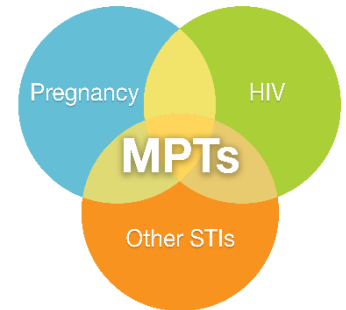


To support the advancement of a robust pipeline of diverse and effective multipurpose prevention technology (MPT) products serving the broad sexual and reproductive health (SRH) needs of women, the Initiative for MPTs (IMPT) – a product neutral, global collaboration that works to advance MPTs – encourages researchers and product developers to consider entering the MPT development field. Whether your experience is in SRH prevention, drug delivery, novel formulation science, engineering, or polymer chemistry, you will be joining a community of organizations who have paved the way for the promising cadre of first-generation MPT products currently undergoing clinical trials.



While the MPT field is presented with unique technical and market challenges to product development and introduction, the IMPT Secretariat, in collaboration with key partners, has developed a range of resources and tools to advise on various steps of the process – from MPT basics to complex technical considerations.

### MPTs Defined

MPTs are an innovative class of products that deliver varied combinations of HIV prevention, other sexually transmitted infection (STI) prevention, and contraception. While the field is currently focused on products that co-formulate contraception and HIV prevention, this is not the only possible MPT combination. MPTs can also deliver HIV prevention and prevention of another STI, or contraception and a non-HIV STI, or prevention of two or more non-HIV STIs.

### Status of MPT R&D

The only MPTs currently on the market that are effective for more than one indication are male and female condoms, but there are numerous products in development. Access the IMPT's [online product development database](#) for a full listing of MPT products in the pipeline and a table that summarizes the pipeline by indication combination. This database is managed by the IMPT Secretariat.

### Market for MPTs



Given that many MPTs are still not commercially available, it is difficult to fully characterize the market potential for MPTs. Nevertheless, [global epidemiological data](#) on overlapping incidences for HIV and other STIs as well as rates of unintended pregnancy illustrate a need for more efficient prevention. Moreover, [a growing body of literature](#) suggests that many women would prefer taking one multi-indication product over several single-indication products to meet their SRH prevention needs.

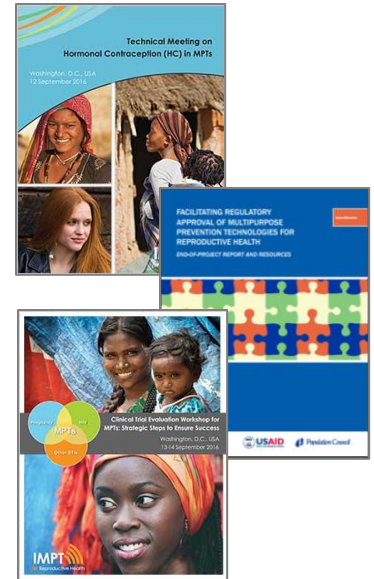


Based on these considerations, the key to a sustainable market for MPTs is ensuring that the design and delivery of MPT products are tailored to the different desires and daily realities of potential end-users. With this in mind, there are a range of market-related activities that should be implemented at various points along the MPT development and introduction process – the IMPT outlines and describes these in a [framework tool](#). Notably, many first-generation MPT developers and their partners contributed to this framework and are implementing these approaches. Read a [brief summary](#) of relevant partner projects and watch a [live webinar recording](#) of some of the newest MPT end-user research projects for further inspiration.

## Challenges of Developing Multi-Indication Products and Devices

Combining multiple drugs in a single product or device opens a host of complex technical challenges, from selection of the active pharmaceutical ingredient and dose, to co-formulation of drugs, to regulatory issues. These complexities notwithstanding, this is a rapidly evolving area of research that is exciting to be a part of, with a collaborative network of stakeholders strategizing and accelerating action around many of these areas.

This [2018 article](#) outlines concrete action steps specific to advancing MPTs that combine hormonal contraception and HIV prevention MPTs. A [2016 IMPT meeting report](#) unpacks key issues for MPT clinical trials. A [2018 webinar](#) unpacks opportunities and challenges for developing long-acting MPTs. Other useful IMPT resources focus on issues surrounding the regulatory pathway for MPTs, including this [2013 report](#) and this [live webinar recording](#) on bioequivalence and bioavailability. Whether to be used as guidance for a new MPT product development project or inspiration for a new partnership or collaboration within the IMPT network, these and other technical resources can be found on the IMPT's [online resource center](#).



## Funding Opportunities

There has been an upward trend in MPT R&D investment over the past five years, with MPT-focused RFAs being released with some regularity. Most recently, the National Institutes of Health (NIH) posted an [opportunity to develop novel nonsteroidal contraceptive methods, including MPTs](#), with applications due on November 6, 2018. Please refer to the NIH posting for project requirements.

## Other Useful Tools

In addition to the resources listed above, the IMPT's [generalized Target Product Profiles \(TPPs\)](#) for [intrauterine devices](#) and [long-acting injectables](#) are intended to be a starting place for product developers working on those and other dosage-forms. The [IMPT's report](#) on considerations for an MPT Strategic Evaluation Framework, the market-based complement to a TPP, could be useful as well.

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*For questions or comments, please contact: [IMPT@cami-health.org](mailto:IMPT@cami-health.org). The IMPT Secretariat is a project of CAMI Health, an organization dedicated to improving the health of women and girls worldwide, based in Sacramento, CA, USA. CAMI Health is housed at the Public Health Institute.*

