			Completed	Exclusive vapers	Exclusiv
			screening		
			questions		
		Total	N=3360 (%)*	N=44 (1.3%)**	N=515 (1
ŀ	Age (years)	16-24	794 (23.6)	3 (6.8)	203
		25-34	1936 (57.6)	35 (79.6)	250
		35≥	604 (17.9)	6 (13.6)	62 (
		Missing±	26 (0.8)	0	
		South	728 (21.7)	6 (0.8)	95 (
	NHS sites	London	546 (16.3)	3 (0.5)	54
	by Region	Midlands	859 (25.6)	22 (2.6)	194
		North	909 (27.1)	10 (1.1)	138
		Scotland	318 (9.5)	3 (0.9)	34 (
	Gestation	1 <sup>st</sup> trimester	1543 (45.9)	23 (52.3)	219
	at	2 <sup>nd</sup> trimester	1699 (50.6)	20 (45.5)	287
r	ecruitment	Unknown/Missing ±	118 (3.5)	1 (2.3)	9 (

**Table 1.** Prevalence of vaping and smoking amongst pregnant women.

**Exclusive smokers** 

N=515 (15.3%) \*\*

203 (39.4)

250 (48.5)

62 (12.0)

0

95 (13.0)

54 (9.9)

194 (22.3)

138 (15.2)

34 (10.7)

219 (42.5)

287 (55.7)

9 (1.8)

**Dual users** 

N=118 (3.5%)\*\*

45 (38.1)

55 (46.6)

16 (13.6)

2 (1.7)

13 (1.8)

11 (2.0)

39 (4.5)

38 (4.2)

17 (5.3)

55 (46.6)

58 (49.2)

5 (4.2)

P Value

**Comparisons between** 

categories ^

< 0.001

< 0.001

0.18

^ P value to determine statistical differences between vaping and smoking status (smokers/non-smokers/exclusive vapers, dual users) by age group, gestation when recruited into the study and region using chi-squared tests

P value P value Comparisons Vapers **Completed the** Exclusive Exclusive Comparisons (exclusive and Dual users between exclusive full survey smokers between vapers & vapers dual) vapers & dual exclusive smokers users N=33/140 N=107/140 76.4% Total N=867 N=140 N=434 (23.5%) Median 26 (22-31) 26 (23-31) 26 (22-31) 28 (26-33) 26 (22-29) [IQR] 0.18 0.007 Age 3 2 0 2 0 Missing ± GCSEs, similar or 502 (57.9%) 84 (60.0%) 296 (68.2%) 15 (45.5.0%) 69 (64.5%) none\* Highest A levels/ degree, 0.04 0.04 educational level 348 (40.1) 126 (29.0%) 18 (54.6%) 54 (38.6%) 36 (33.6%) similar or above \* Missing ± 17 (2.0%) 2 (1.4%) 12 (2.8%) 0 (0%) 2 (1.9%) ≤ 16 415 (47.9%) 73 (52.1%) 251 (57.8%) 11 (33.3%) 62 (57.9%) Age left ≥17 408 (47.1%) 20 (60.6%) 58 (41.4%) 161 (37.1%) 38 (35.5%) 0.61 0.03 1 (3.0%) education Still in education 25 (2.9%) 5 (3.6%) 10 (2.3%) 4 (3.7%) Missing ± 19 (2.2%) 4 (2.9%) 12 (2.8%) 1 (3.0%) 3 (2.8%) White British 759 (87.5%) 131 (93.6%) 382 (88.2%) 31 (93.9%) 100 (93.5.2%) Ethnicity Other 63 (11.1%) 7 (5.0%) 45 (10.4%) 0.53 2 (6.1%) 5 (4.7%) 0.76 0 (0%) Missing ± 12 (1.4%) 2 (1.4%) 7 (1.6%) 2 (1.9%)

Table 2. Sociodemographic characteristics; comparisons between pregnant vapers and exclusive smokers, and between exclusive vapers and dual users

Gestation at recruitment	1st trimester 2 <sup>nd</sup> trimester Don't know/missing	399 (46.0%) 460 (53.1) 8 (0.9)	72 (51.4) 65 (46.4) 3 (2.1)	188 (43.3) 243 (56.0) 3 (0.7)	0.06	21 (63.6) 11 (33.3) 1 (3.0)	51 (47.7) 54 (50.5) 2 (1.9)	0.91
Previous pregnancy	Yes No Missing ±	561 (64.7%) 288 (33.2%) 18 (2.1%)	100 (71.4%) 34 (24.3%) 6 (4.3%)	306 (70.5%) 121 (27.9%) 7 (1.6%)	0.50	27 (81.8%) 6 (18.2%) 0 (0%)	73 (68.2%) 28 (26.2%) 6 (5.6%)	0.27
If yes – smoked in previous pregnancy	Yes No Don't remember Missing ±	345 (61.5%) 197 (35.1%) 12 (2.1%) 7 (1.3%)	72 (72.0%) 26 (26.0%) 2 (2.0%) 0(0%)	232 (75.8%) 59 (19.3%) 8 (2.6%) 7 (2.3%)	0.32	13 (48.2%) 14 (51.9%) 0 (0%) 0(0%)	59 (80.8%) 12 (16.4%) 2 (2.7%) 0 (0%)	0.007
Planned pregnancy	Yes No Missing ±	292 (33.7%) 548 (63.2%) 27 (3.1%)	43 (30.7%) 93 (66.4%) 4 (2.9%)	121 (27.9%) 299 (68.9%) 14 (3.2%)	0.53	18 (54.6%) 15 (45.4%) (0%)	25 (23.4%) 78 (72.9%) 4 (3.7%)	0.001

± Missing data excluded from chi squared analysis ≠P values are for comparisons between exclusive smokers (who do not vape) and dual users.

\*GCSE: General Certificate of Secondary Education, compulsory exams in the UK taken between ages 15-16. A levels: General Certificate of Education Advanced Level certificate, noncompulsory exams, taken in the UK, after compulsory education ends. To note: The remaining 293/867 women who completed the full survey were recent ex-smokers who were not using ecigarette, not included in table

					P value			P value
		Total participants who completed the full survey	Vapers (exclusive & dual)	Exclusive Comparisons between smokers vapers & exclusive smokers		Exclusive vapers	Dual users	Comparisons between exclusive vapers & dual users
	Total	N=867	N=140 16.1%	N=434 50.1%		N= 33	N=107	
	Yes	639 (73.7%)	94 (67.1%)	305 (70.3%)		14 (42.4%)	80 (74.8%)	
Tried to stan analying	No	142 (16.4%)	23 (16.4%)	116 (26.7%)	0.28	0 (0%)	23 (21.5%)	-0.001
Tried to stop smoking since becoming pregnant	Stop smoking before pregnancy	61 (7.0%)	19 13.6%	0%	0.28	19 (57.6%)	0 (0%)	<0.001
	Missing ±	25 (2.7%)	4 (2.9%)	13 (13%)		0 (0%)	4 (3.7%)	
Likely to try or continue to	Likely	199 (23.0%)	103 (73.6%)	82 (18.9%)	<0.001	24 (72.7%)	79 (73.8%)	0.02
	Neither likely or unlikely	113 (13.0%)	16 (11.4%)	79 (18.2%)		3 (9.1%)	13 (12.2%)	
use EC while still pregnant	Unlikely	432 (49.8%)	8 (5.7%)	188 (43.3%)		5 (15.2%)	3 (2.8%)	
	I don't know	94 (10.8%)	10 (7.1%)	68 (15.7%)		1 (3.0%)	9 (8.4%)	
	Missing ±	29 (3.3%)	3 (2.1%)	17 (3.9%)		0	3 (2.8%)	
	Likely	212 (24.5%)	91 (65.0%)	98 (22.6%)		22 (64.5%)	69 (64.5%)	
Likely to try or continue to	Neither likely or unlikely	138 (15.9%)	26 (18.6%)	79 (18.2%)		6 (18.2%)	20 (19.0%)	0.78
use EC once baby is born	Unlikely	381 (43.9%)	6 (4.3%)	168 (38.7%)	<0.001	1 (3.0%)	5 (4.7%)	
	I don't know	107 (12.3%)	13 (9.3%)	70 (16.1%)		4 (12.1%)	9 (8.4%)	
	Missing ±	29 (3.3%)	4 (2.9%)	19 (4.4%)		0	4 (3.7%)	
Current smokers only		541		434			107	
	≤ 24 hours	470 (86.9%)		390 (89.9%)			80 (74.8%)	<0.001≠
Last smoked	> 24 hours	59 (10.9%)		34 (7.8%)			25 (23.4%)	
	Missing ±	12 (2.2%)		10 (2.3%)			2 (1.9%)	
Heaviness of Smoking	Low dependence (0-2)	345 (63.8%)		278 (64.1%)	NA		67 (62.7%)	

Table 3. Smoking and vaping behaviour; comparisons between pregnant vapers and exclusive smokers, and between exclusive vapers and dual users.

Index	Moderate/high	158 (29.2%)	 131 (30.2%)		27 (25.2%)	0.53 ≠
	dependence (3-6) Missing ±		 25 (5.8%)	NA	13 (12.1%)	
	0-10	38 (7.0%) 387 (71.5%)	 306 (71.0%)		81 (75.7%)	
Cigarettes smoked per day	≥ 11	128 23.7%)	 110 (25.4%)		18 (16.8%)	0.09 ≠
	Missing ±	26 (4.8%)	 18 (4.2%)		8 (7.5%)	
Seriously planning to quit smoking	Yes	362 (66.9%)	 286 (65.9%)		76 (71.0%)	0.01 /
	No	128 (23.7%)	 114 (26.3%)		14 (13.1%)	0.01 ≠
	Missing ±	52 (9.4%)	 34 (7.8%)		17 (15.9%)	

± Missing data excluded from chi squared analysis, ≠ P values are for comparisons between exclusive smokers (who do not vape) and dual users.

To note: The remaining 293/867 women who completed the full survey were recent ex-smokers who were not using e-cigarette

**Table 4.** Attitudes towards e-cigarettes (EC) use in pregnancy; comparisons between pregnantvapers and exclusive smokers

		All participants who completed the full survey N (%)	Vapers (exclusive & dual)	Exclusive smokers	P value: comparisons between vapers & exclusive smokers
	Total	N=867	N=140 (16.1%)	N=434 (50.1%)	
More likely to vape in	Agree	483 (55.7%)	117 (83.6%)	235 (54.2%)	
pregnancy if health professional	Neither agree or disagree	165 (19.0%)	16 (11.4%)	94 (21.7%)	<0.001
recommended	Disagree	208 (24.0%)	6 (4.3%)	99 (22.8%)	
	Missing ±	11 (1.3%)	1 (0.7%)	6 (1.4%)	
	Agree	294 (33.9%)	11 (7.9%)	126 (29.0%)	
Vaping in pregnancy	Neither agree or disagree	448 (51.7%)	87 (62.1%)	246 (56.7%)	<0.001
harms my baby	Disagree	114 (13.2%)	41 (29.3%)	56 (12.9%)	
	Missing ±	11 (1.3%)	1 (0.7%)	6 (1.4%)	
	Agree	151 (17.4%)	43 (30.7%)	68 (15.7%)	
Vaping in pregnancy is as safe as using	Neither agree or disagree	492 (56.8%)	76 (54.3%)	249 (57.37%)	<0.001
nicotine patches	Disagree	214 (24.7%)	19 (13.6%)	113 (26.0%)	
	Missing ±	10 (1.2%)	2 (1.4%)	4 (0.9%)	
	Agree	415 (47.9%)	110 (78.6%)	158 (36.4%)	
Vaping in pregnancy is much less harmful	Neither agree or disagree	304 (35.1%)	24 (17.1%)	189 (43.6%)	<0.001
than tobacco	Disagree	135 (15.6%)	4 (2.9%)	80 (18.4%)	
cigarettes	Missing ±	13 (2.0%)	2 (1.4%)	7 (1.6%)	
	Agree	674 (77.7%)	98 (70.0%)	330 (76.0%)	
Nicotine is harmful to	Neither agree or disagree	140 (16.2%)	29 (20.7%)	80 (18.4%)	0.19
my unborn baby	Disagree	42 (4.8%)	11 (7.9%)	19 (4.4%)	
	Missing ±	11 (1.3%)	2 (1.4%)	5 (1.2%)	
	To help quit smoking	392 (45.2%)	65 (46.4%)	184 (42.4%)	
*Most important reasons for vaping in	To help cut down cigarettes	40 (4.6%)	6 (4.3%)	25 (5.8%)	
pregnancy	Less harmful to others around	28 (3.2%)	0 (0%)	12 (2.8%)	
	me compared to				0.06

	tobacco smoke				
	Healthier than				
	tobacco	26 (3.0%)	5 (3.6%)	10 (2.3%)	
	cigarettes				
	They are cheaper				
	than tobacco	13 (1.5%)	1 (0.7%)	6 (1.4%)	
	cigarettes				
	Other	53 (6.1%)	2 (1.4%)	27 (6.2%)	
	Missing ±	315 (36.3%)	61 (43.6%)	170 (39.2%)	
	They do not get				
	rid of the	102 (11.8%)	12 (8.6%)	49 (11.3%)	
	smoking habit				
	Not enough		21 (15 00/)		
	research	135 (15.6%)	21 (15.0%)	52 (12.0%)	
	Bad stories in				
*Most important	press/ social	81 (9.3%)	9 (6.4%)	59 (13.6%)	0.009
reasons for NOT	media				
aping in pregnancy	Worried about	71 (8.2%)	7 (5.0%)	25 (5.8%)	
	side effects	/1(0.270)	7 (3.0%)	23 (3.8%)	
	Do not get rid of				
	nicotine	52 (6.0%)	15 (10.7%)	17 (3.9%)	
	addiction				
	Other	154 (17.8%)	49 (35.0%)	89 (20.5%)	
	Missing±	272 (31.4%)	49 (35.0%)	143 (33.0%)	

± Missing data excluded from chi squared analysis \*There were multiple answers to the questions asked about the most important reason to use or not to vape, the five most commonly reported answers are presented in the tables. To note: The remaining 293/867 women who completed the full survey were recent ex-smokers who were not using e-cigarettes

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