

Heat-not-Burn Products: Perception and Behavior Assessment Program Overview

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### Developing Scientific Evidence: An Overview of PMI's Approach



# **Preparing for Risk Communications**

#### PMI's Objective

# **Commercialize products** which:

- a) Reduce the health risks of smoking compared to combustible cigarettes;
- b) Are accepted by adult smokers and used instead of combustible cigarettes; and
- c) Reduce overall harm to the population

# Balanced, scientifically substantiated communication

...can encourage adult smokers to switch to the products and <u>not</u> encourage use by non-smokers

#### Perception and Behavior Assessment

PMI has a comprehensive pre-market program in place to assess the impact of potential communication on:

- Intent to use
- Comprehension
- Risk perception
- Usage

### **Three Key Areas of Investigation**

Effect on Tobacco Use Behavior Among Adult Smokers Effect on Tobacco Use Initiation Among Adult Non-Smokers

Assessing the likelihood that adult smokers:

- will switch from cigarettes to iQOS
- use *iQOS* in conjunction with cigarettes
- switch back to cigarettes

Assessing the likelihood that adult <u>never smokers</u> and adult <u>former smokers</u> will initiate use of *iQOS*  Effect on Consumer Understanding and Perceptions

Assessing the effect potential communications will have on:

- enabling the public to comprehend information concerning modified exposure or risk claims
- public perception about the health risks of using iQOS in comparison to on-going smoking, NRTs and cessation



### **Extended Program Overview** *Supporting an FDA MRTPA application*





### **Risk Perception and Intent to Use Instruments**

#### PMI's Objective

Develop and validate measurement instruments to assess...

- level of perceived risks
- intent to use

...associated with different tobacco and nicotine-containing products



- Multi-country approach including North America, Asia and Europe
- Applicable to additional countries/languages by following best practice guidelines for language translation and cultural adaptation of PRO instruments (ISPOR)

#### Development and validation follows best practice guidelines



Ref: https://www.pmiscience.com/library/perceived-risk-instrument-pri-measure-perceived-risks-associated-use-nicotine-and-tobacco

## **Development follows a rigorous process...**

... and is based on FDA Guidance on Patient-Reported Outcomes

#### Phase 1: Initial Development

Development of a draft instrument tested for Expert panels and literature review Focus Groups (n=29) comprehension

#### **Phase 2: Item Reduction**

Pilot instrument field-tested in large sample Revise or eliminate items and finalize instrument

#### Phase 3: Validation

Assessment of reliability, validity and ability to detect change

Cognitive Debrief Interviews (n=98)

Cross-sectional online survey (n=2,020)

Cross-sectional online survey (n=1,640)



### **Perceived Risk Instrument – Example**

#### Perceived Risk Instrument domains:

#### a) Health Risk

(18 items)

### **b) Addiction Risk** (7 items)

**c) Harm to Others** (2 items)

	No risk	Low risk	Moderate risk	High risk	Very high risk	Don't know
having a bad cough that lasts for days	C	C	C	C	C	C
having poor gum health	C	C	C	C	С	C
having lung cancer	C	C	c	C	С	c
occasional wheezing (difficult breathing that produces a sound)	c	c	c	C	с	c
having mouth or throat cancer	C	C	C	C	c	C
aging faster (for example, wrinkles on the face)	c	c	C	C	c	r



### **Intent to Use Questionnaire – Example**

	Based on what you know about THS 2.2, how likely or unlikely are you											
Intention to Try item		Definitely not	Very unlikely	Somewhat unlikely	Somewhat likely	Very likely	Definitely	y				
(i.e. to sample)	to try THS 2.2	С	C	C	c	c	c					
Intention	A. If you try THS 2.2 and like it, how likely or unlikely are you											
Intention to Use items		Definitely Very not unlikely	Somewhat unlikely		Very likely Defini	itely						
(i.e. continued	to use THS 2.2 regularly	c c	C,	C	c c							
usage)								-1				
	29. B. If you try THS 2.2 and like it, how soon would you begin to											
			and a constant of the second			and the second sec	ore than months No	ever				
	29-7 use THS 2.2	2 regularly	c	c	C	c	C	c				



## **Preparing for Risk Communications**



The ability to make balanced, scientifically substantiated **communications is critical to encourage adult smokers to switch** to Reduced Risk Products

PMI's comprehensive pre-market Perception and Behavioral Assessment program is designed to help **understand the perception of Reduced Risk Product claims** and the way in which the population is **likely to behave** if they are applied in a commercial context





Reduced-Risk Products ("RRPs") is the term the company uses to refer to products with the potential to reduce individual risk and population harm in comparison to smoking combustible cigarettes. PMI's RRPs are **in various stages of development and commercialization**, and we are conducting **extensive and rigorous scientific studies** to determine whether we can support claims for such products of reduced exposure to harmful and potentially harmful constituents in smoke, and ultimately claims of reduced disease risk, when **compared to smoking combustible cigarettes**.

Before making any such claims, we will need to **rigorously evaluate the full set of data** from the relevant scientific studies to determine whether they substantiate reduced exposure or risk. Any such claims **may also be subject to government review and approval**, as is the case in the US today.



### Source: Philip Morris International