SUPPLEMENTARY MATERIAL

Supplementary Material Tables:

 Table 1. Supplementary material:
 Demographic and clinical characteristics of

 EPISCAN and EPISCAN II participants by sex

 Table 2. Supplementary material: Factors associated with COPD for EPISCAN and

 EPISCAN II. Crude and multivariate analysis

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 Table 1 Supplementary material.
 Demographic and clinical characteristics of EPISCAN and EPISCAN II participants by sex

	EPISCAN				EPISCAN II				
	Male	Female	P -value	Test used	Male	Female	P -value	Test used	
Subjects, n (%)	324 (45.3%)	391 (54.7%)			286 (52.6%)	258 (47.4%)			
Age range, n (%)			0.706	Chi- squared			0.002	Chi- squared	
40-50 yrs	106 (32.7%)	119 (30.4%)			46 (16.1%)	57 (22.1%)			
50-60 yrs	90 (27.8%)	122 (31.2%)			127 (44.4%)	75 (29.1%)			
60-70 yrs	77 (23.8%)	85 (21.7%)			67 (23.4%)	80 (31.0%)			
70-80 yrs	51 (15.7%)	65 (16.6%)			46 (16.1%)	46 (17.8%)			
Smoking history, pack-yrs mean±SD	32.5 ± 24.7	20.3 ± 16.9	<0.001	Mann- Whitney- Wilcoxon	35.0 (23.2%)	27.5 (21.5%)	<0.001	Mann- Whitney- Wilcoxon	
Smoking status, n (%)			<0.001	Chi- squared			0.518	Chi- squared	
Smoker	101 (31.2%)	90 (23.0%)			73 (25.5%)	67 (26.0%)			
Former smoker	137 (42.3%)	98 (25.1%)			108 (37.8%)	86 (33.3%)			
Never smoker	86 (26.5%)	203 (51.9%)			105 (36.7%)	105 (40.7%)			
Weight, kg mean±SD	81.4 ± 12.9	67.6 ± 12.6	<0.001	Mann- Whitney- Wilcoxon	82.8 (15.2)	67.1 (13.6)	<0.001	Mann- Whitney- Wilcoxon	
Height, cm mean±SD	170.0 ± 7.3	158.0 ± 6.9	<0.001	t-test	174.0 (6.78)	161.0 (6.73)	<0.001	t-test	
BMI, kg/m ⁻² mean (±SD)	28.3 ± 4.2	27.3 ± 5.0	<0.001	Mann- Whitney- Wilcoxon	27.4 (4.46)	26.0 (5.08)	<0.001	Mann- Whitney- Wilcoxon	
University education, n (%)	122 (37.7%)	99 (25.3%)	<0.001	Chi- squared	238 (83.2%)	181 (70.2%)	<0.001	Chi- squared	
Lives alone, n (%)	14 (13.0%)	9 (10.6%)	0.778	Chi- squared	56 (19.6%)	84 (32.6%)	<0.001	Chi- squared	
Work environment with exposure to fumes, dust or other substances n (%)	142 (43.8%)	71 (18.2%)	<0.001	Chi- squared	7 (53.8%)	8 (21.6%)	0.067	Chi- squared	
Previous diagnoses, n (%)									
COPD	10 (3.1%)	0 (0.0%)	0.001	Chi- squared	28 (9.8%)	38 (14.7%)	0.103	Chi- squared	
Chronic bronchitis	16 (4.9%)	6 (1.5%)	0.016	Chi- squared	10 (3.5%)	10 (3.9%)	0.995	Chi- squared	
Emphysema	3 (0.9%)	2 (0.5%)	0.833	Chi- squared	3 (1.1%)	1 (0.4%)	0.690	Chi- squared	
Asthma	18 (5.6%)	42 (10.7%)	0.019	Chi- squared	28 (9.8%)	24 (9.3%)	0.962	Chi- squared	
Symptoms, n (%)									
Cough	39 (12.1%)	32 (8.2%)	0.109	Chi- squared	37 (13.0%)	43 (16.7%)	0.275	Chi- squared	
Expectoration	36 (11.1%)	27 (6.9%)	0.065	Chi- squared	41 (14.6%)	39 (15.4%)	0.900	Chi- squared	

Wheezing	133 (41.2%)	149 (38.2%)	0.465	Chi- squared	100 (35.1%)	67 (26.1%)	0.020	Chi- squared
Dyspnoea	29 (9.0%)	44 (11.3%)	0.368	Chi- squared	27 (9.5%)	45 (17.4%)	0.001	Chi- squared
FVC % post-BD, ml mean±SD	96.2 ± 15.7	103.0 ± 15.3	<0.001	t-test	102.0 (17.9)	102.0 (17.1)	0.556	Mann- Whitney- Wilcoxon
FEV₁ % post-BD, ml mean±SD	99.3 ± 19.8	110.0 ± 17.8	<0.001	Mann- Whitney- Wilcoxon	102.0 (14.9)	104.0 (15.7)	0.234	t-test
Prevalence COPD GOLD, n(%)	57 (17.6%)	22 (5.6%)	<0.001	Chi- squared	28 (9.8%)	38 (14.7%)	0.103	Chi- squared
Prevalence LLN, n(%)	36 (11.1%)	19 (4.9%)	0.002	Chi- squared	15 (5.2%)	25 (9.7%)	0.060	Chi- squared

BMI: body mass index; **FVC:** forced vital capacity; **FEV**₁: forced expiratory volume in 1 s; **COPD:** chronic obstructive pulmonary disease; **GOLD:** Global Initiative for Chronic Obstructive Lung Disease **LLN**: lower limit of normal.

Table 2 Supplementary material. Factors associated with COPD for EPISCAN and EPISCAN II. Crude and multivariate analysis

Factor	Categories	EPISCAN				EPISCAN II				
		Crude		Multivariate		Crude		Multivariate		
		OR [IC 95%]	P-value	OR [IC 95%]	P-value	OR [IC 95%]	<i>P-</i> value	OR [IC 95%]	P-value	
Age	40-49 yr (ref)	-	-	-	-	-	-	-	-	
	50-59 yr	2.4 [1.1 - 5.1]	0.030	2.8 [1.2 - 6.5]	0.018	0.9 [0.4 - 2.1]	0.820	2.1 [0.2 – 35.0]	0.630	
	60-69 yr	3.4 [1.6 - 7.3]	0.002	5.9 [2.5 - 14.4]	< 0.001	1.5 [0.7 - 3.2]	0.353	8.3 [0.4 - 24.3]	0.741	
	70-79 yr	6.2 [2.9 - 13.4]	< 0.001	13.1 [5.2 - 33.2]	< 0.001	NA	NA	NA	NA	
der	Male	3.6 [2.1 - 6.0]	< 0.001	3.7 [1.9 - 7.0]	< 0.001	0.6 [0.4 - 1.1]	0.080	0.7 [0.2 - 2.7]	0.160	
Gender	Female (ref.)									
Smoking status	Current	3.3 [1.8 - 6.2]	< 0.001	7.8 [3.5 - 17.3]	< 0.001	4.1 [2.0 - 8.4]	< 0.001	18.1 [0.4 - 24.9]	0.138	
mokinę status	Former	2.3 [1.2 - 4.2]	0.011	2.8 [1.3 - 5.9]	0.008	2.6 [1.3 - 5.2]	0.010	1.2 [0.1 - 26.2]	0.921	
S S	Never (ref)	-	-	-	-	-	-	-	-	
Education	No education	2.1 [1.0 - 4.6]	0.064	2.1 [0.8 - 5.1]	0.114	NA	NA	NA	NA	
	Primary education (ref)	-	-	-	-	-	-	-	-	
Edu	Secundary education	0.6 [0.3 - 1.1]	0.080	0.6 [0.3 - 1.3]	0.217	NA	NA	NA	NA	
	University education	0.7 [0.4 - 1.3]	0.293	0.7 [0.3 - 1.4]	0.269	0.4 [0.2 - 1.2]	0.114	7.7 [0.1 - 25.3]	0.339	
ttional mass sure ory	No (ref)	-	-	-	-	-	-	-	-	
Occupational and biomass exposure history	Yes	0.7 [0.4 - 1.1]	0.156	1.5 [0.8 - 2.8]	0.262	2.6 [0.5 - 13.7]	0.259	1.7 [0.5 - 6.5]	0.121	
BMI (kg/m ⁻² mean]	<21	2.7 [1.0 - 6.9]	0.043	5.4 [1.8 - 16.3]	0.003	NA	NA	NA	NA	
	≥21 (ref)	-	-	-	-	-	-	-	-	
YPAS	1 y 2 (ref)	-	-	-	-	-	-	-	-	
ΥP	3-4	5.6 [2.5 - 12.9]	< 0.001	4.2 [1.5 - 11.6]	0.005	3.8 [1.6 - 8.8]	0.002	4.4 [0.4 - 13.2]	0.121	

Data are presented as OR (95% CI). COPD is defined as postbronchodilator FEV_1 /FVC < 0.7 BMI: body mass index; YPAS: yale physical activity survey; ref= reference; NA: not available **Table 3 Supplementary material.** Factors associated with COPD for MEN and WOMEN. Crude and multivariate analysis

	Categories		N	WOMEN					
Factor		Crude		Multivariate		Crude		Multivariate	
		OR [IC 95%]	P-value	OR [IC 95%]	<i>P-</i> value	OR [IC 95%]	<i>P-</i> value	OR [IC 95%]	P-value
	40-49 yr (ref)	-	-	-	-	-	-	-	-
	50-59 yr	2.0 [0.9 - 4.7]	0.097	4.0 [1.3 - 12.3]	0.018	1.3[0.6 - 2.8]	0.515	2.6[0.8 - 8.4]	0.124
Age	60-69 yr	4.3 [1.9 - 9.9]	< 0.001	11.1 [3.3 - 37.3]	< 0.001	1.3 [0.6 - 2.8]	0.562	3.0 [0.8 - 11.6]	0.103
	70-79 yr	6.9 [3.0 - 16.1]	< 0.001	28.9 [8.2 - 102.4]	< 0.001	2.5 [1.1 - 5.4]	0.023	9.7 [2.4 - 38.3]	0.001
Smoking status	Current	4.0 [1.9 - 8.1]	< 0.001	11.5 [3.7 - 35.8]	< 0.001	3.3 [1.8 - 6.3]	< 0.001	6.3 [2.0 - 19.6]	0.001
moking	Former	3.2 [1.6 - 6.4]	0.001	3.1 [1.1 - 8.3]	0.028	1.4 [0.7 - 2.9]	0.324	2.8 [0.9 - 8.9]	0.081
ى ر	Never (ref)	-	-	-	-	-	-	-	-
	No education	2.5 [0.8 - 7.5]	0.099	2.7 [0.8 - 9.3]	0.118	2.0 [0.7 - 6.1]	0.218	2.1 [0.6 - 7.8]	0.264
Education	Primary education (ref)	-	-	-	-	-	-	-	-
Edu	Secundary education	0.6 [0.3 - 1.3]	0.217	0.8 [0.3 – 2.0]	0.600	0.7 [0.2 - 1.5]	0.317	0.7 [0.2 - 2.1]	0.496
	University education	0.4 [0.2 - 0.7]	0.002	0.7 [0.3 - 1.6]	0.364	1.3 [0.7 - 2.6]	0.446	0.9 [0.3 - 2.9]	0.909
ttional mass sure ory	No (ref)	-	-	-	-	-	-	-	-
Occupational and biomass exposure history	Yes	1.2 [0.7 - 2.1]	0.547	2.2 [1.0 - 4.6]	0.045	0.8 [0.3 - 1.9]	0.605	0.7 [0.3 - 2.0]	0.506
n) ²	<21	1.7 [0.6 - 4.8]	0.283	3.3 [0.6 - 19.4]	0.181	2.7 [1.3 - 5.4]	0.005	9.6 [2.7 - 34.3]	< 0.001
BMI (kg/m ⁻² mean)	≥21 (ref)	-	-	-	-	-	-	-	-
YPAS	1 y 2 (ref)	-	-	-	-	-	-	-	-
1×	3-4	6.9 [2.8 - 17.0]	< 0.001	4.2 [1.1 - 17.0]	0.043	4.0 [1.8 - 9.0]	< 0.001	5.7 [1.7 - 18.6]	0.004

Data are presented as OR (95% CI). COPD is defined as postbronchodilator FEV1 /FVC < 0.7

BMI: body mass index; YPAS: yale physical activity survey; ref= reference

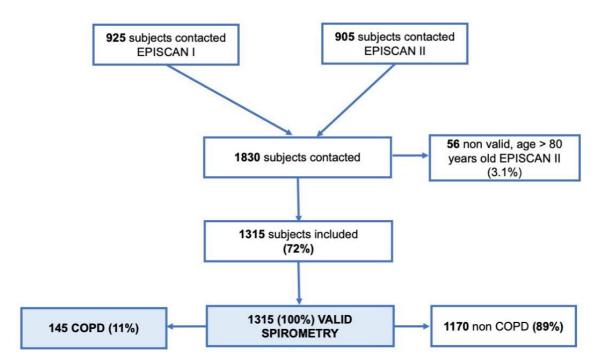
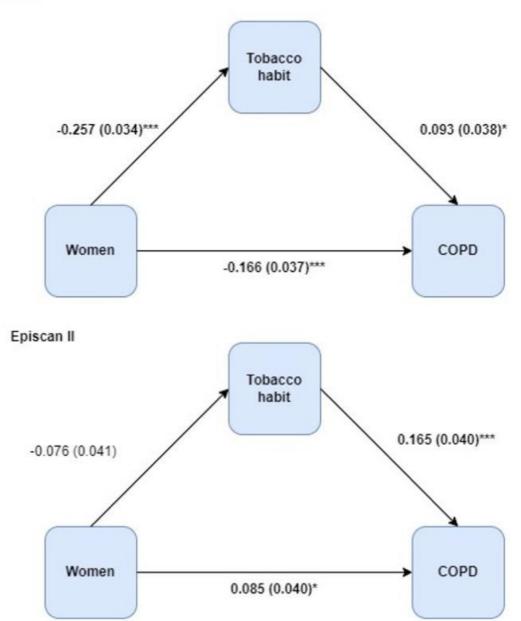


Figure 1 Supplementary material. Flowchart of the study

Figure 2 Supplementary Material. Standardised regression coefficients for the relationships between gender (women) and COPD prevalence by smoking habit.



Episcan

The value of the standardized regression coefficient is shown at the middle of the arrow and the standard error in parentheses. Significant effects are shown in bold and with asterisks (p<0.05 *, p<0.01 **, p<0.001 ***)