EXPANDING CONTRACEPTIVE ACCESS AND OPTIONS

Injectable contraceptives are an important option for preventing unintended pregnancy, chosen by many women worldwide for their safe and effective protection, convenience, and privacy. Innovative, next-generation products like Sayana Press, a lower-dose formulation and “all-in-one” subcutaneous presentation of Depo-Provera®, can dramatically expand family planning access by increasing opportunities for lay health workers and even clients themselves to administer injectable contraceptives. Insights from the first introductions can help inform new country experiences and transitions, whether small pilots or scaled delivery. This section provides a background of the product and the introduction pilots in four countries.

For decades, PATH has championed the development and delivery of a product like Sayana Press to expand women’s family planning access and options—first by developing the Uniject injection system, now licensed to Becton Dickinson (BD), and later by serving as a “matchmaker” between BD and Pfizer Inc., the manufacturer of Depo-Provera. The opportunity to introduce any contraceptive innovation, in the context of informed choice and a broad method mix, can result in increased investment and attention for a country’s family planning program.

After years of planning, under a country-led initiative coordinated by PATH, Sayana Press was made available from family planning providers in Burkina Faso, Niger, Senegal, and Uganda in 2014. These introductions offered injectable contraception in many communities for the first time, closer to where women live. Self-injection research conducted by PATH and government
partners in Senegal and Uganda builds on the introductions and indicates that self-injection is likely to be feasible and acceptable.

When Sayana Press was first presented as an option to the pilot countries prior to 2013, its price per dose was higher than the cost of depot medroxyprogesterone acetate (DMPA; the active ingredient in Depo-Provera) for intramuscular (IM) administration. While interested in the product’s potential, international donor agencies and country governments were hesitant to invest in a more expensive presentation. Global interest in Sayana Press increased in 2014 when the product became available to qualified purchasers in the world’s 69 poorest countries for 1 US dollar (USD) per dose—much closer to the price of Depo-Provera (Novel agreement expands access to Pfizer’s contraceptive, Sayana® Press [press release]. Available at www.pfizer.com/news/press-release/press-release-detail/novel_agreement_expands_access_to_pfizer_s_contraceptive_sayana_press_for_women_most_in_need_in_the_world_s_poorest_countries). Introduction of the product, which includes self-injection research studies, is happening in 14 countries and growing; this is being led by many different groups and funded by a variety of donors. The price of Sayana Press for the end user varies across country settings, depending on the delivery channel and price parameters set by country governments for contraceptive supplies (see table).

Product pricing for family planning clients in pilot introduction countries

<table>
<thead>
<tr>
<th>PUBLIC SECTOR</th>
<th>PRIVATE/NGO SECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Burkina Faso</strong></td>
<td><strong>Product</strong></td>
</tr>
<tr>
<td><strong>Product + consultation</strong></td>
<td><strong>Product</strong></td>
</tr>
<tr>
<td>250 XOF (0.40 USD)</td>
<td>600 XOF (0.96 USD)</td>
</tr>
<tr>
<td>250 XOF (0.40 USD)</td>
<td>500 XOF (0.81 USD)*</td>
</tr>
<tr>
<td>250 XOF (0.40 USD)</td>
<td>300 XOF (0.48 USD)*</td>
</tr>
<tr>
<td>250 XOF (0.40 USD)</td>
<td>Free</td>
</tr>
<tr>
<td>Free</td>
<td>Free</td>
</tr>
</tbody>
</table>

| **Niger** | **Product** | **Consultation** | **NGO/delivery channel** |
| **Product** | **Consultation** | **Product** | **Consultation** | **NGO/delivery channel** |
| Free | 200 FCFA (0.32 USD) | MSI center or franchise | Marie Stopes Ladies and mobile outreach |
| 200 XOF (0.32 USD) | Free | MSI youth centers | ASBEF |
| 200 XOF (0.32 USD) | 1,000 XOF (1.62 USD) | Securil Press, sold in pharmacies | |
| 200 XOF (0.32 USD) | Free | |
| 1,000 XOF (1.62 USD) | 1,000 XOF (1.62 USD) for reinjection | |
| 1,200 XOF (1.94 USD) | Free | |
| **Senegal** | **Product** | **Consultation** | **NGO/delivery channel** |
| **Product** | **Consultation** | **Product** | **Consultation** | **NGO/delivery channel** |
| 200 XOF (0.32 USD) | 2,000-2,500 XOF (3.23-4.00 USD) | MSI center or franchise | Marie Stopes Ladies and mobile outreach |
| 200 XOF (0.32 USD) | 1,000 XOF (1.62 USD) for reinjection | MSI youth centers | ASBEF |
| 200 XOF (0.32 USD) | Free | Securil Press, sold in pharmacies | |
| Free | Free | |
| 1,000 XOF (1.62 USD) | 1,000 XOF (1.62 USD) | |
| **Uganda** | **Product** | **Consultation** | **NGO/delivery channel** |
| **Product** | **Consultation** | **Product** | **Consultation** | **NGO/delivery channel** |
| Free | 1,000 UGX (0.28 USD) | MSI and RHU |

Note: ABBEF, Association Burkinabé pour le Bien-Etre Familial; ANIMAS-SUTURA, Association Nigérienne de Marketing Social; ASBEF, Association Sénégalaise pour le Bien Etre Familial; CBD, community-based distribution; FCFA, franc des colonies françaises d’Afrique; MS, , MSI, Marie Stopes International; NGO, nongovernmental organization; RHU, Reproductive Health Uganda; UGX, currency code for Ugandan Shilling; USD, US dollar; XOF, currency code for Communauté Financière Africaine.

* At reinjection, clients pays for product only (no consultation fee).
PATH, ministries of health (MOHs), and partners have gained experience, knowledge, and resources on Sayana Press use through self-injection—and, eventually, introduction or scale-up of similar products. These can benefit donors, governments, and implementers who are working on Sayana Press introduction or scale-up. To share this information, results of the pilots, and related resources, PATH has produced this practical guide based on lessons learned through the Sayana Press pilot introduction project.

ABOUT THE PRODUCT

Sayana Press is a unique three-month, progestin-only injectable contraceptive that combines the drug and needle in the Uniject™ injection system. It is small and easy to use, and it requires minimal training, making it especially suitable for community-based distribution—and for women to administer themselves through self-injection. Sayana Press can improve access to a safe and effective contraceptive option, and increase women’s autonomy, in the context of a full method mix.

Sayana Press has several characteristics that make it well suited for low-income country settings, particularly in remote and rural areas:

• Ease of use. Allows use by trained lower-level health workers and offers the potential for self-injection.

• Prefilled single unit. Ensures that the correct dose is given, simplifies procurement and logistics, eliminates the need to bundle vials and syringes, and prevents their potential mismatch at service delivery points.

• Not reusable. Minimizes transmission of blood-borne pathogens through needle reuse.

• Compact size. Eases transport, storage, and disposal. Sayana Press is 62 percent less

Lexicon of injectable DMPA products

MPA: Medroxyprogesterone acetate, the active contraceptive agent.

DMPA: Depot MPA. When injected intramuscularly or subcutaneously, MPA forms a reservoir or depot that releases the drug over time.

DMPA-IM: Generic name for the intramuscular form of DMPA.

DMPA-SC: Generic name for the subcutaneous form of DMPA.

Depo-Provera®: Pfizer Inc. brand of DMPA-IM, available in vials or prefilled syringes.

Depo-subQ provera 104®: Pfizer brand of DMPA SC in prefilled syringes.

Sayana®: Pfizer Limited (United Kingdom) brand of DMPA SC in prefilled syringes, licensed in the United Kingdom and some other countries.

Sayana® Press: Pfizer Limited brand of DMPA SC in the Uniject™ injection system.
PATH has created several fact sheets as resources for donors, partners, and countries interested in learning more about Sayana Press introduction and research; these are available at sites.path.org/rh/?p=292#factsheets:

- Sayana Press: Product and Project Summary
- Sayana Press Clinical Brief
- Sayana Press Self-Injection Research
- Frequently Asked Questions About Sayana Press
- Monitoring Sayana Press Pilot Introduction

Sayana Press is approved by drug regulatory authorities in the European Union and approximately two dozen countries worldwide. The formulation of DMPA used in Sayana Press is also approved in the United States. An updated product package insert indicating Sayana Press for self-injection was officially approved in 2015 by the United Kingdom’s lead stringent regulatory authority, the Medicines and Healthcare products Regulatory Agency (MHRA). This provides a basis for updated product registrations indicating self-injection in other countries, which are currently being pursued by Pfizer (see Section 5: Registration) (Pfizer’s Sayana® Press becomes first injectable contraceptive in the United Kingdom available for administration by self-injection [press release]. Available at www.pfizer.com/news/press-release/press-release-detail/pfizer_s_sayana_press_becomes_first_injectable_contraceptive_in_the_united_kingdom)
available_for_administration_by_self_injection). Niger approved the updated insert in 2016, establishing the regulatory foundation for future shifts in policy and practice.

RESULTS FROM PILOT INTRODUCTIONS

The pilot period for Sayana Press introductions ranged from mid-2014 to mid-2016 in each country. By early 2016, stakeholders in all four countries decided to scale up Sayana Press. Monitoring data collected and reviewed throughout the pilot introductions—as well as positive feedback on the product from implementers, providers, and clients—inform these decisions. The results of the pilots are crosscutting and robust, offering significant insights regarding the added value of this contraceptive option. For example, across the four countries:

- **Thousands of providers trained.** More than 7,500 facility- and community-based family planning providers were trained to administer Sayana Press, including nearly 600 providers who serve as trainers, master trainers, or supervisors.

- **Half a million doses administered.** Nearly half a million doses of Sayana Press were administered by providers (see map). The total number of doses of Sayana Press that were administered increased steadily during the pilot.

- **Thousands of new users reached.** More than 120,000 women using modern family planning for the first time (“new users”) chose to use Sayana Press, indicating the product may help reduce unmet need and increase contraceptive prevalence (see bar graph).

- **Sayana Press reached young women.** Approximately 45 percent of doses administered across Niger, Senegal, and Uganda were to women younger than age 25 years (age data not available for Burkina Faso).

- **Monitoring data provided real-time insights.** Analysis of the monitoring data informed many of the lessons and program implications presented through this guide. Final project monitoring results are summarized in a brief (Monitoring Sayana® Press Pilot Introduction. Available at www.path.org/publications/detail.php?i=2551).

Highlights include:

- **Results are linked to the introduction strategy.** To reach maximum new users, a country may prioritize community-level delivery or offer injectables in areas where they were previously unavailable. To reach maximum volumes, a country might introduce Sayana Press at all levels of the

Total number of Sayana Press doses administered, by country (2014–2016)
Proportion of Sayana Press doses administered to new users, by country (2014–2016)

health system and train providers rapidly using a cascade approach.

• **Opportunities for task-sharing.** Sayana Press offers opportunities to shift injectable administration to the community level, as community health workers administered higher proportions relative to DMPA-IM when both were available.

• **Switching was not widespread.** Cumulative proportions of doses administered to women switching from DMPA-IM to Sayana Press were not higher than 16 percent, allaying early concerns about wholesale replacement of DMPA-IM.

**USING PRODUCT INTRODUCTION TO STRENGTHEN HEALTH SYSTEMS**

Because of its ease of injection and delivery, Sayana Press can catalyze service delivery innovation by expanding access to family planning in nonclinic settings. In other words, countries can make injectable contraceptives available where they have never been available before. The product’s ease of use may prompt decision-makers to support and establish policies for task-sharing contraceptive service delivery. Task-sharing involves a team-based approach to delivering contraceptives by community-based workers and volunteers, in addition to health care professionals based at fixed facilities.

Annet, a village health worker, decided to be the first woman in Uganda to receive Sayana Press while participating in a training session on family planning. She wished she had learned about contraception earlier in her own life. She says, “I decided to see it for myself. Now I talk to my clients from experience and counsel them about their options.”
Introducing a new method like Sayana Press can also prompt programs to review and improve their family planning provider training and supervision, commodity distribution, and health information systems. For example, training health workers on a new method can provide an opportunity to refresh or upgrade their overall family planning skills. Logisticians and supply chain managers benefit from refresher skills training that introduction of a new method brings. Finally, working with regional or district teams to review and improve data monitoring systems and quality of data collection contributes to reinforcing their capacity and strengthening the health system overall.

**SELF-INJECTION AS AN EMERGING PRACTICE**

Self-injection of Sayana Press is expected to roll out in the future as the practice receives regulatory approval in more countries and as evidence of feasibility, acceptability, and impact accumulates. Self-injection could help overcome access barriers and increase women’s ability to manage their reproductive health. For example, women who self-inject would have timely access to injectables in places where community-based services are sporadic or unreliable. Studies to date suggest that self-injection of Sayana Press or similar products (e.g., DMPA-SC in a prefilled syringe) is both feasible and acceptable for many women.

Together with partners, MOHs and partners in Burkina Faso, Democratic Republic of the Congo, Ghana, Kenya, Malawi, Nigeria, Senegal, and Uganda are conducting or planning research on self-injection to learn how to support women in these settings to self-inject safely and effectively. Results to date from PATH’s self-injection operational feasibility studies in Uganda and Senegal indicate that most women can independently self-inject at three months after a single one-on-one training session (A prospective cohort study of the feasibility and acceptability of depot medroxyprogesterone acetate administered subcutaneously through self-injection. Available at www.contraceptionjournal.org/article/S0010-7824(16)30459-0/pdf). In 2015, the World Health Organization (WHO) issued a new technical document that recommends self-injection in specific circumstances in contexts where women have information, training, and support (Health Worker Roles in Providing Safe Abortion Care and Post-Abortion Contraception. Available at http://apps.who.int/iris/bitstream/10665/181041/1/9789241549264_eng.pdf?ua=1&ua=1).

“Sayana Press is easy, and it can be used in private. It’s simple to handle, does not take time, and there is no need to go to the hospital. I like that I can use it myself more privately.”

– Sayana Press client in Uganda, age 19

“The current research on self-injection builds a case for offering women this option in the future. For example, women in the current study live several kilometers from the nearest health hut or health post, but many have asked the nurses about the possibility of continuing Sayana Press self-injection beyond the study, to save time and prevent having to travel to the clinic, which is not easy for them. . . . This shows the tangible impact that the implementation of a self-injection policy could have.”

– Marguerite Ndour, PATH Sayana Press Coordinator in Senegal
Milestones: A Short History of Sayana Press

1980s: PATH develops Uniject injection system, originally known as SafeTject.

1990s: PATH and Horizon Medical license Uniject to Becton Dickinson. PATH and the US Agency for International Development begin working with Pharmacia & Upjohn as well as Becton Dickinson to deliver Depo-Provera in Uniject.

2003: Pharmacia merges with Pfizer Inc. and completes clinical research establishing the safety and efficacy of the subcutaneous formulation of Depo-Provera in a prefilled glass syringe.

2008: PATH begins planning for introduction of depo-subQ provera 104 in Uniject (brand name Sayana Press) with funding from major donors.

2011: Sayana Press is registered by the United Kingdom’s Medicines and Healthcare products Regulatory Agency.

2012: The London Summit on Family Planning launches the Family Planning 2020 (FP2020) initiative to make contraceptives available to an additional 120 million women in the world’s poorest countries by 2020. Public and private partners commit to offer Sayana Press to women in sub-Saharan Africa and South Asia between 2013 and 2016.

2013: PATH and FHI360 conclude acceptability studies in Uganda, Senegal, and Ethiopia.


2014: A public-private partnership announced by Pfizer Inc. makes Sayana Press available for 1 USD per dose to qualified purchasers.


2016: The Uganda Ministry of Health establishes feasibility of self-injection for the first time in an African country based on favorable results from the first successful PATH-led self-injection studies in sub-Saharan Africa.


Sayana Press introduction and research: Expanding access and options web page. Available at sites.path.org/rh/?p=292. Sayana Press background resources and references web page. Available at sites.path.org/rh/recent-reproductive-health-projects/sayanapress/sayanapress-resources/. These two web pages are replete with dozens of practical resources about Sayana Press, including fact sheets, newsletters, blog posts, and research publications.

PATH’s Framework for Product Introduction. Available at www.path.org/publications/files/TS_product_intro_framework.pdf. This four-page publication presents a simple but powerful phased approach to advancing public health products from concept to widespread use and summarizes key lessons for maximizing impact in product development, introduction, and integration.