

Supplementary material

Supplementary Table 1. Baseline Participant Characteristics in the 27 EU countries and the UK, Eurobarometer 2017

Characteristics ^a	Entire Sample (n=27,901)
	N, (weighted %)
Smoking status	
Current smokers	6904 (26.3 %)
Former smokers	6153 (20.3 %)
Never smokers	14783 (53.5 %)
Gender	
Female	15338 (51.8 %)
Male	12563 (48.2 %)
Age	
15-24 years	2463 (13.0 %)
25-34 years	3619 (14.8 %)
35-44 years	4216 (16.3 %)
45-54 years	4533 (17.1 %)
55-64 years	5177 (14.7 %)
65-74 years	4998 (15.2 %)
≥75 years	2895 (8.9 %)
Education (age at completion)	
≤15 years	4260 (17.2 %)
16-19 years	11898 (42.0 %)
≥20 years	9567 (31.5 %)
Still studying	1748 (9.4 %)
Difficulty to pay bills	
Most of the time	2642 (8.4 %)
From time to time	6967 (25.2 %)
Almost never/never	17827 (66.4 %)
Area of residence	
Rural	9089 (30.3 %)
Small town	11087 (44.8 %)
Large town	7709 (24.9 %)
Occupation	
Employment	14895 (55.7 %)
Unemployment	1867 (6.9 %)
Not working	11139 (37.4 %)
Marital Status	
Single households without children	8282 (30.6 %)
Single households with children	1559 (5.7 %)
Multiple households without children	9421 (31.6 %)
Multiple households with children	8387 (32.1 %)

Supplementary Table 2: Smoking status by socio-demographic characteristics in the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

Characteristics ^a	Current smokers, weighted (95%CI) ^b	Former smokers, weighted (95%CI)	Never smokers, weighted (95%CI)
Gender (%)			
Male	30.4 (29.0 - 31.7)	24.8 (23.7 - 26.0)	44.8 (43.4 - 46.3)
Female	22.4 (21.3 - 23.6)	16.0 (15.1 - 17.0)	61.5 (60.2 - 62.8)
Age (%)			
15 - 24 years	29.6 (26.8 - 32.5)	6.4 (5.0 - 8.1)	64.0 (61.0 - 67.0)
25 - 34 years	32.9 (30.5 - 35.4)	13.8 (12.1 - 15.6)	53.3 (50.8 - 55.9)
35 - 44 years	30.8 (28.5 - 33.2)	18.5 (16.7 - 20.5)	50.7 (48.2 - 53.2)
45 - 54 years	31.5 (29.3 - 33.9)	20.4 (18.4 - 22.5)	48.1 (45.6 - 50.6)
55 - 64 years	27.1 (25.1 - 29.1)	27.4 (25.4 - 29.5)	45.5 (43.3 - 47.8)
65 - 74 years	16.2 (14.5 - 18.0)	29.7 (27.7 - 31.9)	54.1 (51.7 - 56.4)
≥75 years	7.9 (6.5 - 9.5)	26.4 (23.9 - 29.0)	65.7 (62.9 - 68.4)
Education (Age at completion) (%)			
≤15 years	22.9 (21.0 - 24.9)	22.6 (20.8 - 24.6)	54.5 (52.2 - 56.8)
16–19 years	32.2 (30.8 - 33.7)	20.6 (19.4 - 21.9)	47.1 (45.6 - 48.7)
≥20 years	21.8 (20.4 - 23.3)	23.2 (21.8 - 24.6)	55.1 (53.4 - 56.8)
Still studying	22.3 (19.3 - 25.5)	5.8 (4.4 - 7.8)	71.9 (68.4 - 75.1)
Difficulty to pay bills (%)			
Most of the time	42.9 (39.7 - 46.2)	15.9 (13.7 - 18.5)	41.2 (38.1 - 44.3)
From time to time	33.4 (31.6 - 35.3)	17.2 (15.8 - 18.7)	49.4 (47.5 - 51.3)
Almost never/never	21.7 (20.7 - 22.7)	22.1 (21.1 - 23.1)	56.2 (55.0 - 57.4)
Area of residence (%)			
Rural	24.8 (23.3 - 26.3)	20.1 (18.8 - 21.5)	55.1 (53.3 - 56.8)
Small town	26.9 (25.5 - 28.3)	21.2 (20.1 - 22.5)	51.9 (50.3 - 53.4)
Large town	26.8 (25.2 - 28.4)	18.8 (17.4 - 20.2)	54.4 (52.6 - 56.3)
Occupation (%)			
Employment	28.9 (27.7 - 30.1)	18.2 (17.2 - 19.3)	52.9 (51.6 - 54.2)
Unemployment	46.5 (42.7 - 50.4)	16.6 (14.1 - 19.5)	36.8 (33.2 - 40.6)
Not working	18.6 (17.4 - 19.9)	24.0 (22.7 - 25.3)	57.4 (55.8 - 58.9)
Marital Status (%)			
Single households without children	28.4 (26.8 - 30.1)	16.1 (15.0 - 17.4)	55.5 (53.7 - 57.2)
Single households with children	37.1 (33.1 - 41.3)	18.6 (15.6 - 22.0)	44.3 (40.2 - 48.5)
Multiple households without children	22.5 (21.1 - 23.9)	24.9 (23.5 - 26.3)	52.6 (50.9 - 54.2)
Multiple households with children	26.3 (24.7 - 27.9)	20.1 (18.7 - 21.6)	53.6 (51.8 - 55.4)

Footnote:

a. Summary statistics are displayed as N (%) for categorical variables.

b. CI= Confidence interval.

All the results are weighted

Supplementary Table 3. Smoking prevalence by each smoking status in the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

Country	Current smokers (%), weighted (95% CI)	Former smokers (%), weighted (95%CI)	Never smokers (%), weighted (95%CI)
Austria	28.3 (25.2 - 31.6)	18.7 (16.2 - 21.4)	53.0 (49.6 - 56.4)
Belgium	19.2 (16.6 - 22.0)	24.0 (21.3 - 27.1)	56.8 (53.3 - 60.2)
Bulgaria	36.1 (33.2 - 39.2)	12.4 (10.5 - 14.5)	51.5 (48.3 - 54.6)
Croatia	35.3 (32.3 - 38.4)	15.5 (13.2 - 18.0)	49.3 (46.0 - 52.5)
Cyprus	27.5 (23.4 - 32.1)	17.4 (14.3 - 21.0)	55.1 (50.3 - 59.8)
Czech Republic	28.9 (26.1 - 31.9)	18.6 (16.3 - 21.2)	52.4 (49.3 - 55.6)
Denmark	18.6 (16.1 - 21.4)	32.9 (29.9 - 36.1)	48.5 (45.0 - 52.0)
Estonia	23.3 (20.4 - 26.5)	23.9 (21.1 - 27.0)	52.8 (49.3 - 56.2)
Finland	20.1 (17.5 - 23.0)	29.1 (26.2 - 32.2)	50.8 (47.5 - 54.1)
France	35.9 (32.6 - 39.4)	21.5 (18.9 - 24.4)	42.5 (39.1 - 46.0)
Germany	25.8 (23.3 - 28.6)	21.0 (18.7 - 23.5)	53.2 (50.2 - 56.2)
Greece	36.6 (33.5 - 39.8)	19.1 (16.7 - 21.8)	44.3 (41.1 - 47.6)
Hungary	26.6 (23.8 - 29.6)	14.5 (12.5 - 16.8)	58.9 (55.6 - 62.0)
Ireland	19.4 (16.9 - 22.2)	18.1 (15.8 - 20.6)	62.5 (59.3 - 65.6)
Italy	24.6 (22.0 - 27.5)	13.7 (11.6 - 16.0)	61.7 (58.5 - 64.8)
Latvia	32.2 (28.4 - 36.3)	22.7 (19.4 - 26.5)	45.1 (41.0 - 49.2)
Lithuania	29.1 (26.0 - 32.5)	18.0 (15.6 - 20.8)	52.9 (49.4 - 56.3)
Luxembourg	21.0 (17.3 - 25.3)	22.2 (18.6 - 26.2)	56.8 (52.1 - 61.4)
Malta	24.0 (19.7 - 28.9)	19.0 (15.6 - 23.0)	57.0 (51.9 - 61.9)
Poland	29.8 (26.9 - 32.9)	17.7 (15.3 - 20.2)	52.5 (49.2 - 55.8)
Portugal	25.6 (23.0 - 28.4)	14.1 (12.1 - 16.3)	60.3 (57.3 - 63.3)
Romania	28.0 (25.2 - 30.9)	14.0 (11.8 - 16.5)	58.1 (54.8 - 61.2)
Slovakia	26.4 (23.5 - 29.6)	16.7 (14.4 - 19.2)	56.9 (53.5 - 60.1)
Slovenia	27.9 (25.0 - 31.0)	19.4 (17.0 - 22.0)	52.7 (49.5 - 55.9)
Spain	27.5 (24.8 - 30.4)	22.3 (19.8 - 25.0)	50.2 (47.1 - 53.4)
Sweden	7.2 (5.3 - 9.7)	40.6 (36.5 - 45.0)	52.2 (47.8 - 56.5)
Netherlands	19.5 (17.0 - 22.3)	31.7 (28.8 - 34.8)	48.8 (45.4 - 52.1)
United Kingdom	17.5 (15.2 - 20.1)	22.5 (20.0 - 25.2)	60.0 (56.8 - 63.1)

Supplementary Table 4: Mean length of smoking by each smoking status across the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

	Length of smoking (Years), weighted (95%CI)			
Country	Ever smokers	Current smokers	Former smokers	Entire sample
Austria	23.4 (22.0 - 24.9)	25.1 (23.1 - 27.2)	20.8 (18.7 - 22.9)	10.6 (9.6 - 11.6)
Belgium	23.1 (21.7 - 24.6)	25.7 (23.5 - 27.8)	21.1 (19.2 - 22.9)	9.9 (9.0 - 10.8)
Bulgaria	23.3 (22.1 - 24.5)	23.2 (21.8 - 24.7)	23.6 (21.3 - 25.8)	10.9 (10.0 - 11.8)
Croatia	24.9 (23.4 - 26.3)	25.7 (23.9 - 27.5)	22.8 (20.4 - 25.2)	12.0 (10.9 - 13.1)
Cyprus	20.6 (18.9 - 22.3)	21.6 (19.2 - 24.1)	19.0 (16.6 - 21.4)	9.2 (8.1 - 10.4)
Czech Republic	23.2 (21.8 - 24.7)	24.5 (22.5 - 26.6)	21.1 (19.1 - 23.0)	10.7 (9.7 - 11.7)
Denmark	24.6 (23.1 - 26.1)	31.1 (28.2 - 34.0)	21.0 (19.4 - 22.6)	12.6 (11.6 - 13.6)
Estonia	20.4 (18.9 - 21.8)	25.6 (23.4 - 27.7)	15.3 (13.6 - 16.9)	9.5 (8.7 - 10.4)
Finland	20.8 (19.5 - 22.2)	26.9 (24.6 - 29.2)	16.6 (15.2 - 18.1)	10.1 (9.2 - 11.0)
France	23.9 (22.6 - 25.2)	25.3 (23.5 - 27.1)	21.6 (19.8 - 23.4)	13.7 (12.6 - 14.8)
Germany	23.1 (21.8 - 24.3)	25.4 (23.7 - 27.2)	20.0 (18.4 - 21.7)	10.6 (9.8 - 11.5)
Greece	25.0 (23.7 - 26.3)	26.0 (24.3 - 27.7)	23.1 (21.0 - 25.2)	13.9 (12.8 - 15.0)
Hungary	23.4 (21.9 - 24.9)	24.6 (22.5 - 26.6)	21.2 (19.0 - 23.3)	9.5 (8.7 - 10.4)
Ireland	22.3 (20.8 - 23.7)	23.9 (21.5 - 26.2)	20.5 (18.7 - 22.3)	8.3 (7.5 - 9.1)
Italy	27.0 (25.5 - 28.6)	27.8 (25.8 - 29.8)	25.6 (23.3 - 28.0)	10.1 (9.0 - 11.1)
Latvia	21.2 (19.6 - 22.9)	23.6 (21.5 - 25.8)	17.7 (15.2 - 20.2)	11.6 (10.3 - 12.8)
Lithuania	20.7 (19.2 - 22.2)	23.0 (21.1 - 25.0)	16.9 (14.8 - 19.0)	9.6 (8.7 - 10.5)
Luxembourg	20.3 (18.4 - 22.3)	23.3 (20.3 - 26.2)	17.5 (15.0 - 20.0)	8.6 (7.4 - 9.8)
Malta	23.0 (20.9 - 25.1)	23.9 (20.9 - 26.9)	21.7 (18.8 - 24.7)	9.8 (8.4 - 11.1)
Poland	23.3 (21.8 - 24.8)	25.7 (23.7 - 27.6)	19.1 (16.9 - 21.2)	10.7 (9.7 - 11.7)
Portugal	22.5 (21.1 - 23.9)	22.9 (21.1 - 24.7)	21.8 (19.7 - 23.9)	8.8 (7.9 - 9.6)
Romania	22.4 (20.8 - 23.9)	22.8 (20.9 - 24.8)	21.4 (19.0 - 23.9)	9.1 (8.1 - 10.1)
Slovakia	20.3 (18.8 - 21.7)	22.2 (20.2 - 24.3)	17.2 (15.3 - 19.0)	8.5 (7.6 - 9.3)
Slovenia	22.5 (21.3 - 23.8)	24.9 (23.1 - 26.7)	19.2 (17.5 - 20.9)	10.5 (9.6 - 11.4)
Spain	23.4 (22.2 - 24.7)	24.6 (22.8 - 26.3)	22.1 (20.3 - 23.9)	11.6 (10.7 - 12.5)
Sweden	21.0 (19.2 - 22.8)	35.2 (29.8 - 40.6)	18.6 (16.8 - 20.3)	9.9 (8.7 - 11.2)
Netherlands	22.9 (21.5 - 24.3)	29.0 (26.3 - 31.7)	19.2 (17.8 - 20.6)	11.7 (10.7 - 12.7)
United Kingdom	23.4 (21.8 - 25.0)	27.0 (24.2 - 29.7)	20.6 (18.8 - 22.4)	9.3 (8.4 - 10.2)
EU 28	23.6 (23.2 - 24.0)	25.6 (25.0 - 26.3)	21.0 (20.4 - 21.5)	10.8 (10.5 - 11.1)

Footnote:

CI= Confidence interval.

All the results are weighted.

Supplementary Table 5: Mean pack-years by each smoking status across the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

	Pack-years, weighted (95%CI)			
Country	Ever smokers	Current smokers	Former smokers	Entire population
Austria	23.7 (21.6 - 25.8)	24.0 (21.4 - 26.7)	23.2 (19.6 - 26.7)	10.6 (9.3 - 11.8)
Belgium	19.1 (17.0 - 21.2)	17.8 (15.5 - 20.2)	20.2 (17.0 - 23.5)	7.8 (6.8 - 8.8)
Bulgaria	19.3 (17.8 - 20.7)	18.9 (17.2 - 20.5)	20.5 (17.8 - 23.2)	8.9 (8.0 - 9.8)
Croatia	24.8 (22.8 - 26.9)	23.9 (21.7 - 26.1)	27.1 (22.5 - 31.7)	11.9 (10.6 - 13.2)
Cyprus	23.0 (19.9 - 26.2)	20.7 (17.3 - 24.2)	26.7 (20.8 - 32.6)	10.2 (8.5 - 11.9)
Czech Republic	18.2 (16.5 - 19.8)	19.2 (17.0 - 21.3)	16.6 (14.0 - 19.2)	8.3 (7.3 - 9.2)
Denmark	16.7 (15.1 - 18.3)	20.1 (17.1 - 23.1)	14.8 (13.0 - 16.6)	8.2 (7.3 - 9.2)
Estonia	12.4 (11.2 - 13.7)	16.2 (14.2 - 18.3)	8.7 (7.3 - 10.1)	5.7 (5.0 - 6.4)
Finland	14.0 (12.6 - 15.3)	17.3 (15.0 - 19.6)	11.6 (10.1 - 13.2)	6.7 (5.9 - 7.4)
France	17.9 (16.2 - 19.5)	16.1 (14.2 - 17.9)	21.2 (18.1 - 24.3)	9.9 (8.8 - 11.0)
Germany	19.5 (17.7 - 21.3)	19.5 (17.2 - 21.8)	19.5 (16.6 - 22.4)	8.8 (7.8 - 9.8)
Greece	25.3 (23.4 - 27.3)	23.9 (21.7 - 26.2)	28.2 (24.4 - 31.9)	13.9 (12.5 - 15.2)
Hungary	20.1 (18.3 - 22.0)	20.2 (18.0 - 22.3)	20.1 (16.6 - 23.6)	8.1 (7.2 - 9.0)
Ireland	17.7 (15.9 - 19.6)	16.6 (14.4 - 18.8)	19.1 (16.0 - 22.3)	6.4 (5.6 - 7.3)
Italy	20.7 (19.0 - 22.4)	19.0 (17.1 - 20.9)	23.9 (20.9 - 27.0)	7.6 (6.7 - 8.5)
Latvia	13.9 (12.0 - 15.9)	13.6 (11.9 - 15.3)	14.4 (10.1 - 18.6)	7.4 (6.2 - 8.6)
Lithuania	12.8 (11.5 - 14.1)	14.3 (12.7 - 15.9)	10.0 (7.8 - 12.2)	5.8 (5.1 - 6.5)
Luxembourg	17.2 (14.4 - 20.1)	18.1 (14.4 - 21.7)	16.4 (12.0 - 20.8)	7.0 (5.7 - 8.4)
Malta	24.4 (20.4 - 28.5)	20.5 (16.3 - 24.7)	29.4 (22.1 - 36.8)	10.3 (8.3 - 12.3)
Poland	19.2 (17.5 - 20.9)	20.3 (18.2 - 22.5)	17.1 (14.3 - 19.8)	8.7 (7.7 - 9.6)
Portugal	17.4 (15.4 - 19.3)	16.5 (14.7 - 18.2)	29.9 (16.7 - 43.1)	5.2 (4.5 - 6.0)
Romania	18.3 (16.2 - 20.4)	18.4 (16.0 - 20.8)	18.1 (13.8 - 22.3)	7.2 (6.2 - 8.3)
Slovakia	13.8 (12.5 - 15.2)	14.9 (13.1 - 16.6)	12.1 (10.0 - 14.2)	5.7 (5.0 - 6.4)
Slovenia	20.4 (18.4 - 22.4)	20.2 (17.8 - 22.6)	20.7 (17.4 - 24.1)	9.4 (8.3 - 10.5)
Spain	17.6 (16.0 - 19.2)	15.1 (13.3 - 16.9)	20.6 (17.8 - 23.3)	8.6 (7.6 - 9.5)
Sweden	14.2 (12.2 - 16.3)	15.7 (11.5 - 19.8)	14.0 (11.7 - 16.3)	6.5 (5.4 - 7.6)
Netherlands	15.1 (13.6 - 16.6)	16.9 (14.2 - 19.7)	13.9 (12.2 - 15.7)	7.3 (6.5 - 8.2)
United Kingdom	17.6 (15.7 - 19.5)	17.4 (14.9 - 19.9)	17.8 (15.1 - 20.5)	6.8 (6.0 - 7.7)
EU 28	18.6 (18.1 - 19.2)	18.2 (17.6 - 18.9)	19.2 (18.3 - 20.1)	8.3 (8.0 - 8.6)

Supplementary Table 6: Mean discounted pack-years by each smoking status across the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

	Discounted pack-years, weighted (95%CI)			
Country	Ever smokers	Current smokers	Former smokers	Entire population
Austria	16.5 (14.5 - 18.5)	24.0 (21.4 - 26.7)	4.6 (2.7 - 6.5)	7.4 (6.3 - 8.4)
Belgium	11.3 (9.7 - 12.8)	17.8 (15.5 - 20.2)	5.4 (3.7 - 7.1)	4.6 (3.9 - 5.3)
Bulgaria	15.1 (13.7 - 16.5)	18.9 (17.2 - 20.5)	3.9 (2.6 - 5.3)	7.0 (6.2 - 7.8)
Croatia	18.7 (16.8 - 20.6)	23.9 (21.7 - 26.1)	5.9 (3.5 - 8.3)	8.9 (7.8 - 10.1)
Cyprus	15.0 (12.6 - 17.5)	20.7 (17.3 - 24.2)	5.9 (3.4 - 8.5)	6.7 (5.4 - 7.9)
Czech Republic	13.4 (11.9 - 15.0)	19.2 (17.0 - 21.3)	4.5 (3.0 - 5.9)	6.1 (5.3 - 7.0)
Denmark	9.5 (8.2 - 10.8)	20.1 (17.1 - 23.1)	3.5 (2.7 - 4.3)	4.7 (4.0 - 5.4)
Estonia	9.0 (7.8 - 10.2)	16.2 (14.2 - 18.3)	1.9 (1.2 - 2.6)	4.1 (3.5 - 4.8)
Finland	8.7 (7.4 - 9.9)	17.3 (15.0 - 19.6)	2.6 (1.8 - 3.4)	4.1 (3.5 - 4.8)
France	12.6 (11.2 - 14.0)	16.1 (14.2 - 17.9)	6.2 (4.2 - 8.1)	7.0 (6.1 - 7.9)
Germany	12.5 (10.9 - 14.0)	19.5 (17.2 - 21.8)	3.9 (2.7 - 5.0)	5.6 (4.8 - 6.4)
Greece	18.3 (16.5 - 20.1)	23.9 (21.7 - 26.2)	6.5 (4.7 - 8.3)	10.0 (8.9 - 11.2)
Hungary	14.9 (13.4 - 16.5)	20.2 (18.0 - 22.3)	4.8 (3.1 - 6.4)	6.0 (5.2 - 6.7)
Ireland	11.5 (10.0 - 13.1)	16.6 (14.4 - 18.8)	5.5 (3.5 - 7.5)	4.2 (3.5 - 4.8)
Italy	13.4 (11.8 - 14.9)	19.0 (17.1 - 20.9)	3.0 (1.9 - 4.1)	4.9 (4.2 - 5.6)
Latvia	10.7 (8.9 - 12.4)	13.6 (11.9 - 15.3)	6.0 (2.6 - 9.5)	5.7 (4.6 - 6.7)
Lithuania	10.1 (8.8 - 11.3)	14.3 (12.7 - 15.9)	2.2 (1.3 - 3.0)	4.5 (3.9 - 5.2)
Luxembourg	11.2 (8.9 - 13.5)	18.1 (14.4 - 21.7)	4.3 (2.2 - 6.3)	4.6 (3.5 - 5.7)
Malta	14.4 (11.4 - 17.3)	20.5 (16.3 - 24.7)	6.6 (2.8 - 10.3)	6.1 (4.6 - 7.5)
Poland	14.1 (12.5 - 15.7)	20.3 (18.2 - 22.5)	2.9 (1.8 - 3.9)	6.4 (5.5 - 7.2)
Portugal	15.8 (14.1 - 17.6)	16.5 (14.7 - 18.2)	7.3 (0.1 - 14.4)	4.8 (4.1 - 5.5)
Romania	13.9 (11.9 - 15.8)	18.4 (16.0 - 20.8)	3.8 (2.2 - 5.3)	5.5 (4.6 - 6.4)
Slovakia	10.4 (9.1 - 11.7)	14.9 (13.1 - 16.6)	3.2 (1.9 - 4.4)	4.3 (3.7 - 4.9)
Slovenia	13.2 (11.6 - 14.9)	20.2 (17.8 - 22.6)	3.3 (2.0 - 4.6)	6.1 (5.2 - 6.9)
Spain	10.2 (9.0 - 11.4)	15.1 (13.3 - 16.9)	4.1 (3.0 - 5.3)	5.0 (4.3 - 5.7)
Sweden	4.7 (3.5 - 6.0)	15.7 (11.5 - 19.8)	2.8 (1.6 - 4.0)	2.2 (1.6 - 2.8)
Netherlands	8.6 (7.3 - 9.9)	16.9 (14.2 - 19.7)	3.6 (2.5 - 4.7)	4.2 (3.5 - 4.9)
United Kingdom	10.8 (9.4 - 12.3)	17.4 (14.9 - 19.9)	5.4 (3.9 - 6.9)	4.2 (3.6 - 4.8)
EU 28	12.4 (11.9 - 12.8)	18.2 (17.6 - 18.9)	4.3 (3.9 - 4.8)	5.5 (5.3 - 5.8)

Supplementary Table 7. Five outcomes of smoking burden across the 27 EU countries and the UK, Eurobarometer 2017

Country	Prevalence of current smoking (%)		Prevalence of ever smoking (%)		Length of smoking (years)		Pack-years (pack-years)		Discounted Pack-years (pack-years)	
	Values and Rank									
Austria	28.3 (25.2 - 31.6)	9	47.0 (43.6 - 50.4)	16	10.6 (9.6 - 11.6)	11	10.6 (9.3 - 11.8)	3	7.4 (6.3 - 8.4)	3
Belgium	19.2 (16.6 - 22.0)	25	43.2 (39.8 - 46.7)	19	9.9 (9.0 - 10.8)	16	7.8 (6.8 - 8.8)	15	4.6 (3.9 - 5.3)	19
Bulgaria	36.1 (33.2 - 39.2)	2	48.5 (45.4 - 51.7)	9	10.9 (10.0 - 11.8)	8	8.9 (8.0 - 9.8)	8	7.0 (6.2 - 7.8)	4
Croatia	35.3 (32.3 - 38.4)	4	50.7 (47.5 – 54.0)	6	12.0 (10.9 - 13.1)	4	11.9 (10.6 - 13.2)	2	8.9 (7.8 - 10.1)	2
Cyprus	27.5 (23.4 - 32.1)	12	44.9 (40.2 - 49.7)	18	9.2 (8.1 - 10.4)	23	10.2 (8.5 - 11.9)	5	6.7 (5.4 - 7.9)	6
Czech Republic	28.9 (26.1 - 31.9)	8	47.6 (44.4 - 50.7)	11	10.7 (9.7 - 11.7)	9	8.3 (7.3 - 9.2)	12	6.1 (5.3 - 7.0)	8
Denmark	18.6 (16.1 - 21.4)	26	51.5 (48.0 – 55.0)	4	12.6 (11.6 - 13.6)	3	8.2 (7.3 - 9.2)	13	4.7 (4.0 - 5.4)	18
Estonia	23.3 (20.4 - 26.5)	20	47.2 (43.8 - 50.7)	14	9.5 (8.7 - 10.4)	20	5.7 (5.0 - 6.4)	26	4.1 (3.5 - 4.8)	26
Finland	20.1 (17.5 - 23.0)	22	49.2 (45.9 - 52.5)	8	10.1 (9.2 - 11.0)	14	6.7 (5.9 - 7.4)	22	4.1 (3.5 - 4.8)	26
France	35.9 (32.6 - 39.4)	3	57.5 (54.0 - 60.9)	1	13.7 (12.6 - 14.8)	2	9.9 (8.8 - 11.0)	6	7.0 (6.1 - 7.9)	4
Germany	25.8 (23.3 - 28.6)	16	46.8 (43.8 - 49.8)	17	10.6 (9.8 - 11.5)	11	8.8 (7.8 - 9.8)	9	5.6 (4.8 - 6.4)	13
Greece	36.6 (33.5 - 39.8)	1	55.7 (52.4 - 58.9)	2	13.9 (12.8 - 15.0)	1	13.9 (12.5 - 15.2)	1	10.0 (8.9 - 11.2)	1
Hungary	26.6 (23.8 - 29.6)	14	41.1 (38.0 - 44.4)	24	9.5 (8.7 - 10.4)	20	8.1 (7.2 - 9.0)	14	6.0 (5.2 - 6.7)	11
Ireland	19.4 (16.9 - 22.2)	24	37.5 (34.4 - 40.7)	28	8.3 (7.5 - 9.1)	28	6.4 (5.6 - 7.3)	24	4.2 (3.5 - 4.8)	23
Italy	24.6 (22.0 - 27.5)	18	38.3 (35.2 - 41.5)	27	10.1 (9.0 - 11.1)	14	7.6 (6.7 - 8.5)	16	4.9 (4.2 - 5.6)	16
Latvia	32.2 (28.4 - 36.3)	5	54.9 (50.8 – 59.0)	3	11.6 (10.3 - 12.8)	6	7.4 (6.2 - 8.6)	17	5.7 (4.6 - 6.7)	12
Lithuania	29.1 (26.0 - 32.5)	7	47.1 (43.7 - 50.6)	15	9.6 (8.7 - 10.5)	19	5.8 (5.1 - 6.5)	25	4.5 (3.9 - 5.2)	21
Luxembourg	21.0 (17.3 - 25.3)	21	43.2 (38.6 - 47.9)	19	8.6 (7.4 - 9.8)	26	7.0 (5.7 - 8.4)	20	4.6 (3.5 - 5.7)	19
Malta	24.0 (19.7 - 28.9)	19	43.0 (38.1 - 48.1)	22	9.8 (8.4 - 11.1)	18	10.3 (8.3 - 12.3)	4	6.1 (4.6 - 7.5)	8
Poland	29.8 (26.9 - 32.9)	6	47.5 (44.2 - 50.8)	11	10.7 (9.7 - 11.7)	9	8.7 (7.7 - 9.6)	10	6.4 (5.5 - 7.2)	7
Portugal	25.6 (23.0 - 28.4)	17	39.7 (36.7 - 42.7)	26	8.8 (7.9 - 9.6)	25	5.2 (4.5 - 6.0)	28	4.8 (4.1 - 5.5)	17
Romania	28.0 (25.2 - 30.9)	10	41.9 (38.8 - 45.2)	23	9.1 (8.1 - 10.1)	24	7.2 (6.2 - 8.3)	19	5.5 (4.6 - 6.4)	14
Slovakia	26.4 (23.5 - 29.6)	15	43.1 (39.9 - 46.5)	21	8.5 (7.6 - 9.3)	27	5.7 (5.0 - 6.4)	26	4.3 (3.7 - 4.9)	22
Slovenia	27.9 (25.0 - 31.0)	11	47.3 (44.1 - 50.5)	13	10.5 (9.6 - 11.4)	13	9.4 (8.3 - 10.5)	7	6.1 (5.2 - 6.9)	8
Spain	27.5 (24.8 - 30.4)	12	49.8 (46.6 - 52.9)	7	11.6 (10.7 - 12.5)	6	8.6 (7.6 - 9.5)	11	5.0 (4.3 - 5.7)	15
Sweden	7.2 (5.3 - 9.7)	28	47.8 (43.5 - 52.2)	10	9.9 (8.7 - 11.2)	16	6.5 (5.4 - 7.6)	23	2.2 (1.6 - 2.8)	28
Netherlands	19.5 (17.0 - 22.3)	23	51.2 (47.9 - 54.6)	5	11.7 (10.7 - 12.7)	5	7.3 (6.5 - 8.2)	18	4.2 (3.5 - 4.9)	23
United Kingdom	17.5 (15.2 - 20.1)	27	40.0 (36.9 - 43.2)	25	9.3 (8.4 - 10.2)	22	6.8 (6.0 - 7.7)	21	4.2 (3.6 - 4.8)	23

Supplementary Table 8: Five outcomes of smoking burden by socio-demographic characteristics across the 27 EU countries and the UK, Eurobarometer 2017. (N=27,901)

	Prevalence of current smoking	Prevalence of ever smoking	Length of smoking ^a	Pack-years ^b	Discounted pack-years ^c
Unit	(%)	(%)	(years)	(pack-years)	(pack-years)
Gender					
Male	30.4	55.2	13.30	11.25	7.00
Female	22.4	38.4	8.55	5.67	4.17
Age					
15 - 24 years	29.6	36.0	1.66	0.88	0.87
25 - 34 years	32.9	46.7	5.03	3.20	2.97
35 - 44 years	30.8	49.3	8.97	6.20	5.27
45 - 54 years	31.5	51.9	13.66	10.64	8.42
55 - 64 years	27.1	54.5	17.61	14.95	10.02
65 - 74 years	16.2	45.9	15.79	12.48	6.42
≥75 years	7.9	34.3	12.32	9.68	2.70
Education (age at completion)					
≤15 years	22.9	45.5	14.59	11.95	6.76
16–19 years	32.2	52.8	12.69	10.03	7.20
≥20 years	21.8	45.0	9.40	6.60	4.19
Still studying	22.3	28.1	1.44	0.70	0.67
Difficulty to pay bills					
Most of the time	42.9	58.8	14.29	12.09	9.66
From time to time	33.4	50.6	11.54	8.91	6.65
Almost never/never	21.7	43.8	10.25	7.72	4.64

Footnote: a-c. Among the entire sample

Supplementary Table 9. Two-level logistic regression and two-level linear regression estimated associations with five outcomes of smoking burden in the 27 EU countries and the UK, Eurobarometer 2017

Socio-demographic characteristics	Outcomes				
	Prevalence of current smoking	Prevalence of ever smoking	Length of smoking	Pack-years	Discounted pack-years
	Odds Ratio (95%CI) ^a		β-Coefficient (95%CI) ^b		
Gender					
Male (ref)					
Female	0.57 (0.53 - 0.60) ^c	0.42 (0.40 - 0.44)	-6.4 (-6.8 to -6.1)	-7.5 (-7.9 to -7.2)	-4.1 (-4.4 to -3.8)
Age					
15-24 years (ref)					
25-34 years	1.00 (0.86 - 1.16)	1.18 (1.02 - 1.36)	4.0 (3.0 to 5.0)	3.1 (2.1 to 4.2)	3.0 (2.1 to 3.8)
35-44 years	0.87 (0.74 - 1.01)	1.16 (1.00 - 1.34)	7.6 (6.5 to 8.6)	6.1 (5.0 to 7.2)	5.5 (4.6 to 6.4)
45-54 years	0.86 (0.74 - 1.01)	1.22 (1.06 - 1.41)	11.5 (10.4 to 12.5)	9.7 (8.7 to 10.8)	8.1 (7.2 to 9.0)
55-64 years	0.63 (0.54 - 0.74)	1.27 (1.10 - 1.47)	14.2 (13.1 to 15.2)	12.4 (11.3 to 13.5)	8.7 (7.8 to 9.6)
65-74 years	0.31 (0.26 - 0.38)	0.87 (0.74 - 1.03)	11.5 (10.3 to 12.6)	9.2 (8.0 to 10.5)	4.7 (3.7 to 5.7)
≥75 years	0.13 (0.11 - 0.17)	0.56 (0.47 - 0.67)	8.4 (7.1 to 9.6)	6.3 (5.0 to 7.6)	0.9 (-0.1 to 2.0)
Education (age at completion)					
≤15 years (ref)					
16-19 years	1.01 (0.92 - 1.12)	1.18 (1.09 - 1.28)	0.1 (-0.5 to -0.7)	-1.2 (-1.8 to -0.6)	-0.6 (-1.1 to -0.1)
≥20 years	0.61 (0.54 - 0.67)	0.84 (0.77 - 0.91)	-2.4 (-3.1 to -1.8)	-3.7 (-4.4 to -3.1)	-2.8 (-3.4 to -2.3)
Still studying	0.40 (0.32 - 0.49)	0.39 (0.32 - 0.48)	-4.6 (-6.0 to -3.3)	-5.9 (-7.3 to -4.4)	-3.6 (-4.8 to -2.5)
Difficulty to pay bills					
Most of the time (ref)					
From time to time	0.76 (0.68 - 0.84)	0.86 (0.78 - 0.95)	-1.6 (-2.3 to -0.9)	-1.9 (-2.7 to -1.2)	-2.1 (-2.7 to -1.5)
Almost never/never	0.52 (0.47 - 0.57)	0.65 (0.59 - 0.72)	-3.4 (-4.0 to -2.7)	-3.8 (-4.5 to -3.0)	-3.9 (-4.5 to -3.4)
Area of residence					
Rural (ref)					
Small town	1.06 (0.99 - 1.14)	1.08 (1.02 - 1.15)	0.4 (-0.1 to 0.8)	0.0 (-0.4 to 0.5)	0.2 (-0.2 to 0.6)
Large town	1.11 (1.03 - 1.20)	1.11 (1.04 - 1.19)	0.9 (0.4 to 1.3)	0.5 (0.0 to 1.0)	0.6 (0.2 to 1.0)
Occupation					
Employment (ref)					
Unemployment	1.38 (1.24 - 1.54)	1.47 (1.32 - 1.64)	3.1 (2.3 to 3.8)	2.3 (1.5 to 3.1)	2.1 (1.5 to 2.8)
Not working	1.00 (0.90 - 1.11)	1.19 (1.09 - 1.31)	2.5 (1.9 to 3.1)	2.7 (2.0 to 3.3)	1.2 (0.6 to 1.7)
Marital Status					
Single households without children (ref)					
Single households with children	1.22 (1.08 - 1.39)	1.36 (1.21 - 1.53)	1.1 (0.3 to 2.0)	0.4 (-0.5 to 1.3)	0.0 (-0.7 to 0.7)
Multiple households without children	0.78 (0.72 - 0.84)	0.99 (0.93 - 1.06)	-0.5 (-1.0 to 0.0)	-0.9 (-1.4 to -0.4)	-1.6 (-2.0 to -1.2)
Multiple households with children	0.67 (0.62 - 0.73)	0.93 (0.87 - 1.01)	-1.2 (-1.8 to -0.7)	-1.3 (-1.9 to -0.8)	-2.0 (-2.5 to -1.6)
TCS Score ^d					
Low score (ref)					
Moderate score	0.94 (0.76 - 1.17)	0.95 (0.75 - 1.22)	0.0 (-1.5 to 1.5)	-0.5 (-2.2 to 1.2)	-0.5 (-1.5 to 0.6)
High score	0.69 (0.54 - 0.87)	0.94 (0.72 - 1.23)	0.0 (-1.7 to 1.7)	-0.5 (-2.4 to 1.5)	-1.2 (-2.3 to 0.0)

Footnote:

a. Two-level logistic regression adjusted for all variables included in the table

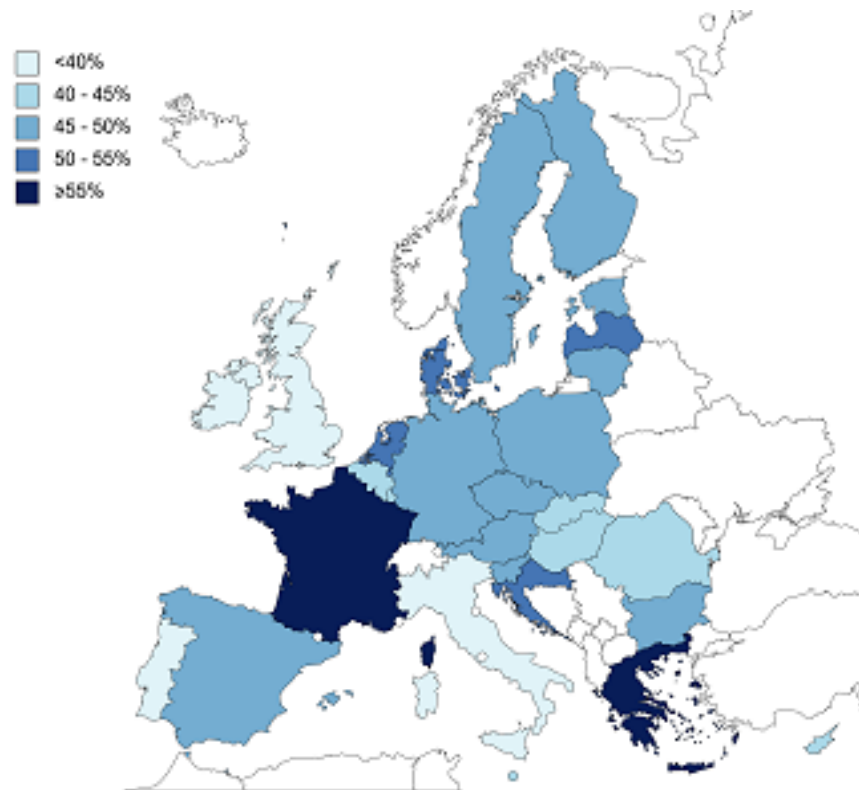
b. Two-level linear regression adjusted for all variables included in the table

c. 95% confidence interval

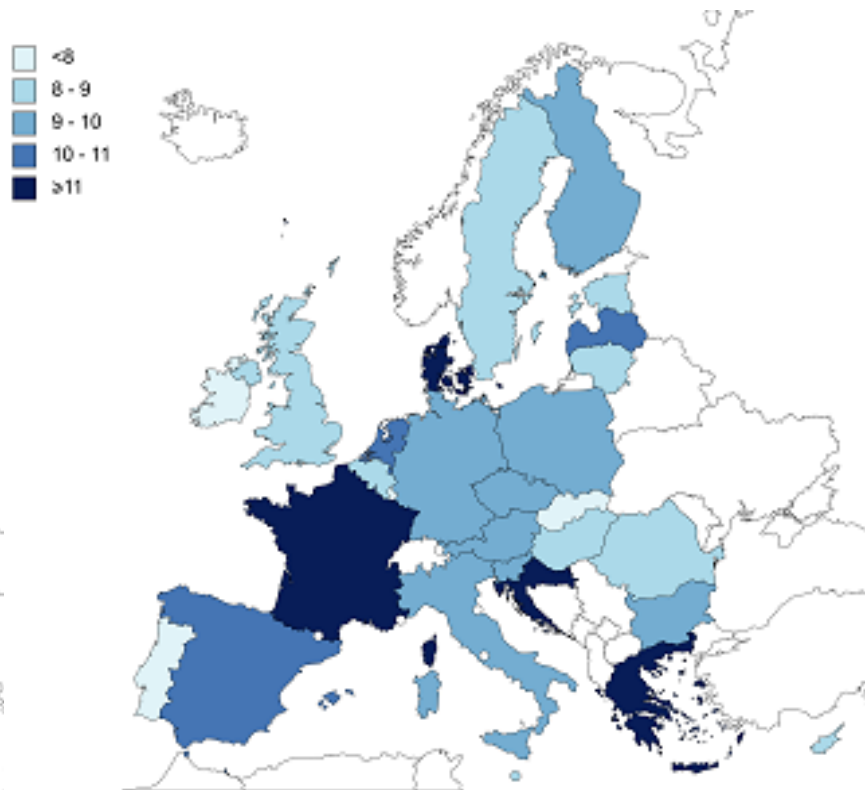
d. TCS=Tobacco Control Scale

Supplementary Figure 1: Map of the prevalence of ever smoking and length of smoking in the entire population across the EU countries, Eurobarometer 2017

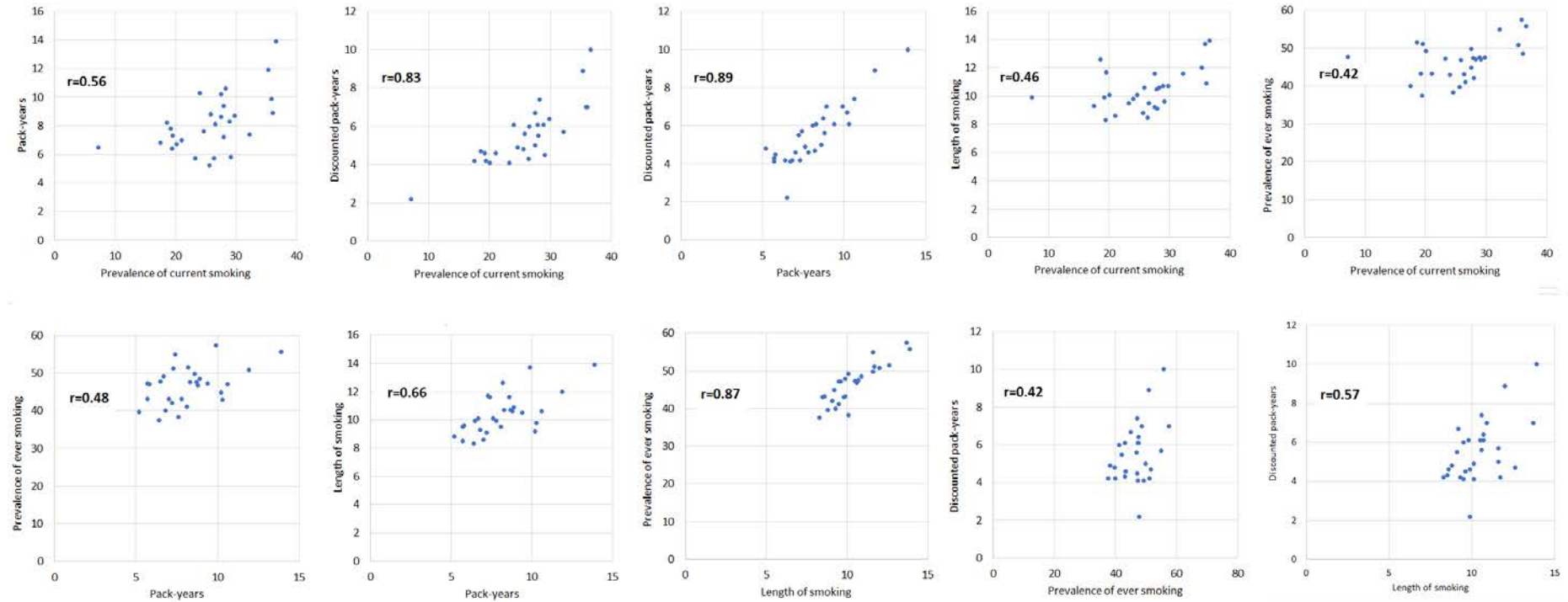
D. Prevalence of Ever smoking



E. Length of smoking



Supplementary Figure 2: Scatterplots of each indicator across the EU countries, Eurobarometer 2017



Supplementary Figure 3: Five indicators of smoking burden by socio-demographic characteristics across the 27 EU countries and the UK

