

Perspectives on CDM from a Tobacco and Nicotine Company

Laura Rogers and Eleanor Purshouse

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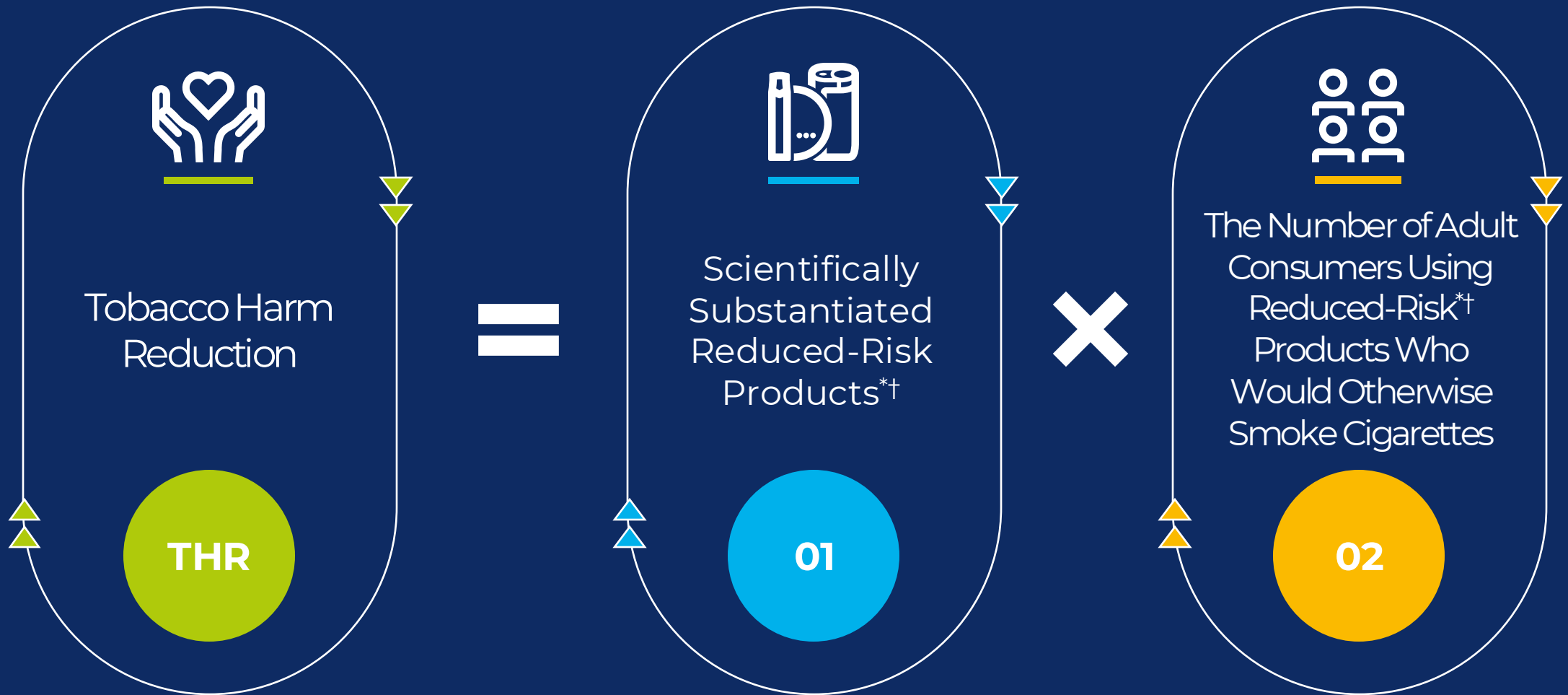
Our refined purpose and vision...



Our purpose is to create **A Better Tomorrow™** with a vision to **Build a Smokeless world** – one where smokers have migrated from cigarettes to **smokeless alternatives.**



Tobacco Harm Reduction: Principles¹

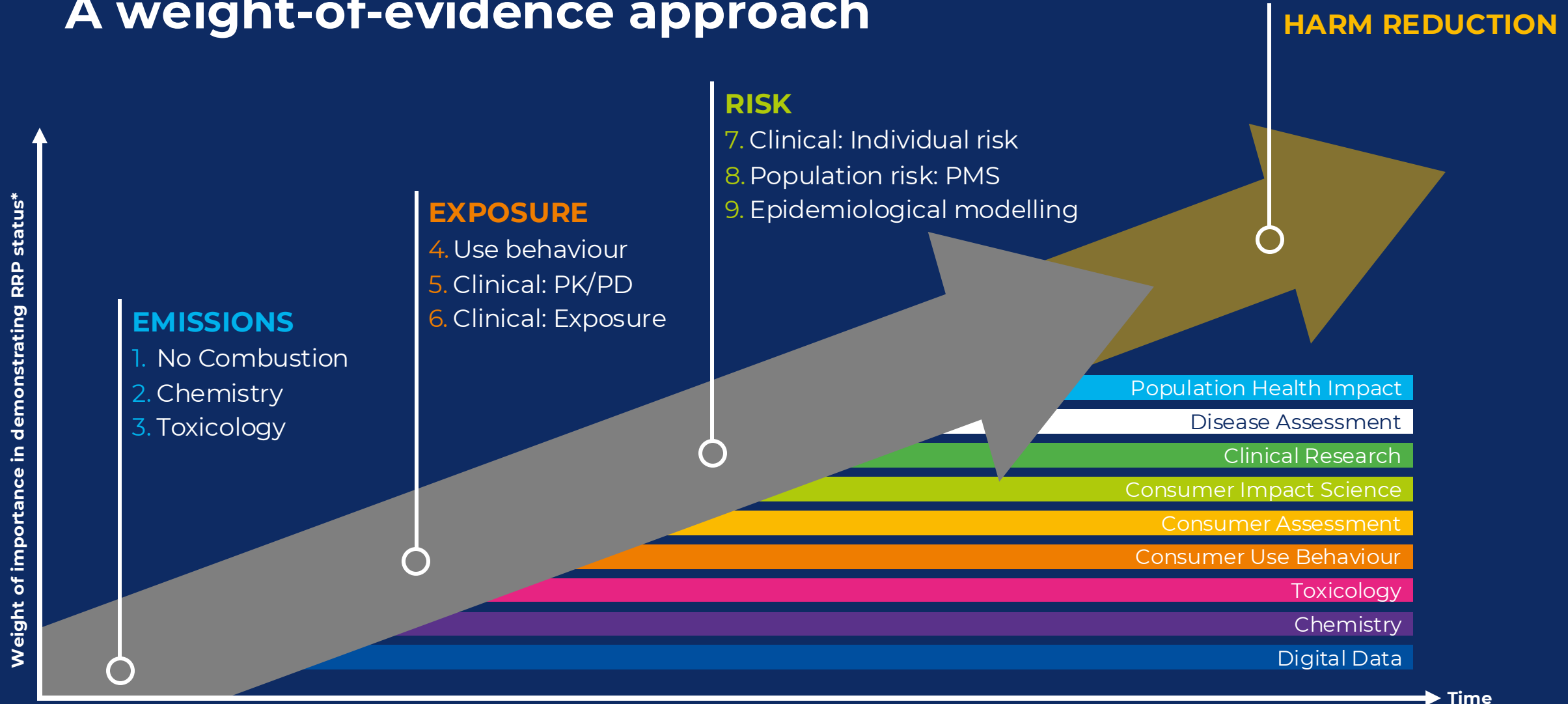


¹ Institute of Medicine (2001): Clearing the smoke

* Based on the weight of evidence and assuming a complete switch from cigarette smoking. These products are not risk free and are addictive.

† Our products as sold in the U.S., including Vuse, Velo, Grizzly, Kodiak, and Camel Snus, are subject to FDA regulation and no reduced-risk claims will be made as to these products without agency clearance.

BAT's 9-Step Risk Assessment Framework: A weight-of-evidence approach



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General Overview of Clinical Research



We outsource the conduct of our studies to CROs and clinicians



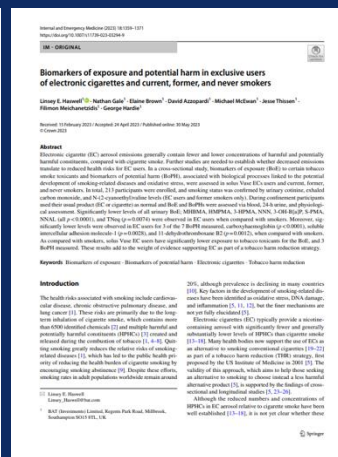
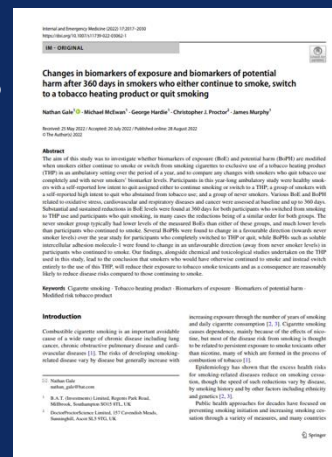
Our clinical studies are approved by independent RECs or IRBs



We register our clinical studies on registries such as ISRCTN or clinicaltrials.gov



We prioritise publishing our clinical studies



Overview of Participants in a Typical Study



Age & Sex

Male or female smokers, of legal smoking age

Biochemical verification of smoking status at Screening and Admission

Smoking History

A defined minimum daily cigarette consumption

Established smoking history prior to Screening

Main Exclusion

Planning to quit smoking in next 12 months

Subjects who are currently trying to stop smoking or considering stopping

General Overview of CDM in BAT's Tobacco Related Clinical Research

- Data generated is accurate and reliable
- Reduce errors and increase data consistency
- Conducted as per global standards and regulations
- Data has the potential to be part of regulatory submissions

CDM Role in BAT's Clinical Studies

Data Collection

- Protocol development
- Database design
- QA and UAT
- DMP
- DTAs

Data Cleaning

- Data validation and cleaning (discrepancy management)
- Metrics and performance
- Pre-lock listing review
- Coding consistency

Data Analysis

- Collaborate with CRO/internal Statistician
- aCRF review
- Regulatory package review
- TFL review

Data Reporting

- Final CDM outputs filed in TMF
- Archiving and close out
- CSR accurately represents the data

CDM Role in BAT's Clinical Studies (continuation)



CDM Build

- Small pool of CROs all using different EDC systems. From proprietary EDC systems to larger systems e.g., RAVE
- We provide guidance on CRF design, code lists and edit checks for study designs
- Variation, data discrepancies and interpretation errors are reduced
- Ensuring compliance with standards, regulatory requirements and change control procedures
- Investing time prevents issues downstream

CDM In-Conduct

- Sponsor CDM access to the CRO EDC system or backend database management system, inclusive of metrics and reporting functionality
- Facilitating direct view of the data, including critical data and endpoint data. Use of status reports
- Open communication between Sponsor and CRO to address issues promptly and prioritise tasks based on impact to timelines
- Risk management and risk based monitoring

In-conduct Insights

DM metrics

Study endpoints

Clinical Events

Identify patterns and any emerging trends with any clinical events during conduct phase

Consistency of CDM Close-out Activities

Pre-lock review	Consistency of coded term review by an appointed medical monitor Protocol deviations vs data reconciliation
Final check	Review of data and final checks before approving for DBL
Consistency review	Review of consistency in tabulation across portfolio studies
Data approval	Receipt and approval into the business of data documents ensuring they have been versioned to be representative of state at DBL
Data integrity	Ensuring study records are still accessible and readable as per regulatory and internal policy requirements

CDISC Tobacco Implementation Guide (TIG)

<https://www.cdisc.org/tig>



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Foundational Standard



- Non-proprietary, consensus-based, vendor-neutral, platform-independent submission data standards for tobacco related data
- Addresses concepts for tobacco research and translates them into CDISC standards for both:
 - Established CDISC standards
 - New CDISC standards to fill gaps identified by the FDA's Center for Tobacco Products (CTP) and Industry SMEs
- Focuses on implementation for use cases inherent to tobacco related data comprised of concepts identified by one or more stakeholders as important in the context of tobacco product research

Tobacco Implementation Guide (TIG)



- TIG published in 2024 and available at: <https://www.cdisc.org/tig>
- All companies remain free to decide whether (and how) they use the standard
- Open to all, on-demand training provides a comprehensive understanding of the CDISC Tobacco-related Standards, focusing on four key use cases

cdisc

Tobacco Implementation Guide

Version 1.0 (Final)

Developed by the
CDISC Tobacco Implementation Guide Team

Notes to Readers

The Tobacco Implementation Guide Version 1.0 has been prepared with support from the US Food and Drug Administration Center for Tobacco Products using the CDISC standards development process. This document is a CDISC foundational standard that is a single, stand-alone, comprehensive implementation guide for tobacco product data submissions.

This document provides guidance for

- collection of data with case report forms using the Clinical Data Acquisition Standards Harmonization Model (Version 1.2),
- tabulation of data using the Study Data Tabulation Model (Version 2.1), and
- creation of analysis datasets using the Analysis Data Model (Version 2.1), with
- references to additional CDISC standards and resources to support implementation.

Revision History

Date	Version
2024-06-07	1.0 Final

Into 2025: TIG v1.0 eSubmission Pilot

- ✓ Submit datasets standardized per the TIG v1.0 with related information as part of a simulated eSubmission to FDA CTP
- ✓ To build tobacco sector understanding and application of the standards
- ✓ To promote the adoption of the standards in the tobacco sector with further feedback to drive and define



Presentation Wrap-up

Summary

- Overview of BAT's clinical research answering some common questions
- Insights into BATs CDM activities
- Next steps for BATs continued adoption of data standards

Conclusion

- Collaboration between clinical professionals in this setting is key to advancing data management operations

Questions

