

Table 3: Association between Absenteeism and Body Mass Index – Test of multivariate models (EpiDoc Cohort 2011-2016)

	Poisson with Fixed Effect				Negative Binomial Regression				Mixed Effect Negative Binomial Regression			
	BMI	BMI + Chronic Disease	BMI + Lifestyle Habits	BMI + Chronic Disease + Lifestyle Habits	BMI	BMI + Chronic Disease	BMI + Lifestyle Habits	BMI + Chronic Disease + Lifestyle Habits	BMI	BMI + Chronic Disease	BMI + Lifestyle Habits	BMI + Chronic Disease + Lifestyle Habits
	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR
Normal Weight	1	1	1	1	1	1	1	1	1	1	1	1
	-	-	-	-	-	-	-	-	-	-	-	-
Overweight	1.25*** [1.20;1.31]	1.41*** [1.35;1.48]	1.22*** [1.17;1.28]	1.40*** [1.34;1.48]	1,02 [0.92;1.113]	0,99 [0.89;1.10]	1,04 [0.94;1.14]	1 [0.90;1.11]	1,17 [0.96;1.40]	1,2 [0.98,1.48]	1,12 [0.92,1.36]	1,19 [0.97;1.48]
Obese	1.48*** [1.39;1.58]	1.64*** [1.53;1.76]	1.58*** [1.48;1.69]	1.80*** [1.67;1.948]	1.39*** [1.23;1.58]	1.31*** [1.15;1.49]	1.38*** [1.22;1.56]	1.31*** [1.15;1.49]	1.48*** [1.12;1.95]	1.59*** [1.19;2.11]	149** [1.12,1.99]	1.63*** 1.21;2.19]
N	9,112	8,072	8,980	7,946	9,112	8,072	8,980	7,946	9,112	8,072	8,980	7,946
Type of Regression	Logit	Logit	Logit	Logit	NB	NB	NB	Logit	NB	NB	NB	NB
AIC	86807,14	69130,56	83314,89	66238,73	28172,43	24647,61	27605,41	24123,96	28068,55	24756,11	27504,76	24220,92

Notes: 1 All regressions were adjusted to age, sex, education level and NUTII. 2 Chronic Disease means all diseases with p value ≤ 0.01 level of significance on the hypothesis tests, including mental disorder, rheumatic disease, cancer, gastrointestinal disease, allergies, lung disease, renal colic. 3 Lifestyle habits include alcohol, tabaco and physical activity.

* p < 0.10, ** p < 0.05, *** p < 0.01