

## **Product Use Behaviour (PUB) Sub-Group**

2019 Annual report

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Secretary/ SC Liaison: Dr Xavier Cahours (IMB)

07 October 2019

Hamburg, Germany



#### **Product Use Behaviour Measurements**

#### As part of the 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



## **CORESTA PUB Sub-Group: Objectives**

- Critique and review published papers on all aspects of tobacco and related products' use behaviour, and publish in peer-reviewed journals.
- Examine unpublished reports and work on the subject with a view to recommending publication of suitable papers in peer-reviewed journals.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: 2019 Activities**

- 1. eCig literature review proposals to fill identified gaps
- 2. PUB-156-NWIP: Abuse liability assessment review update
- 3. PUB-169-NWIP: VLNC review update
- 4. PUB-190-NWIP: Formation of CROM Task Force
- 5. Unpublished reports
- 6. Next steps



## 1.0 Proposals to fill the gaps identified

- Comparison of methods /protocols/ devices for vaping topography assessment
- Vaping topography comparison of populations / sub-populations
- Comparison of vaping topography for different products
- Topography assessment with heated tobacco products
- Assess the Product Use Pattern of heated tobacco products
- Assess the Product Use Pattern of e-cigarettes



## **Next Steps**

Following a survey of members the following topics have been short listed

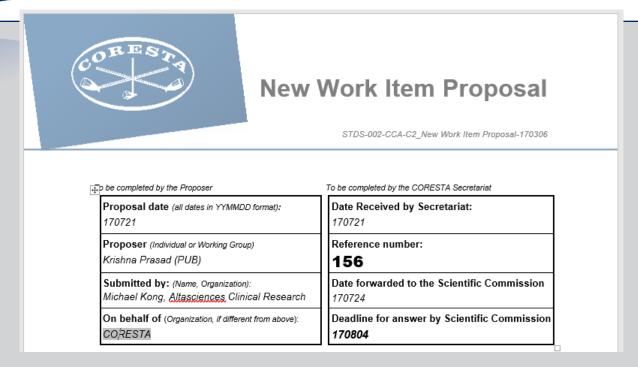
- Topography assessment of heated tobacco products
- Product Use Pattern assessment of heated tobacco products
- Product Use Pattern assessment of e-cigarettes

Identify appropriate workstream leads Q4 2019

Prepare NWIP to design and execute the studies Q1 2020



#### **2.0 PUB-156-NWIP**



## Review of Human Abuse Liability (HAL) Assessment with Reference to Tobacco and Nicotine Products



# Review of Human Abuse Liability (HAL) Assessment with Reference to Tobacco and Nicotine Products

### **Writing Committee responsible**

Michael Kong Altasciences Clinical Research

Andrea Vansickel Altria Client Services

Leanne Campbell RAI Services

Sarah Baxter Wright RAI Services

Neil Sherwood Independent Consultant

Sarah Evans Turning Point Brands



# Review of Human Abuse Liability Assessment with Reference to Tobacco and Nicotine Products

#### **Document Outline**

- Section 1: Overview of methods for HAL testing
  - Review of current methods borrowed from pharma assessments and unique to tobacco research
  - Relevance of current HAL methods to tobacco products
- Section 2: Industry experience with regulators
  - Section status is being considered, awaiting contribution from members
- Section 3: Role of attractiveness and product appeal in product use and dependence
- Section 4: International perspective on product appeal and abuse liability of tobacco products



# Review of Human Abuse Liability Assessment with Reference to Tobacco and Nicotine Products

#### **Current Status**

Individual document sections have been drafted by writing leads

 Draft sections have been consolidated into a single working document and the document has been revised to align information across sections

Draft document has been shared with stakeholders for review and feedback



# Review of Human Abuse Liability Assessment with Reference to Tobacco and Nicotine Products

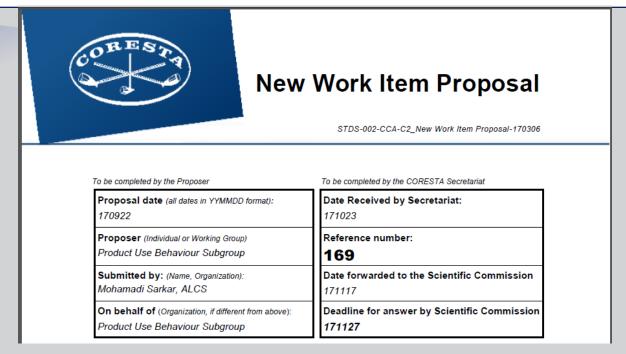
## **Next Steps**

- Nov 2019: Draft document reviewed by internal stakeholders (includes time for 2 review cycles)
- Q1 2020: Final document reviewed through stakeholder's required review processes
- Q2 2020: HAL Review finalized and submitted to target Journal

ST12 – Session 3 Today 07/10/2019



#### **3.0 PUB-169-NWIP**



To conduct a systematic review of publicly available study designs and methods used to evaluate VLNC in adult users of tobacco products



#### **VLNC Review - Team**

## **Writing Committee responsible**

Mohamadi Sakar
Altria Client Services

Paul Nelson
RAI Services

Jeff Smith
RAI Services

Neil Sherwood Independent Consultant

Javier Matinez / Kelli Sayers JTI

Xavier Cahours Imperial Brands

Krishna Prasad BAT



## **VLNC Review - Purpose**

To conduct a systematic review of publicly available study designs and methods used to evaluate VLNC in adult users of tobacco products

#### **Review Framework**

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



#### **VLNC Review - Method**

### Studies in the available literature, grouped into four categories:

- 1. cessation among smoker subjects when switching to VLNC
- 2. changes in product exposure (e.g. CPD, biomarkers) when switching to VLNC
- 3. changes in product use (e.g. topography) when switching to VLNC
- 4. changes in attitudes (e.g. risk perception) when switching to VLNC



#### **VLNC Review - Narrative**

- 1. Are these studies credible when judged against appropriate / acceptable tobacco clinical study design standards?
  - If so, what conclusions may be drawn?
  - If not, what are the common strengths and weaknesses in these studies?
- 2. What issues need to be considered in conducting human studies of VLNC and what would an "ideal" study design look like?

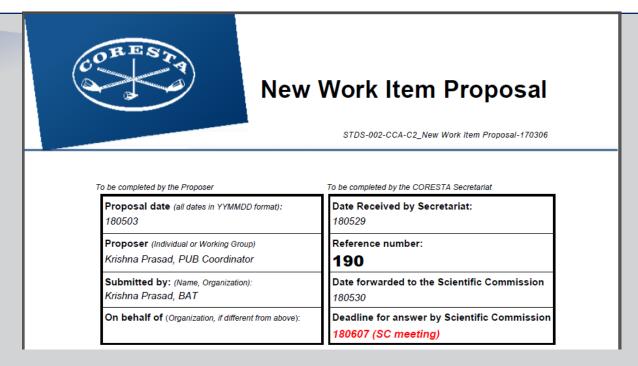
### **Next Steps:**

> Final Draft in preparation, followed by team review and submission planned Q1 2020

ST51 – Session 12 Thursday 10/10/2019



#### 4.0 PUB-190-NWIP



## Establish Best Practice & Guidelines for Consumer Reported Outcome Measures (CROM) using a Consortium approach



## The path towards a CROM Consortium



Kitzbuehl SSPT 2017 10/07/2017 Presentation history FDA PRO guidance

Develop similar project around CROM?



Geneva PUB SG 2018 04/04/2018



Create NWIP



SC meeting 06/07/2018 CROM Task Force officially created



Kunming CORESTA 2018 10/22/2018 CROM TF 1st meeting

Creation of a WG0 and activities launch



✓ Oversee devt ✓ Prepare work plans

✓ Clarify

goals

**6 TCs** (11/2018 – 05/2019)



Montreal PUB/CROM TF 05/24/2019 CROM TF 2nd meeting

Presentation of findings (goals, definition, review, taxonomy)



1 TC (07/2019): to refine WG0 work, discuss funding and prepare poster for SSPT 2019 Hamburg



## Where are we on WG0 objectives?

1. Clarify the goals of the Consortium, the research questions and the scope of work

✓ Done

2. Oversee the development of the CROM Consortium: governance, structure, budget and funding mechanisms, engagement with 3<sup>rd</sup> parties

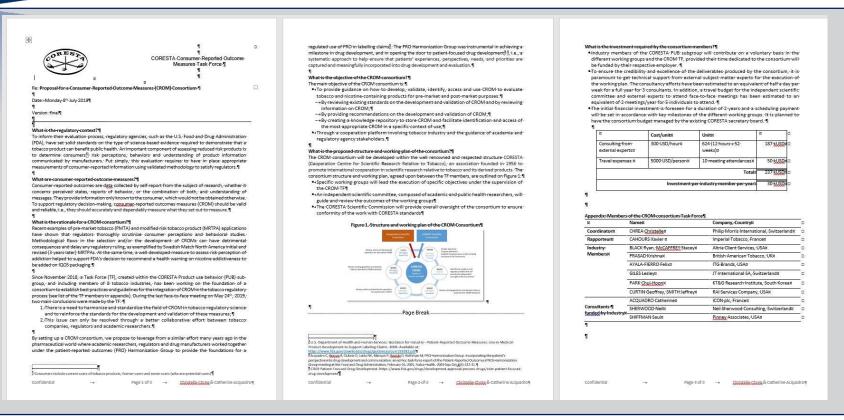
✓ On-going

3. Prepare execution of future phases: work plans, working groups (WGs)

✓ Initiated



#### **Business Case for CROM**





## **Building the CROM Consortium**

## **Next Steps**

Will be presented at the CROM TF report in the afternoon

STPOST 58 - Session 8 Tuesday 08/10/2019



## **5.0 Unpublished Reports**

- Vapor topography instrumentation
- Human Abuse Liability measurement
- Risk Perception Meta analysis from PATH study
- D2L measurement for BfTG e.V.
- Adaptation of SPA-M to measure vaping puff topography
- Methodologies to assess nicotine cognitive effects
- E-cig Button Press Duration as a Proxy for Aerosol delivery



## **6.0 Next Steps**

No.	Description	Who	When
1	NWIP 156 – Complete Sub-Group review of HAL document	SB/KP	Q4 19
2	NWIP 156 – Final HAL document review by stakeholders	SB/KP	Q1 20
3	NWIP 156 – Submit HAL Review for publication	SB/KP	Q2 20
4	NWIP 169 – First draft of VLNC review by Sub-Group	NS/KP	Q4 19
5	NWIP 169 – Final VLNC document review by stakeholders	NS/KP	Q1 20
6	NWIP 169 – Submit VLNC Review for publication	NS/KP	Q2 20
7	Draft NWIP for the proposed NGP use-behaviour collaboration	KP/XC	Q1 20
8	Next meeting Spring 2020 – Celerion in Belfast	KP/GLP	May 20

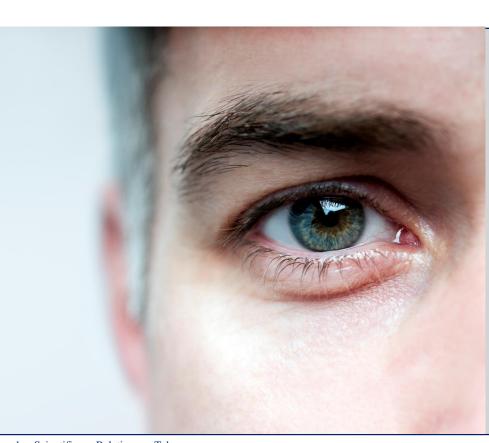


## **Big Thank You to all the contributors**

**Any Questions?** 



What does the future hold for Product Use Behaviour Research?





## **Future of PUB Research**

'You've got rigour but we've got vigour'.

Tech Start-up in Consumer Research Field





#### **Future of PUB Research**

Exploring the dynamics of human behaviour and the patterns in use behaviour can help us better understand how consumers will respond to new innovations and products.





### **Future of PUB Research**

Are we really utilising technology to its full advantage or just using it to do what we have always done?





## The future for PUB research

Using technology to heighten our understanding of human experience

Touchpoints with technology throughout the day –customer

