

INVESTIGATOR-INITIATED STUDIES (IIS) IN NON-PHARMA INDUSTRIES

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INTRODUCTION TO PHILIP MORRIS INTERNATIONAL





Who We Are > Our Goal and Strategies

Our goal is to design a smoke-free future

Our core strategies are:



SMOKE-FREE

Develop, market, and sell smoke-free alternatives, and switch our adult smokers to these alternatives, as quickly as possible around the world



TRANSITION

Transition our resources from cigarettes to smoke-free alternatives



REGULATION

Propose regulatory policies that encourage the replacement of cigarettes by smokefree alternatives

THE EXTERNAL PERCEPTION

Bloomberg



In Marlboro Country, a Big-Money Race for the New Smoke

"Philip Morris has demonstrated time and time again in the past its introduction of new products has led to more smokers," says Matt Myers, president of the Campaign for Tobacco-Free Kids, a leading U.S. anti-smoking group. "Given their history, no one should ever trust what a tobacco company says it intends to do."





Our vision is to offer smokers a better choice

How are we making this vision a reality?

The answer is that we are **developing and testing products** that deliver nicotine **without the harmful smoke** of cigarettes – yet that consumers will find satisfying. Since 2008, we've invested over USD 3 billion, employing over 400 world-class scientists, engineers, and technicians.

We're already making these new products available. Over a million consumers have switched to the first of our smoke-free products.

What is an RRP?

Reduced-Risk Products ("RRPs") is the term we use to refer to products that present, are likely to present, or have the potential to present less risk of harm to smokers who switch to these products versus continued smoking.

We have a range of RRPs in various stages of development, scientific assessment and commercialization.

Because our RRPs do not burn tobacco, they produce far lower quantities of harmful and potentially harmful compounds than found in cigarette smoke.

Guidance for Industry

Modified Risk Tobacco Product Applications

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.

Written comments and suggestions regarding this draft document may be submitted within 60 days of publication in the Federal Register of the notice announcing the availability of the draft guidance. Submit comments to the Division of Dockets Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Room 1061, (HFA-305), Rockville, MD, 20852. Alternatively, electronic comments may be submitted to http://www.regulations.gov. All comments should be identified with the docket number listed in the notice of availability that publishes in the Federal Register.

For questions regarding this draft guidance, contact the Center for Tobacco Products at (Tel) 1-877-CTP-1373 (1-877-287-1373) Monday-Friday, 9:00 a.m. – 4:00 p.m. EDT.

Additional copies are available online at

http://www.fda.gov/TobaccoProducts/GuidanceComplianceRegulatoryInformation/defaul.htm. You may send an e-mail request to SmallBiz.Tobacco@fda.hts.gov to receive an electronic copy of this guidance. You may send a request for hard copies to U.S. Food and Drug Administration, Center for Tobacco Products, Attn: Office of Small Business Assistance, Document Control Center, Building 71, Room G335, 10903 New Hampshire Avenue, Silver Spring, MD 20993-0002.

U.S. Department of Health and Human Services
Food and Drug Administration
Center for Tobacco Products

March 2012

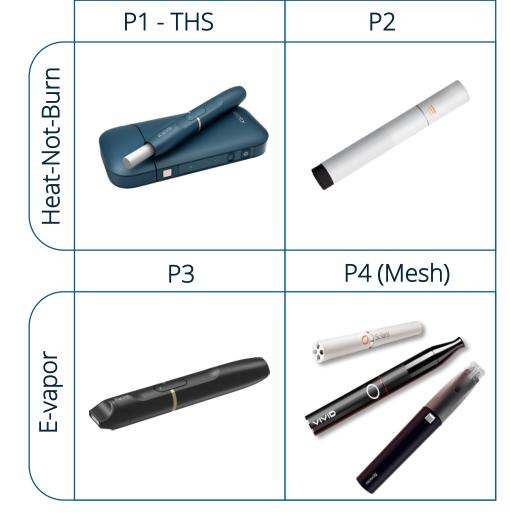


PMI RRP PLATFORMS

"It is primarily the toxins and carcinogens in tobacco smoke – not the nicotine – that cause illness and death."

- NICE Public Health Guidance: Tobacco: Harm Reduction Approaches to Smoking (2013)

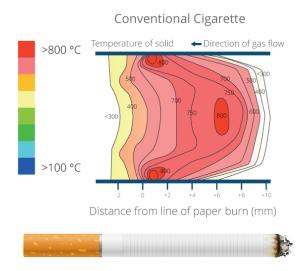
TABLE 1—ESTABLISHED LIST OF THE CHEMICALS AND CHEMICAL COMPOUNDS IDENTIFIED BY FDA AS HARMFUL AND POTENTIALLY HARMFUL CONSTITUENTS IN TOBACCO PRODUCTS AND TOBACCO SMOKE			
Constituent	Carcinogen (CA), respiratory toxicant (RT), cardiovascular toxicant (CT), reproductive or developmental toxicant (RDT), addictive (AD)		
Acetaldehyde Acetamide Acetone Acrolein Acrylamide Acrylonitrile Aflatoxin B1	CA, RT, AD CA RT RT, CT CA CA, RT		





PMI RRP PLATFORMS - THS*





Collection of smoke on Cambridge pad

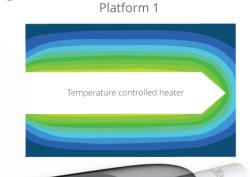


Commercialized in various markets under the IQOS brand name

Heats tobacco without combustion

 Levels of HPHCs formation reduced on average by 90 to 95% compared to the smoke of a 3R4F cigarette

• Preserves elements of taste, sensory experience, nicotine delivery, and ritual of conventional cigarettes



Collection of aerosol on Cambridge pad





8 https://www.pmiscience.com/news/absence-combustion-pmi%E2%80%99s-heated-tobacco-product-platform-1

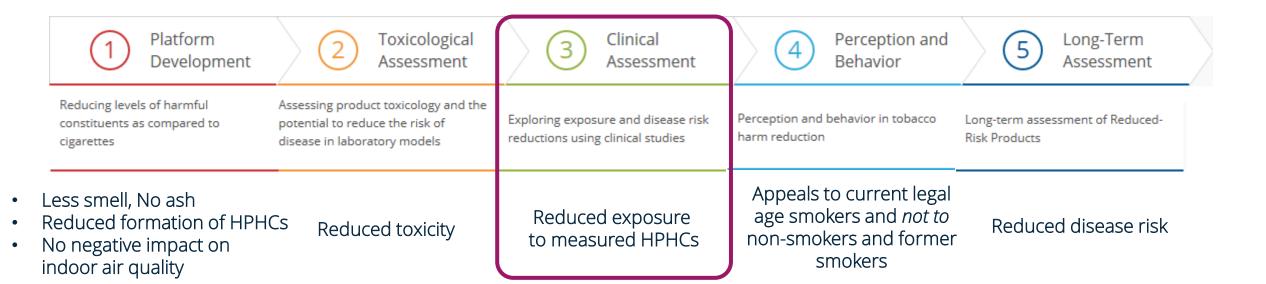


Science & Innovation > Assessing Risk Reduction

Conducting a rigorous step-by-step assessment program

Our goal is to develop a portfolio of less harmful alternative products to continued cigarette smoking. In fact, our aim is that these products, which we call reduced-risk products (RRPs)*, will replace cigarettes.

PMI'S APPROACH TO RISK ASSESSMENT

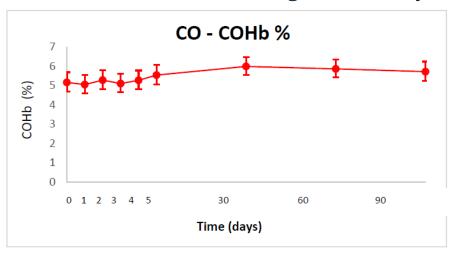


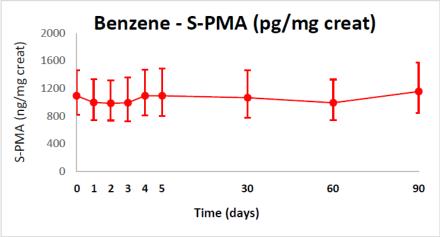


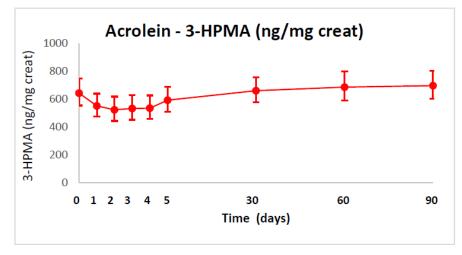
RESULTS TO DATE - REDUCED EXPOSURE

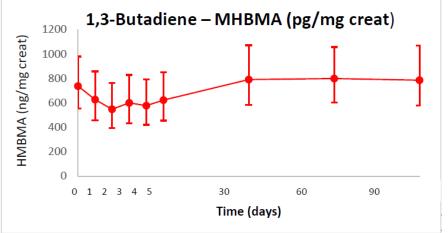
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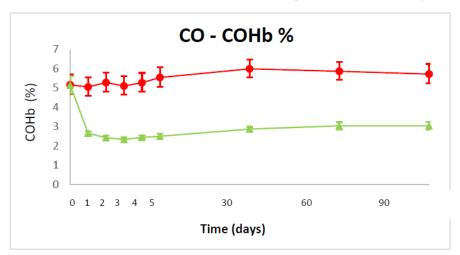


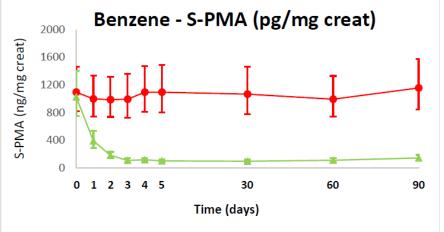


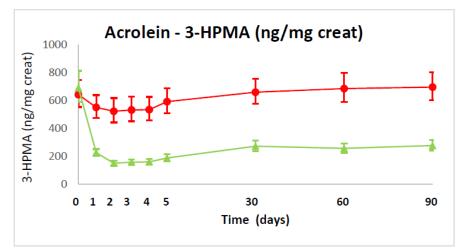
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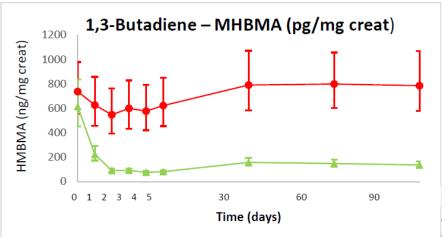
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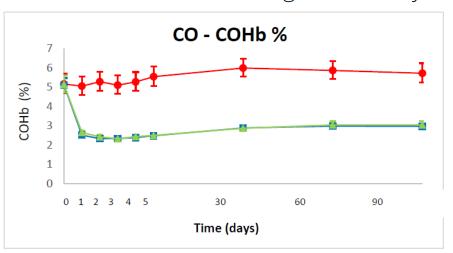


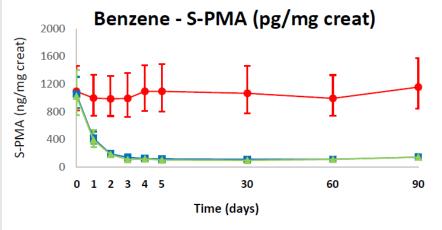


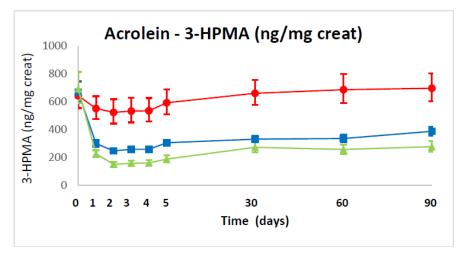
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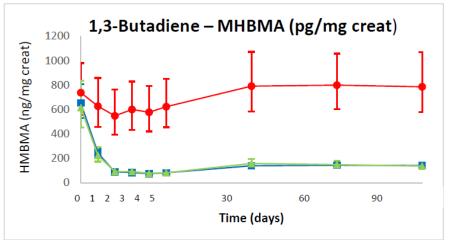
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THE EXTERNAL PERCEPTION



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ASH believes, therefore, in line with the Royal College of Physicians, that in the interests of public health it is important to promote the use of e-cigarettes, NRT and other non-tobacco nicotine products as widely as possible as a substitute for smoking in the UK. [3] Vapourised tobacco may also be substantially less harmful as the tobacco is not combusted to produce smoke.

ASH therefore believes that unless and until independent evidence shows that IQOS and similar products are substantially less harmful than smoking then these products should be regulated in the same way as other tobacco products.



INVESTIGATOR-INITIATED STUDIES (IIS) AT PHILIP MORRIS INTERNATIONAL



Scientific Credibility

IIS - WHY ARE WE DOING IT?

Independent Studies	Independent studies conducted by external organizations without knowledge or support from PMI
Investigator Initiated Studies	Studies designed and conducted by external organizations with support from PMI
Independent Verification	sbvIMPROVER.com crowdsourcing and engagement of strategic KOLS
External Verification	Reports by selected credible external experts and organizations
Disseminate & Present at Conferences	Direct engagement, conferences, PMIScience.com
Publish in Journals	International scientific open-access peer-reviewed journals
Conduct Excellent Science	Portfolio of cutting edge non-clinical and clinical studies



IIS - WHAT IS IT?

An Investigator Initiated Study (IIS) is a research effort in which the investigator:

- Independently initiate, design, execute and publish the research with corresponding raw data
- Acts as study sponsor and assumes all legal & regulatory responsibilities

PMI supports IIS in the form of:

 Material Support (RRP product and equipment)



 Financial Support (fair market value for study procedures)



 Technical Support (access to critical PMI technology)





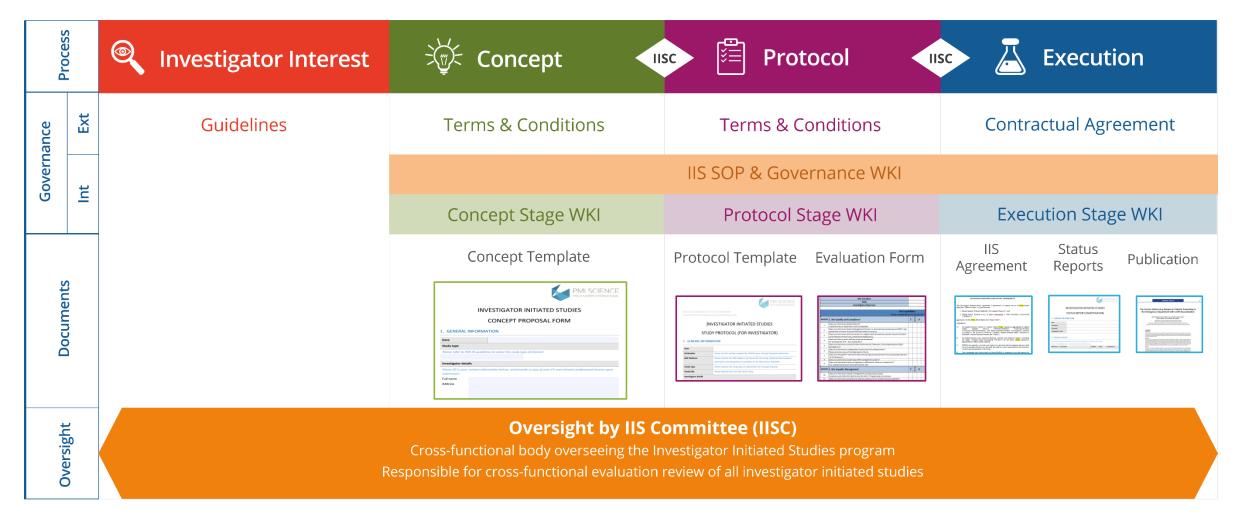
IIS - WHAT IS IT?

The Goal

Promote and support external RRP research that independently advances and verifies PMI science



IIS-HOW





IIS SCOPE

Aerosol Chemistry	Reduced Formation (of HPHCs) e.g. Mainstream, Sidestream, Environmental Air, Indoor Quality Air e.g. Development and validation of new methods
Standard Toxicology	Reduced Toxicity e.g. Standard Tox: Ames, Neutral Red Uptake, Mouse Lymphoma e.g. Development and validation of new assays or biomarkers NB: *In vivo studies subject to internal review where 3Rs apply
Systems Toxicology	Reduced Risk in Lab Models e.g. Independent network verification
Clinical	Reduced Exposure or Reduced Risk e.g. Development & validation of new biomarkers of Exposure or Risk e.g. Short & long term health benefits which may lead to reduced risk
Perception & Behavioral	Perception and Behavioral Assessment e.g. population impact, observational, new assessment tools
Post-market Surveillance	Post Launch e.g. Prevalence, safety surveillance, new assessment tools

Must Include PMI's Developed & Commercialized RRP Platforms in the Applicable Market



IIS PROPOSAL EVALUATION

IIS Program Lead → Check

Subject Matter Expert → Scoring

IIS Committee → Confirmation and decision

✓ Study in scope
✓ No Conflict of Interest

Concept

Protocol

Scientific strength Advancing/validating Scientific credibility
Investigator's
qualifications and
expertise

Scientific impact
Type of study

Compliance with regulatory framework & testing guidelines

Type of support requested

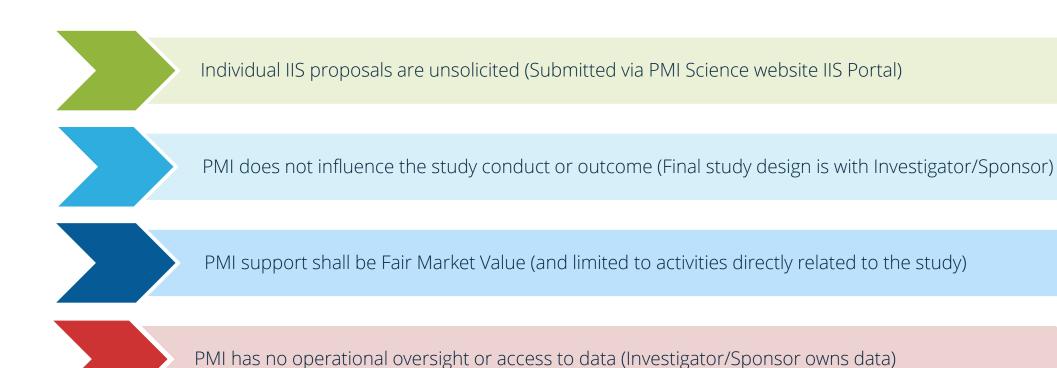
Financial vs material

Scientific capability
Resources
capabilities,
network

Scientific rigor
Correctly designed,
sample size

Quality standards QMS, data integrity

IIS STUDY INDEPENDENCE







IIS STUDY TRANSPARENCY

Paper(s) shall be published in a peer-reviewed international open access scientific journals, together with the raw data

The investigator must disclose PMI support for the study (including study number) in publications

Study information is published on the PMI Science IIS website, including: Study number, study title, investigator name and amount of support

The investigator has to register clinical studies on www.clinicaltrials.gov (or similar)



IIS STARTING POINT: WEBSITE

Starting Point









English ▼ IIS DASHBOARD ▼



Below is a summary of the IIS process:

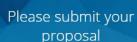








The sponsor-investigator conceives and conceptualizes the research idea and submits it to PMI



First, download and complete the Concept Template

CONCEPT TEMPLATE

Then, submit your completed Concept
Template here



Protocol stage

If PMI accepts the concept, the sponsorinvestigator will be requested to develop a full protocol and submit it to PMI.



Execution stage

If the protocol is accepted by PMI, a standard IIS Agreement is put in place and the research can be initiated.

The concept stage needs to be completed before this stage becomes available

The protocol stage needs to be completed before this stage becomes available

Explains the objectives & roles/responsibilities



Accepted when concept is submitted

TERMS AND CONDITIONS FOR INVESTIGATOR INITIATED STUDIES

These Terms and Conditions (T&C) set out the principles and requirements that govern Philip Mornis Products S.A ("PMPSA") support related to investigator Instituted Studies (IIS).

These T&C detail how PMPSA will evaluate, approve and follow-up on any request for

These T&C detail how PMPSA will evaluate, approve and follow-up on any request for Support for IIS. Participation of the investigator/sponsor to PMPSA IIS Program is contingent to his/her acceptance of the T&C. By submitting a Concept Proposal Form the investigator/sponsor confirms that he/she has read, understood and accepted the T&C.

Concept Template



PMI SCIENCE

INVESTIGATOR INITIATED STUDIES

CONCEPT PROPOSAL FORM

1. GENERAL INFORMATION

Date Study t

Please refer to PMI IIS guidelines to select the study type of interest

SIMILARITIES & DIFFERENCES TO PHARMA



SIMILARITIES TO PHARMA

Similar objectives and strategies

Objective:

Independently advance and verify science on company's products

Strategy:

Independent investigator initiated studies brings credible verification and innovation



DIFFERENCES TO PHARMA

PMI	Pharma		
Funding			
Often sole supporter & funding sourceOften monetary & product	Often several supporters & funding sourcesOften product/placeboSometimes financial support		
Scope			
From basic chemistry to social sciences	Mostly clinicalSometimes pre-clinical		
Product			
 Completely novel & unique product Investigators relatively naïve to product characteristics Placebo typically not used 	 Often relatively similar products Investigators often experts in the field and products Placebo often used 		



DIFFERENCES TO PHARMA

PMI	Pharma		
Regulations			
 Consumer Product: EC/IRB No Sunshine act High level of regulatory variability between jurisdictions 	 Medicinal Product: EC/IRB, IND Sunshine act Reasonable level of regulatory alignment between jurisdictions 		
Industry Stigma			
Significantly limits number of investigators	 May limit number of investigators 		



CONCLUSIONS

PMI is transitioning to a smoke free future with RRPs

Independence and transparency are fundamental to the PMI IIS

Program

External verification is important to increase external credibility, verify and advance PMI science

The PMI IIS program is similar to pharma IIS programs, despite some differences









Thank You! - Questions?