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Ensuring contraceptive security through effective supply chains

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Ensuring contraceptive security through effective supply chains

Strengthening supply chains to meet the growing demand for family planning will require systems diagnostics, supply chain redesign or adjustments, strategically located storage and distribution systems, adequate staffing and training, and better information about inventory and financing.

Establishing and maintaining well-functioning supply chains that meet the needs of public and private sectors, as well as health professionals at all levels in family planning (FP) programmes, will play a critical role in reducing unmet need for modern contraception in low and middle income countries (LMICs). Supply chain management comprises the steps involved in moving a product from the supplier to the customer (1). Lack of access and supply chain failures are principal reasons cited by women in LMICs for non-use of contraceptives and contraceptive discontinuation (2,3,4).

Efficient supply chains improve quality of care and support women’s choice of modern contraceptive methods by reducing stock-outs of supplies and medical equipment (5). Insufficiencies in supply chains are attributable to a variety of causes, including low client demand and lack of trained staff. The number of countries in which at least 85 percent of primary service delivery points offered three or more methods increased from 7 in 2013 to 20 in 2015(6).

BARRIERS AND CHALLENGES

Several factors contribute to weak supply chains in LMICs, especially in rural and peripheral areas where clients are hard to reach. Barriers include:

• Weak logistics management information systems and inadequate information about inventory, financing, and product flows to guide procurement (7,8,9,10).
• Inadequate infrastructure, including insufficient road networks and lack of appropriate storage facilities (8,9,10,11).

POLICY AND PROGRAM CONSIDERATIONS

To establish and maintain well-functioning supply chains for contraceptives:

• Improve logistics information for inventory management; use mobile technology to improve reporting between supply chain levels; and consider different supply chain models designed to address inefficient operations.
• Leverage the expertise of the private and public sector to ensure a total market approach to supply chain management.
• Strengthen the capacity of public and private sector family planning providers and managers and create opportunities for their closer collaboration.
• Absence of a stable, well-trained human resource base dedicated to supply chain management (8,9,11,12,13).
• Inadequate domestic and international funding for the procurement of commodities (7,9,10).

Strengthening supply chains to meet the growing demand for FP will require systems diagnostics, supply chain redesign or adjustments, strategically located storage and distribution systems, adequate staffing and training, and better information about inventory and financing. An effective and efficient supply chain helps women meet their reproductive intentions (14).

Effective supply chains also have the potential to create and meet latent demand for methods that were previously unavailable, as exemplified by Senegal’s use of the informed push model (IPM), where sharp increases of 11 percentage points were recorded in one year in the Dakar region due to the reliable availability of commodities (9).

CONSIDERATIONS FOR ENSURING CONTRACEPTIVE SECURITY THROUGH EFFECTIVE SUPPLY CHAINS

Two evidence-based solutions address the challenges described above:

• Increase the visibility of product flows and user demand. Improve logistics information for inventory management; use mobile technology to improve reporting between supply chain levels (15); consider different supply chain models designed to address inefficient operations; and reevaluate pull-based systems if they are ineffective (9).
• Leverage the expertise of the private and public sector to ensure a total market approach to supply chain management. Strengthen the capacity of public and private sector FP providers and managers and create opportunities for their closer collaboration (8,11,12,13,16,17,18).

In the context of supply chain optimization, the following solutions have been enacted in innovative ways:

• Implementation of national collaborative platforms or VANs (Visibility and Analytics Networks) of people, processes, and technology that capture and use supply chain data from multiple sources to improve decision making (6).
• Creation of a “Global Visibility and Analytics Network” (Global VAN) that streamlines access to in-country data and reduces parallel data flows, while also capturing data from manufacturers, procurers, freight forwarders, and others in the supply chain. The Global VAN facilitates data harmonization and provides a single platform for obtaining the data needed to ensure the supply of products to country programmes (19). Adoption of common data standards and “trace and tracking” options for health commodities will facilitate global metrics (20,21).

• Adoption of the informed push model of contraceptive distribution in Senegal and Togo has resulted in greater operational efficiencies and the potential for increased quantities of supplies to drive demand and use (9,22).
• Commitment by the governments of Ethiopia, Malawi, and Rwanda to strengthening supply chains for modern contraceptives has demonstrated that the greatest benefits are realized when product flow, data flow, and effective people are in place and working together (8).
• Strengthening supply chains involves policy and programmatic activities such as integration and decentralization. The government of Chile uses framework contracts to pool procurement of essential medicines in a decentralized health system. These contracts save the Chilean government nearly US$8,000 per procurement in management costs and create a more agile supply chain (23).
• Integration of family planning services into other health services is promising and often leads to merging of programmatic activities. Supply chain interventions must have political commitment from national governments; active involvement of all stakeholders; adequate financial and manpower resources; appropriate quality and quantity of supplies; and effective logistics management, including forecasting, inventory control, distribution, and data.

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