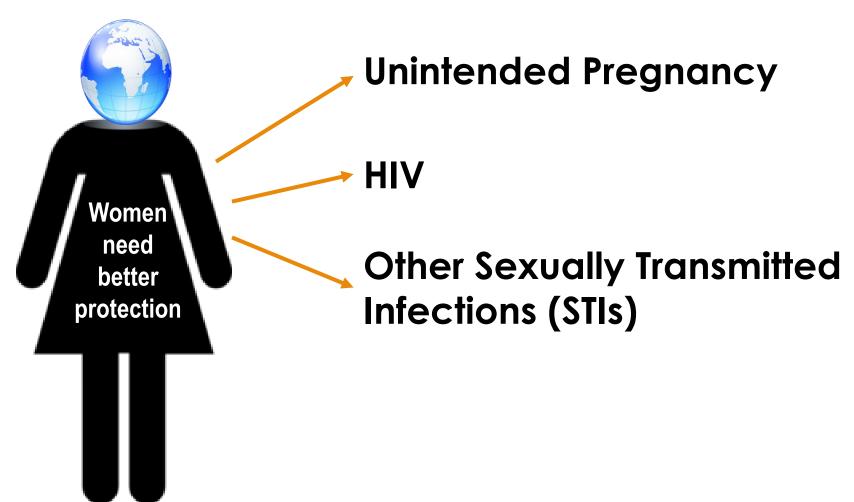


Comprehensive Sexual & Reproductive Health Prevention:
The Promise of MPTs

Bethany Young Holt, PhD MPH
Director, Initiative for MPTs [IMPT]

Women's Sexual & Reproductive Health Risks are Interlinked



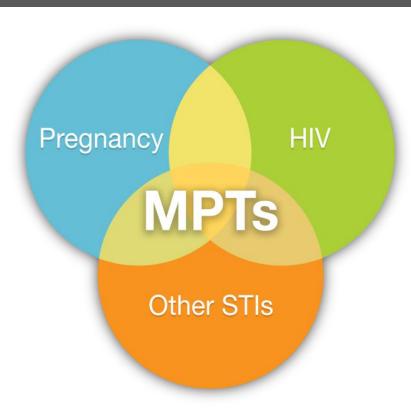




Multipurpose Prevention Technologies

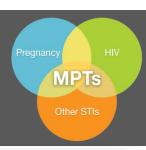
MPTs <u>combine protection</u> against:

- Unintended pregnancy
- HIV
- Other STIs





Health & Social Impact of MPTs





Women's Health

SDG 3 & 5



SDG 3 & 5



Educational Attainment

1

SDG 4 & 5



Employment & Economic Benefits

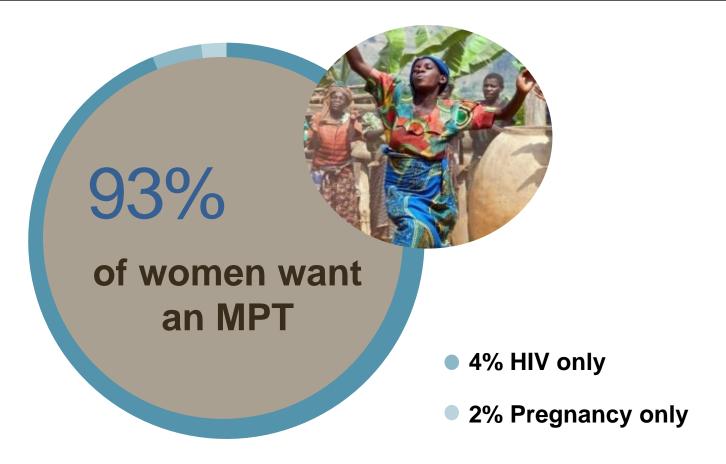


SDG 1, 5 & 8



According to Market Research







MPTs in the R&D Pipeline



- Vaginal rings
- Innovative vaginal delivery products
- New condom designs
- Injectables and implant technologies
- Other novel technologies and platforms





Options for MPTs



Co-formulated:

Multiple API formulated into a single dose



Co-administered:

Two independent products used together

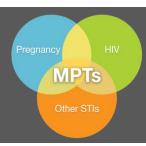


Co-packaged:

Two different doses packaged together in a single product for simultaneous co-use



A Suite of Products is Needed













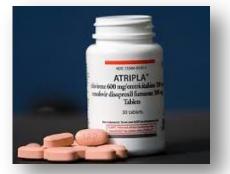


Contraception + HIV & STI Prevention

Contraception + HIV Prevention

Contraception + STI Prevention

HIV + STI Prevention











MPTs in Clinical Trials

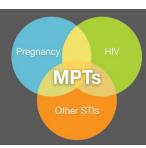


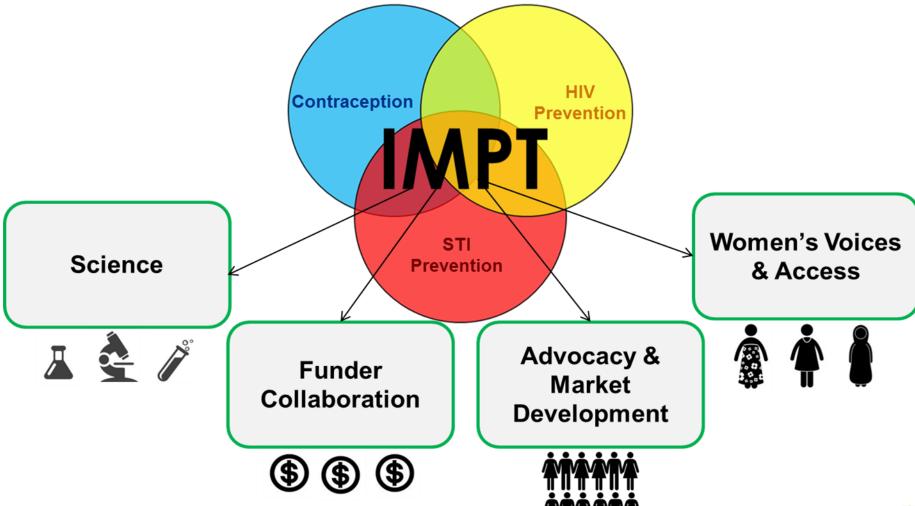
HIV + Other STIs	
1.0% Tenofovir Vaginal Gel	Phase III
mapp66 (mAb) Vaginal Film	Phase I
MIV-150 + Zinc acetate + Carrageenan Vaginal Gel	Phase I
Tenofovir + Acyclovir Intravaginal Ring	Phase I
Tenofovir Disoproxil Fumerate Intravaginal Ring	Phase I
Tenofovir Vaginal Film	Phase I
Tenofovir Intravaginal	Phase I
Tenofovir Vaginal Tablet	Phase I
TFV/FTC Vaginal Tablet	Phase I
Pregnancy, HIV & Other STIs	
Origami Female Condom	Phase III
Tenofovir + Levonorgestrel Intravaginal Ring	Phase I
Pregnancy & Non-HIV STIs	
Amphora Gel	Phase I

Plus products in preclinical development for:

- HIV + Pregnancy
- HIV + Other STIs
- Pregnancy, HIV& Other STIs
- Pregnancy + Non-HIV STIs

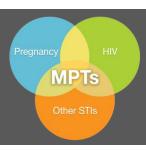
Initiative for MPTs







Leading the IMPT & Field



Steering Committee & MPT Supporting Agency Collaboration Committee

- Association for Reproductive Health Professionals
- Bill & Melinda Gates Foundation
- Department for International Development (DFID)
- Guttmacher Institute
- Indian Council for Medical Research
- Kenya Medical Research Institute
- Mary Wohlford Foundation
- Nanjing University

- National Institutes of Health
- PATH
- Population Council
- University of California, San Francisco
- U.S. Agency for International Development (USAID)
- The Wellcome Trust
- World Health Organization
- Wits Reproductive Health Institute



IMPT Strategic Approach: Market access in tandem with MPT R&D





To achieve safe and efficacious products



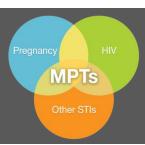
Marketing

To achieve widespread, sustained and consistent use

Public Health Impact



IMPT builds the field



R&D: Science & Technical Aspects of MPT Development

Scientific Feasibility
Product Prioritization &
Gap Analysis

Dosage Form Specific TPPs

MPT Pipeline Database

Marketing: Social-behavioral & Market Access

Market Access Framework

Market Research

Impact Modeling

Communications and Advocacy among key stakeholder groups

Delivery & Distribution



MPT product strategies



DOI: 10.1111/1471-0528.12850 www.bjog.org Commentary

The future of multipurpose prevention technology product strategies: understanding the market in parallel with product development

JW Romano, a L Van Damme, b S Hillierc

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Please cite this paper as: Romano JW, Van Damme L, Hillier S. The future of multipurpose prevention technology product strategies: understanding the market in parallel with product development. BJOG 2014; 121 (Suppl. 5): 15–18.

The development of multipurpose prevention technology (MPT) products for combined protection against sexually transmitted infections (STIs), including HIV, and unintended pregnancy is a priority. MPTs have a number of

produce and deliver to the end user than separate products for each indication. Even with the risk of a higher cost of goods for an MPT relative to single-indication products, the cost benefit of an MPT could still be realised because



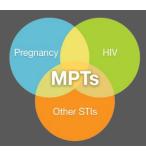
IMPT Priority Areas: R&D



- Understand hormonal contraceptive (HC) knowledge gaps in the context of MPT development.
- 2) Assess challenges and other issues related to MPT clinical trial design.
- 3) Develop a process for achieving a more robust product development pathway for **non-HIV STI MPTs**.



R&D Moving Forward





Scientific meetings to address priority areas and gaps in the field

- Hormonal contraception and MPTs
- MPT Regulatory Challenges
- Manufacturing & CMC



Implementation of task force activities



Strategic coordination of the MPT field

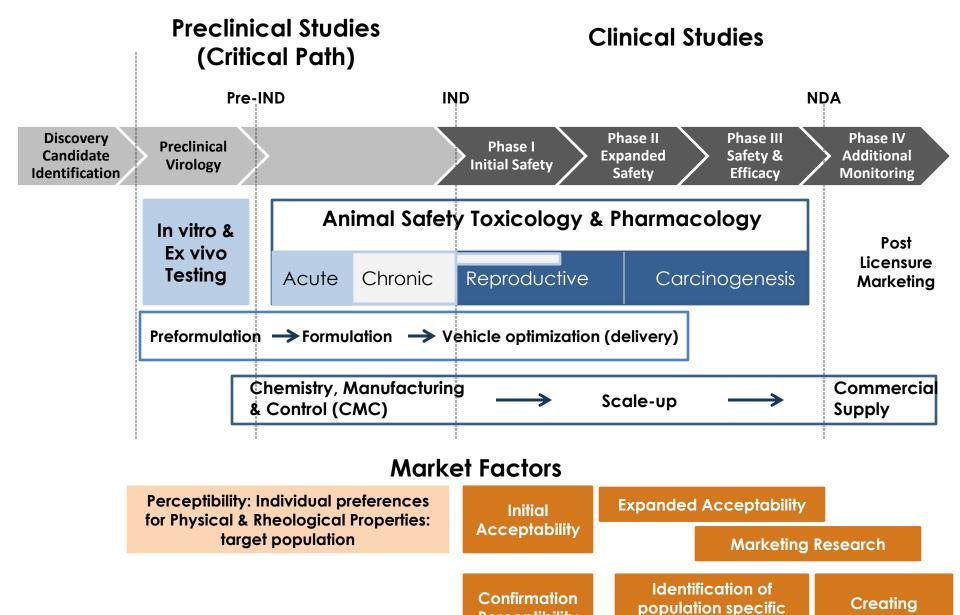


IMPT Priority Areas: Marketing



- 1) Assess the gaps in **social-behavioral knowledge for MPT development and MPT commercialization** potential.
- 2) Engage **modeling** efforts to robustly assess public health impact and cost effectiveness of MPT product options in specific target populations.





Perceptibility

Development of use instructions

population

specific approaches

Source: Jim Turpin (NIAID)

issues



According to Market Research

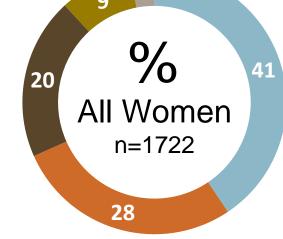




- 4% HIV only
- 2% Pregnancy only

What would women pick if all 4 MPTs were available to them today?









Marketing: Moving Forward





Assessment of end-user and provider preferences and acceptability issues in priority regions



Modeling public health impact of potential indication combinations among target populations



Addressing other critical market issues



Strategic coordination of the MPT field



Women need better prevention



- The promise of MPTs is great
- The IMPT has fortified the MPT field
- Continued field-wide guidance and collaboration will be necessary to see impactful MPT products







Against the backdrop of the Sustainable Development Goals, the need for improved, affordable and more 'fit for purpose' reproductive health technologies has been highlighted.

-- Helen Rees



Learn more at www.thelMPT.org

Join the IMPT Network of Experts (NoE) at http://mpts101.org/membership









The Initiative for Multipurpose Prevention Technologies (IMPT) is a project of CAMI Health, an organization dedicated women's reproductive health and empowerment.



Co-packaging





Development Requirements:

- Demonstration of technical feasibility (stability)
- End user informed packaging design and acceptability

