Appendix D – Sensitivity analysis

In the sensitivity analysis the outcome complex multimorbidity was created from available conditions in the main questionnaire only. In total 22 conditions, grouped in 12 *ICD-10* chapters were included vs 51 conditions, grouped in *14 ICD-10* chapters in the original measure.

The sensitivity analysis was performed to investigate if fewer number and types of conditions included in the complex multimorbidity measure, produced a similar pattern with respect to the overall prevalence as well as differences between occupational groups.

Total prevalences and prevalences by occupational group and age, stratified by sex (table D1), were obtained by cross tables.

Table D1. Sociodemographic distribution of complex multimorbidity

	Women						Men					
	No, *n*	(%)	Yes, *n*	(%)	Total, *n*	(%)	No, *n*	(%)	Yes, *n*	(%)	Total, *n*	(%)
Total	17376	(83)	3437	(17)	20813	(100)	14815	(86)	2399	(14)	17214	(100)
Occupational group												
High	4032	(90)	473	(11)	4505	(100)	4026	(90)	439	(10)	4465	(100)
Middle	4612	(86)	774	(14)	5386	(100)	4147	(85)	710	(15)	4857	(100)
Low	8732	(80)	2190	(20)	10922	(100)	6642	(84)	1250	(16)	7892	(100)
Age, years												
25-44	5610	(94)	371	(6)	5981	(100)	3776	(96)	167	(4)	3943	(100)
45-64	8233	(84)	1607	(16)	9840	(100)	7381	(88)	985	(12)	8366	(100)
65-74	2331	(74)	837	(26)	3168	(100)	2417	(78)	676	(22)	3093	(100)
75-100	1202	(66)	622	(34)	1824	(100)	1241	(68)	571	(32)	1812	(100)
Mean, (SD)	53	(14)	62	(13)	54	(14)	55	(14)	65	(12)	56	(14)

Prevalence ratios and differences between occupational groups at ages 30, 55, 75 and 90 years were derived from logistic regression estimates (table D2).

Table D2. Prevalence ratios (PR) and prevalence differences (PD) with 95% confidence intervals (CI) in complex multimorbidity between occupational classes, stratified by sex.

Age, years	Occupational group	Women				Men			
		PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
30	High	1.00	(ref.)	0.00	(ref.)	1.00	(ref.)	0.00	(ref.)
	Middle	1.91	(1.41, 2.57)	0.02	(0.01, 0.03)	1.28	(0.88, 1.86)	0.01	(0.00, 0.01)
	Low	3.47	(2.68, 4.49)	0.05	(0.04, 0.06)	1.96	(1.42, 2.71)	0.02	(0.01, 0.03)
55	High	1.00	(ref.)	0.00	(ref.)	1.00	(ref.)	0.00	(ref.)
	Middle	1.18	(1.05, 1.33)	0.02	(0.01, 0.03)	1.31	(1.13, 1.52)	0.02	(0.01, 0.04)
	Low	1.59	(1.44, 1.76)	0.07	(0.05, 0.08)	1.68	(1.48, 1.91)	0.05	(0.04, 0.06)
75	High	1.00	(ref.)	0.00	(ref.)	1.00	(ref.)	0.00	(ref.)
	Middle	0.88	(0.77, 1.01)	-0.04	(-0.08, 0.00)	1.28	(1.12, 1.47)	0.06	(0.03, 0.09)
	Low	0.96	(0.85, 1.08)	-0.01	(-0.05, 0.02)	1.44	(1.27, 1.64)	0.09	(0.06, 0.12)
90	High	1.00	(ref.)	0.00	(ref.)	1.00	(ref.)	0.00	(ref.)
	Middle	0.80	(0.69, 0.93)	-0.12	(-0.20, -0.04)	1.23	(1.03, 1.46)	0.09	(0.01, 0.16)
	Low	0.78	(0.69, 0.88)	-0.13	(-0.20, -0.06)	1.27	(1.08, 1.50)	0.10	(0.04, 0.17)