

Supplementary Box 1. Questions asked in the survey relating to tobacco and nicotine products used.

<p>Conventional cigarettes (CC): Which of these phrases fits you best? Warning: consider both manufactured tobacco cigarettes and roll-your-own cigarettes, but DO NOT consider electronic cigarettes and products such as IQOS or Glo (heated tobacco)</p> <ul style="list-style-type: none">• (1) I have never been a smoker → Never smoker• (2) I am a smoker → Current smoker• (3) I am an ex-smoker → Former smoker
<p>Electronic cigarettes (EC): Do you use (or have you used) electronic cigarettes (including those with nicotine salts or crystals such as Juul or My Blue)? Warning: consider electronic cigarettes but do NOT consider products such as IQOS or Glo (heated tobacco)</p> <ul style="list-style-type: none">• (1) Never used → Never user• (2) Only tried it 1-2 times → Never user• (3) I have used it in the past (but not in the last 30 days) → Past user• (4) I use it occasionally → Current user (occasional)• (5) I use it regularly (daily consumption) → Current user (regular)
<p>Heated tobacco products (HTP): Do you use (or have you used) heated tobacco products such as IQOS, Glo or Ploom?</p> <ul style="list-style-type: none">• (1) Never used → Never user• (2) Only tried them 1-2 times → Never user• (3) I have used them in the past (but not in the last 30 days) → Past user• (4) I use them occasionally → Current user (occasional)• (5) I use them regularly (daily consumption) → Current user (regular)

Supplementary Table 1. Socio-demographic and behavioral characteristics of 22,428 adults included in the study. Italy, 2023-2024.

	N (%)
Socio-demographic characteristics	
Sex	
Male	9,792 (43.7)
Female	12,636 (56.3)
Age (years)	
18-24	556 (2.5)
25-44	8,404 (37.5)
45-64	11,302 (50.4)
65+	2,166 (9.7)
Marital status	
Married/cohabiting	15,826 (70.6)
Divorced/separated	1,633 (7.3)
Widowed	442 (2.0)
Single	4,527 (20.2)
Economic status	
Above the Italian mean	3,822 (17.0)
In line with Italian mean	13,147 (58.6)
Below the Italian mean	5,459 (24.3)
Education level	
Middle school or lower	2,207 (9.8)
High school	12,028 (53.6)
University degree or higher	8,193 (36.5)

Supplementary Table 2. Patterns of nicotine and tobacco product consumption among 22,428 adults included in the study. Italy, 2023-2024.

Product used	N (%)	Age (years) mean (SD)	Sex male-female%
None	14,175 (63.2)	48.9 (12.6)	42.8-57.2
CC only	4,392 (19.6)	47.9 (12.0)	45.4-54.6
EC only	494 (2.2)	45.4 (12.1)	48.4-51.6
HTP only	287 (1.3)	42.9 (12.6)	42.2-57.8
CC and EC	998 (4.5)	45.6 (10.9)	46.0-54.0
CC and HTP	814 (3.6)	43.5 (11.8)	42.0-58.0
EC and HTP	179 (0.8)	41.4 (11.0)	39.1-60.9
CC, EC and HTP	1089 (4.9)	43.8 (10.8)	46.7-53.4

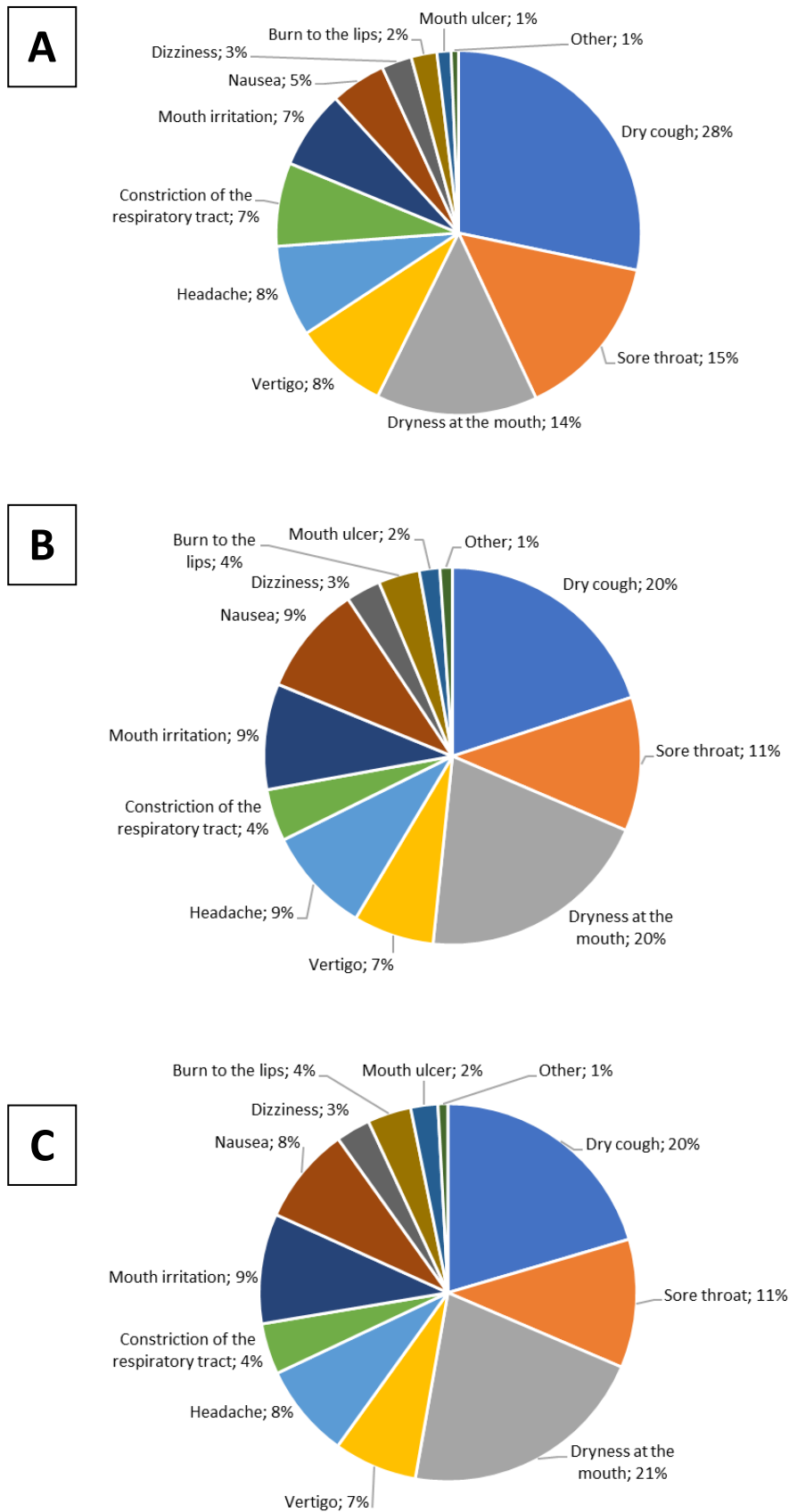
CC: conventional cigarettes; EC: electronic cigarettes; HTP: heated tobacco products; intensity: number of cigarettes per day; SD: standard deviation.

Supplementary Table 3. Adjusted odds ratios (aOR) for experiencing at least one adverse event during or after the use of conventional cigarette use, according to selected characteristics, among 22,428 adults included in the study. Italy, 2023-2024.

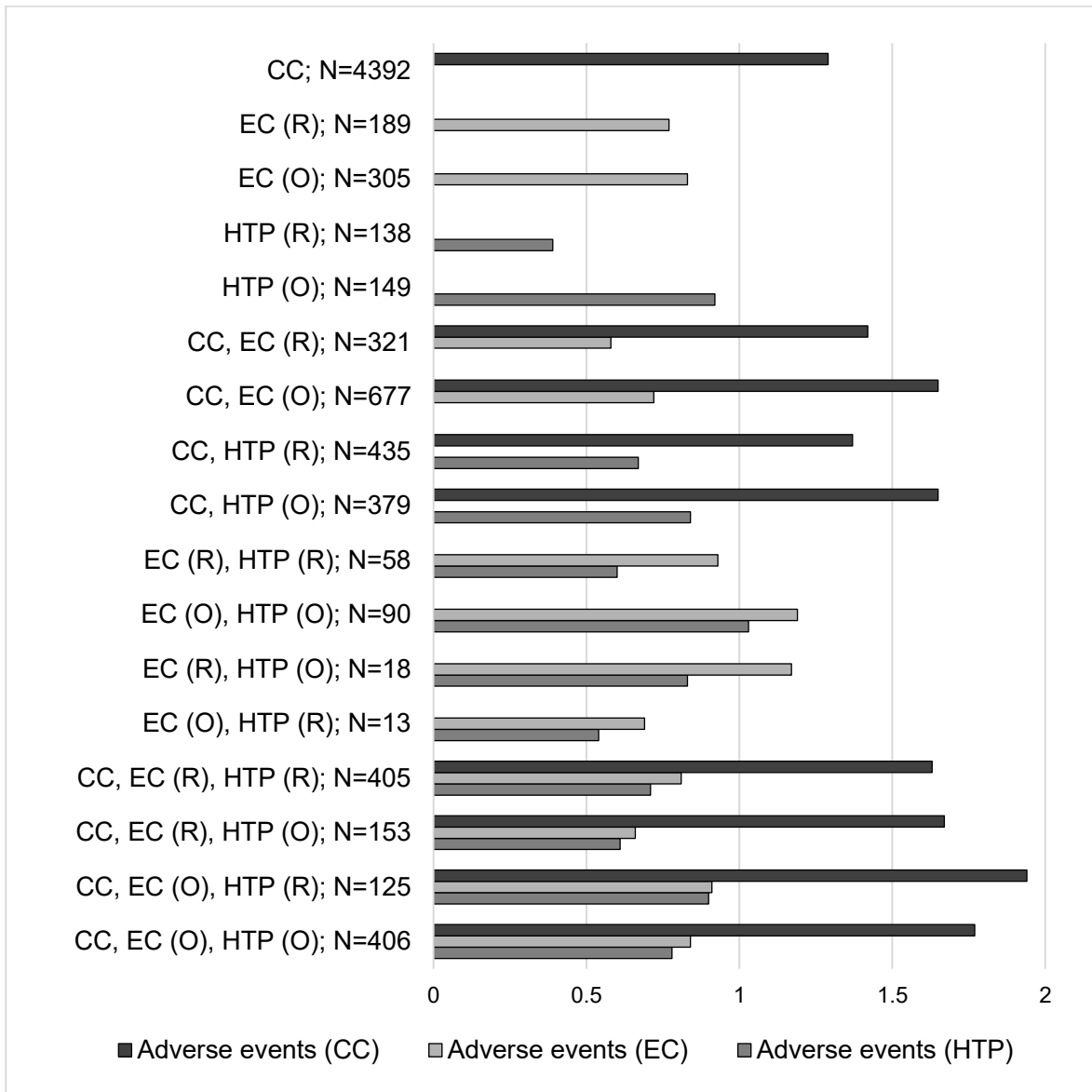
		aOR (95% CI)
Sex	Male	1.00 (ref)
	Female	0.88 (0.79-0.97)
Age	18-24	1.00 (ref)
	25-44	0.77 (0.55-1.09)
	45-64	0.56 (0.40-0.78)
	65+	0.34 (0.23-0.49)
Smoking intensity Per one CC per day increase		1.04 (1.03-1.04)
EC use	Non-user	1.00 (ref)
	User	1.32 (1.17-1.50)
HTP use	Non-user	1.00 (ref)
	User	1.14 (1.01-1.30)
Poly-use	Exclusive CC smoker	1.00 (ref)
	Poly-user	1.50 (1.29-1.75)

CI: confidence intervals; CC: conventional cigarette; EC: electronic cigarette; HTP: heated tobacco product; Poly-use: combined use of CC, EC and HTP. aORs are estimated through unconditional multiple logistic regression models adjusted for sex, age group, and smoking intensity. Statistically significant estimates at 0.05 level are reported in bold.

Supplementary Figure 1. Distribution of adverse events reported during or after consumption of conventional cigarettes (A), electronic cigarettes (B), and heated tobacco products (C) among 22,428 adults included in the study. Italy, 2023-2024.



Supplementary Figure 2. Average number of different adverse events experienced during or after the use of conventional cigarettes, electronic cigarettes or heated tobacco products, by detailed pattern of product consumption among 22,428 adults included in the study. Italy, 2023-2024.



CC: Conventional cigarettes; EC: electronic cigarettes; HTP: heated tobacco products; O: occasional use; R: regular use. The full set of questions used to define and categorise tobacco and nicotine product use is reported in Supplementary Box 1.