,0.83]	0.0000	0.522	[0.31,0.74]	0.0000	0.443	[0.22,0.67]	0.0001	0.611	[0.46,0.76]	0.0000	0.509	[0.34,0.68]	0.0000	0.448	[0.28,0.62]	0.0000
3 rd Quartile	0.360	[0.23,0.49]	0.0000	0.270	[0.11,0.43]	0.0010	0.206	[0.04,0.38]	0.0173	0.349	[0.22,0.48]	0.0000	0.270	[0.13,0.41]	0.0002	0.215	[0.07,0.36]	0.0038
Rel Deprivation	0.134	[0.05,0.22]	0.0015	0.119	[0.04,0.20]	0.0054	0.108	[0.02,0.19]	0.0125	0.173	[0.11,0.24]	0.0000	0.138	[0.07,0.21]	0.0001	0.118	[0.05,0.19]	0.0010
Rel Affluence				-0.094	[-0.19,-0.00]	0.0500	-0.315	[-0.53,-0.10]	0.0038				-0.099	[-0.18,-0.02]	0.0156	-0.500	[-0.75,-0.25]	0.0001
Gini	-1.162	[-3.64,1.32]	0.3585	-0.571	[-3.12,1.98]	0.6608	-1.674	[-4.40,1.05]	0.2279	-2.909	[-11.09,5.27]	0.4858	-2.257	[-8.61,4.10]	0.4864	-4.424	[-9.11,0.27]	0.0645
Rel Affluence*Gini							1.296	[0.17,2.42]	0.0239						2.390	[0.98,3.80]	0.0009	
N people in HH	0.038	[0.01,0.06]	0.0023	0.039	[0.01,0.06]	0.0019	0.040	[0.01,0.06]	0.0017	0.031	[0.01,0.06]	0.0130	0.034	[0.01,0.06]	0.0074	0.037	[0.01,0.06]	0.0038
Female	1.664	[1.55,1.78]	0.0000	1.668	[1.55,1.78]	0.0000	1.668	[1.55,1.79]	0.0000	1.680	[1.56,1.80]	0.0000	1.682	[1.57,1.80]	0.0000	1.680	[1.56,1.80]	0.0000
Age	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.114	[0.10,0.13]	0.0000	0.113	[0.10,0.13]	0.0000
Age ²	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000	-0.001	[-0.00,-0.00]	0.0000
Married	-0.397	[-0.49,-0.30]	0.0000	-0.394	[-0.49,-0.30]	0.0000	-0.392	[-0.48,-0.30]	0.0000	-0.394	[-0.49,-0.30]	0.0000	-0.385	[-0.48,-0.29]	0.0000	-0.370	[-0.46,-0.28]	0.0000
No education / Primary	-0.385	[-0.50,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.382	[-0.50,-0.27]	0.0000	-0.379	[-0.49,-0.27]	0.0000	-0.380	[-0.49,-0.27]	0.0000	-0.389	[-0.50,-0.28]	0.0000
Secondary	-0.889	[-1.02,-0.76]	0.0000	-0.871	[-1.01,-0.74]	0.0000	-0.867	[-1.00,-0.73]	0.0000	-0.902	[-1.03,-0.77]	0.0000	-0.891	[-1.02,-0.76]	0.0000	-0.903	[-1.04,-0.77]	0.0000
Not Employed	0.580	[0.36,0.80]	0.0000	0.581	[0.36,0.80]	0.0000	0.580	[0.36,0.80]	0.0000	0.630	[0.41,0.85]	0.0000	0.633	[0.41,0.85]	0.0000	0.635	[0.42,0.86]	0.0000
Retired	-0.116	[-0.36,0.13]	0.3494	-0.112	[-0.36,0.13]	0.3673	-0.111	[-0.35,0.13]	0.3726	-0.112	[-0.36,0.13]	0.3683	-0.114	[-0.36,0.13]	0.3622	-0.129	[-0.37,0.12]	0.3007
Student	0.433	[0.11,0.76]	0.0093	0.439	[0.11,0.77]	0.0084	0.443	[0.12,0.77]	0.0079	0.454	[0.13,0.78]	0.0068	0.461	[0.13,0.79]	0.0060	0.466	[0.14,0.79]	0.0056
House Work	-0.033	[-0.15,0.09]	0.5850	-0.036	[-0.15,0.08]	0.5586	-0.035	[-0.15,0.08]	0.5634	-0.042	[-0.16,0.08]	0.4948	-0.043	[-0.16,0.08]	0.4784	-0.045	[-0.16,0.07]	0.4593
Other Activity	0.511	[0.24,0.79]	0.0003	0.512	[0.24,0.79]	0.0003	0.513	[0.24,0.79]	0.0002	0.521	[0.25,0.80]	0.0002	0.524	[0.25,0.80]	0.0002	0.523	[0.25,0.80]	0.0002
Social Programme	0.007	[-0.11,0.13]	0.9046	0.002	[-0.12,0.12]	0.9733	0.005	[-0.11,0.12]	0.9384	0.006	[-0.11,0.12]	0.9158	0.008	[-0.11,0.13]	0.8936	0.019	[-0.10,0.14]	0.7474
Chronically Ill	1.185	[1.06,1.31]	0.0000	1.186	[1.06,1.31]	0.0000	1.185	[1.06,1.31]	0.0000	1.185	[1.06,1.31]	0.0000	1.191	[1.06,1.32]	0.0000	1.201	[1.07,1.33]	0.0000
Victim of Violence	2.385	[2.09,2.68]	0.0000	2.388	[2.10,2.68]	0.0000	2.388	[2.10,2.68]	0.0000	2.434	[2.14,2.73]	0.0000	2.440	[2.15,2.73]	0.0000	2.457	[2.16,2.75]	0.0000
Limitations in Activities	1.099	[1.01,1.19]	0.0000	1.099	[1.01,1.19]	0.0000	1.098	[1.00,1.19]	0.0000	1.084	[0.99,1.18]	0.0000	1.087	[0.99,1.18]	0.0000	1.095	[1.00,1.19]	0.0000
Drinks few times a year	0.177	[0.07,0.28]	0.0011	0.179	[0.07,0.29]	0.0010	0.179	[0.07,0.29]	0.0010	0.189	[0.08,0.30]	0.0005	0.190	[0.08,0.30]	0.0005	0.189	[0.08,0.30]	0.0005
Drinks few times a month	0.188	[0.06,0.32]	0.0048	0.190	[0.06,0.32]	0.0043	0.192	[0.06,0.32]	0.0039	0.186	[0.06,0.32]	0.0053	0.187	[0.06,0.32]	0.0052	0.186	[0.05,0.32]	0.0054
Drinks Weekly/Daily	0.403	[0.24,0.56]	0.0000	0.409	[0.25,0.57]	0.0000	0.410	[0.25,0.57]	0.0000	0.422	[0.26,0.58]	0.0000	0.426	[0.27,0.59]	0.0000	0.428	[0.27,0.59]	0.0000
Has Health Insurance	-0.041	[-0.15,0.07]	0.4519	-0.042	[-0.15,0.07]	0.4428	-0.045	[-0.15,0.06]	0.4161	-0.027	[-0.14,0.08]	0.6193	-0.032	[-0.14,0.08]	0.5631	-0.040	[-0.15,0.07]	0.4651
Hospitals/Pop	-0.018	[-0.05,0.02]	0.3516	-0.017	[-0.05,0.02]	0.3622	-0.018	[-0.05,0.02]	0.3541	-0.084	[-0.21,0.05]	0.2041	-0.079	[-0.18,0.02]	0.1252	-0.078	[-0.15,-0.01]	0.0314
Mean Wealth	0.077	[-0.02,0.17]	0.1210	0.069	[-0.03,0.17]	0.1678	0.066	[-0.03,0.16]	0.1814	-0.021	[-0.32,0.27]	0.8903	-0.007	[-0.24,0.22]	0.9529	-0.005	[-0.17,0.16]	0.9506
Constant	-0.799	[-1.80,0.20]	0.1181	-0.652	[-1.66,0.36]	0.2067	-0.401	[-1.44,0.63]	0.4468	0.205	[-3.02,3.43]	0.9009	0.177	[-2.33,2.69]	0.8898	0.593	[-1.22,2.41]	0.5223
Obs	44,324			44,324			44,324			44,324			44,324			44,324		
	0.0876			0.0877			0.0878			0.0881			0.0882			0.0885		
	0.0952			0.0953			0.0963			0.3300			0.3337			0.3550		
	0.0864			0.0865			0.0866			0.0867			0.0868			0.0870		

For models 1-3 the second level is the municipality. For models 4-6 the second level is the state.

ROBUSTNESS CHECK 6c – Multilevel models for depressive symptoms using Gini coefficients calculated taking sample weights into account