



Australian Government

Department of Health

Therapeutic Goods Administration

# Nicotine vaping products, the NZ smoking cessation experience

## Practical tips for Australian prescribers

### Chair

Adj Professor John Skerritt, Therapeutic Goods Administration, Department of Health

### Panel

Dr Natalie Walker, Associate Professor in Population Health at the National Institute for Health Innovation, University of Auckland, NZ

Dr George Laking, medical oncologist at Auckland and Northland District Health Boards, NZ

Dr Hayden McRobbie, Professor at National Drug and Alcohol Research Centre, UNSW, Consultant in Lifestyle Medicine, Rotorua, NZ

**TGA** Health Safety  
Regulation

# Welcome

- This webinar is being recorded
- Slides will be made available on the TGA website
- The ask a question to the panel, please use the Q&A function
  - Questions are only visible to the panel
- If you need to contact the moderator – please use the **‘Chat’** function
- Relevant links will be sent to you via the chat function box
- Live polls – we want your feedback.



## Difficulties hearing from computer?

Check your settings located under “**Audio & Video**” tab located top of your screen:

OR

**Dial:** +61-2-9338-2221 - **Access code:** 2651 725 6094 - **Event Password :**0610



Australian Government

Department of Health

Therapeutic Goods Administration

# Welcome and introduction



**Adjunct Prof John Skerritt**

Deputy Secretary

Australian Department of Health's, Therapeutic Goods Administration (TGA)

**TGA** Health Safety  
Regulation

## Meet the panel



**Dr Natalie Walker** is Associate Professor in Population Health at the National Institute for Health Innovation, University of Auckland, New Zealand, and Director of the Centre for Addiction Research, Faculty of Medical and Health Sciences. Her primary area of interest is the conduct of phase III pragmatic community-based clinical trials, particularly in the field of smoking cessation. She has published on e-cigarettes, cytisine, varenicline, nicotine reduction, exercise, hypnotherapy, and incentives for smoking cessation.



**Dr George Laking** is a medical oncologist at Auckland and Northland District Health Boards. He has spent many years in treatment of lung cancer, and this led to his interest in tobacco control. George is the Chair of End Smoking New Zealand, and is involved in Māori Health as a past Chair of Te ORA (the Māori Medical Practitioners' Association), as a member of the Māori Health Committee of the RACP, and a board member of Hei Ahuru Mowai Maori Cancer Leadership Aotearoa.



**Professor Hayden McRobbie**, MB ChB (Otago), PhD (London), FASLM

Hayden has worked in the field of behavioural medicine for more than 20 years and is a senior clinician with a specialist interest in lifestyle medicine. He holds a medical degree from the University of Otago, a doctorate from the University of London, and is Professor in Public Health Interventions at the National Drug and Alcohol Research Centre, UNSW, and a Fellow of the Australasian Society for Lifestyle Medicine. Hayden has played a key role in Tobacco Control in New Zealand, and his current work includes prevention and management of long-term conditions, with a particular focus on improving health outcomes for Māori in New Zealand.



Australian Government

Department of Health

Therapeutic Goods Administration

# Clinical trials using nicotine vaping products and the typical quitting journey of a smoker

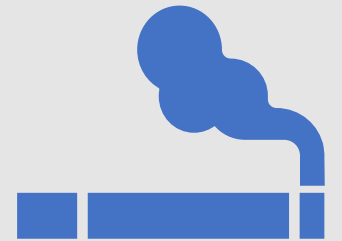


## Associate Professor Natalie Walker

Associate Professor in Population Health,  
NIHI Programme Leader – Tobacco and Addictions,  
Director, Centre for Addiction Research, Faculty of Medical and Health Sciences

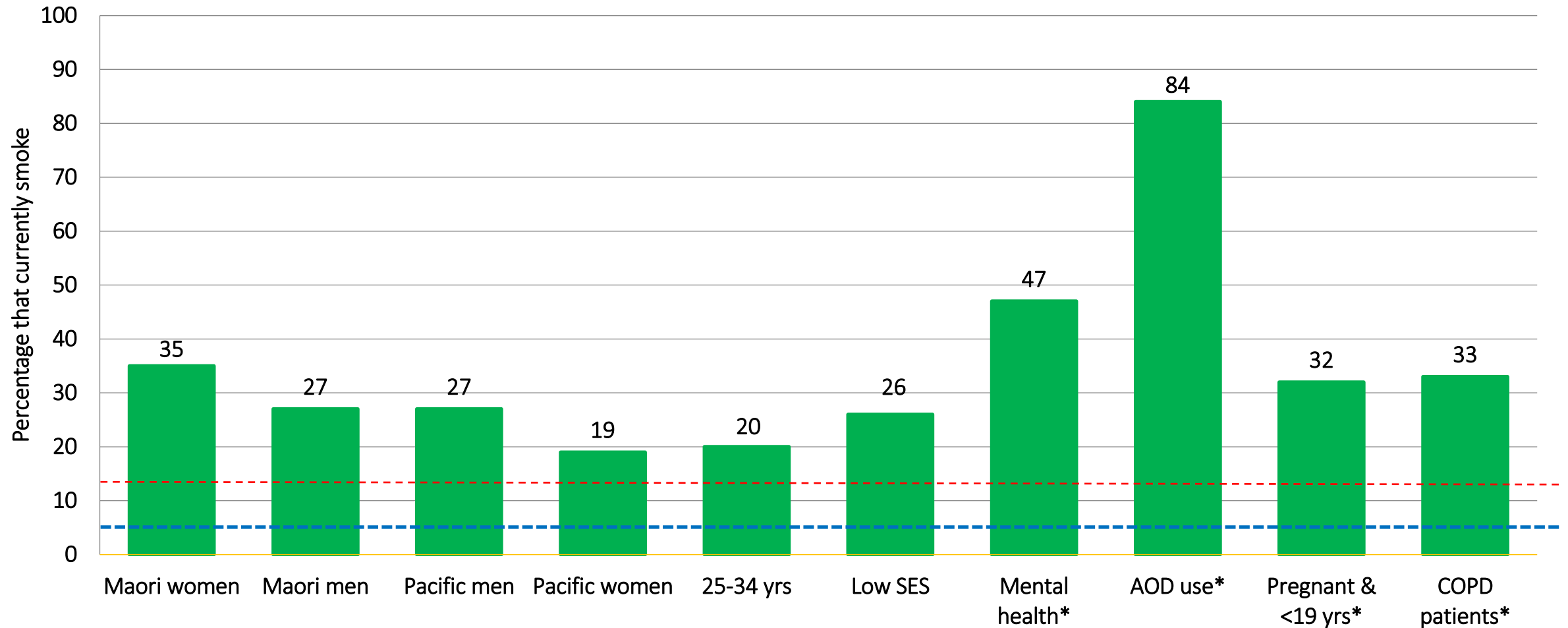
# Nicotine vaping products: the New Zealand smoking cessation experience

*Clinical trials using nicotine vaping products and the typical quitting journey of a smoker*



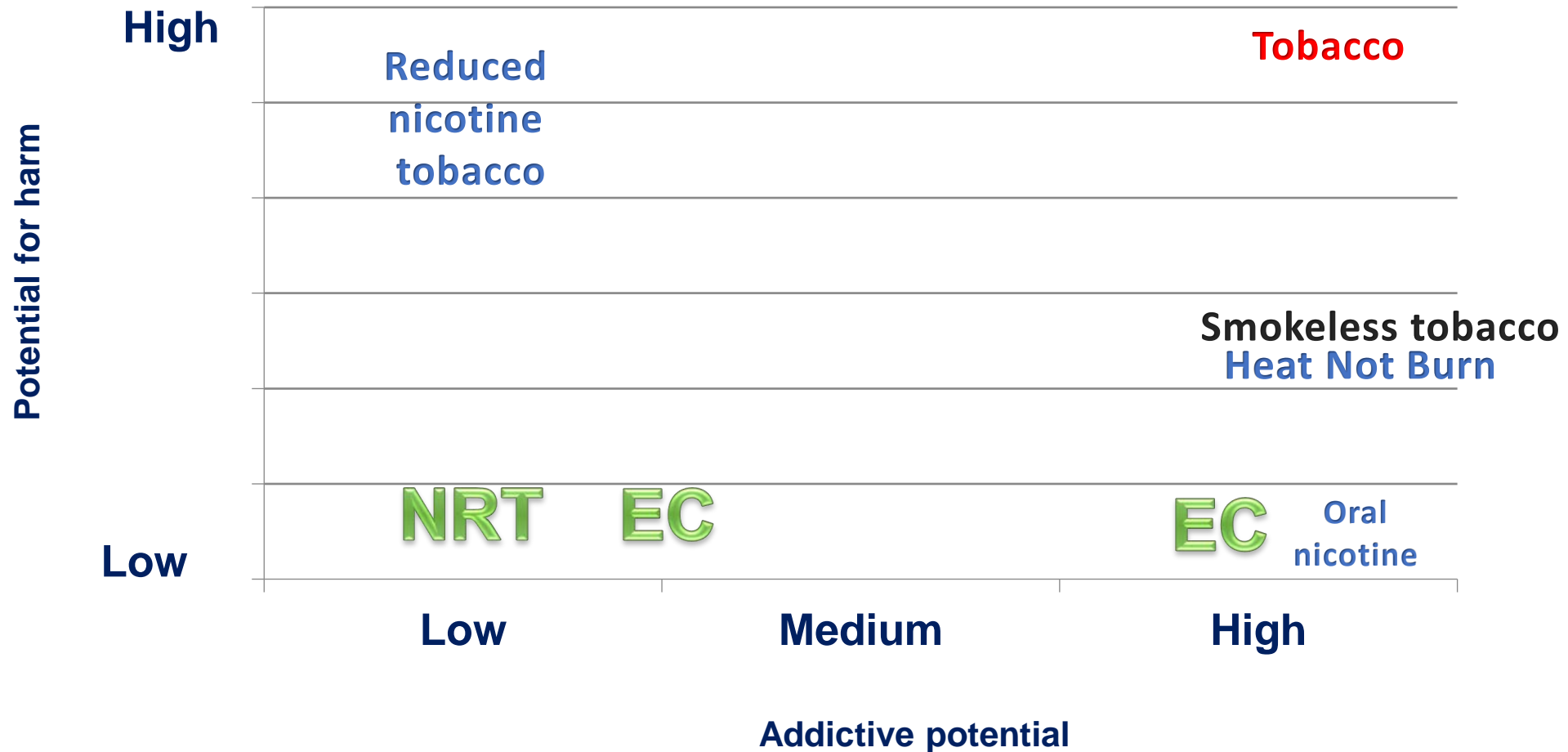
Associate Professor Natalie Walker, University of Auckland

# Prevalence of current smoking in New Zealand

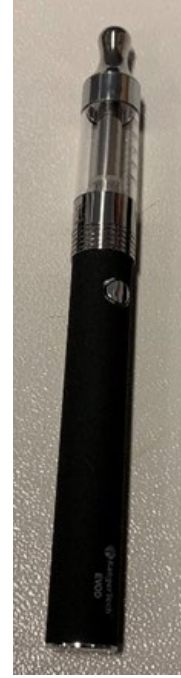


~535,000 NZ adults (13%) were current smokers (smoked more than 100 cigarettes in lifetime and currently smoke at least once a month)

# The Future: Reduced Harm Products







# E-Cigarettes

WIRED

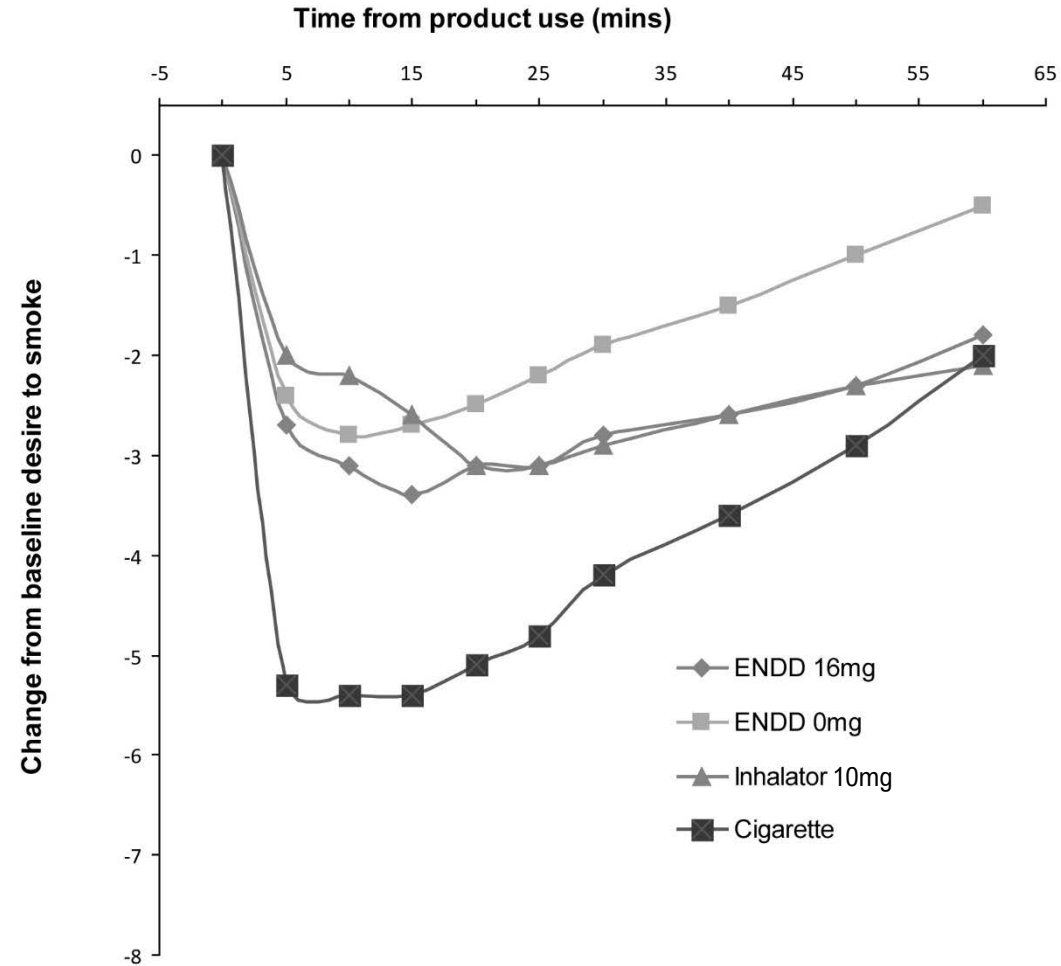
ASCEND

ASCEND2

CESS@TION

Q1: What's in them, do they help with craving, and do people like them?

Change in desire to smoke from baseline over the first hour after each product use.



At this time in NZ nicotine containing e-cigarettes were considered a medicine: so were not permitted to be sold or advertised, or to make a cessation claim.

Q2: Do they help people quit smoking?

Q3: Are there any side-effects?

Q4: Does nicotine need to be in the device?

- Under 'real world' conditions
- Heterogeneous population

- Under 'ideal' conditions
- Homogeneous population

Pragmatic trial  
(Effectiveness)

Explanatory trial  
(Efficacy)

# General population pragmatic trials

	ASCEND	ASCEND 2
<b>Recruitment</b>	2011-13	2016-18
<b>Research questions</b>	<p>Are nicotine e-cigarettes more effective than nicotine patches?</p> <p>Are nicotine e-cigarettes more effective than nicotine-free e-cigarettes?</p>	<p>Is combining a nicotine patch with a nicotine e-cigarettes more effective than combining a nicotine patch with a nicotine-free e-cigarettes?</p> <p>Is combining a nicotine patch with a nicotine e-cigarettes more effective than a nicotine patch?</p>
<b>Sample size</b>	657	1124
<b>Māori</b>	213 (32%)	451 (40%)
	<i>Bullen et al. Lancet 2013</i>	<i>Walker et al. Lancet Respir Med 2019</i>

**Total N=1,781**

# First e-cigarette trials

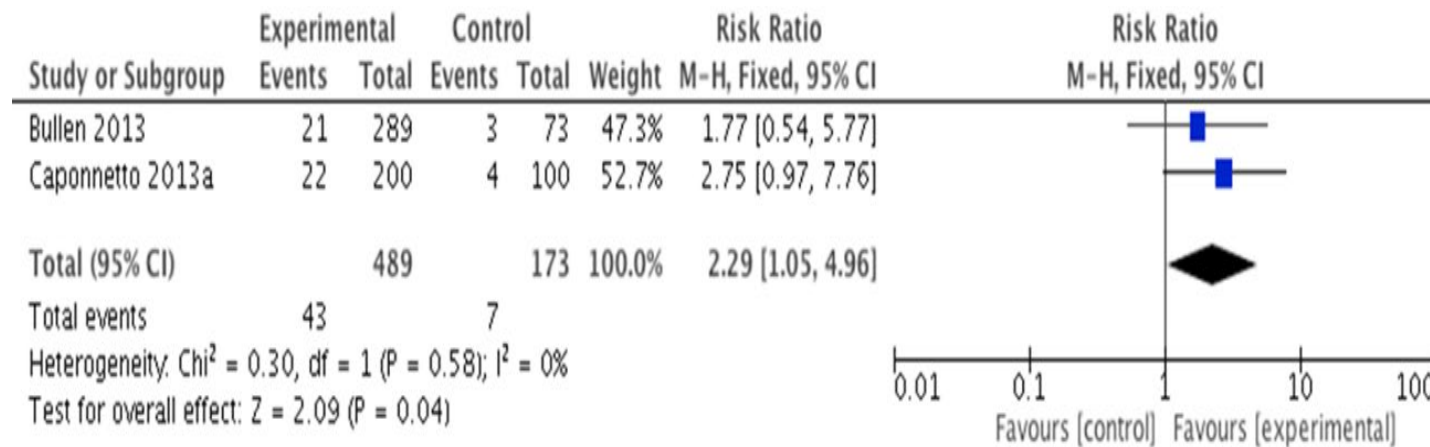
	ECLAT - Caponnetto (2013)	ASCEND - Bullen (2013)
Population	Unmotivated to quit	Motivated to quit
Inclusion criteria	≥10cpd for at least 5 years, 18-70 years	≥10cpd for last year, ≥18 years
Brand	Categoria	Elusion
Location	Clinic-based	National
Sample size	300 (1:1)	657 (4:4:1)
Intervention	7.2 mg E-cig 7.2-5.4 mg E-cig 0 mg E-cig  No behavioural support	16mg E-cig 21mg NRT patch 0mg E-cig  Minimal behavioural support
Intervention period	12 weeks	13 weeks (includes one week pre-quit)
Power	75%	80%
Primary outcome	Verified continuous abstinence at 6 months	Verified continuous abstinence at 6 month

# Findings

	ECLAT - Caponnetto (2013)	ASCEND - Bullen (2013)
Continuous abstinence at 6 months	7.2 mg E-cig: 12% 7.2-5.4 mg E-cig: 10% 0 mg E-cig: 5%  (NS)	16mg E-cig: 7% 21mg NRT patch: 6% 0mg E-cig: 4%  (NS)
Cigarettes per day	Significantly reduced	Significantly reduced
Time to relapse (median)*	-	16mg E-cig: 35 days* 21mg NRT patch: 14 days 0mg E-cig: 12 days*
Adverse events	No difference in frequency between groups	No difference in frequency between groups

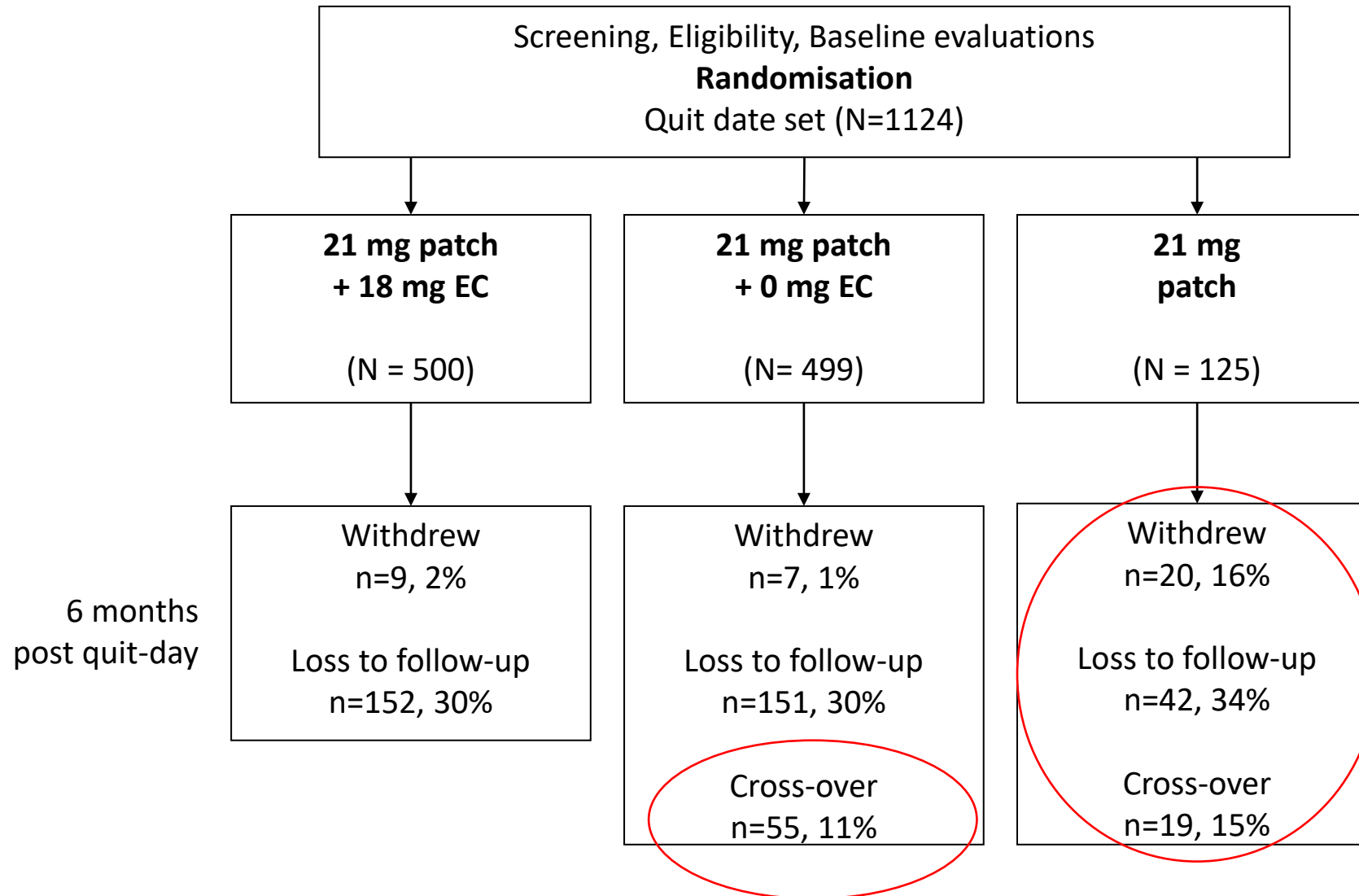
Quitlines and telephone counselling: 10%: SMS text interventions: 9%

# Cochrane review



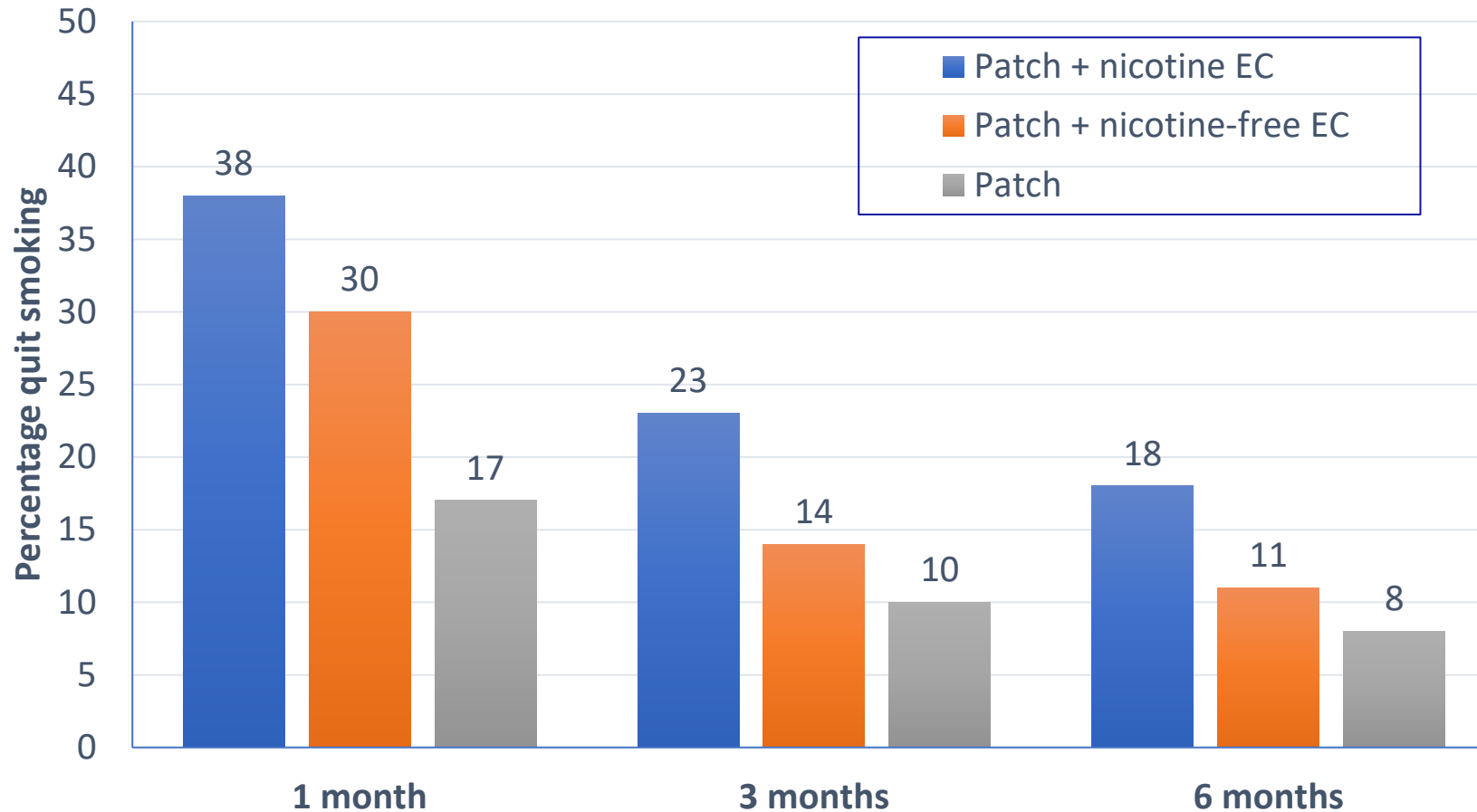
Six month continuous abstinence from smoking when  
using e-cigarettes with nicotine compared to e-cigarettes  
with no nicotine

# ASCEND 2 trial





# Self-Reported Continuous Abstinence\*



\*Since quit day, allowing  $\leq 5$  cigarettes in total

# Summary

**Self-reported smoking abstinence:** in favour of patches plus nicotine e-cigarettes for both comparisons at all time points.

6 month self reported quit rates	N	Nicotine EC	0mg EC	NRT
ASCEND-II	1124	18%	11%	8%
Hajek, 2019 (UK)	886	35%		25%

**Safety findings are consistent** with previous e-cigarette trials and cohort study findings.(Hajek 2019, Hartmann-Boyce 2021)

# Dual use: Use of smoked tobacco together with other nicotine products

Dual use with NRT was more common, than dual use with e-cigarettes: consistent with data from England.

Very few people were sustained dual users (4% at six months)

Dual users were more cigarette dependent, so behavior likely due to insufficient nicotine replacement

Dual use is a transient state: people shift in and out of the state over time, and within different use states

**Patch plus  
nicotine  
e-cigarette  
group**

One month  
follow-up

Smoking + EC  
+ Patch

Smoking +  
Patch

Smoking

Smoking +  
EC

EC only

Patch only

EC + patch

Three months  
follow-up

Smoking + EC  
+ Patch

Smoking +  
Patch

Smoking

Smoking +  
EC

EC only

Patch only

EC + patch

Six months  
follow-up

Smoking + EC  
+ Patch

Smoking +  
Patch

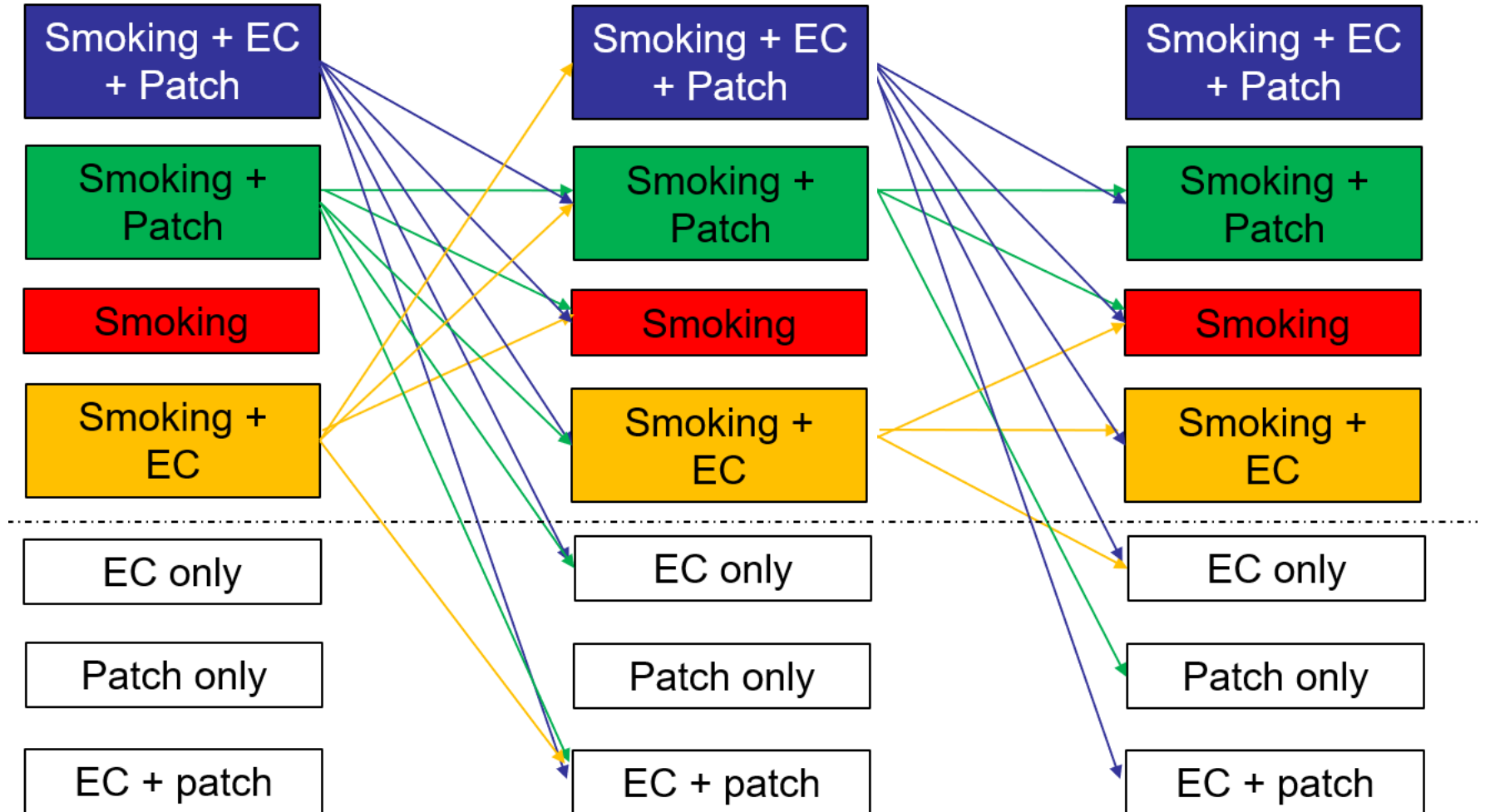
Smoking

Smoking +  
EC

EC only

Patch only

EC + patch



## 61 studies in 16,759 adults who smoked.

“More people probably stop smoking for at least six months using nicotine e-cigarettes than using nicotine replacement therapy (4 studies, 1924 people), or nicotine-free e-cigarettes (5 studies, 1447 people).”

“Nicotine e-cigarettes may help more people to stop smoking than no support or behavioural support only (6 studies, 2886 people).”

### Side effects with nicotine e-cigarettes

- Throat/mouth irritation
- Dry cough
- Headache\*
- Nausea

The screenshot shows the Cochrane website interface. At the top is the Cochrane logo with the tagline "Trusted evidence. Informed decisions. Better health." and a search bar. Below the logo is a navigation menu with links: "Our evidence", "About us", "Join Cochrane", "News and jobs", and "Cochrane Library". A dark blue banner below the menu reads "Coronavirus (COVID-19) resources". The main heading of the page is "Can electronic cigarettes help people stop smoking, and do they have any unwanted effects when used for this purpose?". To the left of the main text, there is a sidebar with the following information: "Published: 14 September 2021", "Authors: Hartmann-Boyce J, McRobbie H, Butler AR, Lindson N, Bullen C, Begh R, Theodoulou A, Notley C, Rigotti NA, Turner T, Fanshawe TR, Hajek P", and "Primary Review Group:". To the right of the main text, there is an "Am score" of 280 and a link "Who is talking about this article?". At the bottom right, there are two buttons: "Video: Systematic reviews explained" and "How our health evidence can help you".

**Cochrane** Trusted evidence. Informed decisions. Better health.

Search...

Our evidence About us Join Cochrane News and jobs Cochrane Library

Coronavirus (COVID-19) resources

### Can electronic cigarettes help people stop smoking, and do they have any unwanted effects when used for this purpose?

**Published:**  
14 September 2021

**Authors:**  
Hartmann-Boyce J, McRobbie H, Butler AR, Lindson N, Bullen C, Begh R, Theodoulou A, Notley C, Rigotti NA, Turner T, Fanshawe TR, Hajek P

**Primary Review Group:**

**What are electronic cigarettes?**

Electronic cigarettes (e-cigarettes) are handheld devices that work by heating a liquid that usually contains nicotine and flavourings. E-cigarettes allow you to inhale nicotine in a vapour rather than smoke. Because they do not burn tobacco, e-cigarettes do not expose users to the same levels of chemicals that can cause diseases in people who smoke conventional cigarettes.

Using an e-cigarette is commonly known as 'vaping'. Many people use e-cigarettes to help them to stop smoking tobacco. In this review we focus primarily on nicotine e-cigarettes.

Am score 280

Who is talking about this article?

Video: Systematic reviews explained

How our health evidence can help you



Australian Government

Department of Health

Therapeutic Goods Administration

# Vaping in context



**George Laking MD PhD FRACP,**

Medical Oncologist

Chair, End Smoking New Zealand

14 October 2021

**TGA** Health Safety  
Regulation



# Vaping in Context

George Laking MD PhD FRACP, Medical Oncologist  
Chair, End Smoking New Zealand

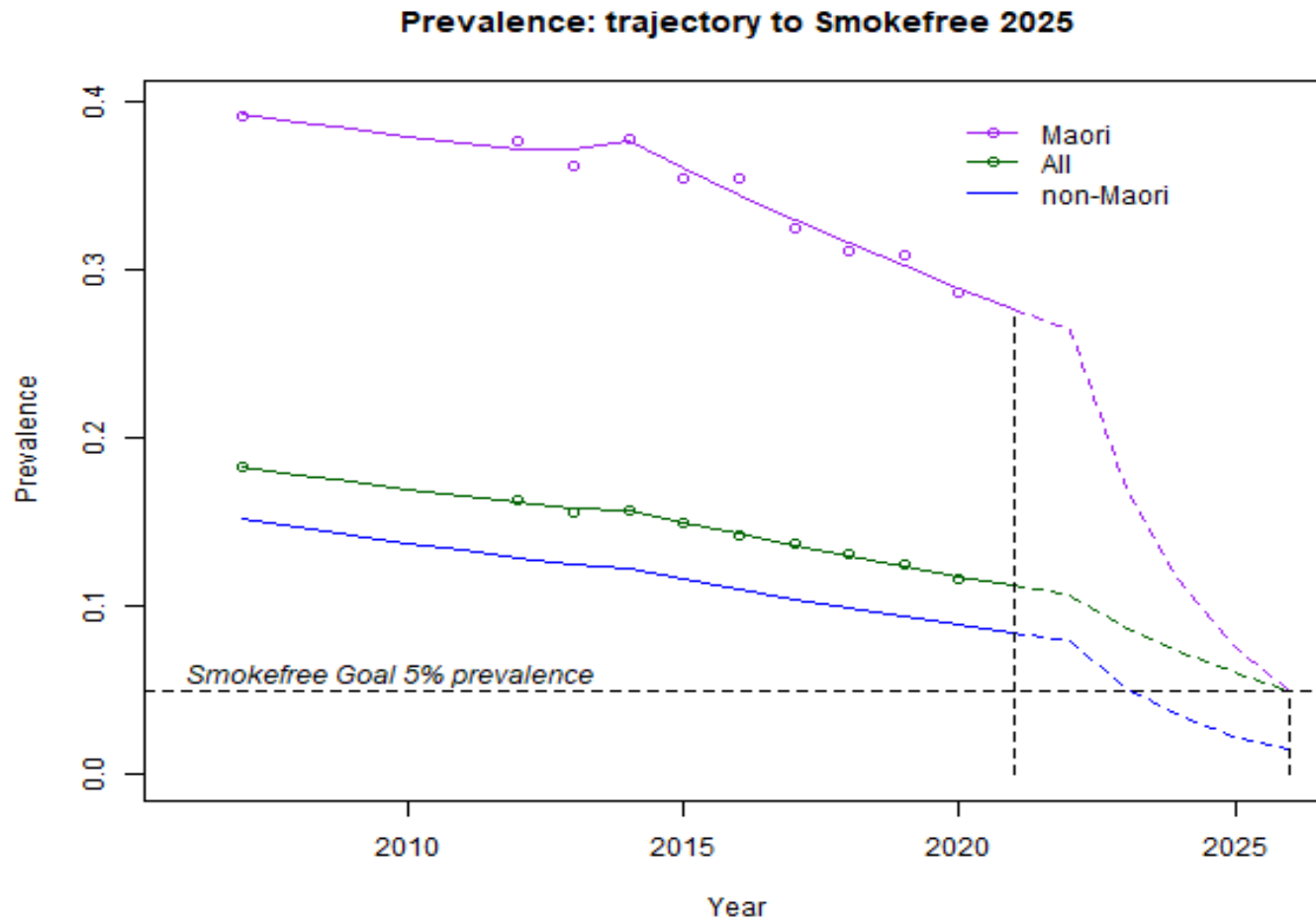
*These are personal opinions*

*I previously accepted an honorarium from GSK to present this material*

October 2021

# Smokefree Aotearoa 2025

## Goal is 5% Prevalence



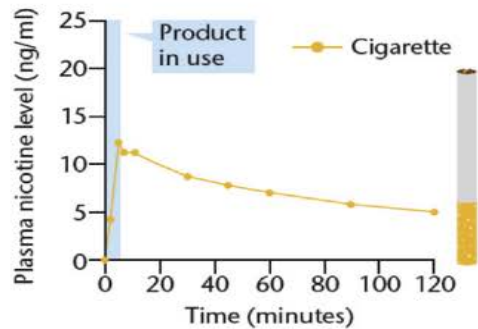
Across 2011 to 2021, prevalence of daily smoking fell from 0.17 to 0.12 of all adults, a 29 percent change. The goal requires a further 58 percent fall in half the time (blue curve). The challenge is greater for Māori, who had a 23 percent fall in prevalence, but who now need a further 83 percent fall (purple curve).



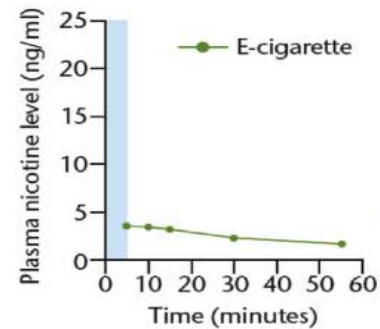
# Vaping as a Health Technology

Acceptability: rapid onset nicotine pharmacokinetics

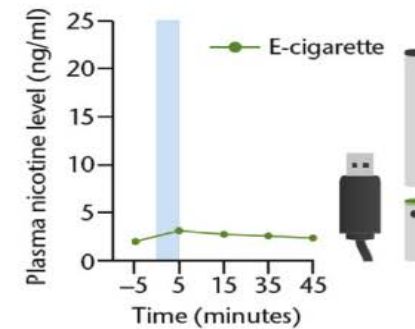
Cigarette



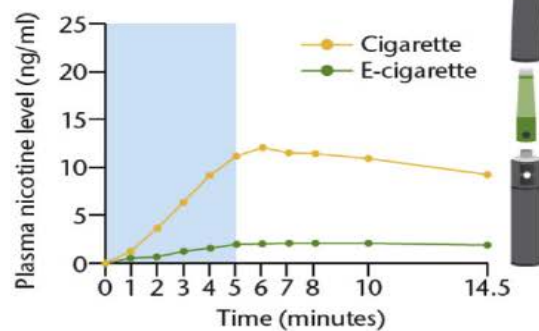
Disposable e-cigarette



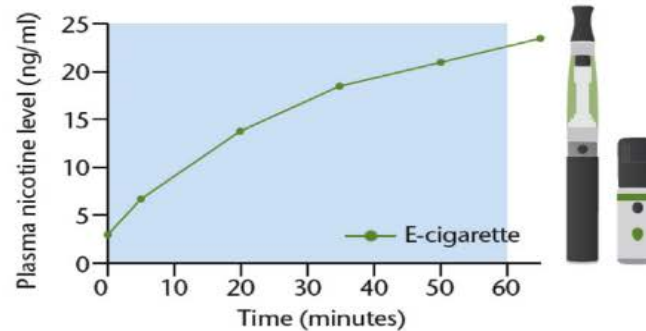
Rechargeable e-cigarette



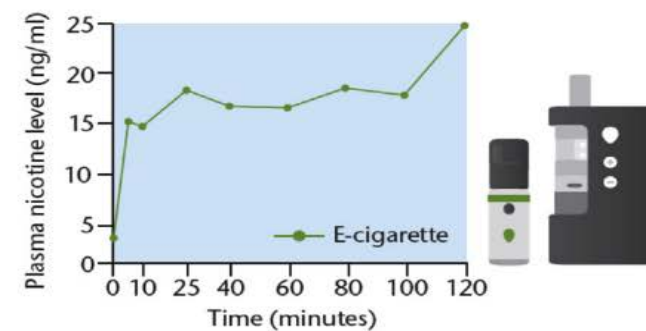
Closed tank system



Open tank system



Box modular



Fearon, I. M. et al. Nicotine pharmacokinetics of electronic cigarettes: A review of the literature. Regulatory Toxicology and Pharmacology 100, 25–34 (2018).

# Vaping as a Health Technology

- Effectiveness
  - Moderate strength of evidence, small absolute effect size
  - Potential to improve in a favourable regulatory environment
  - Potential product improvement
- Efficiency
  - Cost-effective for smoking cessation, since people self-fund
- Equity
  - Smoking is highly inequitable, vaping may mitigate this
- Timeliness
  - Available on demand here and now

# How safe are electronic cigarettes?

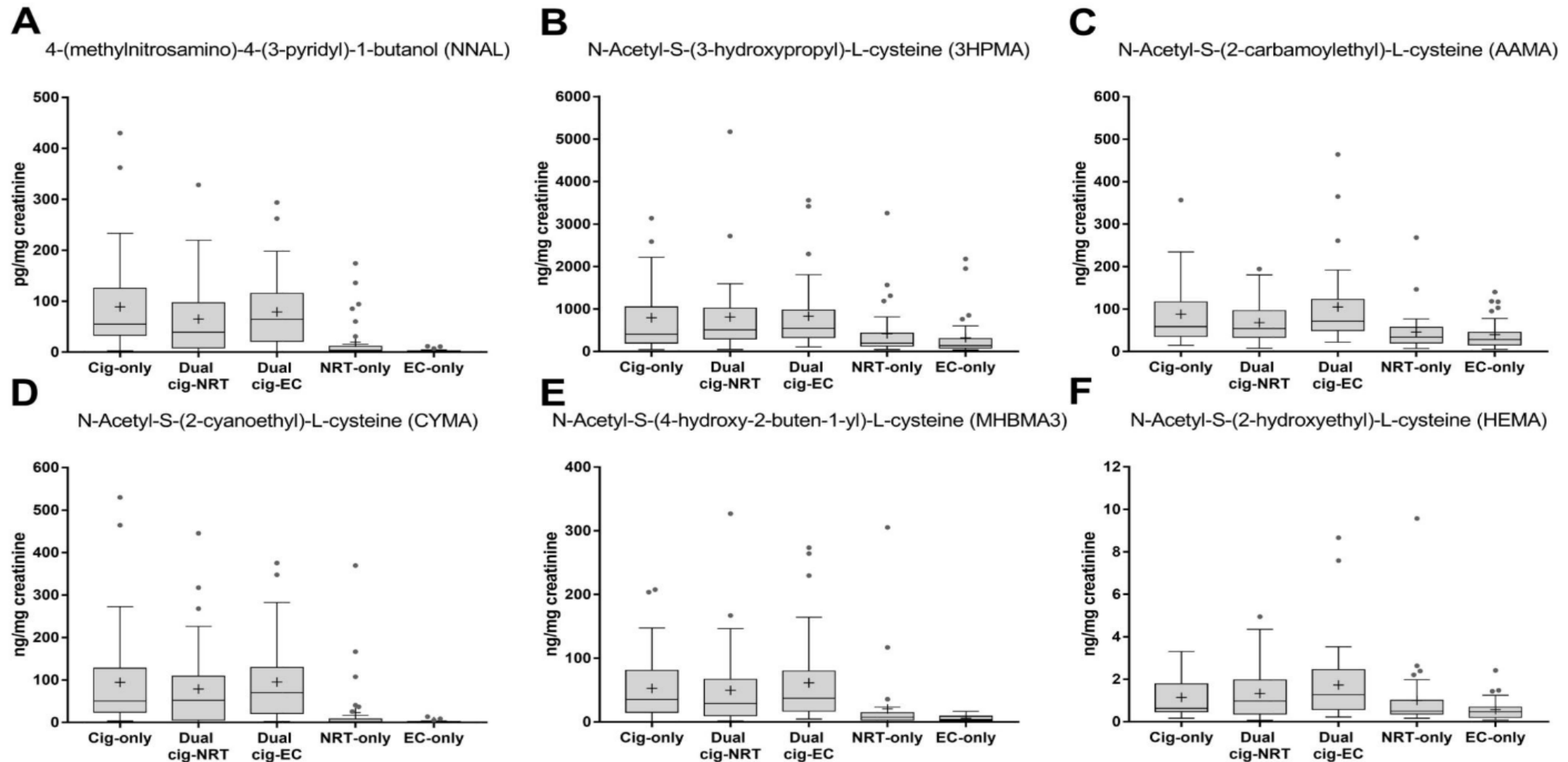
- Polarised opinion
- The e-cigarette is not a medicine, it is a presentation
  - Depending on what is internalised, vaping could be harmless or lethal
  - In itself the electronic cigarette is neutral
- There are no long term safety studies
- Toxicology suggests it would be a great surprise if e-cigarettes turned out to be as hazardous as combustibles in the long term

# EVALI

- Adulteration of cannabis-containing liquids with vitamin E acetate
- Vitamin E acetate in 94% of bronchoalveolar lavage samples of EVALI patients, and 0% of healthy controls
- Vitamin E was used to thicken cannabis oil
- No such thickener is used for nicotine-containing e-liquids
  - Blount, BC., et al. "Vitamin E acetate in bronchoalveolar-lavage fluid associated with EVALI." New England Journal of Medicine 382.8 (2020): 697-705.

# Can we make the uncertainty tolerable?

- Context is the known danger of smoking
- Tobacco smoke
  - >7000 chemicals, >69 carcinogens
  - Generated by pyrolysis and oxidation of a complex substrate at ~900°C
- E-cigarette coil
  - 200—250°C Celsius: a different realm of chemistry
  - E-cigarette aerosols have been shown to contain carcinogens and toxicants acetaldehyde, acrolein, diacetyl, and formaldehyde
  - Levels in cigarette smoke are much higher than in vaping under realistic conditions
    - Farsalinos, K. E. & Gillman, G. Carbonyl emissions in e-cigarette aerosol: A systematic review and methodological considerations. *Frontiers in Physiology* vol. 8 (2018).



Shahab, L. et al. Nicotine, carcinogen and toxicant exposure in long-term e-cigarette and nicotine replacement therapy users: a cross-sectional study Europe PMC Funders Group. *Ann Intern Med* 166, 390–400 (2017).

# Regulatory environment

- Regulation determines direction of travel through a Gateway
- Movement must always be towards the less harmful
- Because vaping is a new technology, regulation can be imposed and evolve free of the dead weight of historical expectation
- Vaping has a product improvement pathway
- We must also think about people who do not smoke and are not addicted to nicotine, especially children and adolescents
- New Zealand policy has kept a balance
  - Smokefree Environments and Regulated Products Act 1990

**VAPING  
TO QUIT  
SMOKING.**







Australian Government

Department of Health

Therapeutic Goods Administration

# Nicotine Vaping products

Some practical considerations



**Hayden McRobbie**

Professor, NDARC, UNSW, Sydney Australia

Consultant in Lifestyle Medicine, Lakes District Health Board, Rotorua, New Zealand

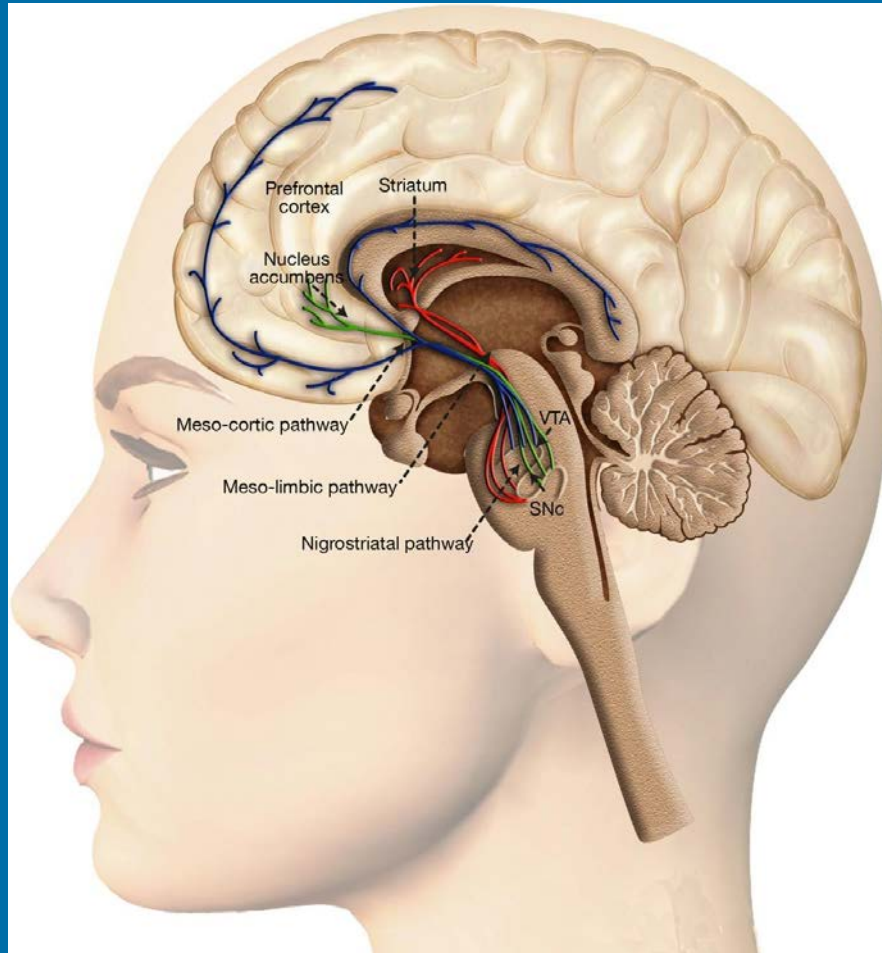
**TGA** Health Safety  
Regulation

14 October 2021

# Disclosures

- In the past 3 years, I have received:
  - Honoraria for speaking at smoking cessation meetings and attending advisory board meetings that have been organised by Pfizer
  - Grants from the National Institute of Health Research (UK), National Health and Medical Research Council (Australia), and the Health Research Council (New Zealand)
  - I have no links with the manufacturers of tobacco or vaping products.

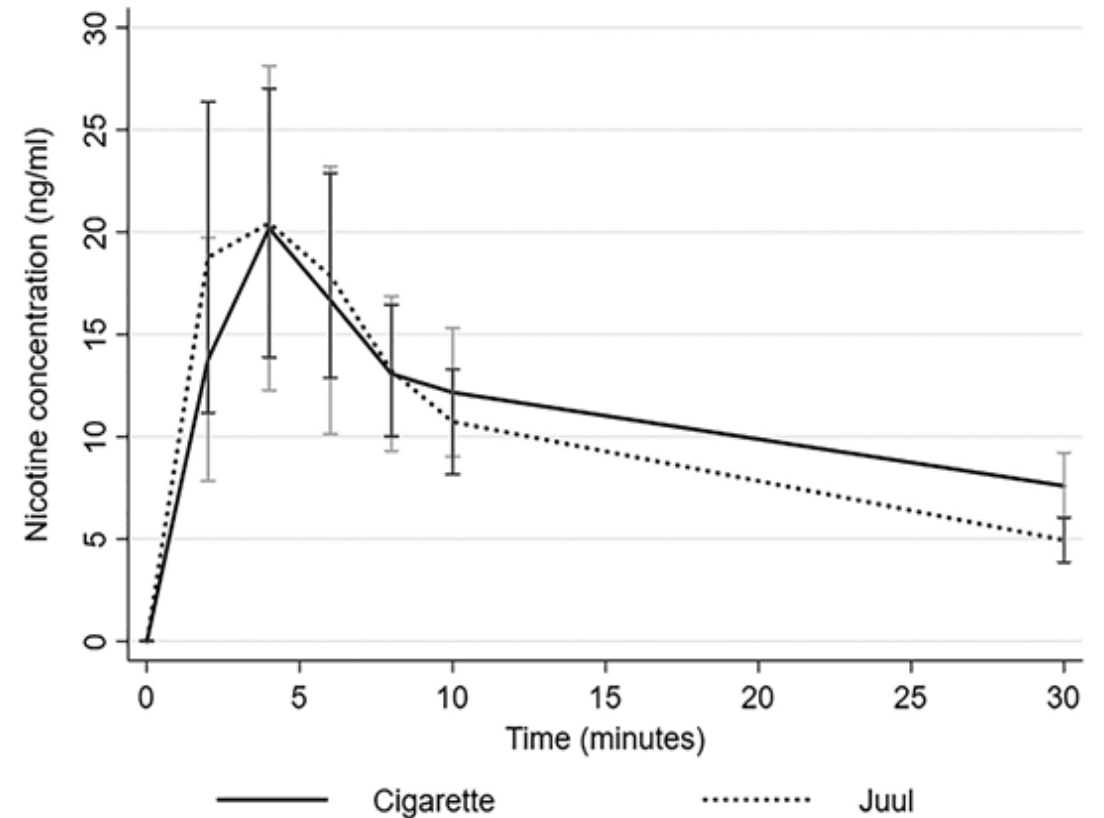
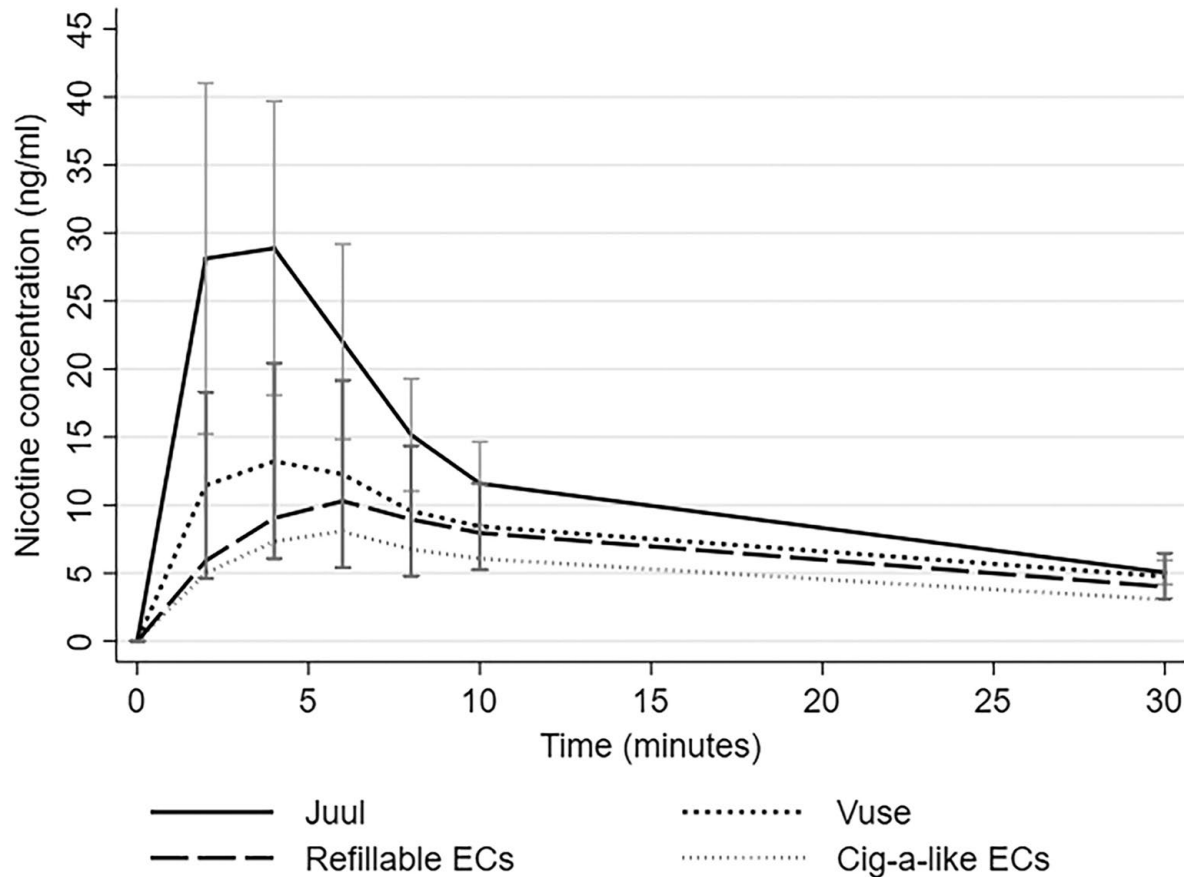
# Nicotine



- Contained in the tobacco leaf in as a nicotine salt
- Increasing alkalinity converts it to a freebase form (more readily absorbed)
- Acts on the mesolimbic dopaminergic pathway ('rewards' behaviour)

*People smoke for the nicotine but die from the tar*

# Nicotine delivery from vaping products



# Nicotine delivery

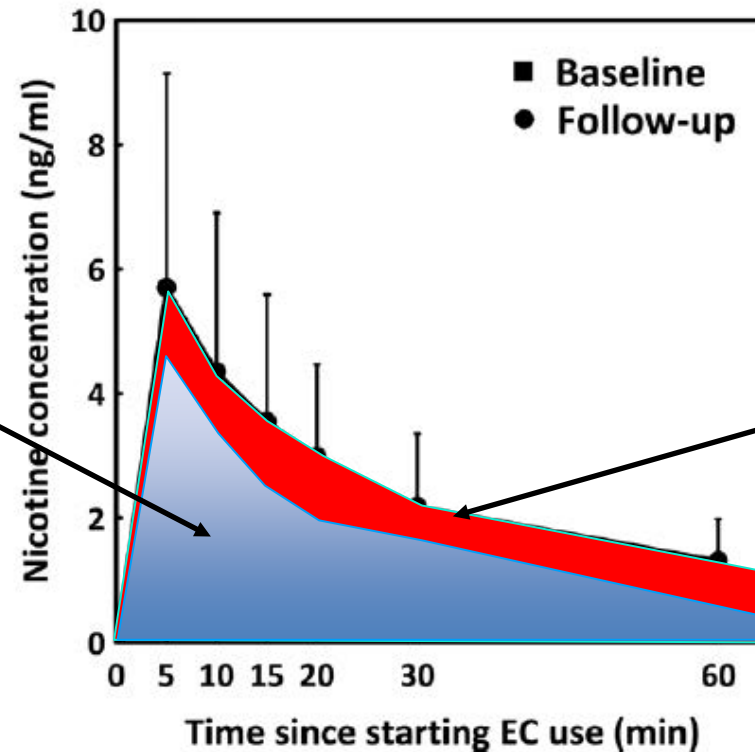
- The amount of nicotine delivered to the user depends on various factors
  - the **concentration of nicotine** in the e-liquid
  - **other constituents of the e-liquid** (such as the ratio of propylene glycol to vegetable glycerine)
  - heating of the e-liquid
  - technique of the user

# Nicotine: Freebase vs. salts

- Freebase
  - Bioactive form
  - Often experience as harsh or burning
  - Often used in tank-type vaping products
- Nicotine salts
  - The form that is present in tobacco
  - Less harsh
  - Allows for higher concentrations to be used
    - ...and subsequently lower volumes
      - ...and subsequently potentially less exposure to toxicants

# Practice is important

Nicotine delivery after trying an e-cigarette for the first time



Nicotine delivery after 4-weeks of practice

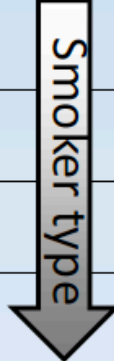
Figure 1. Plasma nicotine concentrations after 5 min of ad lib electronic cigarette use at baseline and at 4-week follow-up.

# Prescribing nicotine

- Need to consider what nicotine concentration and type of product being used
  - Cartridges/pods
  - Pre-mixed or concentrated nicotine
- Consumers will only be able to access a product with a concentration matching that specified in their prescription.
- Individuals may import up to a three month supply of medicines per import (based on the maximum daily dose recommended by the manufacturer), but not exceed 15 months supply in a 12-month period.
- They must arrange for a copy (scan or photocopy) of their prescription to be enclosed with the package the product is sent in.



# Suggested dosing

Vaping devices		Cigarette smoking equivalent		Freebase nicotine	Nicotine salts
High Vapour Production Open tank devices	Medium Vapour Production All devices	No longer smoking		Nicotine free solution - 0 mg/mL	
		1-6 cigarettes/day	Light	3 mg/mL	≤ 10 mg/mL**
		6-12 cigarettes/day	 Smoker type	6 mg/mL	20 mg/ml
12-20 cigarettes/day		9 mg/mL		25 mg/mL	
20-25 cigarettes/day		12 mg/mL		30 mg/mL	
25+ cigarettes/day		18 mg/mL		35 mg/mL	
Low Vapour Production Pod devices		2+ packs/day	Heavy	24-36 mg/mL*	50-60 mg/mL

\* Harsh throat hit for concentrations above 20 mg/ml, throat hit of 6 mg/ml free base similar to 20-25 mg/mL nicotine salts

\*\* Uncommon salt concentrations.

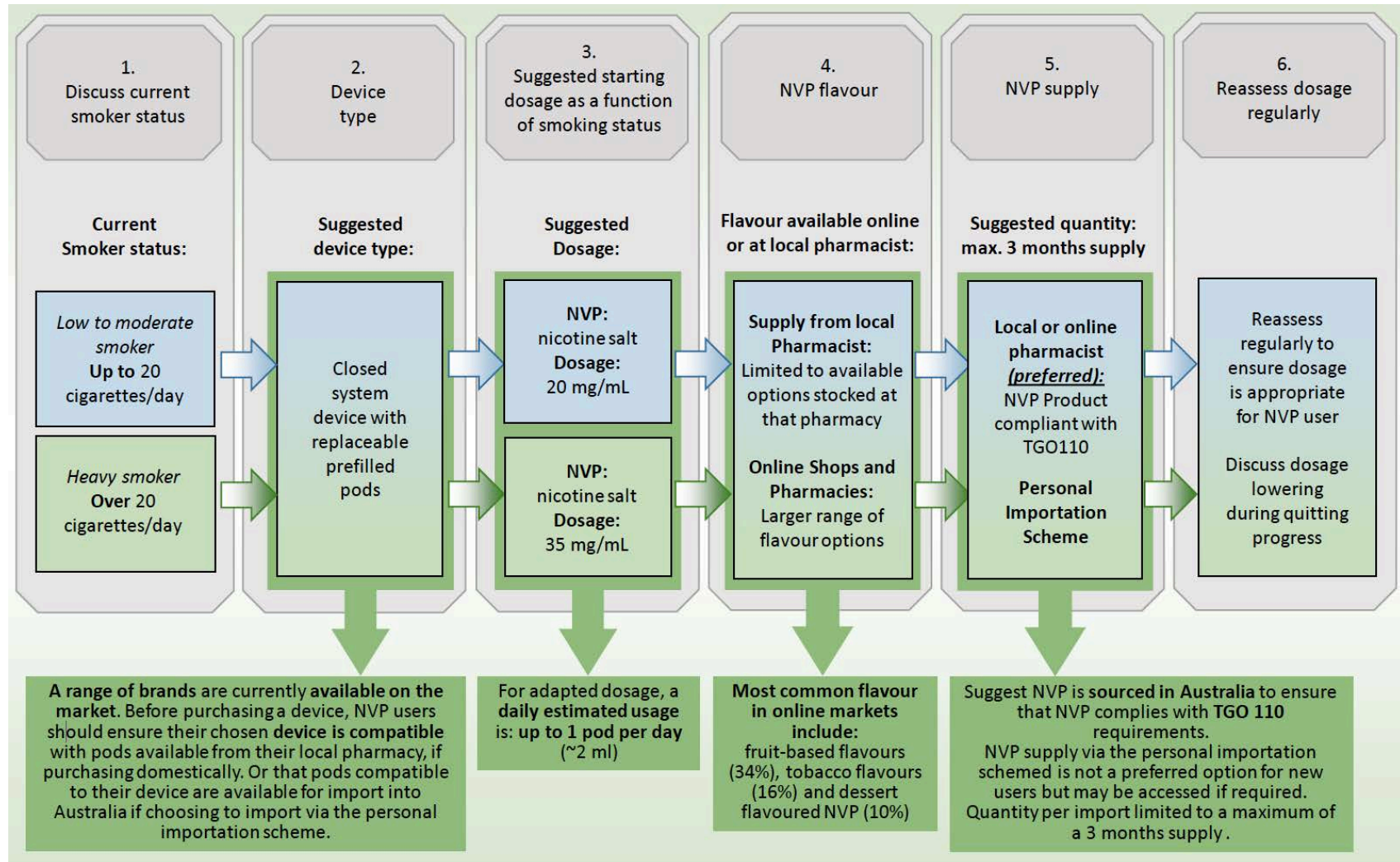
Suggested starting concentrations highlighted

# Suggested supply

	Estimated volume usage	
	Daily	3 months
<b>Open tank devices</b> 3-6 mg/ml (free base)	4-6 ml	600 ml
<b>Pod devices</b> 30 mg/ml (salt)	1 pod (2 ml)	100 pods (200 mL)
<b>High concentration solutions (100 mg/ml) for “mix your own” preparations*</b>		
Free base nicotine	Up to 2mL	Up to 120 mL
Nicotine salts	Up to 3mL	Up to 300 mL

\* Based on the use of 100 mg/ml solution to prepare 600 mL of 3-20 mg/ml free base nicotine solutions, and 200 mL of 30-50 mg/ml nicotine salt solutions for use in open tank devices.

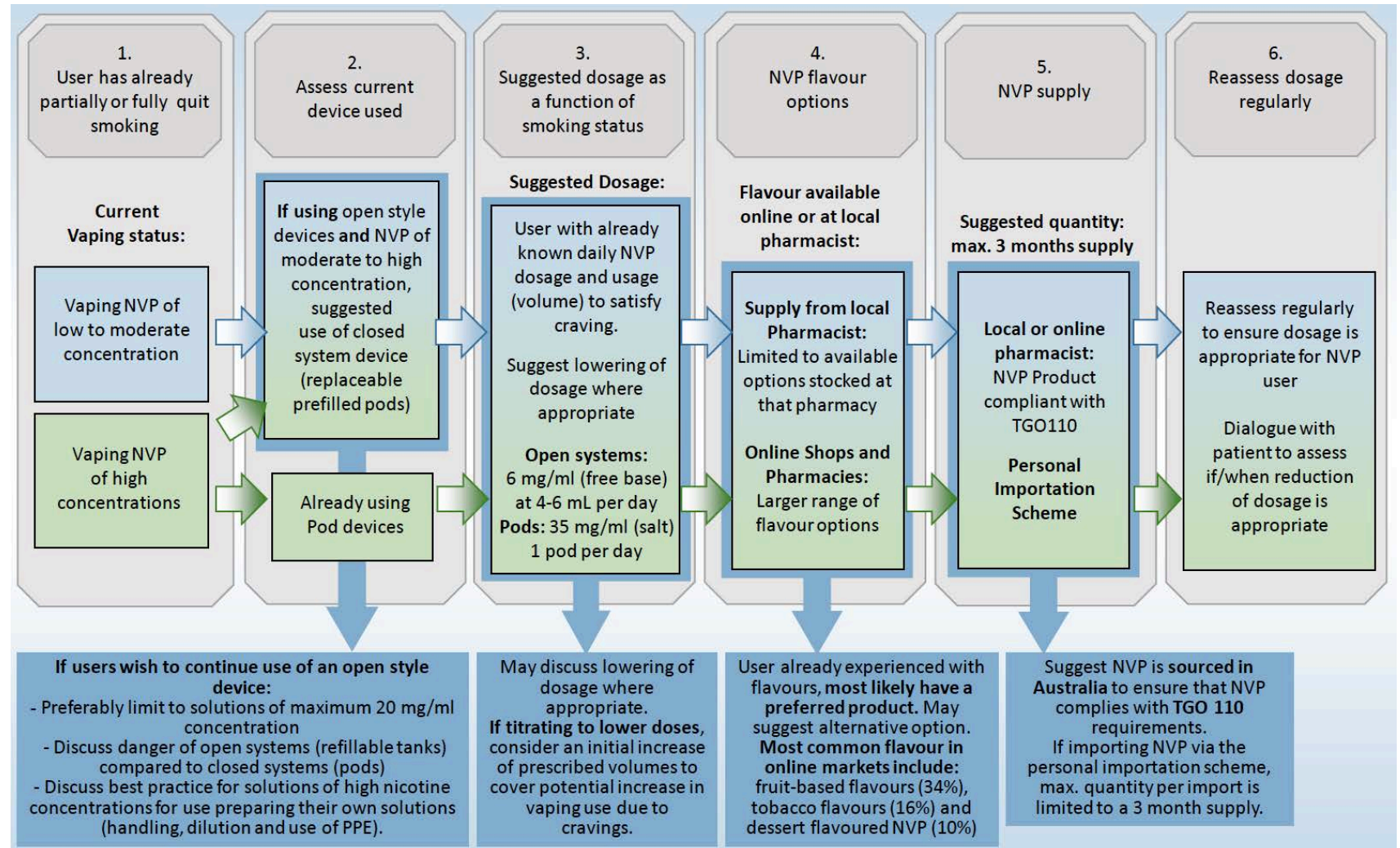
# Guidance for new users



Nicotine Vaping  
Product Analysis:  
Evidence from the  
University of  
Wollongong -  
Accompanying  
document



# Guidance for existing users



Nicotine Vaping  
 Product Analysis:  
 Evidence from the  
 University of  
 Wollongong -  
 Accompanying  
 document

## Using lower nicotine concentration may not be better

Compound	6 mg/ml nicotine 5.04 sec puff  Mean ± SD	24 mg/ml nicotine 3.76 sec puff  Mean ± SD	Statistical significance of the difference (t-test)
Formaldehyde	46.1 ± 12.8 (↑45%)	31.7 ± 6.4	p=0.03
Acetaldehyde	29.3 ± 4.9 (↑33%)	22.1 ± 2.7	p=0.01
Acetone	9.9 ± 2.7 (↑65%)	6.0 ± 3.1	p=0.04
Acrolein	ND	ND	

# Adverse effects associated with vaping

- There were low numbers of adverse effects in all study groups
- Low certainty evidence that there is no difference in the adverse event rate between groups
- Most common side effects associated with ENDS use include:
  - Throat or mouth irritation
  - Headache
  - Cough
  - Nausea
- No significant difference in serious adverse events

# Writing a prescription

- Non-PBS
- Must include the following
  - Nicotine concentration
  - Volume of liquid or number of pods for a 3 month supply
  - Number of repeats (up to 3)

## Pods

Nicotine pods for vaping (Up to 2mls)  
50mg/ml nicotine liquid  
90 pods Repeat x3

## Pre-mix

Nicotine liquid for vaping  
12mg/ml  
450ml Repeat x3

## Concen- trate

Nicotine liquid for vaping  
100mg/ml  
120ml Repeat x3

*For someone who uses 120mls per 3 months  
Or you will need to work it out based on what they are using*  
 $5\text{ml} \times 12\text{mg/ml per day} = 60\text{mg per day}$   
 $= 5,400\text{ mg per 3 months}$   
 $= 54\text{ ml of }100\text{mg/ml}$

# Flavours

- Prescribers can specify flavour on a prescription, but this is not a requirement
- In general you can advise:
  - There is a vast range of different flavours
  - May need to try several before finding one they like
- Online stores will have a wider selection than pharmacies



# How can you help people who smoke?

- Explain what you can offer
  - E.g. combination of stop smoking medicine and behavioural support
- For those who wish to use an e-cigarette, ask permission to tell them what you know
  - Vaping can help people quit smoking, but they are no magic cure
  - Vaping pose lower health risks than smoked tobacco, **but** we do not know the health risks associated with long-term use of e-cigarettes, only that they are likely to be many times less than with smoking
  - Vaping of any kind should not be used by people who do not smoke

# What can you say about vaping?

- Daily vaping use is generally more effective for quitting smoking than intermittent use.
- More advanced vaping models that deliver nicotine more efficiently seem to work best for those trying to quit smoking tobacco cigarettes.
- Carefully read and understand the manufacturer's recommendations for use and care of the device.
- It may take practice to learn to use the device to deliver the proper amount of nicotine to relieve the urge to smoke.
- Stop use of combustible tobacco cigarettes as soon as possible and discontinue vaping when you are comfortable that you have quit cigarette smoking for good

# Safety Tips

- Only purchase e-liquid containing nicotine with a valid prescription
- Investigate the safety and quality of products before purchasing
- Only use the charger supplied by the manufacturer to charge your device
- Do not modify your vaporiser device and use only approved parts
- Never charge your vaporiser unattended for long periods, especially overnight or while you are out of the house
- Never keep loose vape batteries in your pocket, particularly next to keys or coins
- Protect your vape from extreme temperatures and direct sunlight
- Never vape near medical oxygen
- Keep out of the reach of children and pets
- If you spill any e-liquid and it makes contact with your skin – wash your hands immediately – remember nicotine contained in both tobacco and nicotine replacement products is a poison
- Do not dry burn your coils
- Heed any warnings supplied with the product

# Screening for vaping and documentation

- **Vaping is not smoking**, so a person who
  - has switched completely from cigarettes to vaping should be categorized as an **ex-smoker**
  - is vaping and is still smoking cigarettes, even as little as one cigarette per day, should be documented as a **current smoker**
  - is vaping, but has never smoked, code them as a **non-smoker**
- Vaping should be recorded in the clinical record

# Conclusions

- E-cigarettes can help people stop smoking, but not a ‘silver bullet’
- There are likely to be some adverse health effects associated with long-term vaping, so concern is warranted, however...
  - this concern needs to be balanced with the concerns for the health and wellbeing of people who continue to smoke
- For smokers, switching to vaping (and stopping smoking completely) is likely to be associated with a reduction in health risks
  - This is supported by the current literature
  - To mitigate concern over unknown health risks associated with long-term vaping, ex-smokers can be advised to stop vaping as soon as they feel able not to relapse to smoking

# Website and link references | Nicotine Vaping Products (NVP)

Nicotine vaping products	<a href="https://www.tga.gov.au/nicotine-vaping-products">https://www.tga.gov.au/nicotine-vaping-products</a>
Information for prescribers	<a href="https://www.tga.gov.au/nicotine-vaping-products-information-prescribers">https://www.tga.gov.au/nicotine-vaping-products-information-prescribers</a>
Frequently Asked Questions	<a href="https://www.tga.gov.au/nicotine-vaping-products-frequently-asked-questions">https://www.tga.gov.au/nicotine-vaping-products-frequently-asked-questions</a>
Guidance for the use of nicotine vaping products for smoking cessation	<a href="https://www.tga.gov.au/guidance-use-nicotine-vaping-products-smoking-cessation">https://www.tga.gov.au/guidance-use-nicotine-vaping-products-smoking-cessation</a>
New NVP users	<a href="https://www.tga.gov.au/sites/default/files/nicotine-vaping-products-flow-chart-university-wollongong.pdf">https://www.tga.gov.au/sites/default/files/nicotine-vaping-products-flow-chart-university-wollongong.pdf</a>

# More information – Social media

TGA  
.gov.au

	Website	<a href="https://www.tga.gov.au">https://www.tga.gov.au</a>
	Facebook	<a href="https://www.facebook.com/TGAgovau/">https://www.facebook.com/TGAgovau/</a>
	Twitter	<a href="https://twitter.com/TGAgovau">https://twitter.com/TGAgovau</a>
	YouTube	<a href="https://www.youtube.com/channel/UCem9INJbMSOeW1Ry9cNbucw">https://www.youtube.com/channel/UCem9INJbMSOeW1Ry9cNbucw</a>
	Topic blogs	<a href="https://www.tga.gov.au/blogs/tga-topics">https://www.tga.gov.au/blogs/tga-topics</a>
	LinkedIn	<a href="https://www.linkedin.com/company/therapeutic-goods-administration/">https://www.linkedin.com/company/therapeutic-goods-administration/</a>
	Instagram	<a href="https://www.instagram.com/tgagovau/?hl=en">https://www.instagram.com/tgagovau/?hl=en</a>

How did we go?

**LIVE POLL**

We are currently reading over your submitted questions.

**We'll be back shortly for Q&A**



# Questions?



Natalie Walker



George Laking



Hayden McRobbie



**Australian Government**

---

**Department of Health**  
Therapeutic Goods Administration