

# Family Planning and Immunization Integration: Reaching postpartum women with family planning services

# and Immunization Integratio

### What is the promising high-impact practice in family planning service delivery?

Offer family planning information and services proactively to women in the extended postpartum period during routine child immunization contacts. The extended postpartum period is defined as the 12 months following a birth.<sup>1</sup>

### **Background**

Most women in the extended postpartum period want to delay or avoid future pregnancies but many are not using a modern contraceptive method.<sup>2</sup> Improving uptake of postpartum family planning (PPFP) can enhance the health of women, infants, and children. Closely spaced births (less than 18 to 24 months apart) are associated with increased maternal, newborn, and child morbidity and mortality including pre-term birth, low birth-weight, and increased neonatal and under age five death.<sup>3-6</sup> Evidence also suggests that unintended pregnancies are associated with negative outcomes such as increased likelihood of inadequate immunization, stunting, and increased maternal

anxiety and depression.<sup>7,8</sup> Despite the significant benefits of the use of voluntary family planning to save lives and improve health outcomes, a large proportion of women in the extended postpartum period may not access contraception as suggested by the fact that birth-to-pregnancy intervals in 50% or more of pregnancies in many low- and middle-income countries are too short (less than 23 months).<sup>2</sup> Given this, it is crucial to take advantage of every health care contact with pregnant and postpartum women to offer family planning information, counseling, and services.

Box 1. Integration of Family Planning With Immunization During and Beyond the First Year of Life: This HIP Brief focuses on integration of family planning with immunization during the extended postpartum period, which is the one-year period after delivery. Additional opportunities beyond this can be identified in vaccination schedules for the second year of life and beyond.

Immunization services offer an important opportunity to reach underserved women in the extended postpartum period. Immunization is one of the most widely used health services globally as shown by high vaccination coverage, with approximately one billion children vaccinated over the past decade. There are multiple touch points through the repeated visits needed to follow the recommended vaccination schedule during the first year of an infant's life. Integration offers benefits such as mitigating constraints related to transportation costs and time while also reducing the burden on the overall health system and, potentially, on individual workloads.

Offering family planning services to postpartum women through infant-child immunization contacts is one of several <u>promising "high-impact practices" (HIPs)</u> in family planning identified by the <u>HIP partnership</u> and vetted by the <u>HIP Technical Advisory Group</u>.

Central to this HIP is the recognition that integration requires *deliberate* efforts to put in place and/or tailor systems, resources, and practices to establish and support the integrated services. Deliberate efforts extend beyond training alone and must include a multipronged approach adapted to the local context. The Theory of Change (Figure 1) for this HIP highlights key barriers and service delivery challenges that must be addressed.

## Why is this practice important?

The broad reach and high use of immunization services reflects an ideal opportunity to reach large numbers of postpartum women with family planning. Immunization services are a cornerstone of the primary health care system, reaching more people than any other health service globally. Analysis across 68 countries showed that women are often more likely to access routine infant immunization services than family planning services. Figure 2 shows the percent of women 6 months postpartum currently using any modern contraceptive method compared to the percent of children who received their third dose protecting against diphtheria, tetanus, and pertussis-containing vaccine (DTP-3) by age one based on data from Demographic Health Surveys (DHS) in selected countries.

Figure 2 highlights that immunization services may offer an opportunity to reach many women who are taking their children to be immunized and who may also want to access family planning.

# Child immunization services involve multiple timely contacts with mothers during the first year postpartum.

The WHO-recommended schedule for the first year of life includes vaccinations at birth, 6 weeks, 10 weeks, 14 weeks,

and 9 months, <sup>12</sup> providing opportunity through multiple contacts with the mother to offer family planning. <sup>13</sup> Figure 3 highlights some opportunities to integrate family planning and immunization at various contacts.

# Evidence suggests that an integrated model is largely acceptable to clients and service providers without having a negative impact on immunization uptake.

Several studies have found providers and users accept family planning and immunization integration and found no negative impact on immunization uptake. 14-17 A study in Malawi found substantial perceived benefits associated with family planning and immunization integration among providers and clients, including time-savings for both groups, and perceptions of improved health among women and young children. Most clients reported that an integrated approach allowed them to access the two services in one day at the same place, unlike in the past. Also, some health care workers noted that integration "improved referrals of clients between the two services." 15 A study in Liberia found high acceptability of family planning and immunization integration when offered in clinics and no negative impact on utilization of immunization services.<sup>18</sup> In an assessment in Rwanda, 98% of women interviewed supported the idea of integrating family planning service components into

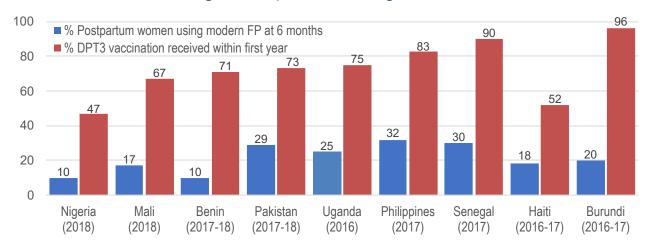
Figure 1. Theory of change

### **Benefits for** Service Delivery High Impact **Barriers Outcomes** Changes Women **Practice** Structural & Improved awareness Lack of policies and/or Increased use of policy changes to support political will to support deliberate integration of return to fertility & PPFP (reduction in Offer FP integration increased unmet need) Modification(s) to information and Cultural norms and/or information about FP approach to fit context contextual factors (e.g., services proactively options to meet rumors that Ensure adequate provider to women in the vaccines sterilize fertility intentions time/capacity and extended children) commodities Sustain or increase postpartum period immunization rates Inadequate human Integrated during routine child supervision, HMIS and resources and/or or other commodities immunization Timeliness of information flow immunization information to contacts utilization measures Lack of continuity of Tracking of address unique indicators for both FP and immunization needs during Concerns about various life stages immunization Linkages for performance if outreach and referrals Reduction in closely not well implemented strengthened spaced pregnancies Challenges posed by Define client integrated flow and ensure client Convenience of supervision privacy accessing multiples Client privacy / Support for male services efficiently discreet FP use engagement Reduction in increases unintended Lack of male satisfaction of clients Approaches responsive engagement to emerging pregnancies and health workers

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challenges/needs

Figure 2. Percentage of women 6 months postpartum using contraception, and percentage of children who received DTP-3-containing vaccine by 12 months of age\*



<sup>\*</sup> The timeframes used in Figure 2 were selected because 6 months coincides with the end of the Lactational Amenorrhea Method (LAM) and 12 months for DPT3 is the timing available in DHS data.

infant immunization services.<sup>16</sup> Additionally, a study conducted in two northwest Ethiopian districts and another study conducted with survey data from Ethiopia, Malawi, and Nigeria found an association between contraceptive use and child immunization.<sup>19,20</sup> It should be noted that in one assessment in four African countries (Kenya, Mali, Ethiopia, and Cameroon), some providers expressed concern about integration potentially being time- and labor-intensive.<sup>17</sup>

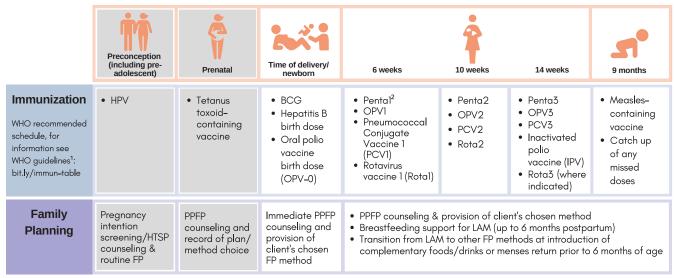
## What is the impact?

The existing evidence suggests that when well planned and executed, family planning and immunization integration services can lead to increased family planning uptake with no negative impact on immunization (Table 1).

The service delivery models below (and in Figure 4) are summarized from the studies in Table 1.

**1. Combined Service Provision:** This model entails the availability of *co-located*, *same-day* family planning services during routine immunization visits. This approach may involve group talks, individualized screening, or brief motivational messages given with the immunization

Figure 3. Opportunities to integrate family planning at various immunization contacts from preconception through the first year of life



<sup>&</sup>lt;sup>1</sup> Vaccination schedules may vary across countries.

Shaded columns are outside the postpartum period and therefore do not pertain to periods relevant to this brief.

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<sup>&</sup>lt;sup>2</sup> Pentavalent vaccine protects against the following five diseases: diphtheria, tetanus, pertussis (whooping cough), hepatitis B and *Haemophilus influenzae* type b (DTP-hepB-Hib)

Table 1. Summary of intervention studies where family planning was systematically offered as part of immunization services

Country/ Citation	Intervention	Effect on Family Planning Uptake	Effect on Immunization Services
Egypt, Ahmed, et al., 2013 <sup>24</sup>	FP counseling to first-time mothers bringing children to immunization services. In the control group no family planning counseling was provided.	The rate of use of family planning methods was higher in women in the intervention group than in the control group.	Not assessed
Liberia, Cooper et al., 2015 <sup>14</sup>	Co-located provision of same-day, facility-based services: vaccinators were trained to provide family planning messages using job aids and same-day family planning referrals to mothers bringing their infants to the facility for routine immunizations.	Increased new contraceptive users among women referred from immunization services to same day, co-located family planning clinic.	Increase in the number of Penta1 and Penta3 doses administered across pilot sites compared with the same period of the previous year in sites in Lofa. In sites in Bong little difference.
Malawi, Cooper et al., 2020 <sup>15</sup>	Nurses and Health Surveillance Assistants (HSAs) offered same day family planning services to mothers seeking routine infant immunization services at facilities. Nurses and HSAs screened family planning clients who were mothers of infants for immunization schedule completion or a need for infant immunization services. During outreach sessions, HSAs offered mothers routine infant immunization and family planning services, including direct provision of pills, condoms, and injectables and referrals for other methods.	Increase in family planning uptake and use at both facility and community service points with integration of family planning and immunization including same-day referrals at colocated facilities and interfacility linkages.	No negative impact on immunization doses delivered or dropout rates
Nepal, Phillipson, 2013 <sup>23</sup>	For women bringing children to immunization services, group education about healthy timing of pregnancies followed by an immunization provider giving further family planning counseling to women who indicated they wish to use contraception. Internal referral provided for methods available at clinic (short acting) or external referral to methods not available onsite (long acting).	Increase in family planning uptake among hard-to-reach population via integration with immunization service	No effect on routine utilization of immunization services
Rwanda, Dulli et al., 2016 <sup>16</sup>	The intervention included family planning group education to women attending immunization services, a family planning brochure, individual family planning screening by an immunization provider or another provider while the child was being immunized, and referral to co-located family planning services.	Increase in uptake and modern contraceptive use	No negative impact on uptake or utilization

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Country/ Citation	Intervention	Effect on Family Planning Uptake	Effect on Immunization Services	
Togo, Huntington et al., 1994 <sup>22</sup>	For women bringing children to immunization services, the provider encourages clients to go to same-day co-located family planning services.	Family planning uptake increased in the intervention group. Awareness of family planning service availability also increased significantly among this group.	Significant increase in the number of vaccines administered per month during the study period in the intervention and control groups	
Did not achieve intended family planning outcome				
Ghana & Zambia, Vance et al., 2014 <sup>21</sup>	Vaccinators were trained to provide individualized family planning messages and same-day referrals to co-located family planning services to women presenting their child for immunization services. There were challenges with fidelity of intervention implementation in this study.	No significant difference in non-condom family planning use. No improvement in referrals to family planning services. Women's knowledge of factors related to return of fecundity did not improve.	Not assessed	
Liberia, Nelson et al., 2019 <sup>18</sup>	Referral of women and their children from immunization services to family planning and vice versa for same-day services at the facility. Family planning leaflets provided to clients who were interested but needed more time to decide. Privacy screens not provided despite shown to be essential in pilot.	Slightly higher family planning uptake in intervention over nonintervention facilities, but differences were not statistically significant.	No negative impact on uptake or utilization of immunization services; no increase in dropout rates.	

service that link the two services. Evaluations using program data in Liberia and Malawi<sup>14,15</sup> and quasiexperimental studies in Ghana and Zambia,21 Rwanda,16 and Togo<sup>22</sup> tested the effects of this model. The studies in Liberia, 14 Rwanda, 16 and Togo 22 found a statistically significant increase in contraceptive use with no change in use of immunization services in Rwanda and Togo, and an increase in the administration of Penta1 and Penta3 vaccinations in pilot sites in Liberia. In Ghana and Zambia, the intervention did not lead to a statistically significant increase in contraceptive uptake and data on the effect on immunization services was not collected. Process data from Ghana and Zambia indicated that the model was not implemented as planned. In Zambia, family planning information was often given in group talks rather than one-on-one, and in Ghana, messages were not delivered consistently.<sup>21</sup>

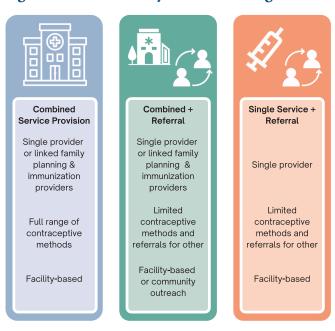
**2. Combined Service Provision Plus Referral:** This model entails the availability of *co-located, same-day or follow-up* family planning services for methods available at the site during routine immunization visits *plus* the

provision of *offsite referrals* for methods not available at the facility. A Nepal operations research study found that this model successfully increased access to family planning information and counseling for women who attended immunization services without a negative impact on immunization uptake.<sup>23</sup> Additionally, in this model the service provision may also happen *in the community* (outside of health facilities), helping to address access barriers by bringing services closer to clients. This model was also successfully implemented in Malawi where paid community health workers who were linked to primary care facilities provided both immunization services and family planning counseling and short-acting methods, and made referrals for long-acting and permanent methods.<sup>15</sup>

**3. Single Service Provision Plus Referral:** This model, which involves offsite referrals or referrals requiring a follow-up visit at the same location, may be most appropriate where co-located, same-day services are *not* feasible. A study in Egypt tested this model finding increases in family planning uptake.<sup>24</sup>

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Figure 4. Service delivery models for integrated care



### How to do it: Tips from implementation experience

Based on programmatic experience, the following strategies can help facilitate successful integration of family planning and immunization services.

### **Program design**

- the integrated approach. This is critical to ensure a service delivery model that addresses contextual factors (e.g., gender norms and beliefs around postpartum abstinence, PPFP, privacy, and client preferences). It is also key to designing effective communication tools to enhance service quality. Formative research should explore the system context including infrastructure, client flow, privacy, provider workload, and job descriptions. For example, when exploring options to integrate family planning into well-attended immunization sessions in Bangladesh, the need for an additional cadre to be present was revealed. This also highlights the importance of understanding such human resources considerations from the outset.
- Design integrated services with systems in mind. Deliberate modifications to existing systems are necessary, including revising job descriptions for providers, supervisors, and other staff; reorganizing client flow and other aspects of service delivery; ensuring contraceptive and vaccine commodities are available; ensuring that systems track the number of referrals from one service to the other; conducting initial, refresher, on-the-job training and/ or mentoring; and providing job aids with tasks and standards for integrated services.

- Design integrated services to avoid negatively affecting immunization. Ideally, integration will create "win-win" outcomes for both immunization and family planning services to foster buy-in. Integration of immunization into family planning services can benefit immunization programs by providing additional opportunities to reach zero-dose and under-immunized infants, children, and communities.
- Consider additional integration of family planning and immunization services with other health services to holistically address client needs. Integrating in immunization visits may be even more effective at encouraging PPFP use by 12 months postpartum if PPFP is discussed during pregnancy and/or at the time of birth. Thus, it is important to consider implementing family planning and immunization integration concurrently with immediate PPFP when possible (see HIP on immediate PPFP). Also, in Kenya, integrated approaches to reach pastoralist communities living in remote areas include a cross-sectoral, "one health" approach offering family planning/reproductive health and maternal and child care along with veterinary care for nomadic populations at watering points, and mobile outreach to serve remote locales. Observed benefits include reduction in distances traveled by clients, increased turnout, increased immunization coverage, and increased uptake of family planning.<sup>25,26</sup>

### Program implementation

- Do not integrate family planning services into mass vaccination campaigns. These campaigns often occur episodically, are often chaotic in nature, are highly donor-dependent, and typically disease-specific. Family planning provision requires ongoing services, including counseling to address side effects, method switching (if desired), resupply of methods, and other follow-up. Provision of family planning education is also not appropriate during mass vaccination campaigns because experience shows challenges with lack of privacy for family planning counseling and a risk of misinformation being circulated.
- Keep family planning messages simple and reinforce provider communication skills via training, job aids, and on-site mentoring for vaccinators. Some vaccinators may lack effective communication skills. In Ethiopia, for example, a study in the Benishangul-Gumuz region concluded that vaccinators do not communicate all key immunization messages to caregivers and need interpersonal communication training to improve their skills and practice.<sup>27</sup> To gain the skills and confidence to provide family planning information

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or conduct screening or referrals, vaccinators should receive training, on-site coaching, and user-friendly job tools and job aids.

- Consider systematic screening. Systematic screening is an evidence-based approach to comprehensively assess clients' needs in a single visit using a standardized checklist. Evidence indicates that systematic screening helps to increase family planning uptake when used at facilities<sup>28</sup> and communities.<sup>29</sup> Systematic screening can lead to increased referrals from immunization to family planning.<sup>30</sup>
- Establish straightforward referral systems that facilitate client access to family planning services. For intra-facility or cross-unit collaboration, there should be options for both same-day and different-day referrals. Same-day referrals may increase convenience for some clients, but others may prefer to return on a different day out of privacy concerns or because they want to discuss family planning with their partner. When offering same-day services, encourage providers to confirm that mothers receive both family planning and immunization through simple measures such as jointly comparing registers for specific periods on a regular basis. Tracking referrals can involve simple paper tallies/dashboards to create feedback loops between originating and receiving providers.
- Assess the acceptability of integrated services in open air or outreach sites. In some contexts, integrated service in the open may not be acceptable due to community norms and privacy concerns. In Liberia, for example, greater privacy with screens in fixed facilities reduced stigma of family planning use in context of postpartum abstinence norms and ensured women's confidentiality as they made decisions about family planning use. 14 That program did not include outreach sites for this reason. 31 Elsewhere, privacy screens or alterations to client flow to increase confidentiality can help to address any client concerns. 18,32
- Ensure a clearly defined client flow to provide both services within a specified window of time during outreach services. An evaluation of an integrated outreach program in Malawi found that improving client flow increased efficiency when handling a high volume of clients, improved community health worker (CHW) confidence, and resulted in more consistent documentation.<sup>33</sup>
- Ensure outreach services are well staffed. Increase
  the number of providers on anticipated busy days such
  as market days to avoid having long wait times. Also,

consider having CHWs rotate positions at different service points during outreach services to offer both family planning and immunization services side-by-side to maintain proficiency in providing both services. Experience in Malawi showed that sufficient numbers of CHWs supported by the addition of community volunteers were key factors in providing integrated services.<sup>33</sup>

### Program monitoring, evaluation, and adaptation

- Tailor integrated services to address client needs using an iterative, data-based, team-driven process. Tailoring services requires a dynamic, data-driven, team-based process that should be centered on information/data gathered from various sources including routine monitoring and evaluation, supportive supervision, input from clients, community leaders, and staff from different departments and cadres. Data-driven problem identification and team engagement will help to generate service provider buy-in and ownership to foster effective followthrough. An assessment of family planning and immunization integration in Benin, for example, emphasized the importance of monitoring progress to address emerging challenges.<sup>32</sup> Tailored approaches may result in several models being used in one setting to address the specific needs of underserved populations (e.g., adolescents, young married couples, pastoralist communities).
- Monitor integration's impact on both family planning and immunization services and outcomes.
   Ongoing monitoring and supportive supervision can uncover additional constraints to integration of services. Avoiding negative impacts on immunization outcomes is essential to ensure collaboration.

### **Indicators**

The following indicators are proposed for the measurement of family planning and immunization integration practices across programs:.

- Number/percent of service delivery points that integrate family planning services during immunization visits disaggregated by health facility or outreach service delivery point. (Family planning services should include provision of contraceptive services and methods that goes beyond merely providing family planning information).
- Number/percent of women attending routine immunization services who follow through on a family planning referral from a vaccinator.

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## **Priority Research Questions**

- What are feasible and validated indicators to routinely monitor the integration of family planning and immunization without creating extra workload for health care providers and other staff?
- Does integration lead to cost savings or other efficiencies in terms of organization of care or deployment of staff resources in various settings?
- What are some key considerations to make family planning and immunization integrated services responsive to adolescent needs (e.g., to address the specific needs of adolescents and youth who are firsttime parents)?
- What integration models are more effective in different contexts? How is the success or failure of integrated service delivery affected by contextual factors within the service setting and community?

### **Tools and resources**

- Family Planning and Immunization Integration Toolkit https://toolkits.knowledgesuccess.org/toolkits/family-planning-immunization-integration
- Key Considerations for Monitoring and Evaluating Family Planning (FP) and Immunization Integration Activities https://toolkits.knowledgesuccess.org/sites/default/ files/FP%20Immunization%20Monitoring%20and%20 Evaluation%20Briefer\_0.pdf

### References

A complete list of references used in the preparation of this brief can be found at: <a href="https://www.fphighimpactpractices.org/wp-content/uploads/2017/06/FP-Immunization-References\_2021.pdf">https://www.fphighimpactpractices.org/wp-content/uploads/2017/06/FP-Immunization-References\_2021.pdf</a>

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The World Health Organization/Department of Sexual Reproductive Health and Research has contributed to the development of the technical content of HIP briefs, which are viewed as summaries of evidence and field experience. It is intended that these briefs be used in conjunction with WHO FP Tools and Guidelines: <a href="https://www.who.int/health-topics/contraception">https://www.who.int/health-topics/contraception</a>.

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