

Appendix

Table A1. Categories, codes, and sources for dependent and independent variables.

Variable	Category	Code	Sources	Variable	Category	Code	Source
Gender [§]	Male	0	Statistics Netherlands	Physical activity*	Insufficient	1	Health Survey
	Female	1	Statistics Netherlands		Sufficient	0	Health Survey
Migration background [§]	Dutch-born	0	Statistics Netherlands	BMI*	Underweight (<18.5)	1	Health Survey
	Western migration background	1	Statistics Netherlands		Normal (18.5-25)	0	Health Survey
	Non-western migration background	2	Statistics Netherlands		Overweight (25-30)	2	Health Survey
Marital status [*]	Married/living together	0	Health Survey	Alcohol consumption*	Obese (30>)	3	Health Survey
	Never married	1	Health Survey		Never	0	Health Survey
	Widowed	2	Health Survey		Moderate	1	Health Survey
	Divorced	3	Health Survey		Excessive	2	Health Survey
Highest attained level of education [*]	Primary school	3	Health Survey	Smoking*	Never smoked	0	Health Survey
	Lower vocational education	2	Health Survey		Former smoker	1	Health Survey
	Middle vocational/secondary	1	Health Survey		Current smoker	2	Health Survey
	Higher vocational/university	0	Health Survey				
Standardized household income quartile [§]	0-25%	3	Statistics Netherlands	Loneliness*	Continuous score 0-11 ¹	N/a	Health Survey
	26-50%	2	Statistics Netherlands		Mastery*	Continuous score 7-35 ²	n/a
	51-75%	1	Statistics Netherlands	Chronic disease*	None	0	Health Survey
	76-100%	0	Statistics Netherlands		At least one	1	Health Survey
Self-perceived income inadequacy [*]	Inadequate, major concerns	3	Health Survey	Self-rated health*	Very (good)	0	Health Survey
	Inadequate, some concerns	2	Health Survey		Fair, (very) poor	1	Health Survey
				Psychological distress*	No, low or moderate risk (score 10-29) ²	0	Health Survey
	Adequate, minor concerns	1	Health Survey		High (score 30-50) ²	1	Health Survey
	Adequate, no concerns	0	Health Survey				

BMI: body mass index. §Registry data *Self-reported data (Health Survey). ¹ The variables loneliness and mastery are continuous variables. The 11 statements for loneliness (table A2) are answered “yes”, “more or less” or “no” and result in a score between 0 and 11. Respondents scoring 0,1 or 2 are considered not lonely, respondents scoring between 3 up until 8 are somewhat lonely, respondents scoring 9 or 10 are severely lonely and respondents scoring 11 are very severely lonely. The 7 statements for mastery are answered on a 5-point Likert scale (totally agree [lowest score 1], agree, neither agree or disagree, disagree or totally disagree [highest score 5]). This results to a score between 7 and 35, a score of 19 or lower is considered as insufficient mastery. ² The variable risk for psychological distress is based on the Kessler-10 questionnaire. The 10 questions (table A2) are answered on a 5-point Likert scale (all the time, most of the time, some of the time, a little of the time, and none of the time). The K10 score varies between 10 (no risk) and maximum 50 (high risk).

Table A2. Statements/questions for the variables loneliness, mastery and psychological distress.

Loneliness (De Jong-Gierveld 1985)¹

1. There is always someone I can talk to about my day-to-day problems.
2. I miss having a really close friend.
3. I experience a general sense of emptiness.
4. There are plenty of people I can lean on when I have problems.
5. I miss the pleasure of the company of others.
6. I find my circle of friends and acquaintances too limited.
7. There are many people I can trust completely.
8. There are enough people I feel close to.
9. I miss having people around me.
10. I often feel rejected.

Mastery (Pearlin & Schooler 1978)²

1. I have little control over the things that happen to me.
2. No way I can solve some of the problems I have.
3. There is little I can do to change many of the important things of life.
4. I often feel helpless in dealing with the problems of life.
5. Sometimes I feel that I am being pushed around in life.
6. What happens in the future mostly depends on me.
7. I can do just about anything I really set my mind to.

Psychological distress (Kessler 2002) [K10]³

In the past 4 weeks...

1. About how often did you feel tired out for no good reason?
2. About how often did you feel nervous?
3. About how often did you feel so nervous that nothing could calm you down?
4. About how often did you feel hopeless?
5. About how often did you feel restless or fidgety?
6. About how often did you feel so restless you could not sit still?
7. About how often did you feel depressed?
8. About how often did you feel that everything was an effort?
9. About how often did you feel so sad that nothing could cheer you up?
10. About how often did you feel worthless?

¹ The 11 statements by De Jong-Gierveld are answered “yes”, “more or less” or “no”. ² The 7 statements by Pearlin & Schooler are answered on a 5-point Likert scale (totally agree, agree, neither agree or disagree, disagree or totally disagree). ³ The K10 questions are answered on a 5-point Likert scale (all the time, most of the time, some of the time, a little of the time, and none of the time).

Table A3. Missing data (n=457,150)

Variable	N	(%)
Region*	0	(0)
Age[§]	0	(0)
Gender[§]	0	(0)
Migration background[§]	0	(0)
Marital state*	11,192	(2.4)
Highest attained level of education *	31,422	(6.9)
Standardized household income quartile[§]	737	(0.2)
Income inadequacy*	35,643	(7.8)
Physical activity*	33,488	(7.3)
BMI*	21,261	(4.7)
Alcohol consumption*	36,967	(8.1)
Smoking*	32,605	(7.1)
Chronic disease*	8,808	(1.9)
Self-rated health*	5,730	(1.3)
Psychological distress*	20,103	(4.4)
Loneliness*	36,364	(8.0)
Mastery*	36,612	(8.0)

BMI: body mass index. §Registry data *Self-rated data (Health Survey).

Table A4. Descriptive weighted data

Variable	Category	%
Gender [§]	Male	50.9
Migration background [§]	Dutch-born	78.8
	Western migration background	4.9
Marital status *	Married/living together	66.1
	Never married	20.3
	Widowed	7.4
Highest attained level of education *	Primary school	6.2
	Lower vocational education	24.4
	Middle vocational/secondary	35.0
Standardized household income quartile [§]	0-25%	18.7
	26-50%	23.7
	51-75%	27.4
Self perceived income inadequacy *	Inadequate, major concerns	4.7
	Inadequate, some concerns	13.5
	Adequate, minor concerns	35.2
Physical activity *	Insufficient	34.7
Body Mass Index *	Normal (18,5-25)	49.4
	Overweight (25-30)	35.1
	Obese (30>)	13.8
Alcohol consumption *	Never	24.4
	Moderate	75.6
Smoking *	Never smoked	45.8
	Former smoker	33.3
Loneliness *	Somewhat or (very) severely (scores >2) ¹	42.8
Mastery *	Insufficient (score <20) ²	9.9
Chronic disease *	None	66.0
Self-rated health *	Very (good)	75.6
Psychological distress *	No, low or moderate risk	93.5

BMI: body mass index. §Registry data *Self-rated data (Health Survey). ¹The variables loneliness and mastery are continuous variables. The 11 statements to determine degree of loneliness (table A2) are answered “yes”, “more or less” or “no” and result in a score between 0 and 11. Respondents scoring 0,1 or 2 are considered not lonely, respondents scoring between 3 and 8 are somewhat lonely, respondents scoring 9 or 10 are severely lonely and respondents scoring 11 are very severely lonely. The 7 statements for mastery are answered on a 5-point Likert scale (totally agree [lowest score 1], agree, neither agree or disagree, disagree or totally disagree [highest score 5]). This results to a score between 7 and 35, a score of 19 or lower is considered as insufficient mastery. ²The variable risk for psychological distress is based on the Kessler-10 questionnaire. The 10 questions (table A2) are answered on a 5-point Likert scale (all the time, most of the time, some of the time, a little of the time, and none of the time). The K10 score varies between 10 (no risk) and maximum 50 (high risk).

Table A5. Percentages per region (n = 334,721)

	<u>BMI</u>		<u>Alcohol-consumption</u>	<u>Smoking</u>		<u>Physical activity</u>	<u>Loneliness</u>	<u>Mastery</u>	<u>Self-rated health</u>	<u>Chronic disease</u>	<u>Psychological distress</u>
	Over-weight	Obese	Excessive	Former smoker	Smoker	In-sufficient	Somewhat or (very) severe ¹	In-sufficient ²	Fair or (very) poor	At least one	High risk
Zuid-Limburg	35,4	16,3	7,4	33,7	22,3	40,6	46,6	11,4	28,0	37,1	7,1
Zuid-Holland-Zuid	36,3	15,1	5,3	32,4	21,1	38,0	41,2	9,5	21,1	30,6	4,9
Zeeland	36,5	13,7	6,2	35,5	17,5	29,9	45,5	10,0	25,6	32,7	5,2
Zaanstreek-Waterland	36,1	14,7	7,3	34,0	21,5	34,0	39,8	9,4	23,0	35,1	5,8
West-Brabant	36,1	13,5	6,5	35,1	17,8	34,8	42,1	9,3	24,6	30,1	5,5
Utrecht	31,2	11,6	7,6	31,4	19,6	33,3	39,5	7,9	20,3	30,6	5,0
Twente	37,4	14,0	8,1	33,1	20,5	29,2	39,3	8,1	21,1	33,4	7,0
Rotterdam	35,4	15,6	6,3	29,7	24,0	39,7	45,6	10,6	26,0	35,0	7,7
Noord- en Oost-Gelderland	37,7	13,8	6,7	36,3	18,5	31,0	36,7	8,5	20,5	35,5	5,3
Limburg-Noord	37,1	13,7	6,5	37,5	18,6	33,7	43,6	8,9	24,1	34,4	4,8
Kennemerland	34,4	12,3	8,0	35,3	19,3	31,6	39,6	7,7	19,9	31,3	4,9
IJsselland	35,5	12,5	7,2	35,5	20,1	31,3	37,8	8,2	20,1	33,9	5,3
Hollands Noorden	34,9	12,9	7,8	36,2	19,6	30,8	39,7	8,3	21,7	32,4	5,1
Hollands Midden	35,4	12,9	7,7	33,3	18,5	31,5	40,1	9,4	20,0	34,8	6,0
Hart voor Brabant	35,4	13,6	7,7	34,8	19,0	33,0	40,0	8,9	23,4	31,1	5,6
Haaglanden	33,9	13,7	6,7	28,2	21,3	34,5	46,6	10,9	24,7	36,2	8,9
Groningen	34,9	13,9	8,0	32,1	24,4	33,8	41,5	8,0	21,9	35,5	4,8
Gooi en Vechtstreek	32,9	9,9	8,6	37,5	17,8	37,5	37,5	7,9	21,1	31,6	5,2
Gelderland-Zuid	34,3	12,8	7,0	31,3	21,6	35,0	40,7	8,5	21,0	31,9	6,1
Gelderland-Midden	32,7	13,8	5,9	33,4	19,4	33,2	41,1	8,9	21,2	34,7	6,9
Friesland	36,2	13,2	7,2	36,2	21,4	32,6	41,9	8,8	20,4	33,3	4,9
Flevoland	37,7	14,5	4,4	32,0	17,5	40,8	42,5	9,6	22,8	34,6	7,0
Drenthe	37,0	15,1	8,2	35,3	22,9	32,5	40,1	8,2	21,2	33,2	4,8
Brabant-Zuidoost	35,0	12,0	7,7	34,5	18,1	31,4	42,0	9,9	24,6	30,9	6,1
Amsterdam	28,6	11,6	9,9	30,7	25,8	31,5	44,5	8,7	22,1	30,8	6,8

BMI: body mass index. Results based on weighted data.¹Continuous variable, percentage of respondents scoring 3 or higher (of 11) for the De Jong-Gierveld scale. These respondents experience some degree of loneliness (somewhat, severe or very severe).²Continuous variable, percentage of respondents scoring 19 or lower (scale 7-35) for mastery, these respondents experience insufficient mastery.

Table A6. Prevalence ratios per region for self-rated health being fair or (very) poor, compared to Zuid-Limburg.

PR (95%CI)	Model 1	Model 2	Model 3a	Model 3b	Model 3c	Model 4
Zuid-Limburg	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)
Zuid-Holland-Zuid	0,75 (0,70-0,80)	0,80 (0,75-0,85)	0,81 (0,76-0,86)	0,83 (0,78-0,88)	0,81 (0,77-0,86)	0,83 (0,79-0,88)
Zeeland	0,91 (0,85-0,96)	0,94 (0,89-1,00)	1,02 (0,96-1,07)	0,94 (0,89-0,99)	0,94 (0,89-1,00)	1,00 (0,95-1,05)
Zaanstreek-Waterland	0,82 (0,78-0,86)	0,85 (0,81-0,89)	0,89 (0,85-0,93)	0,90 (0,86-0,95)	0,89 (0,85-0,94)	0,94 (0,90-0,98)
West-Brabant	0,88 (0,84-0,93)	0,95 (0,90-1,00)	1,00 (0,95-1,05)	0,96 (0,91-1,01)	0,96 (0,91-1,00)	1,00 (0,95-1,05)
Utrecht	0,73 (0,69-0,76)	0,85 (0,82-0,89)	0,90 (0,86-0,93)	0,89 (0,86-0,93)	0,89 (0,86-0,93)	0,94 (0,90-0,98)
Twente	0,75 (0,71-0,80)	0,81 (0,77-0,86)	0,85 (0,81-0,90)	0,86 (0,81-0,90)	0,84 (0,80-0,89)	0,88 (0,83-0,93)
Rotterdam	0,93 (0,89-0,97)	0,85 (0,82-0,88)	0,87 (0,83-0,90)	0,89 (0,86-0,93)	0,90 (0,87-0,93)	0,93 (0,89-0,96)
Noord- en Oost-Gelderland	0,73 (0,69-0,77)	0,83 (0,79-0,87)	0,87 (0,83-0,92)	0,87 (0,83-0,92)	0,84 (0,81-0,88)	0,89 (0,85-0,93)
Limburg-Noord	0,86 (0,82-0,90)	0,90 (0,86-0,94)	0,95 (0,91-0,99)	0,91 (0,87-0,96)	0,94 (0,90-0,98)	0,97 (0,93-1,01)
Kennemerland	0,72 (0,68-0,76)	0,78 (0,74-0,83)	0,83 (0,79-0,88)	0,82 (0,78-0,87)	0,85 (0,81-0,89)	0,90 (0,85-0,94)
IJsselland	0,72 (0,67-0,77)	0,84 (0,78-0,90)	0,89 (0,83-0,95)	0,88 (0,83-0,95)	0,86 (0,80-0,91)	0,91 (0,85-0,97)
Hollands Noorden	0,78 (0,74-0,82)	0,84 (0,80-0,89)	0,90 (0,86-0,95)	0,88 (0,84-0,93)	0,91 (0,86-0,95)	0,95 (0,91-0,99)
Hollands Midden	0,72 (0,68-0,75)	0,82 (0,78-0,86)	0,87 (0,83-0,91)	0,85 (0,82-0,89)	0,81 (0,77-0,84)	0,86 (0,82-0,90)
Hart voor Brabant	0,88 (0,84-0,93)	0,93 (0,89-0,97)	0,98 (0,94-1,02)	0,95 (0,91-0,99)	0,96 (0,92-1,00)	0,92 (0,88-0,96)
Haaglanden	0,84 (0,80-0,88)	0,86 (0,82-0,90)	0,89 (0,85-0,93)	0,89 (0,85-0,93)	0,89 (0,85-0,93)	1,00 (0,96-1,05)
Groningen	0,79 (0,74-0,83)	0,85 (0,81-0,90)	0,88 (0,84-0,93)	0,90 (0,86-0,95)	0,93 (0,89-0,98)	0,96 (0,92-1,01)
Gooi en Vechtstreek	0,76 (0,70-0,81)	0,82 (0,77-0,88)	0,88 (0,82-0,94)	0,88 (0,83-0,94)	0,87 (0,82-0,93)	0,94 (0,88-0,99)
Gelderland-Zuid	0,75 (0,71-0,79)	0,85 (0,80-0,89)	0,88 (0,84-0,92)	0,88 (0,84-0,92)	0,87 (0,83-0,91)	0,90 (0,86-0,95)
Gelderland-Midden	0,76 (0,71-0,81)	0,84 (0,79-0,90)	0,88 (0,83-0,94)	0,86 (0,81-0,92)	0,85 (0,80-0,90)	0,89 (0,84-0,94)
Friesland	0,73 (0,69-0,77)	0,78 (0,74-0,82)	0,82 (0,78-0,87)	0,82 (0,78-0,86)	0,83 (0,79-0,87)	0,86 (0,82-0,91)
Flevoland	0,81 (0,71-0,92)	0,88 (0,78-0,99)	0,91 (0,81-1,02)	0,91 (0,82-1,02)	0,94 (0,84-1,05)	0,96 (0,87-1,07)
Drenthe	0,76 (0,70-0,82)	0,80 (0,74-0,86)	0,82 (0,76-0,88)	0,84 (0,78-0,90)	0,86 (0,80-0,92)	0,88 (0,82-0,94)
Brabant-Zuidoost	0,88 (0,84-0,92)	0,98 (0,93-1,02)	1,05 (1,00-1,09)	1,00 (0,95-1,04)	0,97 (0,93-1,02)	1,04 (0,99-1,08)
Amsterdam	0,79 (0,74-0,84)	0,77 (0,73-0,82)	0,81 (0,77-0,86)	0,82 (0,78-0,87)	0,85 (0,80-0,89)	0,88 (0,84-0,93)

PR: prevalence ratio. CI: confidence interval. PR's in bold are significant $p < 0.05$. Model 1: region. Model 2: region, demographic factors, and SES. Model 3a: region, demographic factors, SES, and lifestyle. Model 3b: region, demographic factors, SES, and loneliness. Model 3c: region, demographic factors, SES, and mastery. Model 4: region, demographic factors, SES, lifestyle, loneliness, and mastery. Results from robust Poisson regressions ($n = 334,721$), based on weighted data.

Table A7. Prevalence ratios per region for at least one chronic disease, compared to Zuid-Limburg.

PR (95% CI)	Model 1	Model 2	Model 3a	Model 3b	Model 3c	Model 4
Zuid-Limburg	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)
Zuid-Holland-Zuid	0,83 (0,78-0,87)	0,86 (0,82-0,91)	0,87 (0,82-0,91)	0,88 (0,83-0,92)	0,87 (0,83-0,91)	0,88 (0,84-0,92)
Zeeland	0,87 (0,83-0,91)	0,87 (0,83-0,91)	0,90 (0,86-0,94)	0,87 (0,83-0,91)	0,87 (0,83-0,91)	0,89 (0,85-0,93)
Zaanstreek-Waterland	0,93 (0,90-0,97)	0,96 (0,93-1,00)	0,98 (0,94-1,02)	0,99 (0,95-1,03)	0,99 (0,95-1,02)	1,01 (0,97-1,05)
West-Brabant	0,81 (0,77-0,84)	0,84 (0,80-0,87)	0,85 (0,82-0,89)	0,84 (0,81-0,88)	0,84 (0,80-0,87)	0,85 (0,82-0,89)
Utrecht	0,82 (0,79-0,85)	0,91 (0,88-0,94)	0,94 (0,91-0,97)	0,93 (0,90-0,96)	0,93 (0,91-0,96)	0,95 (0,93-0,98)
Twente	0,89 (0,85-0,94)	0,94 (0,90-0,99)	0,97 (0,93-1,01)	0,97 (0,93-1,01)	0,96 (0,92-1,00)	0,98 (0,94-1,02)
Rotterdam	0,94 (0,91-0,97)	0,94 (0,91-0,98)	0,95 (0,92-0,98)	0,96 (0,93-1,00)	0,97 (0,94-1,00)	0,98 (0,95-1,01)
Noord- en Oost-Gelderland	0,95 (0,92-0,99)	1,00 (0,97-1,04)	1,02 (0,99-1,06)	1,03 (0,99-1,07)	1,01 (0,97-1,05)	1,03 (0,99-1,07)
Limburg-Noord	0,93 (0,89-0,96)	0,94 (0,91-0,98)	0,96 (0,93-1,00)	0,95 (0,92-0,98)	0,96 (0,93-0,99)	0,97 (0,94-1,01)
Kennemerland	0,84 (0,80-0,88)	0,88 (0,84-0,92)	0,90 (0,87-0,94)	0,90 (0,87-0,94)	0,92 (0,88-0,95)	0,94 (0,90-0,97)
IJsselland	0,91 (0,87-0,96)	1,00 (0,96-1,05)	1,03 (0,98-1,08)	1,03 (0,98-1,08)	1,01 (0,96-1,05)	1,03 (0,98-1,08)
Hollands Noorden	0,87 (0,83-0,91)	0,90 (0,87-0,94)	0,93 (0,90-0,97)	0,92 (0,89-0,96)	0,94 (0,90-0,98)	0,96 (0,92-0,99)
Hollands Midden	0,93 (0,90-0,97)	1,01 (0,97-1,04)	1,03 (1,00-1,07)	1,03 (0,99-1,06)	0,99 (0,96-1,02)	1,02 (0,98-1,05)
Hart voor Brabant	0,84 (0,80-0,87)	0,88 (0,85-0,91)	0,90 (0,87-0,94)	0,89 (0,86-0,93)	0,89 (0,86-0,93)	0,91 (0,88-0,94)
Haaglanden	0,97 (0,93-1,01)	1,00 (0,97-1,04)	1,02 (0,99-1,06)	1,02 (0,98-1,06)	1,02 (0,99-1,06)	1,04 (1,00-1,08)
Groningen	0,95 (0,91-0,99)	1,01 (0,97-1,05)	1,03 (0,99-1,07)	1,04 (0,99-1,08)	1,05 (1,01-1,09)	1,06 (1,02-1,11)
Gooi en Vechtstreek	0,85 (0,81-0,90)	0,87 (0,83-0,92)	0,90 (0,86-0,95)	0,90 (0,85-0,95)	0,90 (0,86-0,95)	0,93 (0,89-0,98)
Gelderland-Zuid	0,86 (0,82-0,90)	0,93 (0,89-0,97)	0,94 (0,91-0,98)	0,94 (0,91-0,98)	0,93 (0,90-0,97)	0,95 (0,91-0,99)
Gelderland-Midden	0,93 (0,88-0,98)	0,99 (0,94-1,04)	1,01 (0,96-1,06)	1,00 (0,96-1,05)	0,99 (0,94-1,04)	1,01 (0,96-1,06)
Friesland	0,89 (0,86-0,93)	0,91 (0,88-0,95)	0,93 (0,90-0,97)	0,93 (0,89-0,97)	0,94 (0,90-0,97)	0,95 (0,92-0,99)
Flevoland	0,93 (0,85-1,02)	1,01 (0,92-1,10)	1,02 (0,94-1,11)	1,03 (0,94-1,12)	1,03 (0,95-1,13)	1,05 (0,96-1,14)
Drenthe	0,90 (0,84-0,95)	0,91 (0,86-0,96)	0,92 (0,87-0,97)	0,93 (0,88-0,98)	0,94 (0,89-1,00)	0,95 (0,90-1,01)
Brabant-Zuidoost	0,83 (0,80-0,87)	0,87 (0,84-0,91)	0,90 (0,87-0,94)	0,88 (0,85-0,92)	0,87 (0,84-0,91)	0,90 (0,86-0,93)
Amsterdam	0,83 (0,79-0,87)	0,88 (0,84-0,92)	0,90 (0,86-0,94)	0,90 (0,86-0,94)	0,92 (0,88-0,96)	0,93 (0,89-0,98)

PR: prevalence ratio. CI: confidence interval. PR's in bold are significant $p < 0.05$. Model 1: region. Model 2: region, demographic factors, and SES. Model 3a: region, demographic factors, SES, and lifestyle. Model 3b: region, demographic factors, SES, and loneliness. Model 3c: region, demographic factors, SES, and mastery. Model 4: region, demographic factors, SES, lifestyle, loneliness, and mastery. Results from robust Poisson regressions ($n = 334,721$), based on weighted data.

Table A8. Odds ratios per region for high risk for psychological distress, compared to Zuid-Limburg.

OR (95% CI)	Model 1	Model 2	Model 3a	Model 3b	Model 3c	Model 4
Zuid-Limburg	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)	1,00 (ref)
Zuid-Holland-Zuid	0,66 (0,54-0,79)	0,71 (0,58-0,86)	0,72 (0,59-0,88)	0,77 (0,63-0,95)	0,69 (0,54-0,88)	0,76 (0,60-0,96)
Zeeland	0,70 (0,58-0,84)	0,83 (0,68-1,00)	0,91 (0,75-1,11)	0,81 (0,66-0,99)	0,77 (0,62-0,96)	0,80 (0,64-0,99)
Zaanstreek-Waterland	0,82 (0,72-0,94)	0,86 (0,75-1,00)	0,92 (0,80-1,06)	1,06 (0,91-1,23)	0,97 (0,82-1,15)	1,09 (0,92-1,30)
West-Brabant	0,75 (0,65-0,88)	0,89 (0,76-1,04)	0,95 (0,81-1,12)	0,92 (0,78-1,08)	0,92 (0,76-1,12)	0,96 (0,79-1,16)
Utrecht	0,69 (0,61-0,77)	0,77 (0,69-0,87)	0,82 (0,73-0,93)	0,89 (0,79-1,01)	0,87 (0,75-1,00)	0,94 (0,81-1,09)
Twente	0,96 (0,81-1,14)	1,08 (0,91-1,28)	1,18 (0,98-1,40)	1,30 (1,08-1,57)	1,31 (1,07-1,60)	1,49 (1,20-1,84)
Rotterdam	1,07 (0,96-1,19)	0,78 (0,69-0,88)	0,80 (0,71-0,90)	0,91 (0,80-1,04)	0,92 (0,80-1,06)	0,99 (0,86-1,15)
Noord- en Oost-Gelderland	0,71 (0,62-0,81)	0,94 (0,82-1,08)	1,02 (0,88-1,17)	1,04 (0,90-1,21)	0,97 (0,83-1,14)	1,05 (0,89-1,25)
Limburg-Noord	0,67 (0,59-0,76)	0,77 (0,67-0,88)	0,81 (0,71-0,93)	0,78 (0,67-0,90)	0,82 (0,70-0,97)	0,84 (0,71-0,99)
Kennemerland	0,68 (0,58-0,79)	0,76 (0,65-0,89)	0,82 (0,70-0,96)	0,87 (0,74-1,03)	0,90 (0,75-1,08)	1,01 (0,84-1,22)
IJsselland	0,70 (0,58-0,84)	0,86 (0,71-1,05)	0,94 (0,77-1,14)	1,02 (0,83-1,26)	0,86 (0,69-1,08)	0,99 (0,79-1,25)
Hollands Noorden	0,71 (0,61-0,82)	0,78 (0,67-0,91)	0,85 (0,73-0,99)	0,90 (0,77-1,06)	0,86 (0,72-1,03)	0,95 (0,79-1,14)
Hollands Midden	0,82 (0,72-0,92)	1,00 (0,88-1,14)	1,09 (0,95-1,24)	1,15 (1,00-1,32)	0,96 (0,82-1,13)	1,11 (0,94-1,30)
Hart voor Brabant	0,76 (0,67-0,86)	0,91 (0,80-1,04)	0,98 (0,86-1,12)	0,99 (0,86-1,15)	0,99 (0,84-1,17)	1,05 (0,89-1,24)
Haaglanden	1,27 (1,12-1,44)	1,05 (0,92-1,19)	1,10 (0,96-1,26)	1,17 (1,02-1,35)	1,13 (0,96-1,34)	1,22 (1,03-1,44)
Groningen	0,66 (0,57-0,78)	0,65 (0,55-0,77)	0,69 (0,59-0,82)	0,80 (0,67-0,95)	0,76 (0,62-0,92)	0,84 (0,69-1,03)
Gooi en Vechtstreek	0,71 (0,58-0,87)	0,82 (0,66-1,02)	0,88 (0,71-1,09)	0,99 (0,79-1,25)	0,88 (0,69-1,13)	1,01 (0,78-1,29)
Gelderland-Zuid	0,86 (0,75-0,98)	0,98 (0,85-1,13)	1,04 (0,90-1,20)	1,13 (0,97-1,32)	1,09 (0,92-1,29)	1,19 (0,99-1,42)
Gelderland-Midden	0,95 (0,78-1,14)	1,10 (0,91-1,32)	1,16 (0,97-1,40)	1,18 (0,97-1,43)	1,10 (0,89-1,35)	1,19 (0,97-1,46)
Friesland	0,66 (0,57-0,77)	0,75 (0,64-0,88)	0,80 (0,68-0,94)	0,86 (0,73-1,02)	0,86 (0,72-1,03)	0,95 (0,79-1,14)
Flevoland	1,01 (0,74-1,37)	0,98 (0,71-1,35)	1,03 (0,74-1,43)	1,12 (0,80-1,55)	1,18 (0,84-1,67)	1,27 (0,90-1,79)
Drenthe	0,65 (0,52-0,80)	0,70 (0,56-0,88)	0,71 (0,57-0,90)	0,79 (0,62-1,02)	0,80 (0,60-1,07)	0,84 (0,63-1,13)
Brabant-Zuidoost	0,83 (0,73-0,94)	1,01 (0,88-1,17)	1,12 (0,97-1,29)	1,08 (0,93-1,25)	0,99 (0,84-1,18)	1,04 (0,87-1,24)
Amsterdam	0,96 (0,84-1,11)	0,73 (0,62-0,85)	0,77 (0,66-0,90)	0,90 (0,76-1,06)	0,93 (0,78-1,11)	1,03 (0,86-1,23)

PR: prevalence ratio. CI: confidence interval. PR's in bold are significant $p < 0.05$. Model 1: region. Model 2: region, demographic factors, and SES. Model 3a: region, demographic factors, SES, and lifestyle. Model 3b: region, demographic factors, SES, and loneliness. Model 3c: region, demographic factors, SES, and mastery. Model 4: region, demographic factors, SES, lifestyle, loneliness, and mastery. Results from robust Poisson regressions ($n = 334,721$), based on weighted data.