

# Product Use Behaviour Sub-Group (PUB) 2018 PUB SG Report

Coordinator: Dr Krishna Prasad (BAT) Secretary/ SC Liaison: Dr Xavier Cahours (ITG)

24 October 2018

Kunming, China



- Existing and emerging regulation for introducing NGPs
- Number of Product Use Behaviour measurements required:
  - Sensory Experience
  - Level of consumption
  - Puffing Topography
  - Intention to use/quit
  - Ability to understand & comply with 'use instruction'/ potential misuse
  - Abuse Liability Assessment
  - Perception & Comprehension of NGP 'modified risk communication'
  - Pattern of use



- 1. Critique and review published papers on all aspects of tobacco and related products' use behaviour, and publish in peer-reviewed journals.
- 2. Examine unpublished reports and work on the subject with a view to recommending publication of suitable papers in peer-reviewed journals.
- 3. Identify gaps in total knowledge and suggest suitable work to provide the necessary information.



# **Outline: 2018 Activities**

- 1. TSB-115-NWIP: eCig literature review
- 2. PUB-155-NWIP: Reference Cigarettes for Human Studies update
- 3. PUB-156-NWIP: Abuse liability assessment review update
- 4. PUB-169-NWIP: VLNC review update
- 5. PUB-182-NWIP: SRNT Commentary update
- 6. PUB-190-NWIP: Formation of CROM Task Force
- 7. Knowledge Sharing
- 8. Next steps



# **1.0 TSB-115-NWIP**



## **New Work Item Proposal**

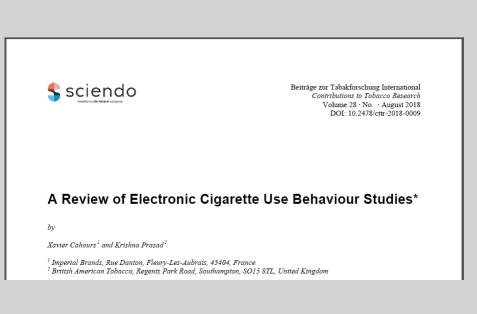
STDS-002-CCA-C2\_New Work Item Proposal-160520

p be completed by the Proposer	To be completed by the CORESTA Secretariat		
Proposal date (all dates in YYMMDD format): 160529	Date Received by Secretariat: 160603		
Proposer (Individual or Working Group) TSB	Reference number: 115		
Submitted by: (Name, Organization): Krishna Prasad	Date forwarded to the Scientific Commission 160610		
On behalf of (Organization, if different from above):	Deadline for answer by Scientific Commission 160624		

- Literature review of e-cig use-behaviour studies published in peer reviewed journals to build a comprehensive knowledgebase.
- Use this review to identify gaps in the knowledge and propose relevant studies that the PUB sub-group should initiate to fill the gaps.



- Literature review of e-cig usebehaviour studies submitted: 12th June 2018 – accepted: 16th August 2018
- Published in Beiträge zur Tabakforschung International
- Project team set up to address the identified gaps in the knowledge and propose relevant studies





Develop reference cigarettes similar to Kentucky Reference for use in Human Studies

- The proposed tar yield does not reflect all markets, e.g. US market
- Any new product will require ITP approval for introduction in the US
- For some other markets, an authorization may be needed
- With a reference cigarette that is not users' own brand, a familiarization may be required

\* SC meeting in the US 2018

# New Work Item Proposal

STDS-002-CCA-C2\_New Work Item Proposal-160520

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o be completed by the Proposer Proposal date (all dates in YYMMDD former) 170721	To be completed by the CORESTA Secretariat Date Received by Secretariat: 170721
Proposer (Individual or Working Group) PUB	Reference number: 155
Submitted by: (Name, Organization): Krishna Prasad	Date forwarded to the Scientific Commission 170724
On behalf of (Organization, if different from above): CORESTA	Deadline for answer by Scientific Commission 170804



# COREST

# **New Work Item Proposal**

STDS-002-CCA-C2\_New Work Item Proposal-170306

$\frac{1}{2}$ p be completed by the Proposer	To be completed by the CORESTA Secretariat		
Proposal date (all dates in YYMMDD format):	Date Received by Secretariat:		
170721	170721		
Proposer (Individual or Working Group)	Reference number:		
Krishna Prasad (PUB)	156		
Submitted by: (Name, Organization):	Date forwarded to the Scientific Commission		
Michael Kong, <u>Altasciences</u> Clinical Research	170724		
On behalf of (Organization, if different from above): CORESTA	Deadline for answer by Scientific Commission 170804		

Prepare a position paper that summarizes current human abuse liability research as they relate to the development of tobacco products.

- applicability of abuse liability assessment methods used
- regulatory requirements and challenges
- novel tobacco-specific models or avenues of research needing attention.



COREST

# Framework established

- 1. traditional methods for abuse liability testing
- 2. attractiveness and product appeal considerations
- 3. PMTA submissions, feedback and case studies
- 4. perspective from international jurisdictions (eg: EMA/WHO)

First draft in preparation Q4 2018

Submit manuscript Q2 2019





#### **New Work Item Proposal**

STDS-002-CCA-C2\_New Work Item Proposal-170306

To be completed by the Proposer	To be completed by the CORESTA Secretariat		
Proposal date (all dates in YYMMDD format):	Date Received by Secretariat:		
170922	171023		
<b>Proposer</b> (Individual or Working Group)	Reference number:		
Product Use Behaviour Subgroup	169		
Submitted by: (Name, Organization): Mohamadi Sarkar, ALCS	Date forwarded to the Scientific Commission 171117		
<b>On behalf of</b> (Organization, if different from above):	Deadline for answer by Scientific Commission		
Product Use Behaviour Subgroup	171127		

Summarizes current knowledge on the potential impact of VLNC

#### To demonstrate:

A) estimated daily exposure level is at or below the actual human nicotine addiction threshold

B) critical number of current cigarette smokers who switch to use only VLNC products will quit

C) sufficient reduction in the number of non-smokers (especially youth) who initiate smoking VLNC



#### Framework established

- 1. Does the reduction of nicotine content in cigarettes to a very low level modify cigarette use patterns?
- 2. Restricted to clinical, behavioural and perceptual studies in Man
- 3. Limited to studies among current cigarette smokers
  - No studies have been found which examine the effects of VLNC on initiation to cigarette use

Writing team: Mohamadi Sakar (Altria) with the participation of Paul Nelson (RAI), Jeff Smith (RAI), Javier Matinez (JTI), Xavier Cahours (Imperial), Krishna Prasad (BAT) and Neil Sherwood (Independent Consultant)

#### Final draft in preparation, target: Q4 2018; Submission dates, target: Q2 2019





## New Work Item Proposal

STDS-002-CCA-C2\_New Work Item Proposal-170306

To be completed by the Proposer	To be completed by the CORESTA Secretariat	
Proposal date (all dates in YYMMDD format): 180315	Date Received by Secretariat: 180315	
<b>Proposer</b> (Individual or Working Group) Product Use Behaviour Sub-Group	Reference number: 182	
Submitted by: (Name, Organization): Xavier Cahours, Krishna Prasad	Date forwarded to the Scientific Commission 180319	
On behalf of (Organization, if different from above):	Deadline for answer by Scientific Commission 180329	

Present a commentary based on Cahours & Prasad 2018, E-cig review and CORESTA Guide No. 22, for a publication in SRNT journal.

Submitted on 29 August 2018 Manuscript Id. NTR-2018-305 Awaiting reviewers comments!



# **SRNT Commentary**

- How individuals use these products has strong implications for nicotine intake and exposure to other potential toxicants
- Review reported a wide variations in puff volume, puff duration and inter-puff interval across products, settings, and individuals
- Puffing regime for regulation is difficult, CORESTA Recommended Method No. 81 lays out the essential requirements
- The amount of aerosol generated can be influenced by a number of factors, including product design, vaping topography, and device setting as highlighted in the review.
- Parameters that need to be considered include puff duration, puff volume, puff frequency, puff profile, puff number, battery charge status, coil or atomiser age, voltage setting, ventilation setting, and device orientation.
- These parameters are not independent and the settings should be based on representative human usage rather than the maximum extremes of each individual parameter.



# 5.0 PUB-182-NWIP

#### 🔍 Reply 🕼 Reply All 🖂 Forward 🖏 IM

Wed 29/08/2018 16:57

Nicotine & Tobacco Research <onbehalfof@manuscriptcentral.com>

Nicotine & Tobacco Research - Manuscript ID NTR-2018-305

To 🛛 🛛 Krishna Prasad

Ν

Cc O Xavier.CAHOURS@fr.imptob.com; O Krishna Prasad

[ This is an EXTERNAL email ]

29-Aug-2018

Dear Dr Prasad

Your manuscript entitled "Factors to consider in arriving at a puffing regime to represent intense ENDS use" has been successfully submitted online and is presently being evaluated for consideration for publication in Nicotine & Tobacco Research.

If you have followed the author guidelines in preparing and submitting your manuscript, it will be forwarded to the editors for evaluation. If your manuscript does not comply with the guidelines, you will be asked to bring it into compliance before the manuscript is considered for review.

Your manuscript ID is NTR-2018-305.

Please mention the above manuscript ID in all future correspondence or when calling the office for questions. If there are any changes in your street address or e-mail address, please log in to ScholarOne Manuscripts at <a href="https://mc.manuscripteentral.com/ntr">https://mc.manuscripteentral.com/ntr</a> and edit your user information as appropriate.

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Please note that all future communications concerning this manuscript will be directed to the Corresponding Author only.

Thank you for submitting your manuscript to Nicotine & Tobacco Research.

Yours sincerely,

Margaret Searle Managing Editor, Nicotine & Tobacco Research Email: <u>ntr.editorialoffice@oup.com</u>

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	Start New Submission	>
	Legacy Instructions	>
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#### Submitted Manuscripts

STATUS	ID	TITLE	CREATED	SUBMITTED
EO: Searle, Margaret	NTR-2018- 305	Factors to consider in arriving at a puffing regime to represent intense ENDS use View Submission	20-Apr-2018	29-Aug-2018
<ul> <li>Awaiting Reviewer Scores</li> </ul>				

#### Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac Cooperation Centre for Scientific Research Relative to Tobacco



# 5.0 PUB-190-NWIP



## **New Work Item Proposal**

STDS-002-CCA-C2\_New Work Item Proposal-170306

To be completed by the Proposer	To be completed by the CORESTA Secretariat		
Proposal date (all dates in YYMMDD format): 180503	Date Received by Secretariat: 180529		
<b>Proposer</b> (Individual or Working Group) Krishna Prasad, PUB Coordinator	Reference number: 190		
Submitted by: (Name, Organization): Krishna Prasad, BAT	Date forwarded to the Scientific Commission 180530		
On behalf of (Organization, if different from above):	Deadline for answer by Scientific Commission 180607 (SC meeting)		

Development and validation of Consumer Reported Outcome Measures (CROM) for the Global Tobacco Industry using a Consortium approach



#### CROM top line objectives:

- 1. Develop CROM approach for Tobacco and Nicotine Products under guidance of industry, academia and regulatory agency stakeholders
- 2. Adopt validation guidelines for CROM for use in the assessment of products with reduced risk potential and
- 3. Create a repository of existing and new CROM instruments outlining measurement and validation approaches
- CROM TF set up introductory meeting held 22 Oct 2018,
  - > Coordinator, Rapporteur, Working Group members for Phase 0 selected
  - Address how CROM would help meet the needs identified in this area

Draft WG report summarising the output - May 2019



# **Knowledge Sharing**

- Perceptions of the relative harm of electronic cigarettes compared with smoking in the USA
- Review of analytical approaches to assess transitions in patterns of tobacco product use in the population
- Patterns of use behaviour in a sample of Japanese Heat not Burn Tobacco Product users
- Characterisation of puffing topography of a prototype electronic cigarette in adult exclusive cigarette smokers and adult exclusive e-cigarette users
- Tobacco Computational Modelling Meeting NYU College of Global Public Health 23-24 July 2018



# 8.0 Next Steps

No.	Description	Who	When
1	NWIP 115 – Complete e-cig literature review published	XC/KP	Aug 18
2	NWIP 155 - Cancelled Manufacture a 7mg reference Cigarette	-	-
3	NWIP 156 – First draft Abuse Liability paper for review	MK/KP	Feb 19
4	NWIP 169 – VLNC outline agreed first draft for review	NS/KP	Feb 19
5	NWIP 182 – SRNT commentary submitted next steps	XC/KP	TBC
6	NWIP 190 – CROM TF WG1 draft report	CC/KP	May 19
7	Submit Abuse Liability review manuscript for SC approval	KP/XC	Q2 19
8	Submit VLNC review manuscript for SC approval	KP/XC	Q2 19
9	Next meeting Spring 2019 – Montreal, Canada	GG/KP	Q2 19



# **Any Questions?**

PUB SG Report 2018 Congress, Kunming – 181024 Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac Cooperation Centre for Scientific Research Relative to Tobacco