

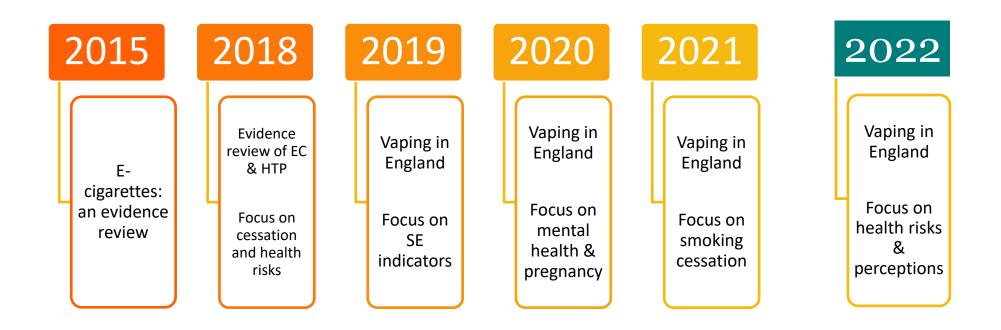
No competing interests

- No funding from pharmaceutical, e-cigarette or tobacco industries
- My funding is from governmental & nongovernmental sectors

Overview

- Context: e-cigarette evidence reviews in England
- Who are the vulnerable?
- Smoking, vaping & quitting behaviours in context of vulnerability
- How do we ensure smokefree targets include the most vulnerable?

6 commissioned e-cigarette evidence reviews carried out by Nicotine Research Group at King's



English government's commitment to regularly review the evidence on e-cigarettes

Vulnerable? ..state of being exposed to the potential of being harmed

Young people

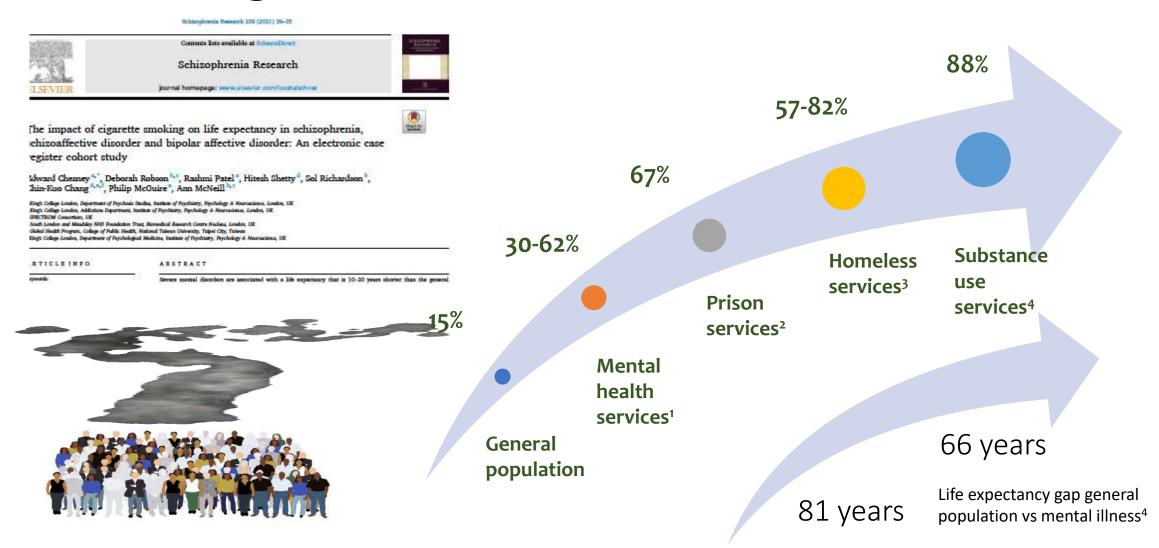
People who smoke

"any marker of disadvantage that can be envisaged & measured, whether personal, material or cultural, is likely to have an independent association with cigarette smoking"



Professor Martin Jarvis, OBE, 1999

Smoking & the vulnerable



1. Wu CY, Chang CK, Robson, **D** et al. (2013) Plos One, 8 (9) 2. Smith, Eastwood, Robson (2021) 3. Soar, Dawkins, Robson, Cox. Journal of Smoking Cessation (2020), 1–15, 4. Cookson, Strang, Ratschen, Sutherland, Finch, McNeill (2018) BMC 14:304.

Health inequities & social justice

"Differences in health that are not only unnecessary & avoidable but, in addition, are considered unfair & unjust"



Dame Professor
Margaret
Whitehead
The concepts &
principles of equity
in health, 1992

2015 report

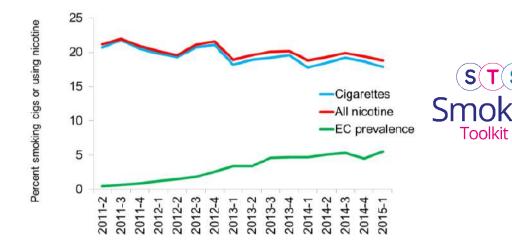


 E-cigarettes rapidly taken up without any persuasion

Adults:

- 5% using e-cigarettes, 0.2% never smokers
- Smoking declining ~19%

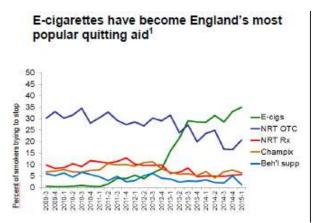
The rise of e-cigarette use in England



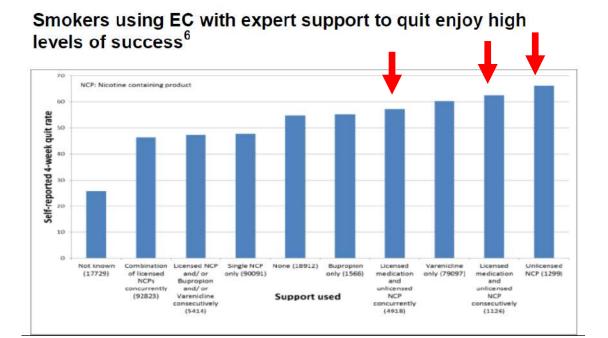
2015: Emerging evidence of e-cigarettes aiding quitting

- E-cigarettes the most popular quit support aid after no support
- High success rates in smokers attending Stop Smoking Services
 & using e-cigarettes
- Observational & RCT evidence



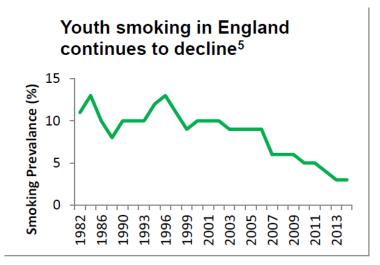






2015: No evidence of 'gateway'

No evidence of vaping renormalising smoking or increasing smoking uptake



11-15 yr olds (Smoking, Drinking & Drugs Survey, 2014)

Action on Smoking & Health (ASH) Youth Surveys: Youth (11-18 yr olds, at least monthly)

- 2% e-cigarette users, 0.3% never smokers
- 7% cigarette smokers

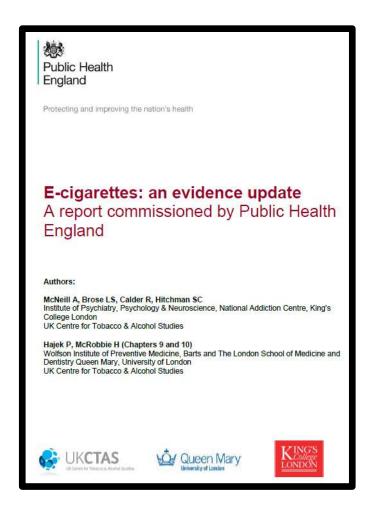
2015: What did we conclude?

- Smokers who have tried other methods of quitting without success could be encouraged to try e-cigarettes to stop smoking
- Stop smoking services should support smokers using ecigarettes to quit by offering them behavioural support
- E-cigarettes potentially offer a wide reach, low-cost intervention to reduce smoking & improve health in disadvantaged groups

2015: We also called for

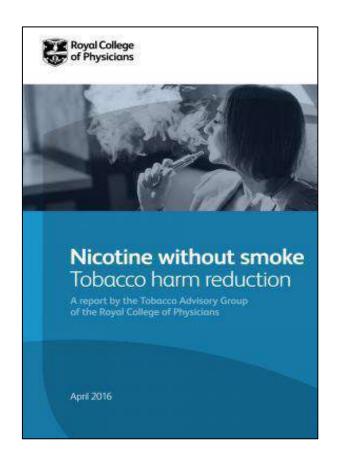
- Licensed/medicinal e-cigarettes as they could:
 - Have higher nicotine content
 - Be promoted for smoking cessation
 - Reassure health professionals &
 - Enable more disadvantaged smokers to get e-cigarettes for free
- Lots more research particularly longitudinal research on ecigarette use, including smokers who have not used ecigarettes at study outset

2015: But...

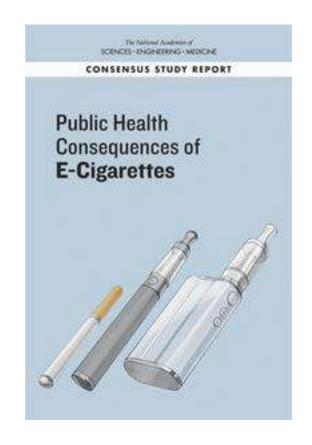


'It has been previously estimated that e-cigarettes are around 95% safer than smoking. This appears to remain a reasonable estimate'

Broadly corroborated by subsequent reviews

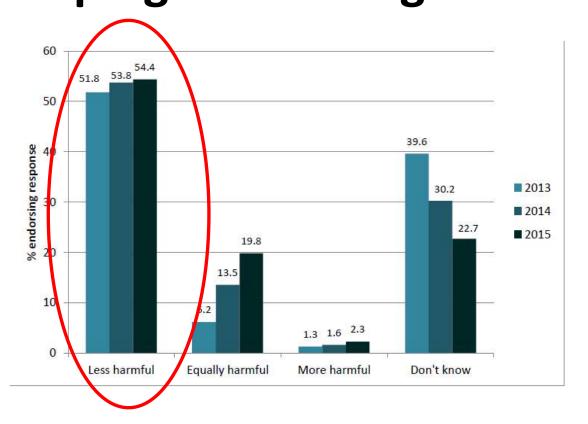


'...the hazard to health arising from longterm vapour inhalation from the ecigarettes available today is unlikely to exceed 5% of the harm from smoking tobacco...'



Conclusion 18-1. There is conclusive evidence that completely substituting e-cigarettes for combustible tobacco cigarettes reduces users' exposure to numerous toxicants and carcinogens present in combustible tobacco cigarettes

To address misperceptions of relative risks of vaping vs smoking



Adult perceptions about e-cigarette harms compared with smoking (Figure 17, 2015 report) ASH Adult Surveys







Protecting and improving the nation's health

Underpinning evidence for the estimate that e-cigarette use is around 95% safer than smoking: authors' note

The estimate that e-cigarette use is around 95% safer than smoking is based on the facts that:

- the constituents of cigarette smoke that harm health including carcinogens –
 are either absent in e-cigarette vapour or, if present, they are mostly at levels
 much below 5% of smoking doses (mostly below 1% and far below safety limits
 for occupational exposure)
- the main chemicals present in e-cigarettes only have not been associated with any serious risk

Our review aimed to assess whether studies that have recently been widely reported as raising new alarming concerns on the risks of e-cigarettes changed the conclusions of the previous independent review (Britton and Bogdanovica, 2014) and other reassuring reviews.

We concluded that these new studies do not in fact demonstrate substantial new risks and that the previous estimate by an international expert panel (Nutt et al., 2014) endorsed in an expert review (West et al., 2014) that e-cigarette use is around 95% safer than smoking, remains valid as the current best estimate based on the peer-reviewed literature.

Some flavourings and constituents in e-cigarettes may pose risks over the long term. We consider the 5% residual risk to be a cautious estimate allowing for this uncertainty.

Ongoing monitoring is needed to ensure that if any new risks emerge, recommendations to smokers and regulatory requirements are revised accordingly.

On current evidence, there is no doubt that smokers who switch to vaping reduce the risks to their health dramatically. rupusned in tinai edited form as

Addiction. 2014 November; 109(11): 1801-1810. doi:10.1111/add.12659.

Electronic cigarettes: Review of use, content, safety, effects on smokers, and potential for harm and benefit

Peter Hajek,

UK Centre for Tobacco and Alcohol Studies, Wolfson Institute of Preventive Medicine, Queen

Mary University of London, UK

Jean-François Etter,

Institute of Social and Preventive Medicine, Faculty Switzerland

Neal Benowitz

Division of Clinical Pharmacology and Experimental Bioengineering & Therapeutic Sciences, School of It Francisco, USA

Thomas Eissenberg, and

Center for the Study of Tobacco Products, Departm University, USA

Hayden McRobbie

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Tobacco Dependence Research Unit, Wolfson Inst University of London, UK

> h h

Eur Add DOI: 10.

Electronic cigarettes: what we know so far

Robert West, University College London (robert.west@ucl.ac.uk); Peter Hajek, Queen Mary University of London; Ann McNeill, Kings College London; Jamie Brown, University College London; Deborah Arnott Action on Smoking and Health

Version 1 of this document was presented to the UK All-Party Parliamentary Group on Pharmacy: 10th June 2014.

Version 3 is being presented to the UK's All Party Parliamentary Group on Smoking and Health: 4th March 2015

Cite as: West R, Hajek P, Mcneill A, Brown J, Arnott D (2014) Electronic cigarettes: what we know so far. A report to UK All Party Parliamentary Groups. www.smokinginengland.info/reports/

Current version: 2nd March 2015

This paper summarises evidence relating to key issues surrounding e-cigarettes. It will be updated as new information emerges. Updated versions are made available on www.smokinginengland.info

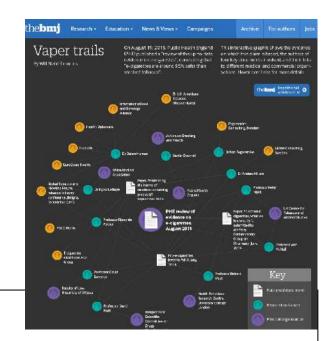
Safety: E-cigarettes are much less harmful than smoking but not 100% safe

1. From the concentrations of potentially harmful inhalants in vapour, e-cigarette use from brands that have been tested so far would be expected much less harmful to health than smoking tobacco cigarettes (1-3). Well publicised reports of potential harmfulness of e-cigarette vapour have typically not compared this with tobacco cigarettes and/or have set up unrealistic conditions, e.g. (4). The precise extent of harm from long-term use is not known but from the toxicological evidence to date it would be expected to be 95% less than that of smoking tobacco cigarettes (5).

Estimating the Harms of Nicotine-Containing Products Using the MCDA Approach

David J. Nutt^a Lawrence D. Phillips^b David Balfour^f H. Valerie Curran^c Martin Dockrell^d Jonathan Foulds^h Karl Fagerstrom^l Kgosi Letlape^k Anders Milton^J Riccardo Polosa^l John Ramsey^e David Sweanor^g







BMJ 2015;351:h5826 doi: 10.1136/bmj.h5826 (Published 3 November 2015)

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PUBLIC HEALTH

Public Health England's troubled trail

The handling of evidence for its controversial report on e-cigarettes adds to questions about the credibility of the organisation's advice, finds **Jonathan Gornall**

Whilst we are arguing, people are dying

Mental health problems (adults & children)

Substance use problems

Learning difficulties

In/released from prison

Homeless

Unemployed

Low education

Low income

Job type (R&M vs professional)

Housing type (e.g. social housing vs owned)

Location

Multiple risk factors cluster together in the same individual

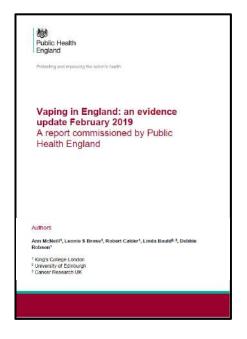




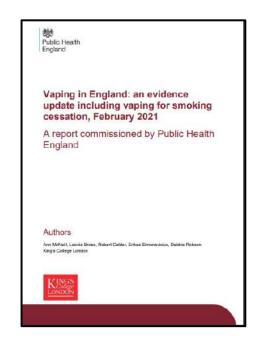


PHE Reports 2018 – 2021









New health risks e.g fires, poisons, explosions, & harm perceptions

Focused on SE indicators & e-cigarettes in Stop Smoking Services.

2 new systematic reviews of ecigarettes in mental health & pregnancy COVID19. New systematic review of e-cigarettes & smoking cessation

Progress....

2015 2018





Government-commissioned evidence review series

2022

2015

2018

2019

2020

Vaping in

England

Focus on

mental

health &

pregnancy

2021

England

smoking

Evidence review of EC & HTP

Focus on cessation and health risks

Vaping in England

Focus on SE indicators

Vaping in

Focus on cessation Nicotine vaping in England: an evidence update including health risks and perceptions, 2022

A report commissioned by the Office for Health Improvement and Disparities

Published 29 September 2022

Authors

Ann McNeill, Erikas Simonavičius, Leonie Brose, Eve Taylor, Katherine East, Elizabeth Zuikova, Robert Calder, Debbie Robson

Ecigarettes: an evidence review

Chapters

- 1. Introduction
- 2. Methods
- 3. Vaping among young people
- 4. Vaping among adults
- 5. Nicotine
- 6. Flavours in vaping products
- 7. Biomarkers of exposure to nicotine and potential toxicants
- 8. Biomarkers of potential harm cutting across several diseases

- 9. Cancers
- 10. Respiratory diseases
- 11. Cardiovascular diseases
- 12. Other health outcomes
- 13. Poisonings, fires & explosions
- 14. Heated tobacco products
- 15. Harm perceptions & communications
- 16. Conclusions

Overall findings

Vaping poses only a small fraction of the risks of smoking in the short to medium term

Vaping is not risk-free, particularly for people who have never smoked

Methodological limitations common in studies

Overall findings

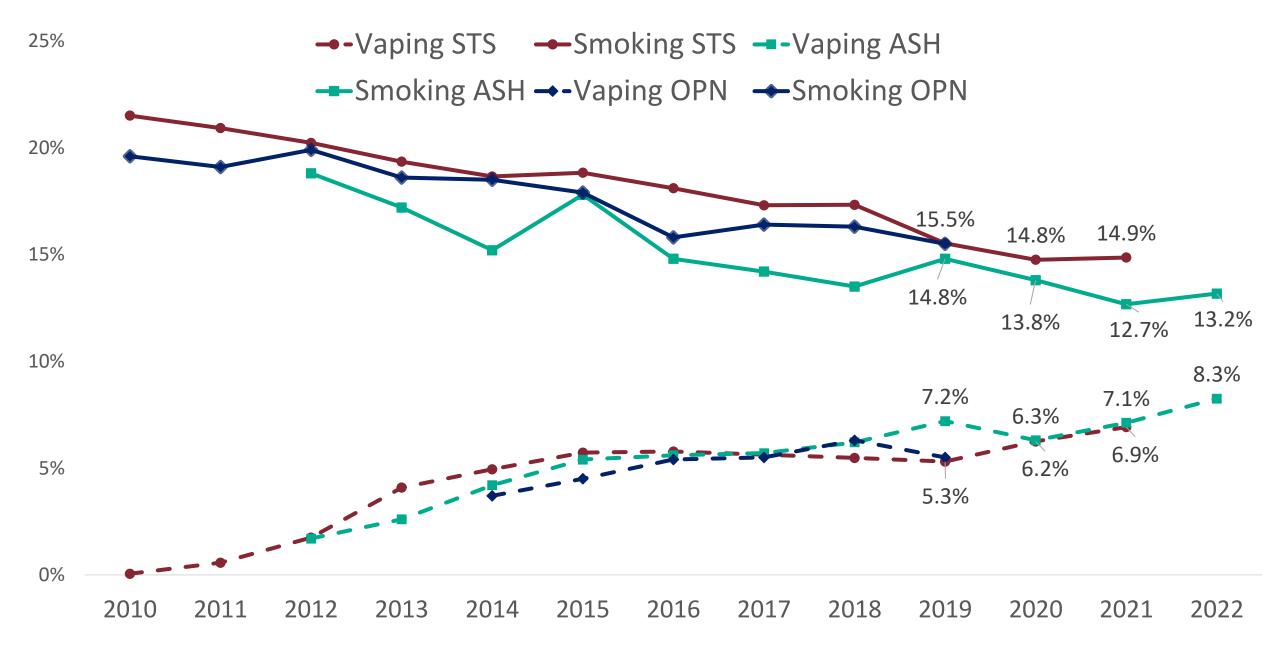
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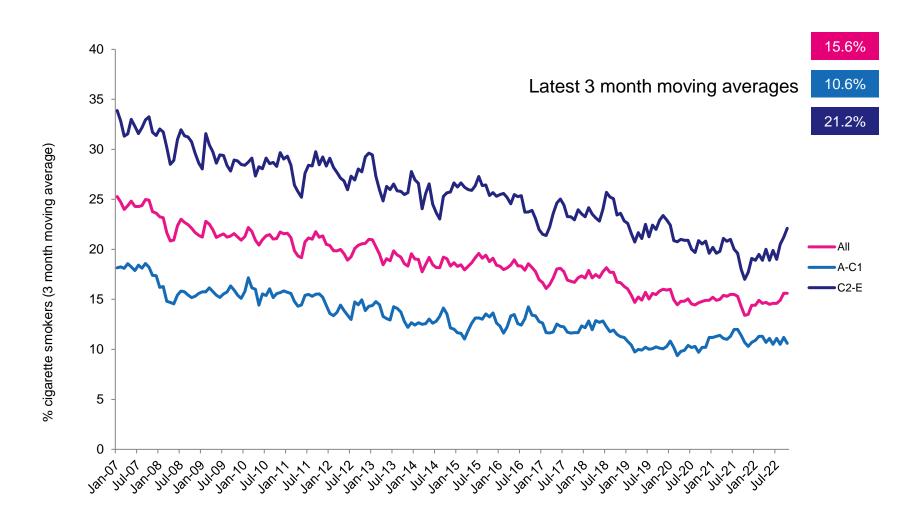
2022 PATTERNS OF SMOKING, VAPING & QUITTING SMOKING

Smoking & vaping among adults in England

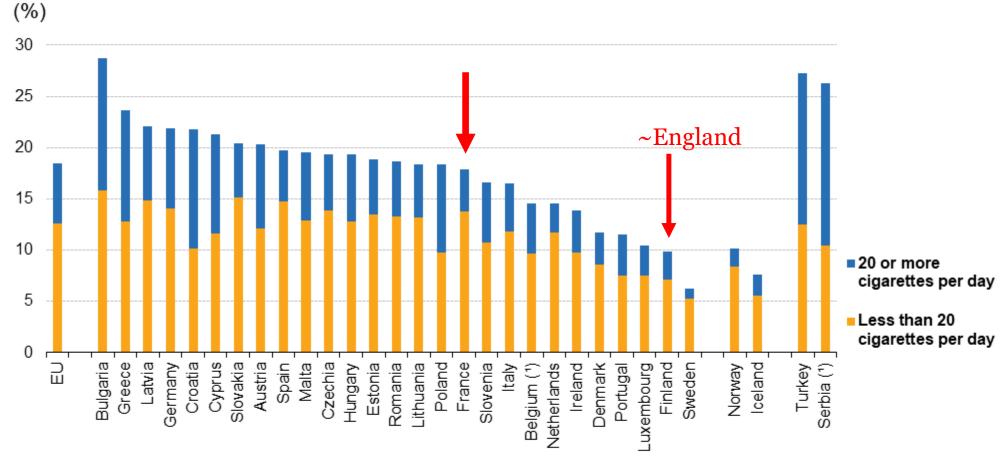


Prevalence of cigarette smoking by social grade





Share of daily smokers of cigarettes among persons aged 15 and over, by level of consumption, 2019



Note: ranked on the share of all daily smokers.

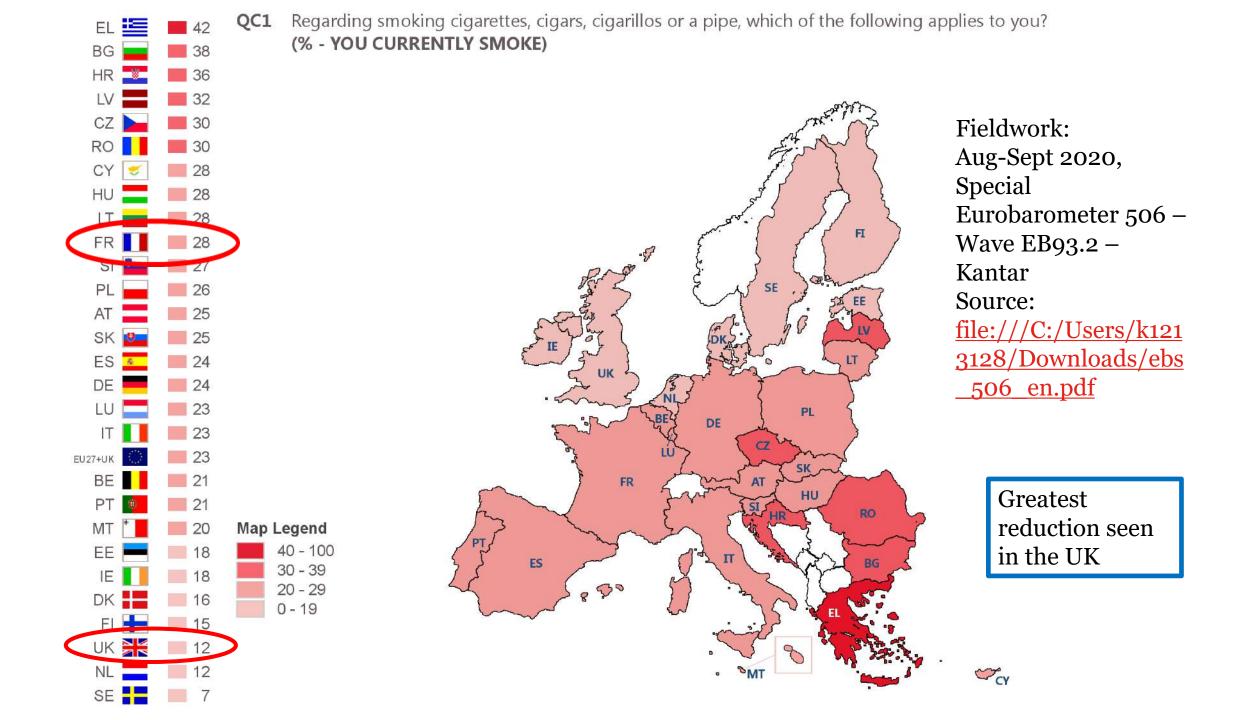
(1) Low reliability.

Source: Eurostat (online data code: hlth_ehis_sk3e)

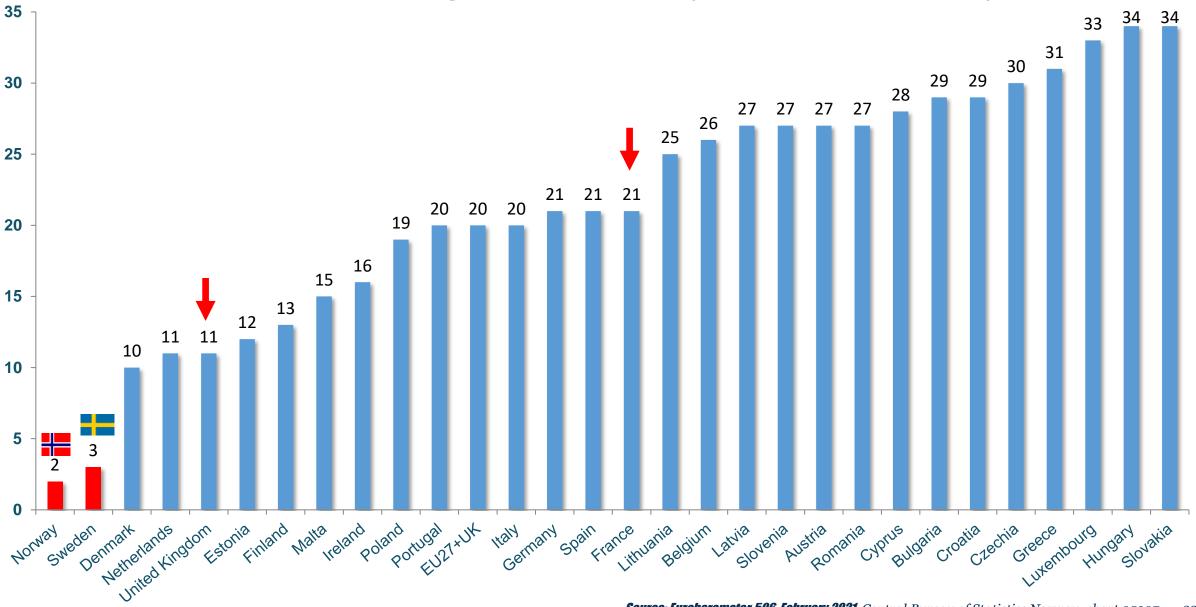
European Health Interview Survey, 2019



England data roughly based on 2/3 of current smokers being daily smokers, i.e. 10%

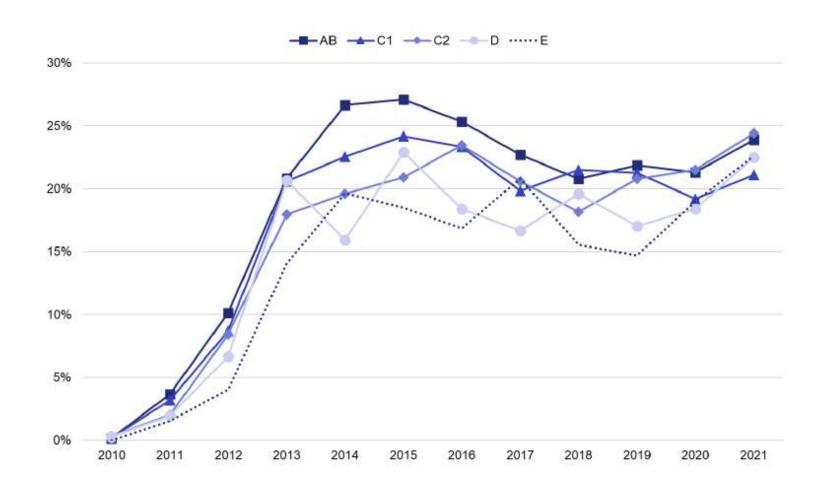


Tobacco smokers aged 15-24 years in Europe, 2021



E-cigarette use among smokers from different socioeconomic groups (England, STS, 2022 report)

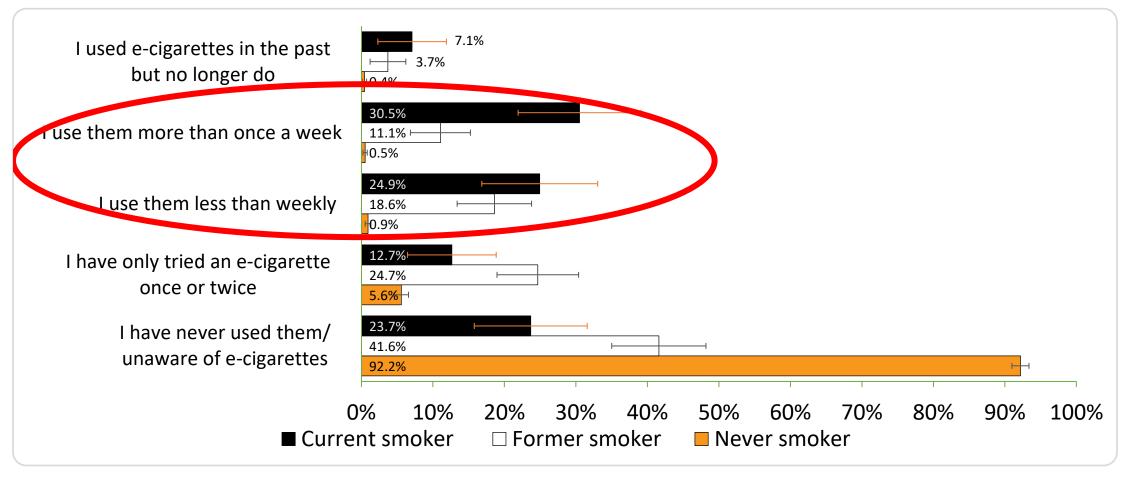




Smoking & vaping among young people (11-18 yrs) in England (ASH-Youth Surveys)

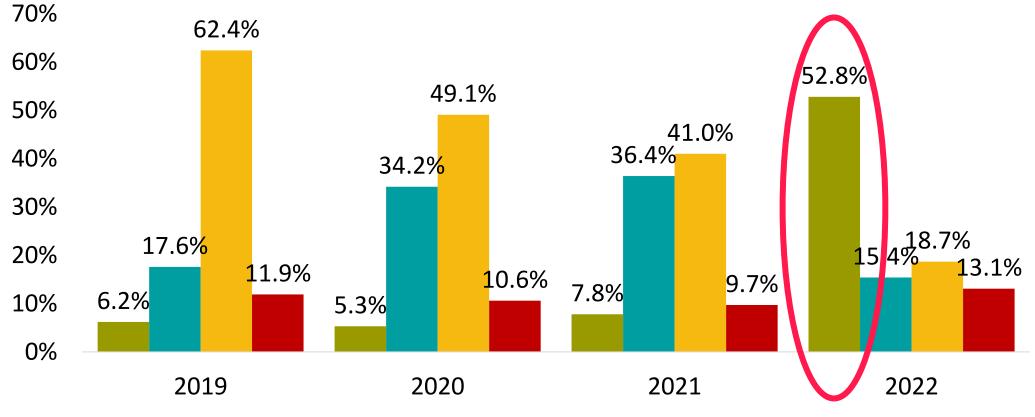
ASH Surveys	2015	2016	2017	2018	2019	2020	2021	2022
Unweighted sample size	1,926	1,999	2,260	2,011	2,173	2,168	2,151	2,259
Smoking status %								
Never tried	77.1	80.3	76.9	78.6	79.7	80.9	83.5	80.2
Tried only	11.7	9.7	10.7	10.2	9.0	8.3	8.6	8.1
Former	3.0	3.3	3.6	3.5	3.4	3.0	3.0	3.7
Current	7.1	5.2	7.8	6.1	6.3	6.7	4.1	6.0
Vaping status %								
Never tried	93.9	87.8	83.2	82.8	83.6	82.8	86.3	80.9
Tried only	4.7	9.3	10.9	12.3	9.4	10.0	8.6	9.1
Former	-	-	1.7	0.8	0.9	1.8	1.2	1.4
Current	1.2	2.5	3.5	3.5	4.8	4.8	4.0	8.6

Most GB 11-17 yr olds (92.2%) who have never smoked have also never vaped, with ~1.4% current vaping



ASH, 2022. Use of e-cigarettes (vapes) among young people in Great Britain

Type of vaping product used by 11-18 yr olds who currently vape, England 2019-2022 (Zeller Qu5)

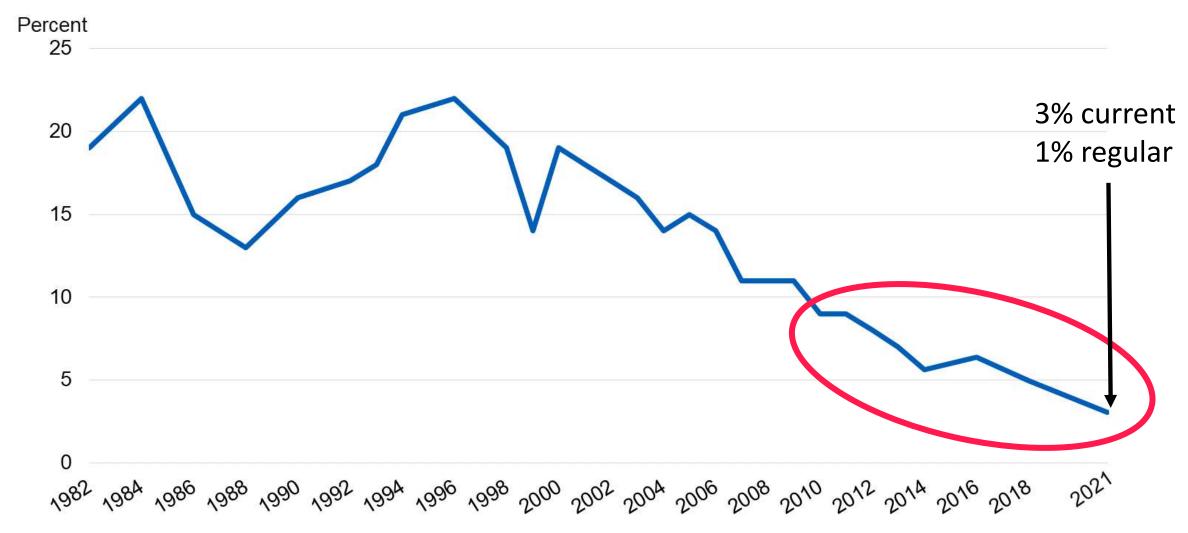


This product contains product contains which is a highly addictive substance.

- A disposable electronic-cigarette (non-rechargeable)
- An electronic cigarette kit that is rechargeable with replaceable pre-filled cartridges
- An electronic cigarette kit that is rechargeable and has a tank or reservoir
- Don't know



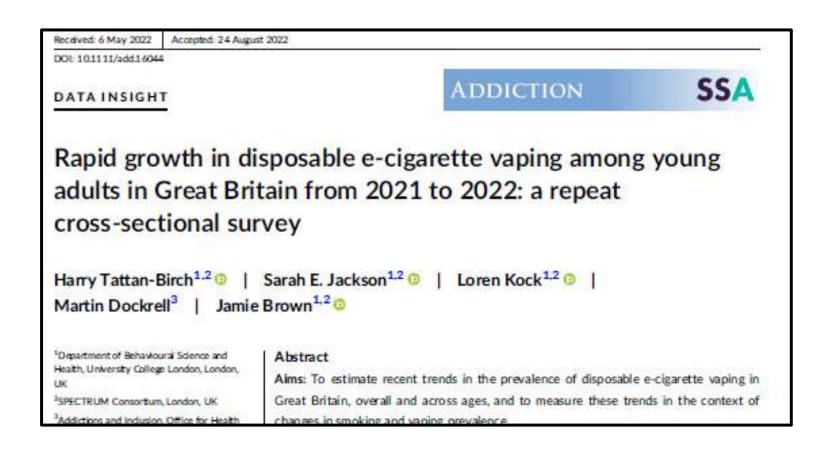
Smoking prevalence in 11-15 year olds in England



Source: https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2021



Smoking Toolkit Study: Individual-level analysis estimating trends in disposable e-cigarette use

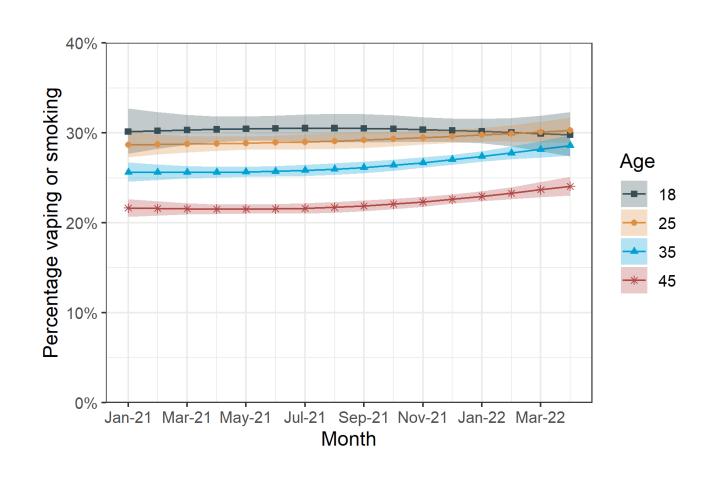


Jan 2021-Jan 2022:

- 14-fold increase in use of disposables (1.2% to 16.7%)
- Overall largest increase from
 0.9% to 56.7% for 18-year olds

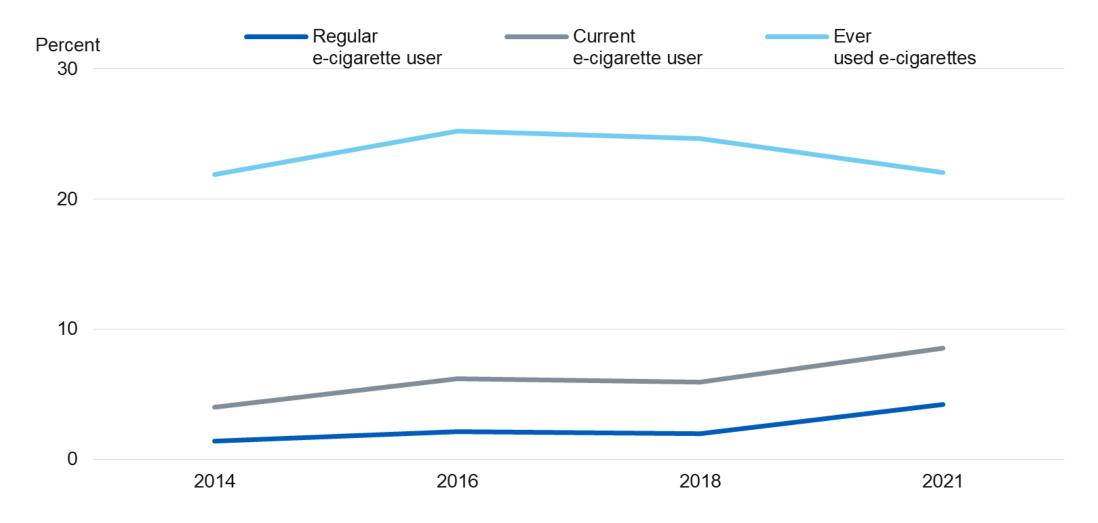


Smoking Toolkit Study: Individual-level analysis estimating trends in disposable e-cigarette use

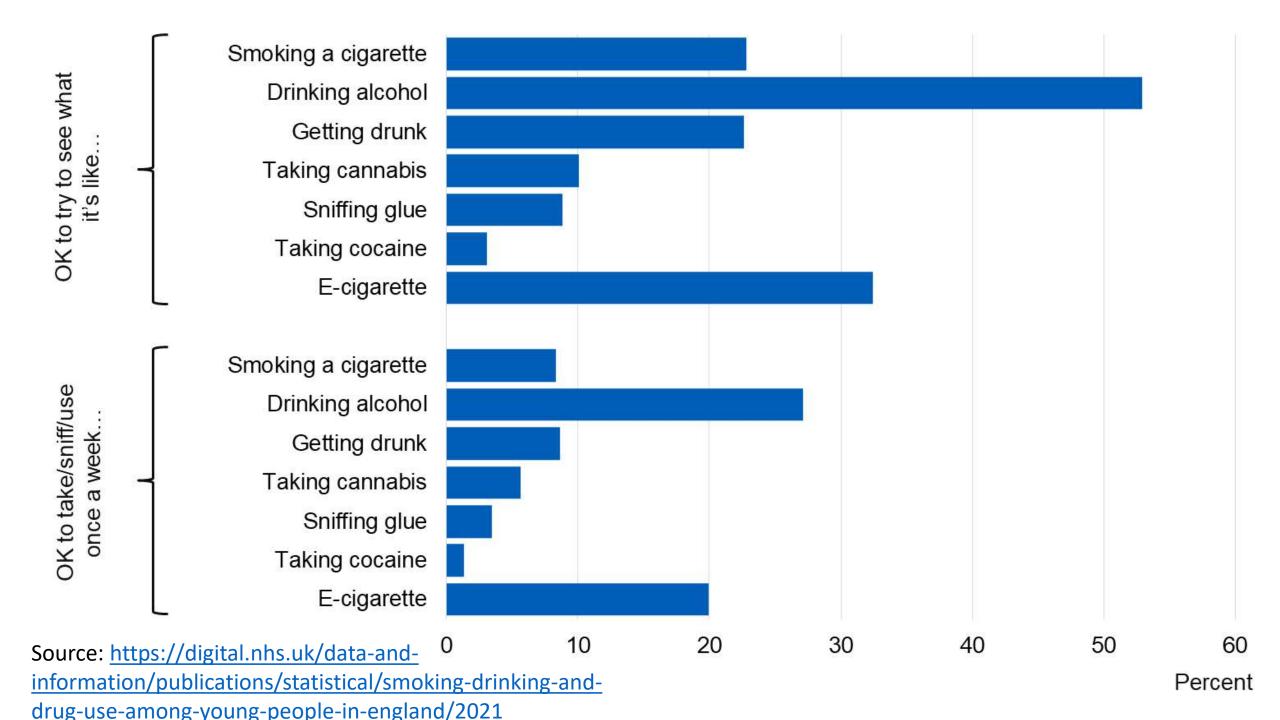


Inhaled nicotine use changed little over time

Vaping prevalence in 11-15 year olds in England



Source: https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2021



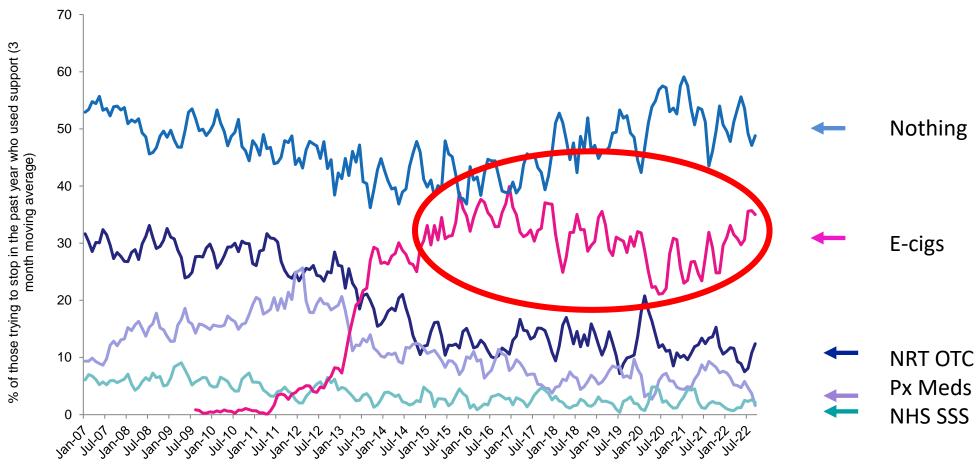
Drinking & drug use 11-15 year olds in England

- Weekly alcohol drinking stayed same:
 - 6% of all pupils said they usually drank alcohol at least once per week, the same as in 2018
- Fall in prevalence of lifetime & recent illicit drug use:
 - 18% of pupils reported they had ever taken drugs (24% in 2018)
 - 12% had taken drugs in the last year (17% in 2018)
 - 6% in the last month (9% in 2018)

Source: https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2021

E-CIGARETTES & QUITTING SMOKING

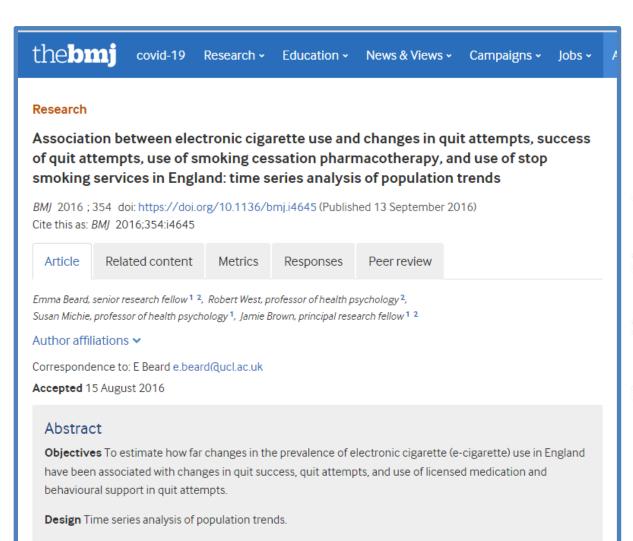
E-cigarettes remained the most popular support for quit attempts after no support



NRT OTC: Nicotine replacement therapy bought over the counter; Med Rx: Prescription medication; NHS: NHS Stop Smoking Service; E-cig: E-cigarette. Method is coded hierarchically with smokers using more than one method classified into most intensive by the following scheme: 1. Nothing, 2. NRT OTC, 3. E-cigarette, 4. Med Rx, 5. NHS. In updates until June 2015, NRT OTC was coded above e-cigarette - earlier figures have now been revised. See e-cigarette tracking slides for any use of different treatments.

Population-level impact: time-series





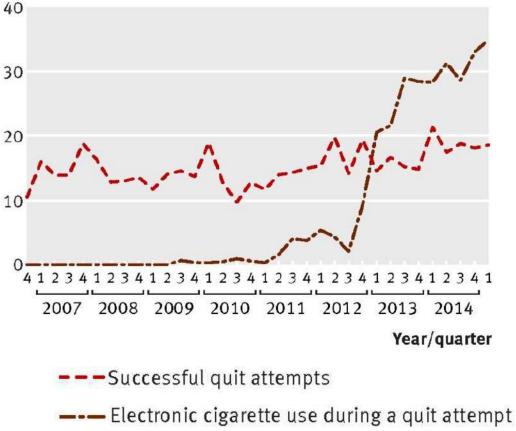
Participants Participants came from the Smoking Toolkit Study, which involves repeated, cross sectional

household surveys of individuals aged 16 years and older in England. Data were aggregated on about 1200 smokers quarterly between 2006 and 2015. Monitoring data were also used from the national behavioural

support programme; during the study, 8 029 012 quit dates were set with this programme.

Catting England

The success rate of quit attempts statistically significantly increased for every 1% increase in prevalence of e-cigarette use by smokers & e-cigarette during a recent quit attempt



STS Smoking Toolkit Study

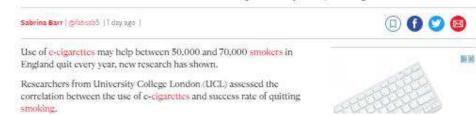
Population-level analysis: time-series





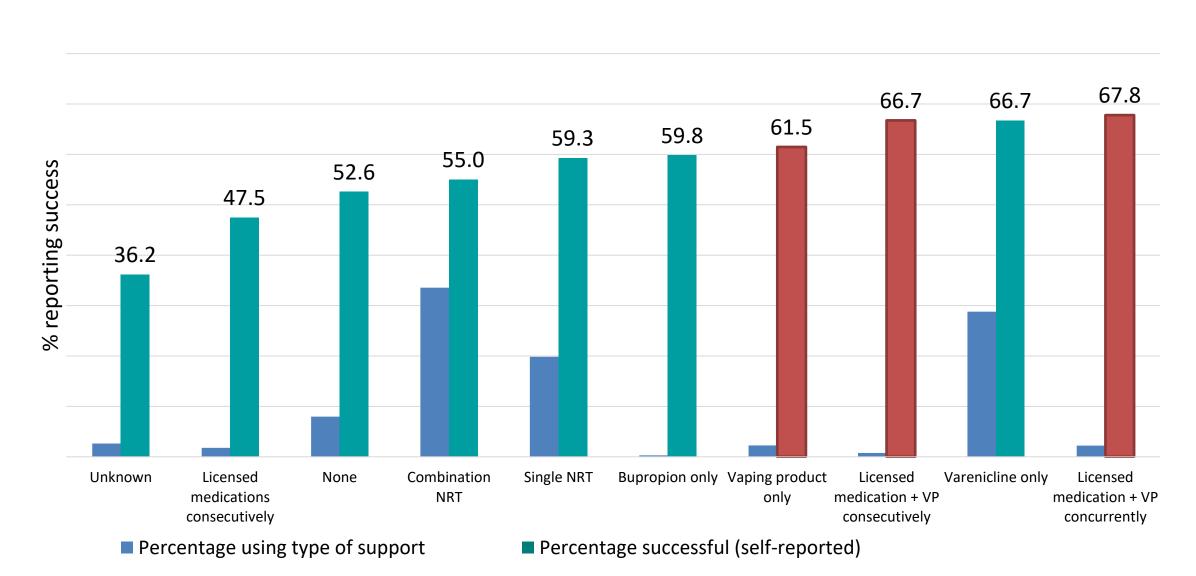


Millions of smokers are using them to try to stop smoking



E-cigarettes in smoking cessation services 2020/21 (NHS Digital, 2022)

N=178,815



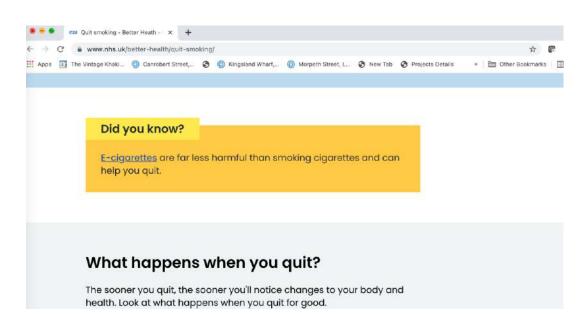
Cochrane review of RCTs



Hartmann-Boyce et al (2022)

https://doi.org/10.1002/14651858.CD010216.pub

Promoting vaping to smokers



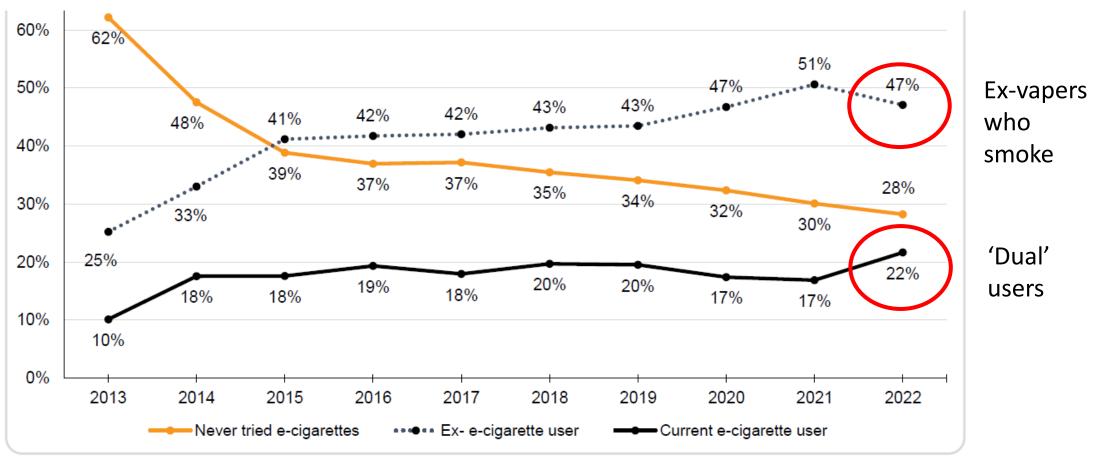






SO WHY AREN'T MORE SMOKERS USING E-CIGARETTES TO QUIT?

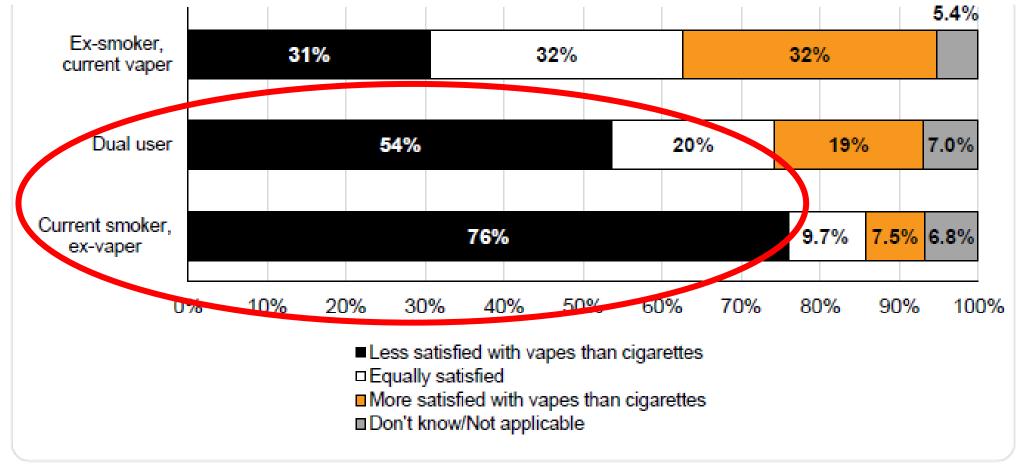
E-cigarette use among adult cigarette smokers, Great Britain (2013-2022) ASH Surveys (Zeller Qus 3&4)



Unweighted base: GB adult current smokers (2013=1895 2014=1776, 2015=2037, 2016=1704, 2017=1632, 2018=1633, 2019=1777, 2020=1694, 2021=1512, 2022=1751)

ASH, 2022. Use of e-cigarettes (vapes) among adults in Great Britain (Figure 2)

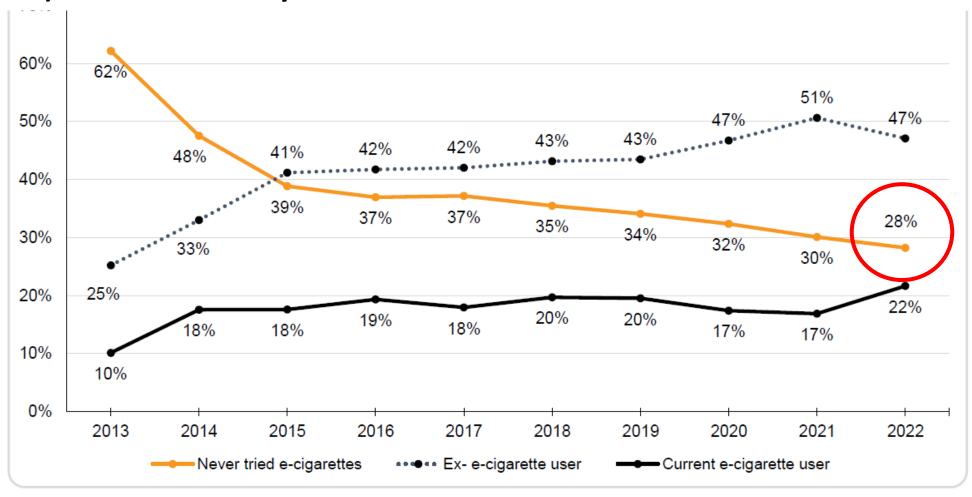
Satisfaction levels from e-cigarettes compared with smoking in adults, Great Britain 2022, ASH Adult Surveys (Zeller Qus 3&4)



Unweighted base: GB Adults who have ever used e-cigarettes, excluding those that have tried e-cigarettes only once or twice. Current vaper & exsmoker n= 590; Ex-vapers & current smokers n=442; Current vapers & current smokers n=390.

ASH, 2022. Use of e-cigarettes (vapes) among adults in Great Britain (Figure 6)

E-cigarette use among current adult cigarette smokers – Great Britain (2013-2022) ASH Adult Surveys

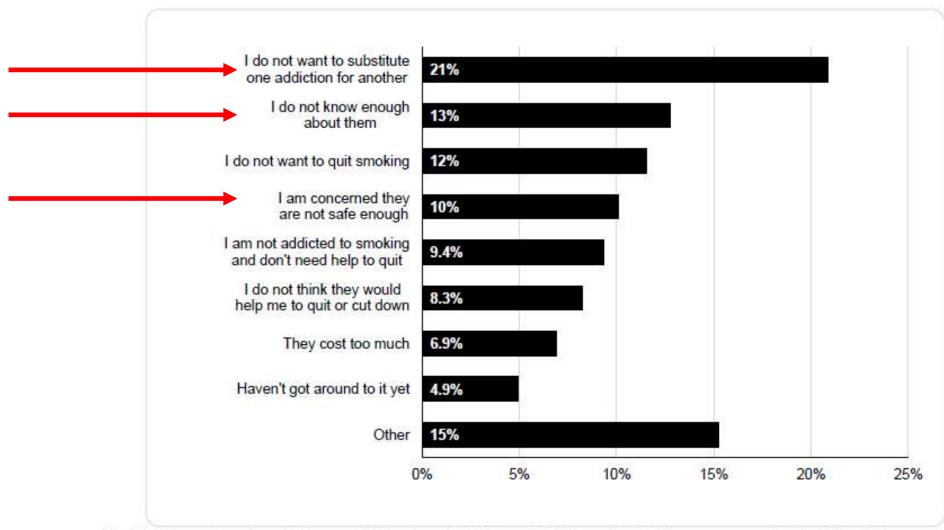


Smokers
who have
never
tried
vaping

Unweighted base: GB adult current smokers (2013=1895 2014=1776, 2015=2037, 2016=1704, 2017=1632, 2018=1633, 2019=1777, 2020=1694, 2021=1512, 2022=1751)

ASH, 2022. Use of e-cigarettes (vapes) among adults in Great Britain (FIGURE 2)

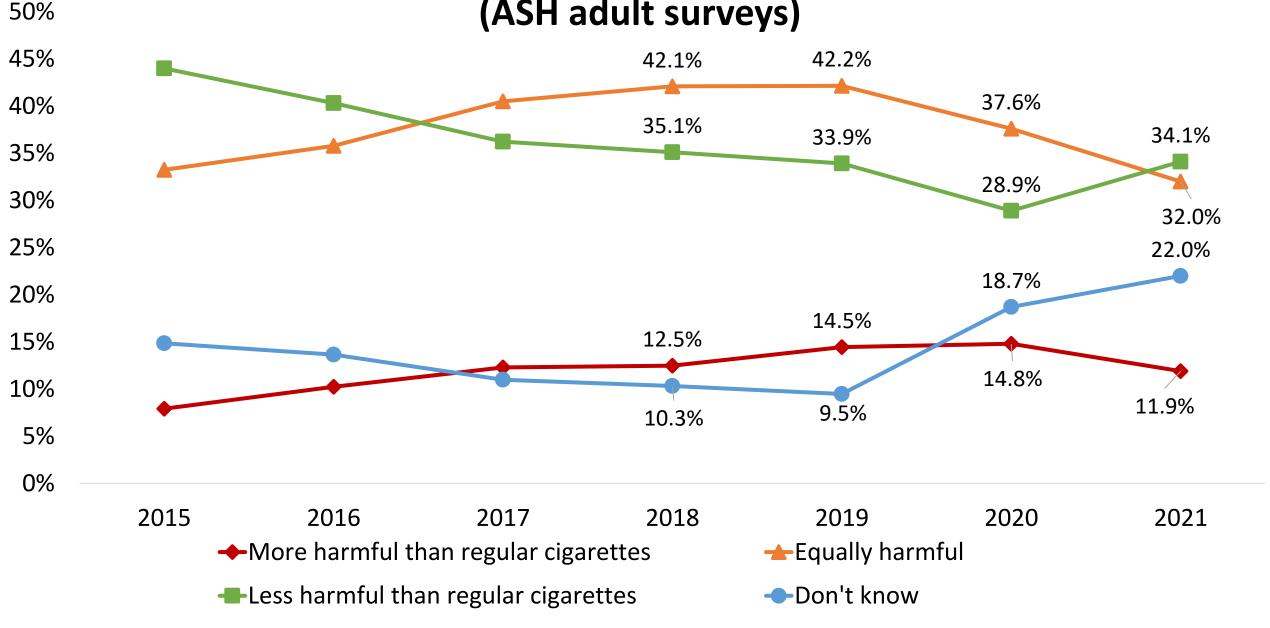
Figure 7 - Main reason for not trying an e-cigarette among adult smokers, Great Britain 2022



All adult GB current smokers who have not tried e-cigarettes 2022. n=432. Other options to choose are grouped under 'Other'; 'There are too many products to choose from' (3.8%), 'I do not like the way they look' (3.7%), 'I'm using other things to help me quit smoking' (2.7%), 'I would be embarrassed to use them in public' (1.6%), 'They are too difficult to get hold of ' (0.3%) and 'Other' (3.2%).

ASH, 2022. Use of e-cigarettes (vapes) among adults in Great Britain (Figure 7)

Vaping risk perceptions among adult smokers in England (ASH adult surveys)



Systematic literature review: Vaping risk perceptions & communications



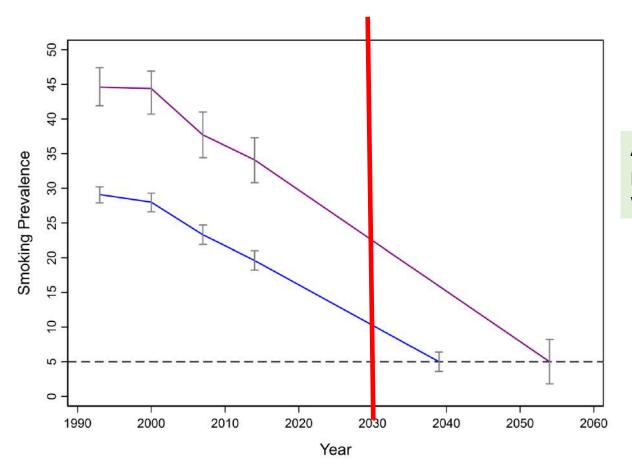
SMOKEFREE GOALS & THE VULNERABLE

Many countries have the ambition to achieve a tobacco/smoking prevalence of 5% or less soon



What about the vulnerable?

Smokefree 2030 in England



Without a mental health condition

With a mental health condition

Assuming no change - based on mean annual <u>percentage point</u> (i.e. not percentage rate) decrease in smoking prevalence estimated using weighted APMS data from Great Britain overall

No mental health condition¹: smoking prevalence in this group will **reach 5% in** <u>2039</u> (18 years from 2020; 95% CI: 17.6 to 20.4 years).

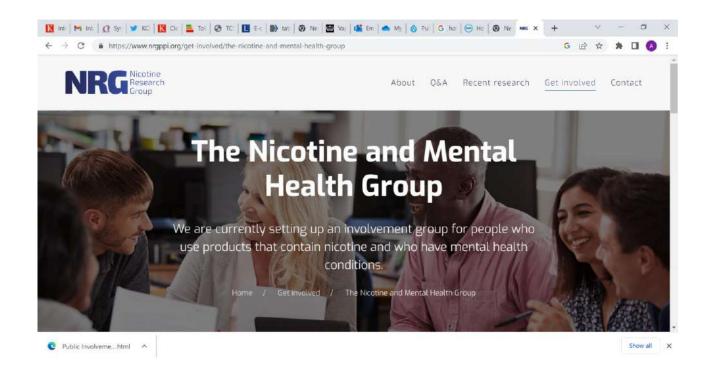
Mental health condition²:, smoking prevalence in this group will reach 5% in <u>2054</u> (34.3 years from 2020; 95% CI: 31.1 to 37.5 years).

¹Based on 0.60% percentage-point decrease in smoking prevalence per year for non-MHC group and ²0.74% percentage-point decrease in smoking prevalence per year for MHC group

Richardson & Robson (2021) Adapted from Richardson, McNeill & Brose (2019) Smoking and quitting behaviours by mental health conditions in Great Britain (1993-2014) Addictive Behaviours 90:14-10

Listening to smokers

...& other nicotine users..



New Tobacco Control Plan

Prior Tobacco Control Plan 2017-2022



Ambitions:

The ation ancy for all

cem for those with mental conditions

support quitting

What strategies will help the most vulnerable?



- 8 studies, inconclusive evidence
- Suggestion that increased exposure to mental health specific campaigns may be effective
- Further research needed to examine messages that address mental health

- Mass media campaigns
- Plain packaging
- Taxation
- •

More research on strategies that impact the most vulnerable in society

E-cigarettes for smoking cessation in people with a mental health condition (2020 report+)

	Caponnetto 2013	Pratt 2014	O 'Brien 2014	Valentine 2018	Hickling 2019	Caponnetto* 2021
Diagnosis	Schizophrenia	Schizophrenia or bipolar	Px'd mental health meds	Dual diagnosis	Psychosis	Schizophrenia
Sample size	14	19	86	43	50	40
Study design	Single group, pre post	Single group, pre post	Secondary analysis RCT	Single group, pre post	Single group, pre post	Single group, pre post
Nicotine strength (& device)	7.5mg/ml (cigalike)	? (tank)	16mg/ml & omg (cigalike)	12/ 24/ 27mgs/ml (tank)	45mg/ml (cigalike_	50mg/ml (pod)
Intent to quit	No	No	Yes	No	No	No
Quit rate (longest FU)	14% (1yr)	10% (4 wks)	6% (6mo)	7% (4 wks)	7% (6 wks)	40% (3 mo)

No adverse effects on mental health

How to meet Smokefree 2030 with focus on the vulnerable?





Independent report

Independent review of Smokefree 2030 policies: terms of reference

Published May 2022

Javed Khan, OBE, review

https://www.gov.uk/government/publications/independent-review-of-smokefree-2030-policies-terms-of-reference/independent-review-of-smokefree-2030-policies-terms-of-reference#fnref:1

Making Smoking Obsolete: Javid Khan, OBE

The Khan Review: Independent review into smokefree 2030 policies

Four critical recommendations are boxed in red. These are 'must dos' for the government to achieve a smokefree England by 2030, around which all other interventions are based.

Part 1: Invest Now

REC 1: Urgently invest £125m per year in interventions to reach smokefree 2030.

Option 1: Additional funding from within government

Option 2: A 'polluter pays' industry levy Option 3: A corporation tax surcharge

Part 3: Quit for Good

REC 8: Offer vaping as a substitute for smoking, alongside accurate information on the benefits of switching, including to healthcare professionals.

REC 9: Invest an additional £70 million per year into 'stop smoking services', ringfenced for this purpose.

REC 10: Invest £15 million per year in a welldesigned national mass media campaign, supported by targeted regional media.

Part 2: Stop the Start

REC 2: Raise age of sale of tobacco by one year, every year.



The image above shows the lifecycle of a smoker. From smoking in pregnancy and the impact on the unborn baby, to old age, where 2/3 lifetime smokers will likely die from smoking. Interventions are needed at all stages of a person's life.

REC 3: Substantially raise the cost of tobacco duties (more than 30%) across all tobacco products, immediately. Abolish all duty free entry of tobacco products at our borders.

REC 4: Introduce a tobacco licence for retailers to limit where tobacco is available.

REC 5: Enhance local illicit tobacco enforcement by dedicating an additional funding of £15 million per year to local trading standards.

REC 6: Reduce the appeal of smoking by radically rethinking how cigarette sticks and packets look, closing regulatory gaps and tackling portrayals of smoking in the media.

REC 7: Increase smokefree places to denormalise smoking and protect young people from second-hand smoke.

Part 4: System Change

REC 11: The NHS needs to prioritise prevention, with further action to stop people smoking, providing support and treatment across all its services, including primary care

REC 12: Invest £15m per year to support pregnant women to quit smoking in all parts of the country.

REC 13: Tackle the issue of smoking and mental health.

REC 14: Invest £8m to ensure regional and local prioritisation of stop smoking interventions through ICS leadership.

REC 15: Invest £2 million per year in new research and data, including investing £2 million in an innovation fund.

Making Smoking Obsolete: Recommendation 8 Vaping

Recommendation 8. Offer vaping as a substitute for smoking, alongside accurate information on the benefits of switching, including to healthcare professionals

The government should accelerate the path to prescribed vapes & provide free Swap to Stop packs in deprived communities, while preventing young people's uptake of vapes by banning child friendly cartoon packaging & descriptions

What should our main aims be? (Zeller Qus 1&2)

 To reduce the death & disease caused by tobacco use



 To reduce addiction to nicotine



To eliminate the tobacco industry



Tobacco industry & independent e-cigarette manufacturers?

Nicotine and Tobacco Research, 2022, 24, 1003–1011 https://doi.org/10.1093/ntr/ntab253 Advance access publication 9 December 2021

Original Investigation





The Use of Tobacco Industry Vaping Products in the UK and Product Characteristics: A Cross-Sectional Survey

Elliot J Comish MSc1, Leonie S Brose PhD1.2., Ann McNeill PhD1.2

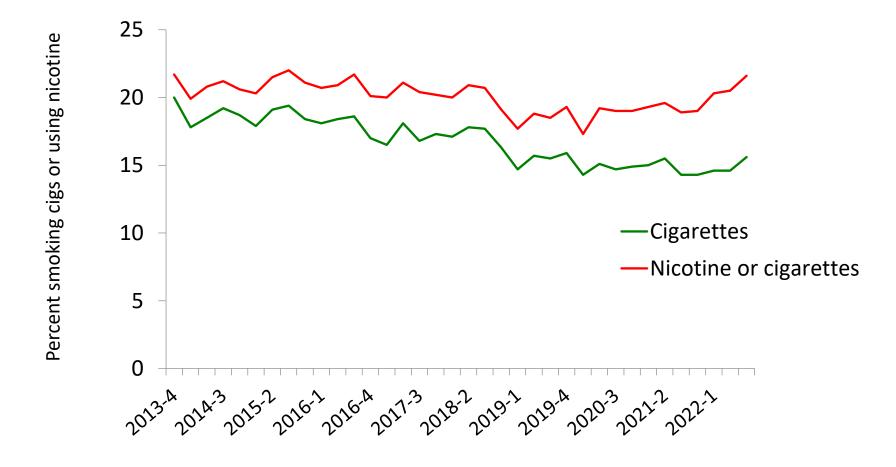
Addictions Department, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

Analysis of King's internet cohort survey 2019 wave – daily or non-daily vapers who had reported their brand

• 53.4% used tobacco industry products

Prevalence of nicotine/cigarette use





N=179094 adults

Separate the nicotine from the tobacco smoke





Professor Michael Russell, 1932 - 2009



"Smokers smoke for the nicotine, but die from the tar" (1979)

"It is not so much the efficacy of new nicotine delivery systems as temporary aids to cessation but their potential as long-term alternatives to tobacco that makes the virtual elimination of tobacco a realistic future target" (1991)

Summary

- People who smoke are vulnerable, as are youth, but they overlap
- Smoking declined in adults & youth since vaping emerged on the market
- Smoking may be stabilising research underway to understand this in light of COVID19/ absence of any recent new tobacco control strategies
- Vaping prevalence seen recent increases in both adult & youth vaping & disposables likely playing a role, but may be helping smoking cessation
- Need to continue monitoring smoking & vaping
- Smokefree 2030 targets need to include the vulnerable & we should listen to what they think!
- Research exponentially increasing, but some methodological limitations















@KingsNRG

NRG colleagues here in Paris



https://ash.org.uk/about/who-we-work-with/mental-health-smoking-partnership

Thank you for listening!

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