

APPENDIX: SUPPLEMENTARY DATA

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Figure 1: Flow chart of the Study on the Social Networks of the Dutch (SSND)

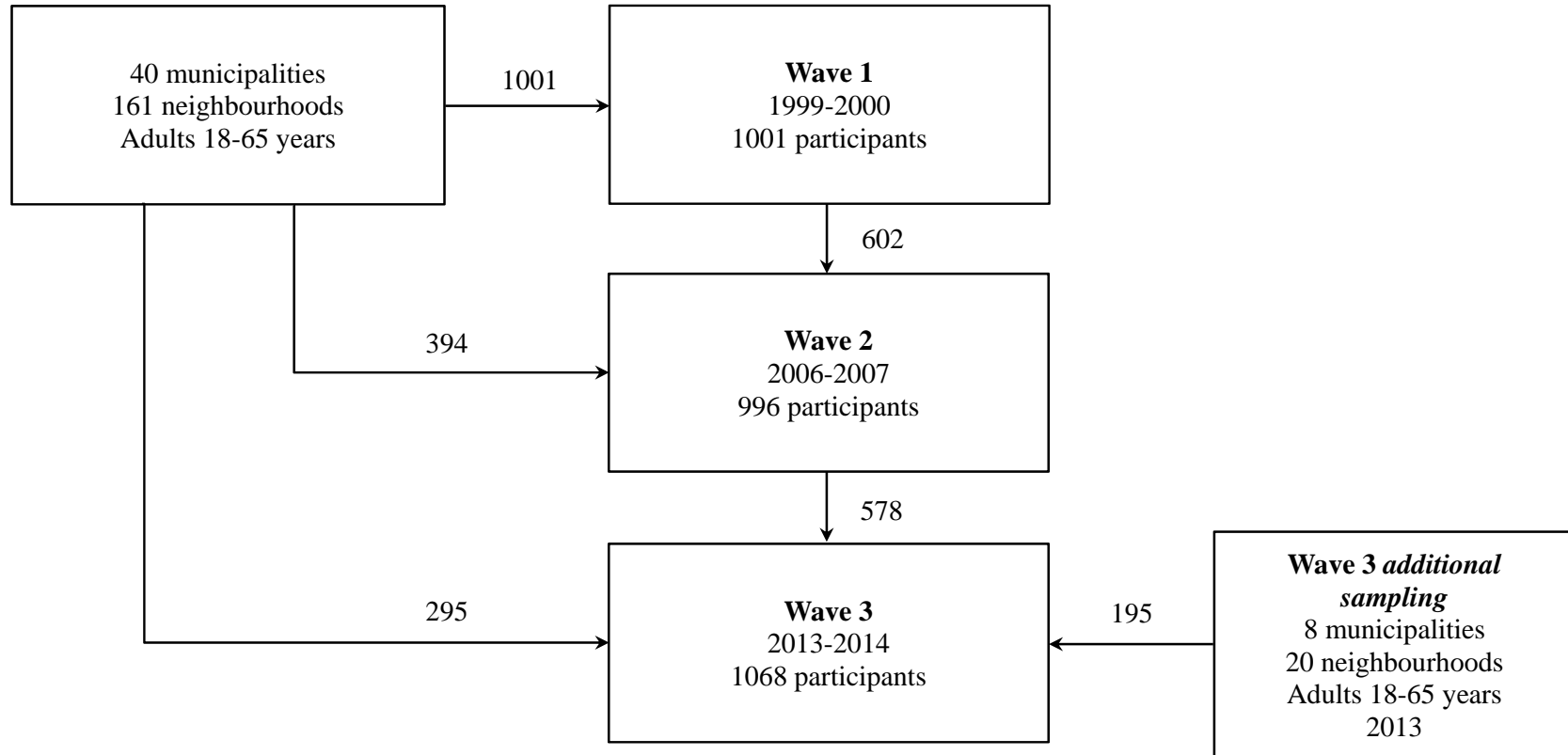


Table 1: Questionnaire items for social cohesion and collective efficacy

Social cohesion (10 items)

1. I have nothing to do with my neighbours
2. The contacts among the people here are generally good
3. I would not per se accept a better house somewhere else because I like this neighbourhood
4. If something has to be done together everybody participates
5. If somebody needs help s/he can always rely on the neighbours
6. If things go bad it does not matter, this is only a place to dwell
7. I really belong to this neighbourhood
8. If I meet a person in the street I know where s/he lives
9. I do not want to live here for more than a few years
10. I trust most people who live here

Possible answers and scoring (note that the scoring for questions 1, 6 and 9 is reversed):

completely agree	5
agree	4
neither agree nor disagree	3
disagree	2
completely disagree	1

Collective efficacy (5 items)

Do you expect that somebody from this neighbourhood would do something if they noted that

1. Children who play truant
2. Adolescents who spray graffiti
3. Violent arguing
4. Burglary observed
5. Vandalizing parked cars

Possible answers and scoring:

yes, sure	5
probably	4
not probable, not improbable	3
probably not	2
definitely not	1

Table 2: Description of land use variables

LGN-7 includes 39 types of land use

Natural green: 17 types

Deciduous forest, Coniferous forest, Mud flats, Open sand in coastal area, Dunes with low vegetation (<1m), Dunes with high vegetation (>1m), Dune heather, Open drift-sand and/or river sand, Heath land, Moderately grassed heather, Strongly grassed heather, Moorland, Forest in moor area, Other swamp vegetation, Cane reed vegetation, Forest in swamp area, Natural grass-lands.

Agricultural green: 10 types

Agricultural grass, Maize, Potatoes, Beets, Grains, Other agricultural crops, Arboriculture, Fruit growing farms, Orchards, Bulbs

Blue spaces: 2 types

Fresh water, Salt water

Built areas: 9 types

Greenhouses, Building in outer areas, Constructions in primary built areas, Constructions in secondary built areas, Forest in primary built areas, Forest in secondary built areas, Grass in primary built areas, Uncultivated land in built outer areas, Grass in secondary built areas

Infrastructure: 1 type

Main roads and Railways

Table 3: Disease groupings and ICPC descriptions. Symptoms/complaints are underlined.

*Note: The translations in this list are based on the English version of ICPC-2.
In this study the classification was made based on the (Dutch) ICPC-1 system.*

Cardiovascular:

High blood pressure

- K85 Elevated blood pressure
- K86 Hypertension uncomplicated
- K87 Hypertension complicated

Cardiac disease

- K71 Rheumatic fever/heart disease
- K73 Congenital anomaly cardiovascular
- K74 Ischaemic heart disease w. angina
- K77 Heart failure
- K78 Atrial fibrillation/flutter
- K79 Paroxysmal tachycardia
- K80 Cardiac arrhythmia NOS
- K81 Heart/arterial murmur NOS
- K82 Pulmonary heart disease
- K83 Heart valve disease NOS
- K84 Heart disease other

Coronary heart disease

- K74 Ischaemic heart disease w. angina
- K75 Acute myocardial infarction
- K76 Ischaemic heart disease w/o angina

Stroke, brain haemorrhage

- K89 Transient cerebral ischaemia
- K90 Stroke/cerebrovascular accident

Mental:

Depression

- P03 Feeling depressed
- P76 Depressive disorder

Anxiety disorder

- P01 Feeling anxious/nervous/tense
- P74 Anxiety disorder/anxiety state

Respiratory:

Asthma, COPD

- R91 Chronic bronchitis/bronchiectasis
- R95 Pulmonary emphysema/COPD
- R96 Asthma

Neurological:*Migraine/severe headache*

- N01 Headache
- N02 Tension headache
- N03 Pain face
- N89 Migraine
- N90 Cluster headache
- N92 Trigeminal neuralgia

Miscellaneous:*Medically Unexplained Physical Symptoms (MUPS)*

- A01 Pain general/multiple sites
- A04 Weakness/tiredness general
- D01 Abdominal pain/cramps general
- D08 Flatulence/gas/belching
- D09 Nausea
- D12 Constipation
- D18 Change faeces/bowel movements
- D21 Swallowing problem
- D93 Irritable bowel syndrome
- K01 Heart pain
- K02 Pressure/tightness of heart
- K04 Palpitations/awareness of heart
- L01 Neck symptom/complaint
- L02 Back symptom/complaint
- L03 Low back symptom/complaint
- L08 Shoulder symptom/complaint
- L09 Arm symptom/complaint
- L14 Leg/thigh symptom/complaint
- L20 Joint symptom/complaint NOS
- N01 Headache
- N02 Tension headache
- N17 Vertigo/dizziness
- P06 Sleep disturbance
- P20 Memory disturbance
- R02 Shortness of breath/dyspnoea
- R21 Throat symptom/complaint
- T03 Loss of appetite
- T07 Weight gain
- T08 Weight loss

Diabetes

- T88 Renal glucosuria
- T90 Non-insulin dependent diabetes

NOS: not elsewhere specified

Table 4: Reliability estimates for aggregated estimates of social cohesion and collective efficacy

a) Reliability estimates for each municipality

Municipality	Number of neighbourhoods	Number of individuals*	Reliability social cohesion	Reliability collective efficacy
1	4	13	0.62	0.54
2	4	13	0.62	0.54
3	4	6	0.46	0.38
4	4	9	0.55	0.46
5	4	12	0.60	0.52
6	4	9	0.57	0.51
7	4	12	0.63	0.55
8	4	7	0.53	0.48
9	4	8	0.52	0.44
10	4	8	0.52	0.44
11	4	10	0.57	0.48
12	5	11	0.64	0.59
13	4	14	0.63	0.55
14	4	7	0.53	0.48
15	4	11	0.59	0.50
16	6	11	0.64	0.59
17	7	13	0.66	0.60
18	4	7	0.49	0.41
19	4	16	0.66	0.57
20	4	12	0.60	0.52
21	1	11	0.40	0.28
22	1	13	0.42	0.30
23	11	13	0.70	0.63
24	4	8	0.52	0.44
25	4	15	0.67	0.60
26	4	8	0.52	0.44
27	1	11	0.40	0.28
28	4	10	0.60	0.55
29	4	10	0.60	0.55
30	5	15	0.66	0.59
31	4	13	0.64	0.52
32	4	12	0.60	0.52
33	4	12	0.60	0.52
34	4	9	0.55	0.46
35	4	8	0.52	0.44
36	4	12	0.60	0.52
37	4	16	0.68	0.63
38	4	14	0.63	0.55
39	4	9	0.58	0.50
40	4	11	0.61	0.55
41	4	11	0.61	0.53
42	4	7	0.52	0.46
43	4	10	0.59	0.53
44	4	13	0.65	0.59

* average number of individual participants in a neighbourhood within this municipality

b) Reliability estimates for each neighbourhood (nested within municipality)

Neighbourhood	Municipality	Number of individuals	Reliability social cohesion	Reliability collective efficacy
1	1	13	0,39	0,35
2	1	15	0,43	0,38
3	1	14	0,49	0,48
4	1	10	0,45	0,45
5	2	13	0,39	0,35
6	2	8	0,39	0,39
7	2	12	0,38	0,42
8	2	8	0,39	0,39
9	3	6	0,23	0,20
10	3	10	0,33	0,29
11	3	8	0,39	0,39
12	3	11	0,43	0,42
13	4	9	0,31	0,27
14	4	12	0,46	0,44
15	4	8	0,39	0,39
16	4	8	0,39	0,39
17	5	12	0,38	0,33
18	5	10	0,33	0,29
19	5	9	0,42	0,42
20	5	7	0,36	0,36
21	6	9	0,39	0,37
22	6	13	0,39	0,35
23	6	9	0,31	0,27
24	6	6	0,30	0,28
25	7	12	0,46	0,42
26	7	10	0,41	0,39
27	7	9	0,42	0,42
28	7	10	0,33	0,29
29	8	7	0,36	0,36
30	8	8	0,36	0,34
31	8	10	0,33	0,29
32	8	9	0,42	0,42
33	9	8	0,29	0,25
34	9	6	0,30	0,28
35	9	11	0,43	0,42
36	9	14	0,49	0,48
37	10	8	0,29	0,25
38	10	10	0,45	0,45
39	10	9	0,31	0,31
40	10	6	0,33	0,33
41	11	10	0,33	0,29
42	11	11	0,47	0,47
43	11	6	0,33	0,33
44	11	12	0,46	0,44
45	12	11	0,47	0,47
46	12	7	0,36	0,36

b) Continued

Neighbourhood	Municipality	Number of individuals	Reliability social cohesion	Reliability collective efficacy
47	12	8	0,39	0,39
48	12	10	0,33	0,42
49	12	9	0,42	0,42
50	13	14	0,41	0,36
51	13	10	0,45	0,45
52	13	11	0,36	0,31
53	13	10	0,41	0,39
54	14	7	0,36	0,36
55	14	6	0,33	0,33
56	14	12	0,38	0,33
57	14	15	0,43	0,38
58	15	11	0,36	0,31
59	15	11	0,36	0,31
60	15	14	0,49	0,48
61	15	10	0,41	0,37
62	16	11	0,43	0,42
63	16	13	0,39	0,35
64	16	7	0,26	0,22
65	16	13	0,48	0,46
66	16	3	0,13	0,11
67	16	3	0,13	0,11
68	17	13	0,39	0,35
69	17	12	0,46	0,44
70	17	13	0,39	0,35
71	17	11	0,36	0,31
72	17	2	0,09	0,08
73	17	1	0,05	0,04
74	17	6	0,23	0,20
75	18	7	0,26	0,22
76	18	8	0,29	0,25
77	18	12	0,49	0,49
78	18	11	0,36	0,31
79	19	16	0,45	0,40
80	19	12	0,38	0,33
81	19	11	0,36	0,31
82	19	10	0,45	0,45
83	20	12	0,38	0,33
84	20	11	0,43	0,42
85	20	10	0,45	0,45
86	20	8	0,39	0,39
87	21	11	0,36	0,31
88	22	13	0,39	0,35
89	23	13	0,48	0,42
90	23	14	0,41	0,29
91	23	12	0,49	0,49
92	23	11	0,36	0,31

b) Continued

Neighbourhood	Municipality	Number of individuals	Reliability social cohesion	Reliability collective efficacy
93	23	12	0,38	0,31
94	23	16	0,45	0,22
95	23	17	0,46	0,27
96	23	10	0,33	0,27
97	23	17	0,46	0,22
98	23	9	0,31	0,27
99	23	15	0,43	0,22
100	24	8	0,29	0,25
101	24	11	0,36	0,31
102	24	11	0,47	0,45
103	24	9	0,42	0,42
104	25	15	0,51	0,49
105	25	13	0,48	0,46
106	25	12	0,38	0,33
107	25	9	0,42	0,42
108	26	8	0,29	0,25
109	26	5	0,20	0,17
110	26	6	0,23	0,20
111	26	11	0,36	0,31
112	27	11	0,36	0,31
113	28	10	0,45	0,45
114	28	8	0,39	0,39
115	28	10	0,41	0,39
116	28	19	0,57	0,55
117	29	10	0,45	0,45
118	29	8	0,36	0,34
119	29	9	0,39	0,37
120	29	13	0,48	0,46
121	30	15	0,43	0,38
122	30	14	0,41	0,36
123	30	11	0,43	0,42
124	30	9	0,42	0,42
125	30	6	0,23	0,20
126	31	13	0,48	0,33
127	31	12	0,49	0,49
128	31	10	0,45	0,45
129	31	7	0,33	0,31
130	32	12	0,38	0,33
131	32	14	0,41	0,36
132	32	14	0,53	0,53
133	32	11	0,36	0,31
134	33	12	0,38	0,33
135	33	9	0,42	0,42
136	33	10	0,45	0,45
137	33	10	0,33	0,27
138	34	9	0,31	0,27

b) Continued

Neighbourhood	Municipality	Number of individuals	Reliability social cohesion	Reliability collective efficacy
139	34	6	0,33	0,33
140	34	12	0,38	0,33
141	34	14	0,53	0,53
142	35	8	0,29	0,25
143	35	11	0,43	0,39
144	35	9	0,31	0,27
145	35	8	0,39	0,39
146	36	12	0,38	0,33
147	36	9	0,31	0,27
148	36	11	0,47	0,47
149	36	7	0,33	0,31
150	37	16	0,56	0,56
151	37	9	0,31	0,27
152	37	7	0,33	0,31
153	37	13	0,39	0,35
154	38	14	0,41	0,36
155	38	10	0,45	0,45
156	38	6	0,33	0,33
157	38	11	0,43	0,42
158	39	9	0,42	0,39
159	39	14	0,49	0,48
160	39	12	0,49	0,49
161	39	11	0,43	0,37
162	40	11	0,43	0,42
163	40	8	0,36	0,34
164	40	8	0,39	0,39
165	40	10	0,33	0,29
166	41	11	0,43	0,39
167	41	11	0,43	0,39
168	41	9	0,42	0,42
169	41	12	0,38	0,33
170	42	7	0,33	0,31
171	42	9	0,31	0,27
172	42	11	0,36	0,31
173	42	8	0,36	0,34
174	43	10	0,41	0,39
175	43	12	0,38	0,33
176	43	13	0,39	0,35
177	43	10	0,41	0,39
178	44	13	0,51	0,51
179	44	14	0,41	0,36
180	44	11	0,36	0,31
181	44	10	0,33	0,29

Table 5: Correlations (Spearman's r) between social and physical neighbourhood characteristics across 135 five-digit postal code areas in 43 Dutch municipalities

	Address density	Social cohesion	Collective efficacy	Natural green	Agricultural green	Total green
Social cohesion	-0.33					
Collective efficacy	-0.25	+0.65				
Natural green (%)	-0.74	+0.28	+0.29			
Agricultural green (%)	-0.78	+0.35	+0.28	+0.86		
Total green (%)	-0.80	+0.36	+0.30	+0.91	+0.98	
Blue spaces (%)	-0.34	+0.14	+0.04	+0.16	+0.23	+0.20
Shannon index	-0.80	+0.24	+0.26	+0.70	+0.71	+0.72
PM ₁₀ (µg/m ³)	+0.39	-0.14	-0.06	-0.31	-0.40	-0.39
PM _{2.5} (µg/m ³)	+0.15	-0.08	+0.03	-0.05	-0.18	-0.15
NO ₂ (µg/m ³)	+0.62	-0.19	-0.17	-0.53	-0.60	-0.61
Noise road traffic (LDEN)	+0.17	-0.08	-0.09	-0.14	-0.11	-0.13
Noise railway traffic (LDEN)	+0.08	-0.16	-0.08	-0.15	-0.16	-0.18

Statistically significant associations ($p < 0.05$) are given in **bold**

See next page

Table 5 (continued)

	Blue spaces	Shannon index	PM ₁₀	PM _{2.5}	NO ₂	Noise road traffic
Shannon index	+0.43					
PM ₁₀ (µg/m ³)	-0.12	-0.30				
PM _{2.5} (µg/m ³)	-0.19	-0.13	+0.69			
NO ₂ (µg/m ³)	-0.16	-0.50	+0.74	+0.40		
Noise road traffic (LDEN)	-0.09	-0.11	+0.64	+0.52	+0.53	
Noise railway traffic (LDEN)	+0.01	-0.04	+0.19	+0.05	+0.22	+0.19

Statistically significant associations (p<0.05) are given in **bold**

Table 6: Associations (Odds Ratios and 95% confidence intervals) between individual characteristics and the prevalence of 10 disease groupings. N=4,450 individuals nested in 135 neighbourhoods in 43 municipalities. Multilevel models adjusted for municipality and neighbourhood (group level).

Cluster	Female gender	Age (per 10 years)	Household income (per 10%)	Social security benefit*	Retired with pension*	Others non-active*
High blood pressure	1.21 (0.99–1.46)	2.54 (2.27–2.83)	0.95 (0.92–0.99)	0.97 (0.70–1.36)	0.77 (0.56–1.04)	0.69 (0.45–1.06)
Cardiac disease	0.70 (0.54–0.92)	1.98 (1.73–2.26)	0.98 (0.93–1.04)	1.72 (1.02–2.87)	1.57 (1.01–2.42)	1.75 (0.97–3.17)
Coronary heart disease	0.42 (0.30–0.58)	2.41 (2.00–2.90)	1.00 (0.93–1.07)	2.76 (1.55–4.93)	1.25 (0.72–2.16)	1.71 (0.74–3.97)
Stroke, brain hemorrhage	0.50 (0.33–0.76)	2.03 (1.62–2.54)	0.96 (0.88–1.04)	3.96 (1.74–9.01)	2.51 (1.14–5.50)	1.04 (0.22–4.84)
Depression	2.21 (1.61–3.02)	1.14 (1.02–1.29)	0.94 (0.88–0.99)	3.76 (2.53–5.58)	0.84 (0.49–1.45)	0.27 (0.14–0.52)
Anxiety disorder	1.74 (1.27–2.39)	1.17 (1.04–1.32)	0.96 (0.90–1.02)	1.79 (1.15–2.80)	0.52 (0.29–0.90)	0.62 (0.37–1.04)
Asthma, COPD	0.90 (0.75–1.09)	1.11 (1.03–1.19)	0.97 (0.93–1.01)	1.81 (1.32–2.50)	1.40 (1.00–1.95)	1.14 (0.84–1.56)
Migraine/severe headache	2.26 (1.64–3.13)	1.07 (0.95–1.20)	0.92 (0.87–0.98)	1.14 (0.71–1.85)	0.58 (0.33–1.02)	0.54 (0.33–0.88)
Medically Unexplained Physical Symptoms	1.58 (1.38–1.80)	1.18 (1.12–1.24)	0.95 (0.93–0.98)	1.34 (1.05–1.71)	1.01 (0.80–1.29)	0.86 (0.69–1.07)
Diabetes	0.81 (0.62–1.05)	1.90 (1.67–2.16)	0.93 (0.88–0.98)	2.31 (1.49–3.59)	1.43 (0.92–2.20)	1.09 (0.60–2.00)

Statistically significant associations (p<0.05) are given in **bold**

* relative to occupationally active

Table 7: Variances at municipality and (nested) five-digit postal code neighbourhood levels from multilevel models, adjusted at individual level for sex, age group, socio-economic group and household income

ICPC grouping	Municipality	Neighbourhood
High blood pressure	<0.01	0.10
Cardiac disease	<0.01	0.05
Coronary heart disease	<0.01	0.77
Stroke, brain haemorrhage	<0.01	<0.01
Depression	0.07	<0.01
Anxiety disorder	<0.01	0.06
Asthma, COPD	<0.01	0.12
Migraine/severe headache	0.01	0.13
Medically Unexplained Physical Symptoms	0.07	0.05
Diabetes	0.15	0.11

Table 8: Associations (Odds Ratios and 95% confidence intervals) between neighbourhood characteristics and the prevalence of 10 disease groupings. N=4,450 individuals nested in 135 neighbourhoods in 43 municipalities. Multilevel models adjusted for sex, age, household income, socio-economic status (individual level) and address density (group level).

	High blood pressure	Cardiac disease	Coronary heart disease	Stroke, brain haemorrhage	Depression	Anxiety disorder	Asthma, COPD	Migraine / severe headache	MUPS	Diabetes
Social cohesion municipality	1.70 (0.71–4.05)	0.98 (0.39–2.48)	0.91 (0.17–5.04)	1.44 (0.35–5.94)	0.53 (0.20–1.43)	0.53 (0.16–1.76)	1.03 (0.45–2.38)	0.58 (0.18–1.88)	0.58 (0.26–1.26)	0.78 (0.24–2.53)
Social cohesion neighbourhood	0.64 (0.13–3.14)	6.25 (1.30–30.0)	42.0 (1.55–1136)	0.87 (0.08–9.08)	1.21 (0.21–6.91)	0.97 (0.11–8.22)	0.33 (0.07–1.68)	0.46 (0.05–4.25)	1.37 (0.45–4.20)	0.62 (0.10–3.94)
Collective efficacy municipality	2.13 (0.77–5.88)	1.03 (0.31–3.38)	0.72 (0.09–5.59)	2.42 (0.42–14.0)	0.51 (0.16–1.58)	1.11 (0.28–4.31)	0.91 (0.35–2.34)	0.55 (0.14–2.11)	0.59 (0.24–1.45)	1.16 (0.27–5.01)
Collective efficacy neighbourhood	0.55 (0.11–2.82)	1.65 (0.22–12.5)	33.8 (0.83–1383)	0.91 (0.05–16.4)	1.02 (0.14–7.21)	0.16 (0.02–1.32)	0.25 (0.05–1.15)	0.45 (0.05–4.21)	0.67 (0.22–2.05)	1.44 (0.18–11.3)
Natural green [per 10%]	0.97 (0.87–1.08)	0.89 (0.81–0.99)	0.84 (0.65–1.08)	1.01 (0.89–1.15)	1.09 (0.97–1.22)	0.98 (0.84–1.15)	0.94 (0.83–1.06)	0.85 (0.69–1.06)	1.01 (0.93–1.10)	1.02 (0.90–1.17)
Agricultural green [per 10%]	1.00 (0.95–1.05)	1.00 (0.95–1.06)	1.03 (0.93–1.15)	0.96 (0.87–1.05)	0.98 (0.92–1.04)	0.93 (0.87–1.00)	1.00 (0.95–1.05)	1.00 (0.93–1.07)	1.00 (0.96–1.04)	0.99 (0.93–1.06)
Total green [per 10%]	1.00 (0.95–1.04)	0.98 (0.93–1.04)	1.00 (0.90–1.10)	0.97 (0.89–1.05)	1.00 (0.94–1.06)	0.94 (0.88–1.00)	0.99 (0.94–1.03)	0.98 (0.91–1.05)	1.00 (0.97–1.04)	1.00 (0.94–1.06)
Blue spaces [per 1%]	0.96 (0.94–0.98)	1.00 (0.98–1.03)	0.98 (0.93–1.03)	1.00 (0.95–1.04)	1.01 (0.98–1.04)	1.00 (0.97–1.04)	1.00 (0.97–1.02)	0.99 (0.96–1.03)	0.99 (0.97–1.01)	0.96 (0.93–0.99)
Shannon index	0.90 (0.63–1.29)	0.60 (0.42–0.86)	0.52 (0.27–1.03)	1.07 (0.61–1.88)	0.70 (0.43–1.14)	0.84 (0.53–1.33)	0.79 (0.57–1.09)	0.77 (0.47–1.26)	0.98 (0.75–1.29)	0.89 (0.55–1.42)

PM ₁₀ [per 10 µg/m ³]	0.83 (0.35–1.95)	0.77 (0.29–2.05)	2.29 (0.42–12.6)	0.64 (0.15–2.67)	1.67 (0.48–5.83)	1.04 (0.34–3.18)	0.80 (0.36–1.78)	0.83 (0.27–2.54)	0.82 (0.39–1.73)	1.40 (0.44–4.46)
PM _{2.5} [per 10 µg/m ³]	0.97 (0.25–3.69)	0.37 (0.07–1.88)	5.93 (0.41–85.3)	0.19 (0.02–1.94)	5.00 (1.15–21.8)	0.28 (0.05–1.68)	0.55 (0.15–2.00)	1.08 (0.17–6.92)	0.72 (0.25–2.06)	0.65 (0.11–3.91)
NO ₂ [per 10 µg/m ³]	0.93 (0.77–1.13)	1.04 (0.83–1.30)	1.14 (0.79–1.66)	1.00 (0.71–1.39)	1.04 (0.85–1.29)	1.13 (0.89–1.43)	0.97 (0.81–1.15)	0.99 (0.77–1.27)	0.97 (0.83–1.13)	1.14 (0.90–1.46)
Noise road traffic [per 10 LDEN]	0.98 (0.63–1.51)	0.91 (0.59–1.41)	1.33 (0.63–2.78)	0.88 (0.48–1.59)	1.05 (0.68–1.62)	0.91 (0.56–1.49)	0.90 (0.64–1.27)	0.74 (0.45–1.24)	0.88 (0.65–1.19)	1.20 (0.68–2.09)
Noise railway traffic [per 10 LDEN]	1.00 (0.86–1.16)	0.99 (0.83–1.17)	0.89 (0.65–1.22)	0.89 (0.70–1.14)	0.99 (0.83–1.17)	1.06 (0.87–1.28)	1.01 (0.87–1.16)	0.84 (0.68–1.04)	0.99 (0.87–1.12)	1.06 (0.87–1.29)

MUPS: Medically Unexplained Physical Symptoms

Statistically significant (p<0.05) associations are given in **bold**