PSP Question ID	Uncertainty (also known as summary or indicative question) - should be in a format that will	Original uncertainty (examples)	Evidence that the question is indeed unanswered. (reference, and weblink where	<b>Source of Uncertainty</b> (if there are multiple sources, a PSP may wish to
	ultimately be of value to the research community)		available, to the most recent relevant systematic	
1	What are the long term effects of vaping?	"What are the long term effects of e-cigarette use?"	This is the major concern of most people.	57 x HCP; 155 x Patient
	Compared to smoking, ex-smokers, never- smokers and NRT use?	"long term harms to health with relative risk against non smoking and against tobacco"	Longitudinal studies are needed.	
2	What are the short term effects of vaping?	"Short term health effects" "What are the short-term	Liu, Xing, et al. "Efficiency and adverse events of	34 x HCP; 124 x Patient
	Compared to smoking, ex-smokers, never- smokers and NRT use?	harms of vaping compared to tobacco smoking"	electronic cigarettes: A systematic review and meta- analysis (PRISMA-compliant article)." Medicine 97.19 (2018). Looks at adverse events in smokers. Doesn't compare to smoking, ex-smoking, non- smokers. Would be good to have a fresh look at this. There are a few well conducted studies e.g.: Ann Intern Med. 2017 Mar 21;166(6):390-400. doi: 10.7326/M16-1107. Epub 2017 Feb 7. Nicotine, Carcinogen, and Toxin Exposure in Long- Term E-Cigarette and Nicotine Replacement Therapy Users: A Cross-sectional Study. Shahab L, Goniewicz ML, Blount BC1, Brown J, McNeill A1, Alwis KU, Feng J, Wang L1, West R. Also there are studies led by Goniewicz. Further studies are needed using a broader range of biomarkers	
3	cancer, oral health, respiratory conditions, allergies, digestion, physical activity, sexual	"Specific effects on patients with specific conditions, particularly COPD and asthma?" "Does vaping effect oral health"; "I am also curious as to effects that E- Liquids have on users that have diabetes, does it effect sugar levels in anyway etc etc."	Skotsimara, Georgia, et al. "Cardiovascular effects of electronic cigarettes: A systematic review and meta- analysis." European journal of preventive cardiology (2019): 2047487319832975. Cardiovascular effects. Limited findings - based on single studies or non randomised studies. Not enough evidence yet	59 x HCP; 152 x Patient

Data management spreadsheet for use by Priority Setting Partnerships for all questions received. Spreadsheet to be published on the JLA website at www.jla.nihr.ac.uk on completion of the PSP.

tainty (if there are a PSP may wish to x patient, 19 x arch s)
Patient
Patient
Patient

	What effect does vaping have on mental health,	"What effect does e-cigarette use have on mental		4 x HCP; 6 x patient
	including any risks and benefits? In adults,	health issues?". "Is nicotine beneficial for people with	medicines compare with respect to their	
	children and young people	mental health conditions? And if it is then is there any	neuropsychiatric safety? A protocol for a systematic	
		discernible difference between vaping and smoking for them?"	review, network meta analysis and cost	
			effectiveness analysis." BMJ open 7.6 (2017):	
			e015414. SR only concerned with 18 years and	
			older. Comparing different treatments and effect on	
			neuropsychiatric safety. Hefner, Kathryn, Gerald	
			Valentine, and Mehmet Sofuoglu. "Electronic	
			cigarettes and mental illness: Reviewing the	
			evidence for help and harm among those with	
			psychiatric and substance use disorders." The	
			American journal on addictions 26.4 (2017): 306-	
			315. Looks at perceptions of ecigs and impact on	
			tobacco use in adults. Doesn't look at health effects,	
			risks and benefits.	
5	What are the risks and benefits of dual use	WA/hat any the desperance of dual was (smalling and	last statut	
	compared with smoking only?	"What are the dangers of dual use (smoking and vaping) compared to smoking alone "	lack of studies	2 x HCP; 6 x Patien
	What are the health effects for non-smokers who	"For non-smokers/never-smokers, who start to use	not really been addressed. Most e-cig users are ex-	5 x HCP; 7 x patient
	take up vaping?	vapor-products - what could the health consequences	smokers or current smokers. Very few are never	
	tano up ruping.	be - compared to initiation of smoking instead?"	smokers.	
		"Longitudinal research following vapers who have		
		never smoked."		
7	How do e-cigarettes compare to other treatments	"What is the success rate compared to other methods	some reviews looking at effectiveness of e-	43 x HCP; 49 x patie
	for stopping smoking, in terms of effectiveness,	of quitting smoking?" "What are the relapse rate for	cigarettes, but not in terms of cost-effectiveness,	
	cost-effectiveness, long-term abstinence, and	quitters using E cigs compared to NRT?"	long-term abstinence or relapse. Hersi, Mona, et al.	
	relapse to smoking?		"Effectiveness of stop smoking interventions among	
			adults: protocol for an overview of systematic	
			reviews and an updated systematic review."	
			Systematic reviews 8.1 (2019): 28. Liu, Xing, et al.	
			"Efficiency and adverse events of electronic	
			cigarettes: A systematic review and meta-analysis	
			(PRISMA-compliant article)." Medicine 97.19 (2018).	
			(looks at rates of smoking reduction and smoking	
			cessation in e-cig users. Doesn't compare	
			effectiveness to other methods.) Gentry, Sarah, Nita	
			G. Forouhi, and Caitlin Notley. "Are electronic	
			cigarettes an effective aid to smoking cessation or	
			reduction among vulnerable groups? A systematic	
			review of quantitative and qualitative evidence."	
			Nicotine and Tobacco Research 21.5 (2018): 602-	
			616. (low quality evidence). El Dib, Regina, et al.	
			"Electronic nicotine delivery systems and/or	
			electronic non-nicotine delivery systems for tobacco	
			smoking cessation or reduction: a systematic review	
			and meta-analysis." BMJ open 7.2 (2017): e012680.	
			(only two RCTs, and some cohort studies. Suggests a	
			possible increase in tobacco smoking cessation with	
			ENDS in comparison with ENNDS, but no firm	
			conclusions made. High quality RCTs are needed. )	
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8	How effective are e-cigarettes for smoking	"Use in inpatient mental health settings - any	very limited research for patients with mental health	1 x HCP; 1 x Patient
	cessation in patients with mental health problems? And what effect do they have on mental health?	association with smoking cessation longer term". "most importantly the quitting rates on this cluster [mental health patients] (which shows a high prevalence) with a proper guidance on their mental- care center."	problems	
9	How safe are e-cigarettes in pregnancy, compared to smoking and NRT use?	"Are e cigarettes safe to use in pregnancy" "Are they safer than NRT use in pregnancy? "	very limited research for pregnancy	4 x HCP; 4 x Patient
10	What effect does vaping in pregnancy (and when breastfeeding) have on the health outcomes of the fetus and baby, compared to smoking? Including any long term effects	"What are the effects of vaping on the feotus?" "WHAT IS THE IMPACT ON BABIES GROWTH AND DEVELOPMENT"	very limited research for pregnancy	13 x HCP; 3 x Patient
11		"Quit rates compared to licensed pharmacotherapy, in preg women"	very limited research for pregnancy	3 x HCP; 1 x Patient
12	Will prescribing e-cigarettes to pregnant smokers encourage smoking cessation, and reduce risk of relapse?	"CAN WE PRESCRIBE FOR INPATIENTS IN MATERNITY SERVICES AS A CHOICE"	very limited research for pregnancy	1 x Patient
13		"Is there 'second hand smoke' type implications from being around people who vape?" "Are they safe to use around babies/children?". "I would also like to see some research on the effect on household pets of people who vape in their homes, as I have read that PG can be harmful to cats and dogs."	more corroborating evidence would be helpful. Farsalinos, Konstantinos E., and Gene Gillman. "Carbonyl emissions in e-cigarette aerosol: a systematic review and methodological considerations." Frontiers in physiology 8 (2018): 1119. (emissions substantially lower than cigarettes. Unable to compare studies. Didn't look at effect on health, just emissions.). Hess, I. M., Kishen Lachireddy, and Adam Capon. "A systematic review of the health risks from passive exposure to electronic cigarette vapour." Public Health Res Pract 26.2 (2016): e2621617. (No meta analysis. 16 studies. EC vapour has the potential to lead to adverse health effects. The risk from being passively exposed to EC vapour is likely to be less than the risk from passive exposure to conventional cigarette smoke). Health risks from passive vape not been extensively researched. more studies needed. Abidin, Najihah Zainol, et al. "Electronic	25 x HCP; 60 x Patient
14	What are the impacts of vaping on indoor and outdoor air quality, and how does this compare to other air pollutants?	"What are the short, medium and long term risks of vaping compared with Living in an environment with high levels of air pollution" "Secondhand vapor compared to clean air what are the differences?"	Abidin, Najihah Zainol, et al. "Electronic cigarettes and indoor air quality: a review of studies using human volunteers." Reviews on environmental health 32.3 (2017): 235-244. (Few studies, and inconsistent evidence). Fernández, Esteve, et al. "Particulate matter from electronic cigarettes and conventional cigarettes: a systematic review and observational study." Current environmental health reports 2.4 (2015): 423-429. (literature review and an observational study. Not a meta analysis. )	1 x HCP; 9 x Patient

Patient	
Patient	
x Patient	
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0 x Patient	
Patient	
auont	

-	"Is there similar effects to smoking in the house ie		1 v Dotiont
clothes and furniture?	clothes/furniture transfer. Staining etc with vaping."	no research	1 x Patient
		Cann, K. F., K. D. Heneghan, and T. Knight.	
		"The impact of restricting the use of e-cigarettes	
	"Why do so many businesses, councils and health	in public places: a systematic review." Journal	
	care trusts include vaping in their smoke free	of Public Health 40.3 (2017): 533-539. SR	
	policies?" "The impact of public use bans, specifically	looks at restrictions of vaping in public places	
	by health trusts treating vaping as smoking, on the	and impact on switching behaviour. (no studies	
including vaping in smoke free policies; age	uptake and perception of smokers toward vaping."	were found for this). Secondary question looked	
		at ability to use e-cigarettes in public places as	
	employers, cafés and public houses that welcome	a reason for use and attitudes towards this	
	considerate vaping?"	among smokers.	10 x HCP; 35 x Patient
What impact does allowing vaping in prisons			
have on smoking behaviour and smoking	"Is vaping allowed in prisons now that smoking has		
cessation rates?	been banned?"	no research	2 x HCP
	"What tests are done on different eliquid flavourings?"		
What testing should be done on the flavourings,	"Why aren't ingredients of the flavourings required to		
ingredients and devices to ensure they are safe?		more research would be useful	2 x HCP; 16 x Patient
	"What is the effect of tobacco taxation or other anti-		
	smoking policies on economically, mentally ill or		
	otherwise disadvantaged smokers". "Effectiveness of		
impact? And what effect do these have on	public health smoking efforts that include vaping vs		
different populations?		not enough research	5 x Patient
	"Is nicotine less addictive when vaped than it is when		
How addition and a size of the state	smoked in a traditional cigarette?" "I would like the		
How addictive are e-cigarettes compared with	question to be answered, " is nicotine still addictive	an and an analytic state of the second state of the	
regular cigarettes?	outside of smoking" once and for all."	more research would be useful	14 x HCP; 37 x Patient
	"Doop pigoting roothy horm toop's devictories have a 0"		
	"Does nicotine really harm teen's developing brains?" "What are nicotine's health and mental benefits?" "Is		
What are the risks and benefits of nicotine			
	nicotine (at the concentrations used in e-cigs) as toxic	more correborating evidence would be beleful	4 x HCD: 27 x Dationt
consumption, and/or nicotine cessation?	as many would have us believe?"	more corroborating evidence would be helpful.	
	"If someone switches from tobacco to vaping what		
How much nicotine is consumed when vaping	effect does this have on the amounts of nicotine they		
	receive?" "How much nicotine actually gets into the	not enough research	8 x HCP; 12 x Patient
compared to smoking?	body compared to cigarettes."	not enough research	
	"How does reducing nicotine affect probability of giving		
	up vaping?" "How effective is lower percentage		
How does nicotine strength affect probability of			
• • •	nicotine liquid, and would higher percentage (as currently banned by the EU) be more effective		
what impact does nicotine strength have on			
	especially for new switchers? This would measure the	not onough research	2 x HCD: 14 x Dationt
118a1U1 f	unintended consequences of the TPD?"	not enough research	2 x HCP; 14 x Patient

			<b>.</b> . <b>.</b>	
			Smokers Toolkit regularly looks at this	
			information in the UK, but it doesn't include	
			pregnancy (or postpartum), or other specialist	
			groups (although currently looking at preg and	
			pp in CRUK funded study). Yoong, Sze Lin, et	
			al. "Prevalence of electronic_nicotine delivery systems (ENDS) use among youth globally: a	
			systematic review and meta analysis of country	
		"Prevalence of vaping in children and adult non	level data." Australian and New Zealand journal	
		smokers" "Who smoke e-cigarettes? Non (cigarette)	of public health 42.3 (2018): 303-308. SR	
		smokers, ex-smokers, smokers trying to quit (dual	exploring prevalence of ENDS use in those	
		use), ex smokers who had succeeded etc". "How	younger than 20 years. Doesn't differentiate	
		many pregnant women vape"		26 x HCP; 13 x Patient
			Zare, Samane, Mehdi Nemati, and Yuqing	
			Zheng. "A systematic review of consumer	
			preference for e-cigarette attributes: Flavor,	
			nicotine strength, and type." PloS one 13.3	
		"Do different eliquid flavourings have different health	(2018): e0194145. SR exploring flavour	
	What impact do flavourings have on e-cigarette	implications?" "Role of flavours/product variability in	preferences. The search included any age.	
05		keeping adult smokers with histories of failed quit	Looks at preferences, not at initiation or	
25	and children, and smokers and non-smokers?	attempts off of cigarettes."	behaviours	12 x HCP; 56 x Patient
			Simonavicius, Erikas, et al. "Heat-not-burn	
		"How does e-cigarette vapour compare with heated	tobacco products: a systematic literature	
		tobacco vapour in terms of positives and negatives?".	review." Tobacco control (2018): tobaccocontrol-	
	What are the risks and benefits of other products		2018. Mainly looking at differences between	
		terms of harms?" "What alternative e-cigarettes are	independent and industry funded studies. Looks	
		available e.g. e-shisha; what are the health effects;	at harmful toxicants. More evidence needed on	
26		who is using them, etc.?"	risks to user and bystanders.	5 x HCP; 10 x Patient
			Zulkifli, Aziemah, et al. "Electronic cigarettes: a	
			systematic review of available studies on health	
			risk assessment." Reviews on environmental	
		"How the ingredients in eliquid may or may not affect	health 33.1 (2018): 43-52. looks at 4	
		health. This must include various additives such as sweeteners etc." "What ingredients in common e-	ingredients (nicotine, PG, glycerol, 1,2- propanediol). Only 4 studies. Inconsistent	
	- · ·	juices are carcinogenic and what are the levels of	evidence. Would be useful to have human	
	-	carcinogens relative to cigarettes?"	studies here rather than in vitro or mice studies	13 x HCP: 43 x Patient
		"how safe are the different types of ecigs compared to		_ ,
	What are the differences between all the	each other". "There are so many different vaping		
	available devices? Are any devices safer or more	•		
28	effective than others?	me?"	devices change so quickly. Difficult to research.	16 x HCP; 22 x Patient
		"How does nic-salt liquid compare to regular freebase		
		nicotine liquid in terms of health implications,		
20	-	effectiveness as tobacco replacement, addictiveness	no research	2 x HCP; 18 x Patient
29		(for never smokers), and environmental impact." "What kind of negative health problems could arise	no research	
	What is the risk from burning cotton or coils?	from the burning of cotton found in coils?". "What can		
	-	be done to completely eliminate metals from the		
		vapour?"	no research	28 x Patient
				• <b>•</b>

"Health effects of different wattage usage,for example	
How do the different temperatures and power wattages above 50 or/and higer volts on devices?	
levels affect health? Is there an optimum compared with smoking". "Safe temperatures to vape	
at?" no research 1 x HCP; 23 x Patient	
Xu, Ying, et al. "E-cigarette awareness, use,	
and harm perception among adults: a meta-	
analysis of observational studies." PLoS One	
11.11 (2016): e0165938. looks at awareness	
and use of EC. Current smokers had the	
greatest awareness. Tomashefski, Amy. "The	
perceived effects of electronic cigarettes on	
health by adult users: A state of the science	
"Does the public understand the health differences systematic literature review." Journal of the	
between conventional smoking and e-smoking?" "Is American Association of Nurse Practitioners	
What are the public perceptions of e-cigarettes there any social stigma associated with the use of e- 28.9 (2016): 510-515. (The majority of e-	
and vape shops (including the views of children cigarettes? Should there be any stigma associated cigarette users perceive they are less harmful to	
and young people), and do these views differ with them? i.e. Are e-cigarettes more socially health than traditional cigarettes). Still a lot	
between different populations? And how can we acceptable than cigarettes, and if so, how/why has more to be done on public awareness and	
<i>improve understanding?</i> that difference arisen?" perceptions. 18 x HCP; 32 x Patien	t
Erku, Daniel A., et al. "Beliefs and self-reported	
"What is the most effective way of increasing practices of healthcare professionals regarding	
knowledge about vaping amongst health electronic nicotine delivery systems (ENDS): a	
professionals, particularly within primary care?" "Why mixed-methods systematic review and	
What are the views of healthcare professionals do health care professionals still continue to insist that synthesis." Nicotine & Tobacco Research	
of e-cigarettes for smoking cessation (including vaping is harmful and how do we better educate them (2019). SR exploring HCP attitudes - doesn't	
<i>in pregnancy)? And how can we improve</i> in passing on the correct information regarding look at pregnancy. Doesn't suggest how to	
improve knowledge/change attitudes. 11 x HCP; 17 x Patien	t
limited research. Yang, Ling, et al. "Electronic	
cigarettes: incorporating human factors	
engineering into risk assessments." Tobacco	
"Is there a consumer guide on different vaping control 23.suppl 2 (2014): ii47-ii53. (Yang, Ling,	
What is the best way to educate adults and products that would tell me about nicotine delivery, et al. "Electronic cigarettes: incorporating	
children about vaping, and to provide ease of use, cost, safety concerns?" "I'd like to see human factors engineering into risk	
<i>information about vaping products and device</i> better information for new vapers about battery assessments." Tobacco control 23.suppl 2	
safety (including battery safety)? safety." (2014): ii47-ii53.) 11 x HCP; 16 x Patien	t
Collins, Lauren, et al. "E-cigarette marketing	
and communication: how e-cigarette companies	
market e-cigarettes and the public engages with	
e-cigarette information." Nicotine and Tobacco	
Research 21.1 (2018): 14-24. (SR explores how	
marketing may affect perceptions but doesn't	
How are e-cigarettes represented in the media? "Should they be allowed to be advertised?" "The assess the effect on	
And what impact does this have on public impact on perceptions of vaping caused by the media behaviour/smoking/cessation. Looks at	
perceptions, attitudes and behaviours? from misreporting and exaggerating claims." portrayal in the media too.) 3 x HCP; 13 x Patient	
"How to motivate smokers to try and stick with vaping".	
"How can ecigarettes be promoted or provided to	
How can we motivate smokers to try e-cigarettes people that may be otherwise reluctant to try them or	
36 for smoking cessation?    reluctant to visit a vape shop?"    no research    3 x HCP; 7 x Patient	

				-
	How can e-cigarettes be incorporated into a			
	smoking cessation programme or treatment	"Will stop smoking services ever recommend/offer		
	guidelines? How will this differ for different	ecigarettes as a means of quitting?" "What happens if	some information available through NCSCT, but	
37	populations?	you provide e-cigarettes and vape liquid on the NHS?"	more research could be done.	11 x HCP; 3 x Patient
		"Could we see a reduction in VAT on vaping products		
		to further encourage smokers to switch to vaping?" "If		
		e-cigarettes were provided for free to certain		
		populations could this help people quit smoking. I'm		
		thinking of people with low income who might not have		
		the money to invest in vape equipment and are put off		
	What impact would financial incentives of e-	by the start up costs, specifically homeless people, or		
	cigarettes have on smoking cessation? E.g.	people from deprived areas, people on benefits or		
38	reduced price or free for certain populations.		more evidence needed.	2 x HCP; 3 X Patient
00		"What are the best ways to help people who want to		
	What is the best way to help people reduce	quit e-cigarettes?". "Do vapers ever come off nicotine		
		or will they be vaping all their lives or need help to		
20		, , , , , ,	more evidence needed.	8 x HCP; 11 x Patient
00	Can advice from healthcare professionals lead to			
	better outcomes for smoking cessation if	"What should the advice or support offer from GPs,		
	accurate information is provided about e-	pharmacists, newsagents, smoking cessation		
40	-		more evidence needed.	6 x HCP; 4 x Patient
40	cigarettes?	•		o x HCP, 4 x Palleni
		"Are vape shops a smoking cessation intervention in		
	Are yone chone a cuitable environment to	their own right? i.e are these environments and		
44	Are vape shops a suitable environment to	communities adding to the success of e-cigarettes in		2 x LICD: 2 X Detient
41	provide smoking cessation support?		no research	2 x HCP; 3 X Patient
	How can hospitals better support patients to	"Can ecigs be effective in an acute hospital setting		
40	stop or reduce their smoking with the use of e-	(general or mental health) to help reduce smoking	an an an Adam an an a da d	
42	cigarettes?		more evidence needed.	2 x HCP; 1 x Patient
		"If kids are Vaping Why are the doing so? Peer		
	Miles de strikten en derennen neede sterten in 20	pressure? Cloud Chasing? Like the flavors? Because		
40	Why do children and young people start vaping?	•	an an an Adam an an a da d	
43	And how are they accessing e-cigarettes?	cigs?"	more evidence needed.	3 x HCP; 7 x patient
	Miles ( and the hermiteness and feedbills ( and feedball			
	What are the barriers and facilitators for e-	"what stops people switching to e cigarettes? What		
	cigarette use for smoking cessation? What	are the psychological barriers? Doubts?" "What are		
	-	common barriers and facilitators to using e-cigarettes		
44	health problems or heavily dependent smokers?		more evidence needed.	5 x HCP; 6 x Patient
	Million de mercen emelleure (in stadion stations ) ( (	"Research about how why people are going straight to		
		vaping from non smoking." "How can we discourage		
	vaping, and how/should we be discouraging	young people vaping (when we don't know yet what		
45	never-smokers from starting vaping?	harm it is doing)."	more evidence needed.	1 x HCP; 6 x Patient
		"How does different ways of vaping (MTL, DL, bottom		
	What are the different ways that people vape,	feeding etc) affect your health?" "How does vaping a		
	and can this have an impact on health? (e.g.	mouth-to-lung device differ from a high wattage cloud		
	mouth to lung vs direct; frequency, nicotine	chasing device?". "Is there a maximum volume of E		
46	strength).	liquid you should vape in a day?"	more evidence needed.	4 x HCP; 24 x Patient
		"How long do smokers use these devices before		
		stopping altogether?" "Whats going on with 'accidental'		
	What are the trajectories to and from vaping and	quitting (when dual users stop smoking without the		
	smoking? Including reasons for relapse to	specific intention of doing so)? What factors are	lack of studies, but is the focus of a current	
47	smoking, and accidental quitting.	involved in that? It seems to good to be true."	CRUK funded study.	3 x HCP; 4 x Patient
				•

	How are people currently accessing vaping	"Accessibility - should they be more accessible, aka if you run out of cigarettes you know you can get some		
	equipment? What are the preferred sources?	from all shops, if you run out of vape juice lose your		
	And how can we increase availability of vape	vape you're stuck." "are people buying devices on the		
48	products?		more evidence needed.	1 x HCP; 7 x Patient
			Soneji, Samir, et al. "Association between initial	
			use of e-cigarettes and subsequent cigarette	
			smoking among adolescents and young adults:	
			a systematic review and meta-analysis." JAMA	
	What impact has vaping had on the prevalence	"Links of vaping with other recreational substance	pediatrics 171.8 (2017): 788-797. (Ages 14-30 years. Never smokers at baseline, and past 30	
	of smoking, initiation of smoking or	use". "Are ecigarettes a gateway to other addictions?"	days cigarette smoking at follow up). some	
	experimentation with other drugs or addictive	"Does vaping act as a gateway to smoking for non-	information available from ASH and PHE	
49	behaviours?	smokers, particularly young people".	reviews.	11 x HCP; 29 x Patient
		Sinchere, particularly young people i		
		"Surely vaping as a whole (the device, batteries, refills		
		in plastic bottles) is more damaging to the		
		environment?" "What is the impact on the environment		
	What is the environmental impact of e-cigarettes,	due to the disposal of electronic cigarettes ( the device		
	in terms of the production and disposal of units	itself, used batteries and used coil heads)?"		
50	and packaging?		no research	14 x Patient
		"The total 'cost of vaping' for those still abstinent after		
		52 weeks compared to their expected tobacco		
	What are the financial cost savings of vaping	expenditure for the year." "What are long term costs of		
51	compared to smoking for the individual?	vaping compared to smoking".	more research would be useful	4 x HCP; 6 x Patient
		WA/hat are the financial implications for the		
	What are the financial implications for the	"What are the financial implications for the		
	What are the financial implications for the government, and the pharmaceutical and	government, and the pharmaceutical and tobacco		
	tobacco industry, of the introduction of e-	industry, of the introduction of e-cigarettes, in terms of loss of revenue from tax?" "How much money looses		
52	cigarettes, in terms of loss of revenue from tax?	the pharma industry because of electronic cigarettes?"	more research would be useful	1 x HCP; 3 x Patient
52	organolico, in termo or 1000 or revenue nom tax?	The phanna moustry because of electronic clyarelies!		

PSP unique dentifier allocated by ILA team)	Record ID (allocated by JLA team)	PSP Name	PSP Question ID	Total number of verified uncertainties identified by the PSP	The uncertainty (also called summary or indicative question). Ideally in a format that will ultimately be of value to the research community. Researchable, but not usually in research question format.	Explanatory note (a plain language summary of up to 150 words, explaining key points of the uncertainty and why it is important, for research funders to begin working on. PSPs may wish to include examples of the original survey submissions here). Also notes from the final workshop discussion may be useful.	Date of the priority setting workshop	Rank of the uncertainty at the final workshop. (If no rank was agreed, please indicate)	Evidence that the question is indeed unanswered. (reference, and weblink where available, to the most recent relevant systematic review identified by the PSP, plus a maximum of 2 other systematic reviews, including protocols for future systematic reviews, that the PSP considers relevant.)	HRCS code to be allocated by the J team unless the PSP prefers to
		E-cigarettes					20-Sep-19	1		complete this)
					What are the long term effects of					
			-	040	vaping? Compared to smoking, ex- smokers, never-smokers and NRT	Example of original uncertainty: "What are the long term effects of e-cigarette use?" "long term harms to health with relative risk			More longitudinal studies are needed. Some people have been vaping for 10 years now, so it	
		E-cigarettes	Т	212	use?	against non smoking and against tobacco"	20-Sep-19	2	is possible to now look at the long-term effects. Zulkifli, Aziemah, et al. "Electronic cigarettes: a	
									systematic review of available studies on health risk assessment." Reviews on environmental	
					What effect do the ingredients,	Example of original uncertainty: "How the ingredients in eliquid may or may not affect health. This must include various additives			health 33.1 (2018): 43-52. looks at 4 ingredients (nicotine, PG, glycerol, 1,2-propanediol). Only 4	
			ц	56	chemicals and flavourings have on health, and how does this differ from cigarettes?	such as sweeteners etc." "What ingredients in common e-juices are carcinogenic and what are the levels of carcinogens relative to cigarettes?"			studies. Inconsistent evidence. Would be useful to have human studies here rather than in vitro or mice studies	
		E-cigarettes		50	What effect does vaping in pregnancy (and when breastfeeding)		20-Sep-19	3		
					have on the health outcomes of the fetus and baby, compared to	Example of original uncertainty: "What are the effects of vaping			Very limited research in pregnancy, and some	
		E simerettes	м	16	smoking? Including any long term effects.	on the feotus?" "WHAT IS THE IMPACT ON BABIES GROWTH AND DEVELOPMENT"	00 Car 40	4	are concerned about the effect when breastfeeding.	
		E-cigarettes			How effective are e-cigarettes for	Example of original uncertainty: "Use in inpatient mental health settings - any association with smoking cessation longer term".	20-Sep-19	4		
					smoking cessation in patients with mental health problems? And what	most importantly the quitting rates on this cluster [mental health patients] (which shows a high prevalence) with a proper guidance			Very limited research for patients with mental	
		E-cigarettes	D	2	effect do they have on mental health? What are the barriers and facilitators	on their mental-care center."	20-Sep-19	5	health problems	
					for e-cigarette use for smoking cessation? What different barriers	Example of original uncertainty: "What stops people switching to				
			к	11	may exist for those with mental health problems or heavily dependent smokers?	e cigarettes? What are the psychological barriers? Doubts?" "What are common barriers and facilitators to using e-cigarettes to guit smoking?"			Some qualitative studies are available but much more research is needed.	
		E-cigarettes			How do e-cigarettes compare to		20-Sep-19	6	Some discussions in the workshop that this has already been answered. There is some evidence	
					other treatments for stopping smoking, in terms of effectiveness,	Example of original uncertainty: "What is the success rate			that e-cigarettes are effective for stopping smoking, but very limited research on long-term	
		E-cigarettes	Q	92	cost-effectiveness, long-term abstinence, and relapse to smoking?	compared to other methods of quitting smoking?" "What are the relapse rate for quitters using E cigs compared to NRT?"	20-Sep-19	7	abstinence and relapse to smoking, and this was felt to be a priority.	
		∟-orgar ettes					20-00p-19	,	Cann, K. F., K. D. Heneghan, and T. Knight.	
						Example of original uncertainty: "Why do so many businesses,			"The impact of restricting the use of e-cigarettes in public places: a systematic review." Journal of	
					What impact do restrictions on vaping (e.g. including vaping in	councils and health care trusts include vaping in their smoke free policies?" "The impact of public use bans, specifically by health			Public Health 40.3 (2017): 533-539. SR looks at restrictions of vaping in public places and impact	
					smoke free policies; age limits; tank size) have on smoking behaviour and smoking cessation? as well as	trusts treating vaping as smoking, on the uptake and perception of smokers toward vaping." "What measures would increase the number of employers, cafés and public houses that welcome			on switching behaviour. (no studies were found for this). Secondary question looked at ability to use e-cigarettes in public places as a reason for	
		E-cigarettes	U	45	perceptions of harm from vaping? What testing should be done on the	considerate vaping?" Example of original uncertainty: "What tests are done on different	20-Sep-19	8	use and attitudes towards this among smokers.	
			L	18	flavourings, ingredients and devices to ensure they are safe?	eliquid flavourings?" "Why aren't ingredients of the flavourings required to be listed?"			More research would be useful	
		E-cigarettes			Will prescribing e-cigarettes to		20-Sep-19	9	One trial has been conducted on financial incentives for quitting smoking in pregnancy.	
			0	1	pregnant smokers encourage smoking cessation, and reduce risk of relapse?	Example of original uncertainty: "CAN WE PRESCRIBE FOR INPATIENTS IN MATERNITY SERVICES AS A CHOICE"			More research is needed to determine whether e cigarettes should be available on prescription for pregnant smokers.	
		E-cigarettes			What effect does second hand vape	Example of original uncertainty: "Is there 'second hand smoke' type implications from being around people who vape?" "Are they	20-Sep-19	10		
					have on adults (including pregnant women), children and animals, and	safe to use around babies/children?". "I would also like to see some research on the effect on household pets of people who			Discussions in the workshop suggested that if there is more evidence on second hand vape	
		E-cigarettes	R	85	how does this compare to second hand smoke? How are e-cigarettes represented in	vape in their homes, as I have read that PG can be harmful to cats and dogs."	20-Sep-19	11	(i.e that it is not harmful) then more people might be inclined to switch to vaping from smoking. Collins, Lauren, et al. "E-cigarette marketing and	
		E-Cigarettes			the media? And what impact does this have on public perceptions,		20-360-19	11	communication: how e-cigarette marketing and e-cigarettes and the public engages with e-cigarette	
					attitudes and behaviours?				information." Nicotine and Tobacco Research 21.1 (2018): 14-24. (SR explores how marketing may	
									affect perceptions but doesn't assess the effect on behaviour/smoking/cessation. Looks at portrayal in	
									the media too). Particularly relevant now given the recent deaths in America from vaping, and how this	
			-			Example of original uncertainty: "Should they be allowed to be advertised?" "The impact on perceptions of vaping caused by the			has been reported in the UK.	
		E-cigarettes	C	16	Can advice from healthcare	media from misreporting and exaggerating claims." Example of original uncertainty: "Should dentists recommend e-	20-Sep-19	12		
					for smoking cessation if accurate information is provided about e-	cigs to smokers?" "What should the advice or support offer from GPs, pharmacists, newsagents, smoking cessation professionals				
		E-cigarettes	S	10	cigarettes?	look like?"	20-Sep-19	13	More research is needed on this.	
						Example of original uncertainty: "Will stop smoking services ever				
		E-cigarettes	1	14	or treatment guidelines? How will this differ for different populations?	recommend/offer ecigarettes as a means of quitting?" "What happens if you provide e-cigarettes and vape liquid on the NHS?"	20-Sep-19	14	Some information available through NCSCT, but more research is needed.	
					What impact do flavourings have on		20 000-10		Qualitative and anecdotal evidence suggests that flavours are really useful for helping people	
					e-cigarette usage, smoking behaviour and health, in adults and	Example of original uncertainty: "Do different eliquid flavourings have different health implications?" "Role of flavours/product			quit smoking. More evidence on this would be useful to strengthen the argument that flavours	
		E-cigarettes	N B	68 158	children, and smokers and non- smokers? What are the short term effects of	variability in keeping adult smokers with histories of failed quit attempts off of cigarettes." Example of original uncertainty: "Short term health effects";	20-Sep-19	15	are essential, especially given the fact that some states in America are now banning flavours.	
		∟-orgar eutes	5	100	vnat are the short term effects of vaping? Compared to smoking, ex- smokers, never-smokers and NRT	"What are the short-term harms of vaping compared to tobacco smoking"	20-0 <del>0</del> µ*19	10	Although PHE do state that the evidence suggests e- cigarettes are 95% safer than smoking, with the recent deaths in America from vaping more research	
					use?	-			and evidence would give weight to this position statement, particularly if we can have more research	
									on a broader range of biomarkers.	
		E-cigarettes	A	3	How can hospitals better support patients to stop or reduce their smoking with the use of a cirarottas?	Example of original uncertainty: "Can ecigs be effective in an acute hospital setting (general or mental health) to help reduce proving rates (empty free provings) " With the provider proving acute hospital setting (general or mental health) to help reduce to the setting (general health) and the setting of the setting acute hospital setting (general health) and acute hospital setting (general health) and acute hospital setting (general health) acute health) and acute hospital setting (general health) acute health acute hospital setting (general health) acute health acute health acu	20-Sep-19	16	No research on this. Recently a trust in Birmingham has opened a vape shop in the hospital, but as yet	
					smoking with the use of e-cigarettes?	smoking rates (smokefree policies)." With the smokefree policy coming into force to ensure hospitals are smokefree, allowing patients to vape on site can help with them remaining smoke free			there is no evidence on the effect this has had.	
		E-cigarettes				at hospital.	20-Sep-19	17		
			0		How effective are e-cigarettes in pregnancy for smoking cessation?	Example of original uncertainty: "Quit rates compared to licensed			Very limited research in pregnancy, but a trial is underway: PREP trial (Pregnancy Trial of E-	
		E-cigarettes	G	4	And compared to other treatment	pharmacotherapy, in preg women". Example of original uncertainty: "Is nicotine less addictive when used then it is when smoked in a traditional signatura?" I would	20-Sep-19	18	cigarettes and Patches).	
			F	51	How addictive are e-cigarettes compared with regular cigarettes?	vaped than it is when smoked in a traditional cigarette?" "I would like the question to be answered, 'is nicotine still addictive outside of smoking' once and for all".			More research would be useful	
		E-cigarettes			ompared with regular organities :		20-Sep-19	19	Thomas, Kyla H., et al. "How do smoking cessation medicines compare with respect to their	
									neuropsychiatric safety? A protocol for a systematic review, network meta-analysis and cost-	
									effectiveness analysis." BMJ open 7.6 (2017): e015414. SR only concerned with 18 years and	
									older. Comparing different treatments and effect on neuropsychiatric safety. Hefner, Kathryn, Gerald	-
									Valentine, and Mehmet Sofuoglu. "Electronic cigarettes and mental illness: Reviewing the	
									evidence for help and harm among those with psychiatric and substance use disorders." The American journal on addictions 26.4 (2017): 306-	
					What effect does vaping have on mental health, including any risks and	Example of original uncertainty: "What effect does e-cigarette use have on mental health issues?" "Is nicotine beneficial for people			American journal on addictions 26.4 (2017): 306- 315. Looks at perceptions of ecigs and impact on tobacco use in adults. Doesn't look at health effects,	
			Y	10	benefits? In adults, children and young people.	with mental health conditions? And if it is then is there any discernible difference between vaping and smoking for them?"			risks and benefits.	
		E-cigarettes				Example of original uncertainty: "For non-smokers/never- smokers, who start to use vapor-products - what could the health	20-Sep-19	20		
						consequences be - compared to initiation of smoking instead? this is not referring to passive vape. I am thinking of one person the particular who wanted to know if it would be barging if a pair to				
		1	1	1	L.,	in particular who wanted to know if it would be harmful for him to start vaping. He is an ex-smoker (quit for over 30 years) but still			No research on this. Very few people vape who	1

E-cigarettes				Example of original uncertainty: "How to motivate smokers to try	20-Sep-19	21	
			How can we motivate smokers to try	provided to people that may be otherwise reluctant to try them or			
	Х	10	e-cigarettes for smoking cessation?	reluctant to visit a vape shop?"			No research on this.
E-cigarettes				Example of original uncertainty: "What is the most effective way	20-Sep-19	22	
			What are the views of healthcare	of increasing knowledge about vaping amongst health			
			professionals of e-cigarettes for	professionals, particularly within primary care?" "Why do health			
			smoking cessation (including in	care professionals still continue to insist that vaping is harmful			
			pregnancy)? And how can we	and how do we better educate them in passing on the correct			More research is needed on education and
	Р	28	improve knowledge?	information regarding vaping?"			training for healthcare professionals.
E-cigarettes			What is the best way to educate		20-Sep-19	23	
			adults and children about vaping, and	Example of original uncertainty: "Is there a consumer guide on			
				different vaping products that would tell me about nicotine			
			products and device safety (including	delivery, ease of use, cost, safety concerns?" "I'd like to see			
	E			better information for new vapers about battery safety."			No systematic reviews on this.
E-cigarettes			How safe are e-cigarettes in		20-Sep-19	24	
Ū			pregnancy, compared to smoking	Example of original uncertainty: "Are e cigarettes safe to use in			
	W		and NRT use?				Very limited research in pregnancy.
E-cigarettes				Example of original uncertainty: "Does nicotine really harm teen's	20-Sep-19	25	
			What are the risks and benefits of				
			nicotine consumption, and/or nicotine				Limited research on this. Most of the research is
	z		cessation?	toxic as many would have us believe?"			in animals. More studies with humans is needed.
E-cigarettes					20-Sep-19	26	Abidin, Najihah Zainol, et al. "Electronic
							cigarettes and indoor air quality: a review of
							studies using human volunteers." Reviews on
							environmental health 32.3 (2017): 235-244.
							(Few studies, and inconsistent evidence).
							Fernández, Esteve, et al. "Particulate matter
							from electronic cigarettes and conventional
							cigarettes: a systematic review and
			What are the impacts of vaning on	Example of original uncertainty: "What are the short medium and			observational study." Current environmental
							health reports 2.4 (2015): 423-429. (literature
			how does this compare to other air	with high levels of air pollution". "Secondhand vapor compared to			review and an observational study. Not a meta
			non account compare to other an	internight let ele el an pendalent i deconditiand vapor compared to	1	1	retrett and an observational study. Not a mota
	E-cigarettes	E-cigarettes E-cig	x     10       E-cigarettes     P       E-cigarettes     E       E-cigarettes     W       E-cigarettes     31	Image: Second	Image: Second	Image: Section of the section of th	X       10       and stick with 'aping''. 'How can ecigarettes be promoted or reluctant to try them or reluctant to visit a vape shop?"       indext and be otherwise reluctant to try them or reluctant to visit a vape shop?"       20-Sep-19       22         E-cigarettes       What are the views of healthcare professionals of e-cigarettes for smoking cessation (n-citaling) within primary care? "Why do health and how do we better educate them in passing on the correct information regarding vaping?"       20-Sep-19       22         P       28       What is the best way to educate them in passing on the correct information regarding vaping?"       20-Sep-19       23         E-cigarettes       What is the best way to educate them in passing on the correct information regarding vaping?"       20-Sep-19       23         E-cigarettes       What is the best way to educate them in passing on the correct information regarding vaping?"       20-Sep-19       23         W       8       and NRT use?       costs after (concerns? " Vilk to to see better information for new vapers about battery safety."       20-Sep-19       24         E-cigarettes       How safe are e-cigarettes in pregnancy." Are the visa of original uncertainty: "Are e cigarettes safe to use in contine consumption, and/or nicotine indevices health and mental incertainty." What are the risks and benefits of nicotine consumption, and/or nicotine indevicing anis? "What are nicotine's health and mental incertainty." What are the short, medium and indevice short waper?"       20-Sep-19       24         E-cigarettes

Amended TG May 2019