Supplementary file 2. Beliefs and Perceptions of Ecuadorian adults about e-cigarettes,

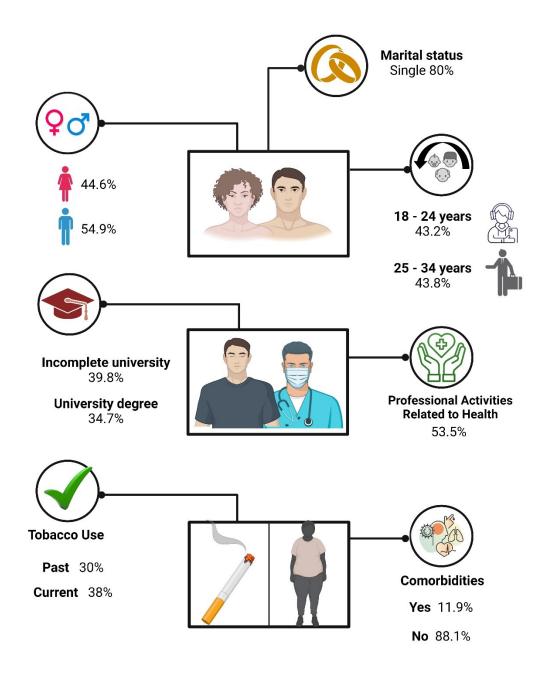
according to the prevalence of use, in 2022, n=3047.

Beliefs and Perceptions		EC Use								
		Total	I	No	Past use		Current use		P - value	
		n	n	%	n	%	n	%		
How much do you know about CE?	Nothing	539	462	85.7%	33	6.1%	44	8.2%	< 0.001	
	A little bit	1250	984	78.7%	84	6.7%	182	14.6%		
	Moderate knowledge	888	581	65.4%	91	10.2%	216	24.3%		
	A lot	133	69	51.9%	14	10.5%	50	37.6%		
	I'm an expert	34	7	20.6%	3	8.8%	24	70.6%		
Do ECs contain nicotine?	Yes	1797	1200	66.8%	166	9.2%	431	24.0%	< 0.001	
	No	1047	903	86.2%	59	5.6%	85	8.1%		
Does the EC contain tobacco?	Yes	575	476	82.8%	31	5.4%	68	11.8%	< 0.001	
	No	2269	1627	71.7%	194	8.6%	448	19.7%		
Can ECs be addictive?	Yes	2509	1868	74.5%	180	7.2%	461	18.4%	< 0.001	
	No	335	235	70.1%	45	13.4%	55	16.4%		
Does the essence of CE contain	Yes	2623	1949	74.3%	206	7.9%	468	17.8%	0.298	
chemicals that can cause long-term health damage?	No	221	154	69.7%	19	8.6%	48	21.7%		
How harmful do you think the use of	Nothing harmful	133	86	64.7%	15	11.3%	32	24.1%	< 0.001	
EC is to health?	Moderately harmful	1616	1099	68.0%	146	9.0%	371	23.0%		
	Very harmful	1095	918	83.8%	64	5.8%	113	10.3%		
Do you consider that minors (under	Yes	154	76	49.4%	22	14.3%	56	36.4%	< 0.001	
18 years old) are suitable to consume EC?	No	2690	2027	75.4%	203	7.5%	460	17.1%		
Do you think EC use has different	EC is more harmful than	273	178	65.2%	33	12.1%	62	22.7%	< 0.001	
health effects when compared to	tobacco cigarettes									
tobacco cigarette smoking?	EC is less harmful than tobacco cigarettes	1037	679	65.5%	97	9.4%	261	25.2%		
	EC and tobacco cigarettes are equally harmful	1534	1246	81.2%	95	6.2%	193	12.6%		
Do you think EC use is a helpful	Yes	929	549	59.1%	89	9.6%	291	31.3%	< 0.001	
strategy to quit smoking tobacco	No	1168	976	83.6%	75	6.4%	117	10.0%		
cigarettes?	I don't know	747	578	77.4%	61	8.2%	108	14.5%		
Do you think that the EC should have	Yes	2201	1719	78.1%	152	6.9%	330	15.0%	< 0.001	
the same consumption restrictions as tobacco cigarettes?	No	643	384	59.7%	73	11.4%	186	28.9%		
Do you consider EC consumption to	Yes	2498	1830	73.3%	200	8.0%	468	18.7%	0.064	
be fashionable?	No	346	273	78.9%	25	7.2%	48	13.9%		
	The EC tastes better	504	232	46.0%	82	16.3%	190	37.7%	< 0.001	

What are the benefits of EC consumption?	EC can be smoked in places where tobacco	453	296	65.3%	45	9.9%	112	24.7%	
	cigarettes are prohibited EC can help me quit	321	193	60.1%	38	11.8%	90	28.0%	
	smoking tobacco cigarettes	521	195	00.170	50	11.070	90	20.070	
	EC causes less damage to health than tobacco	334	255	76.3%	13	3.9%	66	19.8%	
	cigarettes								
	EC has no health benefit	1232	1127	91.5%	47	3.8%	58	4.7%	
How did you first learn about CE?	Social Media Advertising	887	750	84.6%	47	5.3%	90	10.1%	< 0.001
	Advertising on television, radio, or newspaper	208	189	90.9%	6	2.9%	13	6.3%	
	Family or friends	1625	1125	69.2%	147	9.0%	353	21.7%	
	A CE store piqued my interest	124	39	31.5%	25	20.2%	60	48.4%	
Out of 10 of your friends and family, you believe that:	Between 0 and 2 consume EC	1703	1348	79.2%	148	8.7%	207	12.2%	< 0.001
	Between 3 and 5 consume EC	819	557	68.0%	56	6.8%	206	25.2%	
	Between 6 and 7 consume EC	207	132	63.8%	17	8.2%	58	28.0%	
	Between 8 and 10 consume EC	115	66	57.4%	4	3.5%	45	39.1%	
Do your parents use e-cigarettes?	Yes	103	39	37.9%	13	12.6%	51	49.5%	< 0.001
	No	2741	2064	75.3%	212	7.7%	465	17.0%	
Do you think that people who use EC	Yes	2100	1636	77.9%	154	7.3%	310	14.8%	< 0.001
have an easier time starting to use	No	744	467	62.8%	71	9.5%	206	27.7%	
tobacco cigarettes for the first time?									
Do you think that consuming EC	Yes	1953	1519	77.8%	142	7.3%	292	15.0%	< 0.001
causes those who have quit smoking	No	891	584	65.5%	83	9.3%	224	25.1%	
tobacco cigarettes to do so again?									
Do you consider EC consumption to	Yes	1885	1467	77.8%	138	7.3%	280	14.9%	< 0.001
be a public health problem in Ecuador?	No	959	636	66.3%	87	9.1%	236	24.6%	
Do you find it annoying or	Yes	1340	1208	90.1%	59	4.4%	73	5.4%	< 0.001
uncomfortable for people to consume	No	1504	895	59.5%	166	11.0%	443	29.5%	< 0.001
EC near you?		1007	075	57.570	100	11.0/0	115	29.570	
Do you think that EC consumption in	Yes	1922	1601	83.3%	128	6.7%	193	10.0%	< 0.001
enclosed public areas should be	No	922	502	54.4%	97	10.5%	323	35.0%	
banned?									

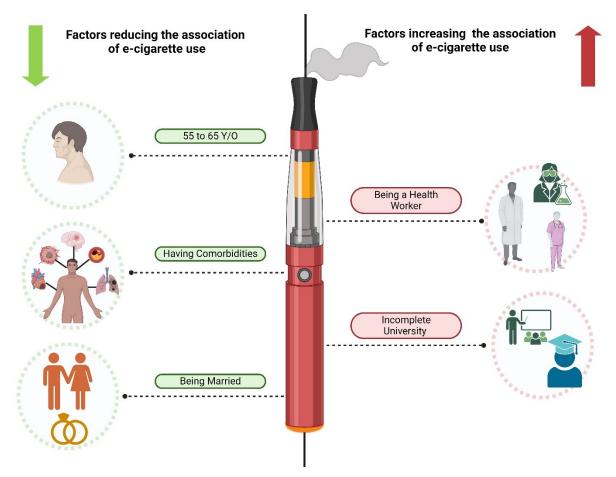
Do you know or have you seen	Yes	2096	1516	72.3%	182	8.7%	398	19.0%	0.003
people under 18 years consuming	No	748	587	78.5%	43	5.7%	118	15.8%	
EC?									
Do you think that the EC should pay	Yes	1962	1646	83.9%	120	6.1%	196	10.0%	< 0.001
extra taxes as well as tobacco and	No	839	425	50.7%	104	12.4%	310	36.9%	
liquors?									

EC: electronic cigarette. P-values were calculated from the Chi-square test.



Supplementary Figure 1. Main characteristics of ever users of electronic cigarettes among the adult population of Ecuador, in 2023, n=850.

The Figure shows the percentages of the most frequent characteristics among the group of ever smokers (past + current users) of electronic cigarettes, all percentages were calculated from n=850.



Supplementary Figure 2. Main factors associated with e-cigarette use in the adult population of Ecuador, in 2023, n=3,047.

This figure shows the factors associated with e-cigarette use, the left side shows the factors less associated with e-cigarette use, while the left side shows the factors associated with increased e-cigarette use. All the factors shown in this figure are statistically significant and are the product of an adjusted multivariate analysis.

"Beliefs, knowledge and use of electronic cigarette in adult Ecuadorian population"

Demographics

- 1. How old are you? (years old)
- 2. Sex
 - Male
 - Female
 - I'd rather not mention it.
- 3. What ethnic group do you belong to?
 - Mestizo
 - Indigenous
 - White
 - Afro-descendant
 - Montubio
 - Other
- 4. Province in which you reside
 - Azuay
 - Bolívar
 - Cañar
 - Carchi
 - Chimborazo
 - Cotopaxi
 - Gold
 - Emeralds
 - Galapagos
 - Guayas
 - Imbabura
 - Loja
 - The Rivers
 - Manabi
 - Morona Santiago
 - Napo
 - Orellana
 - Pastaza
 - Pichincha
 - Saint Helena
 - Santo Domingo de los Tsáchilas
 - Sucumbios
 - Tungurahua
 - Zamora Chinchipe

- 5. Marital status
 - Single
 - Married
 - De facto union
 - Divorced
 - Widowed
- 6. What is your academic degree?
 - Incomplete school
 - School completed
 - Secondary (school) Incomplete
 - Secondary (college) Completed
 - Complete University
 - Master/PhD/Specialty
- 7. Are the professional activities you engage in related to health areas?
 - Yes
 - No

Background

- 8. Are you diagnosed with any of the following diseases (comorbidities)?
 - Type 1 diabetes
 - Type 2 diabetes
 - Asthma
 - Cancer
 - Hyperthyroidism
 - Hypothyroidism
 - Obesity
 - High blood pressure
 - HIV/AIDS
 - Coagulation disorders
 - Chronic obstructive pulmonary disease
 - No major disease
- 9. Do you currently smoke cigarettes?
 - Yes
 - No
 - I smoked before
 - 9. 2 How many years have you been using tobacco cigarettes?
 - Between 0 and 5 years
 - Between 5 and 10 years
 - Between 10 and 20 years
 - More than 20 years
 - 9.3 How many tobacco cigarettes do you consume (on average) during a week?
 - Between 1 and 10
 - Between 11 and 20
 - Between 20 and 40
 - More than 40

- 10. Do you consume or use electronic cigarettes or vapers?
 - Yes
 - No
 - I used e-cigarettes before

Beliefs and attitudes

- 11. How much do you know about e-cigarettes?
 - Nothing at all
 - A little bit
 - Moderate
 - A lot
 - I'm an expert
- 12. Do e-cigarettes contain nicotine?
 - Yes
 - No
- 13. Do e-cigarettes contain tobacco?
 - Yes
 - No
- 14. Can e-cigarettes be addictive?
 - Yes
 - No
- 15. Does the e-cigarette contain any chemicals that can cause harmful long-term health effects?
 - Yes
 - No
- 16. How harmful do you think using e-cigarettes is to a person's health?
 - Nothing harmful is harmful
 - Moderately harmful
 - Very harmful
- 17. Do you think minors can use e-cigarettes?
 - Yes
 - No
- 18. Do you think e-cigarettes can be less harmful than tobacco cigarettes?
 - The electronic cigarette is more harmful than tobacco cigarettes
 - The electronic cigarette is less harmful than tobacco cigarettes
 - E-cigarettes and tobacco cigarettes are equally harmful
- 19. Do you think e-cigarettes are a helpful strategy for quitting smoking tobacco cigarettes?
 - Yes
 - No
 - I do not know
- 20. Do you think e-cigarettes should have the same restrictions as tobacco cigarettes?
 - Yes
 - No
- 21. Do you think e-cigarettes are all the rage?
 - Yes
 - · No

- 22. For you, which of the following is one of the benefits of e-cigarettes?
 - E-cigarettes taste better
 - E-cigarettes can be smoked in places where tobacco cigarettes are prohibited
 - E-cigarettes can help me quit smoking tobacco cigarettes
 - E-cigarettes cause less health damage than tobacco cigarettes
 - E-cigarettes have no health benefit
- 23. How did you first learn about e-cigarettes?
 - Social Media Advertising
 - Advertising on television, radio or newspaper
 - Family or friends
 - I was interested in a store
- 24. Among your friends or family, what percentage use e-cigarettes?
 - Between 0 25%
 - Between 26 50%
 - Between 51 75%
 - Between 76 100 %
- 25. Out of ten of your friends and family, you believe that:
 - Between 0 and 2 consume electronic cigarettes
 - Between 3 and 5 consume electronic cigarettes
 - Between 6 and 7 consume electronic cigarettes
 - Between 8 and 10 consume electronic cigarettes
- 26. Do your parents use e-cigarettes?
 - Yes
 - No
- 27. Do you think that people who use electronic cigarettes have an easier time starting to use tobacco cigarettes for the first time?

-Yes

-No

28. Do you think that using electronic cigarettes causes those who have quit smoking tobacco cigarettes to do so again?

-Yes

-No

29. Do you think that the use of electronic cigarettes is a public health problem in Ecuador?

-Yes

-No

30. Do you find it annoying or uncomfortable for people to use e-cigarettes near you?

-Yes

-No

31. Do you consider that the consumption of electronic cigarettes in enclosed public areas should be prohibited?

-Yes -No

- 32. Do you know or have you seen people under the age of 18 who use e-cigarettes?
 - -Yes -No

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