Exploring the accessibility of vapes to young people and adults across the UK

VAYPA study

Supplementary tables 5: Adults Versus Young People Logistic Regression

Contents

Table S5.1: Awareness of where vapes/vaping products are sold

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether seen vapes for sale in each place 1= Seen, 0= Not (No/Not sure)**		
	AOR*	**95% CI**	**P**
Any of the places below	1.12	(0.92-1.38)	0.262
Specialist vape shop	1.86	(1.64-2.1)	<0.001
Corner shop/newsagent	n/a	n/a	n.s.
Supermarket	1.06	(0.94-1.2)	0.319
Grocery/Conv	0.93	(0.82-1.05)	0.245
Petrol Station	1.26	(1.11-1.42)	<0.001
Bargain Store	1.04	(0.92-1.19)	0.516
Online	0.84	(0.73-0.96)	0.012
Mobile phone/tech	0.74	(0.64-0.86)	<0.001
Multi-purpose	1.1	(0.92-1.32)	0.302
Chemist/pharmacy	0.95	(0.75-1.21)	0.678
Dessert/Candy	0.49	(0.38-0.63)	<0.001
Barber/Hairdresser	0.55	(0.37-0.82)	0.003

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356.
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.2: Noticing of vapes/vaping products displayed in the window of any Corner shops/Newsagents

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether seen or not** **1= Seen, 0= Not (No/Not sure)**		
	AOR*	**95% CI**	**P**
Seen vapes/vaping products displayed in the window of any Corner shops/Newsagents	0.610	(0.54-0.69)	<0.001

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.3: Frequency of paying close attention to vapes/vaping products in window of Corner shops/Newsagents

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Frequency of paying close attention** **1= Often /Very Often, 0= Not (No/Not sure)**		
	AOR*	**95% CI**	**P**
Often or very often pay close attention	0.34	(0.24-0.48)	<0.001

Base: All adults who have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N=1,058, Base: All young people who have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N =1,399
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.4: Noticing of vapes/vaping products displayed in the window of any Corner shops/Newsagents - among those who currently vaped and/or smoked

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether seen or not** **1= Seen, 0= Not (No/Not sure)**		
	AOR*	**95% CI**	**P**
Seen vapes/vaping products displayed in the window of any Corner shops/Newsagents	0.404	(0.28-0.58)	<0.001

Base: All adults who currently vaped and/or smoked (unweighted): N=456, Base: All young people who currently vaped and/or smoked (unweighted): N=220
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.5: Frequency of paying close attention to vapes/vaping products in window of Corner shops/Newsagents - among those who currently vaped and/or smoked

Logistic regression: ADULTS' v YOUNG PEOPLE'S

Dependent variable:	**Frequency of paying close attention** **1= Often /Very Often, 0= Not (No/Not sure)**		
	AOR*	**95% CI**	**P**
Often or very often pay close attention	0.23	(0.14-0.38)	<0.001

Base: All adults who currently vaped and/or smoked and have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N=252. Base: All young people who currently vaped and/or smoked and have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N=165
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.6: views on vapes being displayed in windows of corner shops/newsagents

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable: **Whether view displays as communicating positive messaging about vapes/vaping** **1= Positive messaging** **0= Neutral, Negative or Not sure**			
	AOR*	**95% CI**	**P**
Positive statements:			
Makes it look like a shop that is meant for someone like me	0.32	(0.24-0.42)	<0.001
Tempts me to go into the shop	0.29	(0.21-0.40)	<0.001
Makes me think that lots of people vape	0.83	(0.69-1.01)	0.059
Makes vaping seem appealing	0.71	(0.59-0.84)	<0.001
Looks eye-catching	0.56	(0.47-0.67)	<0.001
Makes me think that it's ok to vape	0.63	(0.52-0.76)	<0.001
[#] Helps me decide whether I want to buy vapes/vaping products from that shop	0.30	(0.20-0.46)	<0.001

Base: All adults who have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N=1.064. Base: All young people who have seen vapes/vaping products in windows of corner shops/newsagents (unweighted): N=1.412.
[#]Base: All adults who have seen vapes/vaping products in windows of corner shops/newsagents and have vaped in past 12 months(unweighted): N=259 Base: All young people who have seen vapes/vaping products in windows of corner shops/newsagents and have vaped in past 12 months(unweighted): N=304
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.6a: Views on vapes being displayed in windows of corner shops/newsagents - among those who currently vaped and/or smoked

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable: Whether view displays as communicating positive messaging about vapes/vaping 1= Positive messaging 0= Neutral, Negative or Not sure	AOR*	95% CI	P
Positive statements:			
Makes it look like a shop that is meant for someone like me	0.22	(0.14-0.33)	<0.001
Tempts me to go into the shop	0.20	(0.13-0.32)	<0.001
Makes me think that lots of people vape	0.43	(0.26-0.72)	0.001
Makes vaping seem appealing	0.29	(0.19-0.45)	<0.001
Looks eye-catching	0.31	(0.20-0.48)	<0.001
Makes me think that it's ok to vape	0.41	(0.27-0.62)	<0.001
Helps me decide whether I want to buy vapes/vaping products from that shop	0.24	(0.15-0.39)	<0.001

Base: All adults who have seen vapes/vaping products in windows of corner shops/newsagents and currently vape and/or smoke (unweighted): N=253. [#]Base: All young people who have seen vapes/vaping products in windows of corner shops/newsagents and currently vape and/or smoke (unweighted):N=165.
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.7: Views on vapes being sold from behind the counter and customers having to ask a member of staff for them

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable: Whether view displays as communicating messaging consistent with controls being in place to restrict purchase 1= Yes (codes 1 or 2 to the statements) 0= Neutral, Negative or Not sure (codes 3, 4, 5 or not sure)	AOR*	95% CI	P
Statements:			
Makes difficult to see range of vapes available	1.02	(0.91-1.16)	0.711
Makes it feel like vapes are not meant for someone like me	0.36	(0.32-0.41)	<0.001
Makes it difficult for someone like me to buy vapes	0.26	(0.23-0.29)	<0.001
[#] Puts me off buying vapes/vaping products	0.56	(0.42-0.75)	<0.001

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356
[#]Base: All who have vaped in past 12 months(unweighted)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.7a: Views on vapes being sold from behind the counter and customers having to ask a member of staff for them - among those who currently vaped and/or smoked

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:			
Whether consider that selling from behind the counter communicates messaging consistent with controls being in place to restrict purchase			
	1= Yes (codes 1 or 2 to the statements) 0= Neutral, Negative or Not sure (codes 3, 4, 5 or not sure)		
	AOR*	**95% CI**	**P**
Statements:			
Makes difficult to see range of vapes available	1.09	(0.78-1.51)	0.612
Makes it feel like vapes are not meant for someone like me	0.40	(0.28-0.58)	<0.001
Makes it difficult for someone like me to buy vapes	0.53	(0.36-0.76)	<0.001
[#] Puts me off buying vapes/vaping products	0.53	(0.36-0.76)	0.001

Base: All adults who currently vape and/or smoke (unweighted): N=456, Base: All young people who currently vape and/or smoke (unweighted): N=220
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.8: Types of vapes/vaping products purchased by Adults and Young people in past 12 months

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether bought or not**		
	1= Bought, 0= Not (No/Not sure)		
	AOR*	**95% CI**	**P**
Rechargeable with tank that gets filled with e-liquid	3.14	(2.12-4.66)	<0.001
E-liquids for a rechargeable with tank	3.83	(2.56-5.72)	<0.001
Rechargeable with replaceable pre-filled cartridges/pods	1.35	(0.86-2.11)	0.189
Pre-filled cartridges/pods for a rechargeable vape	1.22	(0.71-2.11)	0.470
A disposable vape (non-rechargeable)	2.22	(1.66-2.98)	<0.001

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.9: Affordability of vapes: whether find it difficult to afford vapes

Logistic regression: ADULT v YOUNG PEOPLE

Dependent variable:	**Whether find it difficult to afford vapes** **1= Difficult (very or quite)** **0= Not (Easy (very or quite) / Neither easy nor difficult / Not sure)**		
	AOR*	**95% CI**	**P**
Difficult to afford (very or quite)	0.45	(0.3-0.67)	<0.001

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417)
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.10: How obtain vapes

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether indicated having obtained in these ways** **1= Yes, 0= No**		
	AOR*	**95% CI**	**P**
Bought vapes (including asking others)	2.63	(1.95-3.54)	<0.001
Bought vapes themselves	5.15	(3.83-6.92)	<0.001
Been given vapes	0.24	(0.18-0.32)	<0.001

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417)
** adjusted for all other variables in the model (gender, IMD quintile, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.11: All in-person purchasing sources of vapes/vaping products in past 12 months

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	Whether purchased from source 1= Purchased, 0= Not purchased		
	AOR*	95% CI	P
A shop	**3.15**	**(2.29-4.34)**	**<0.001**
Supermarket	2.42	(1.62-3.6)	<0.001
Grocery / Convenience Store	1.91	(1.29-2.83)	0.001
Corner Shop / Newsagent	1.02	(0.72-1.45)	0.905
Bargain store (e.g. Poundland, Home Bargains)	1.54	(0.84-2.83)	0.163
Petrol station	2.99	(1.47-6.07)	0.002
Specialist vape shop	2.96	(1.87-4.67)	<0.001
A market stall	0.46	(0.23-0.9)	0.024
Pub / nightclub	1.2	(0.63-2.26)	0.581

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.12: Online sources used to order vapes/vaping products in past 12 months

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether used each online source to order or not** **1= Used, 0= Not used**		
	AOR*	**95% CI**	**P**
Website/app for a specialist vape shop	1.73	(1.16-2.57)	0.007
Supermarket website/app	0.54	(0.27-1.08)	0.082
Grocery/takeaway delivery services (e.g. Snappy Shopper, Uber Eats, Deliveroo etc)	0.39	(0.19-0.8)	0.011
General website/app (e.g. Amazon, Ebay etc)	1.73	(0.97-3.08)	0.062

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.13: Main purchasing source for vapes in past 12 months.

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether each is a main source to purchase or not** **1= Main source, 0= Not**		
	AOR*	**95% CI**	**P**
Online	2.88	(1.76-4.73)	<0.001
Website/app for specialist vape shop	3.03	(1.69-5.45)	<0.001
A shop	2.59	(1.87-3.61)	<0.001
Supermarket	6.69	(2.56-17.53)	<0.001
Grocery/Convenience store	2.67	(1.24-5.76)	0.012
Corner Shop/Newsagent	0.96	(0.61-1.51)	0.852
Not purchased	0.22	(0.16-0.31)	<0.001

Base: All adults who have vaped in past 12 months (unweighted): N=431, Base: All young people who have vaped in past 12 months (unweighted): N=417)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.14: The perceptions of people who vape on the importance of different aspects of the purchase process

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether consider to be important 1= Important, 0= Not**		
	AOR*	**95% CI**	**P**
Price	0.82	(0.5-1.34)	0.424
Price clearly displayed / able to see price before buying	0.67	(0.42-1.07)	0.096
Easy process for buying / ordering	0.88	(0.55-1.41)	0.595
Being able to see what range of vapes / vaping products are available	1.35	(0.87-2.1)	0.185
Trustworthy shop / retailer	1.44	(0.94-2.21)	0.095
Hassle-free service	1.06	(0.67-1.66)	0.814
Convenient location / convenient to get to	0.83	(0.54-1.28)	0.394
Range of flavours	0.62	(0.4-0.96)	0.031
Selection of vapes / vaping products	1.23	(0.81-1.87)	0.331
Convenient opening hours	0.74	(0.48-1.12)	0.156
Being able to get vapes / vaping products delivered to me	1.08	(0.7-1.66)	0.724
Having vapes / vaping products in the main part of the store where customers can pick them up / browse and take them to the till to pay	0.47	(0.31-0.72)	0.001
Product recommendations from shop / retailer	0.75	(0.47-1.2)	0.234
Loyalty scheme / rewards scheme	0.69	(0.43-1.13)	0.142

Base: All adults who, in past 12 months, have bought vapes/vaping products themselves (unweighted): N=312, Base: All young people who, in past 12 months, have bought vapes/vaping products themselves (unweighted): N =141)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.15: Views on which shops should be allowed to sell vapes

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	Whether think vapes should be sold at these stores 1= Yes, 0= No/not sure		
	AOR*	95% CI	P
Supermarket	1.02	(0.9-1.16)	0.763
Grocery/convenience store (e.g. Spar, Co-op, Premier)	1.08	(0.94-1.23)	0.292
Corner Shop / Newsagent	1.07	(0.94-1.23)	0.316
Bargain store (e.g. Poundland, Home Bargains)	0.91	(0.75-1.11)	0.366
Mobile phone/tech repair shop	0.89	(0.68-1.16)	0.372
Multi-purpose shop (e.g. gifts/hardware)	0.75	(0.59-0.96)	0.023
Dessert/candy/slushie shop	0.58	(0.4-0.84)	0.004
Chemist / Pharmacy	1.41	(1.21-1.65)	<0.001
Petrol station	1.19	(1.02-1.38)	0.031
Grocery/takeaway delivery services (e.g. Snappy Shopper, Uber Eats, Deliveroo etc)	0.99	(0.77-1.3)	0.994
Tanning Salon	0.95	(0.63-1.45)	0.820
Specialist vape shop	1.22	(1.08-1.37)	0.001
None of these	1.32	(1.13-1.54)	0.001

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.16: Views on number of places selling vapes

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	Whether think there are too many places selling vapes 1= Yes, 0= No (including not sure)		
	AOR*	95% CI	P
Whether think there are too many places selling vapes	1.20	(1.04-1.38)	0.011

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.

Table S5.17: Knowledge of age restrictions on purchasing vapes that contain nicotine

Logistic regression: ADULTS v YOUNG PEOPLE

Dependent variable:	**Whether correctly indicate that age limit is 18 or over** **1= Yes, 0= No (including not sure)**		
	AOR*	**95% CI**	**P**
Age restriction 18 or over for vapes containing nicotine	0.62	(0.55-0.70)	<0.001

Base: All adults (unweighted): N=2,182, Base: All young people (unweighted): N =2,356)
** adjusted for all other variables in the model (gender, IMD quintile, vaping/smoking status, country), AOR, adjusted odds ratio; ref, reference category; 95% CI, 95% confidence interval: Reference category is Young People.*
AOR > 1 indicates adults being more likely than young people. Adj OR < 1 indicates adults being less likely than young people.