

Nigeria: Contraceptive Logistics Management System Assessment Report



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USAID | DELIVER PROJECT, Task Order I

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Abstract

In June 2007, the Federal Ministry of Health (FMOH), with technical assistance from UNFPA and the USAID | DELIVER PROJECT, Task Order I, conducted an assessment of the performance of the logistics management and supply chain system for contraceptive commodities in Nigeria.

The survey's overall objective was to assess how the logistics systems managed selected contraceptive commodities at public health institutions. This report presents the findings of the assessment as well as recommendations to improve the contraceptive logistics systems in Nigeria.

USAID | DELIVER PROJECT

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Abbreviations and Acronyms

CIDA	Canadian International Development Agency
CLMS	contraceptive logistics management system
DCDPA	Department of Community Development and Population Activities
DCR	daily consumption record
FCT	Federal Capital Territory
FEFO	first-to-expire, first-out
FMOH	Federal Ministry of Health
FP	family planning
ICPD	Cairo International Conference on Population and Development
IUCD	intrauterine contraceptive device
LGA	local government area
LIAT	Logistics Indicators Assessment Tool
LMIS	logistics management information system
LSAT	Logistics System Assessment Tool
MCH	maternal and child health
NGO	nongovernmental organization
NPHCDA	National Primary Health Care Development Agency
PPFN	Planned Parenthood Federation of Nigeria
RH	reproductive health
RHCS	reproductive health commodity security
RIF	Requisition and Issue Form
RIRF	Requisition, Issue, and Report Form
SDP	service delivery point
SDR	Store Distribution Report
SMOH	State Ministry of Health
STI	sexually transmitted infection
TFR	total fertility rate
UNFPA	United Nations Population Fund
USAID	U.S. Agency for International Development

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We hope that this report will contribute to improving the reproductive health commodity security situation in Nigeria.

Executive Summary

With a current population of 140 million and a growth rate of approximately 2.4 percent per annum, Nigeria is the most populous country in Africa (PRB, 2007). Nigeria's youth-dominated age structure, with approximately 44 percent younger than age 15, will have a significant effect on the growth rate, particularly because almost half the population will be at or reaching reproductive age within the next 15 years. In addition, the fertility rate in Nigeria is high, at an average of 5.7 children per woman (NDHS, 2003). Although the total fertility rate (TFR) has declined slightly from 6.0 in 1990, current rates, coupled with a desired large family, indicate that further immediate decreases will likely continue to be minimal.

Current use of family-planning (FP) methods in Nigeria is low. Only 8 percent of married women use a modern method, and only about one in four women obtain their modern methods from a public sector facility (NDHS, 2003). In addition, intention to use FP (among married women who are not currently using an FP method) is also relatively low, at 64 percent (NDHS, 2003).

The Federal Ministry of Health (FMOH) and its partners recognize that the achievement of deceleration in the population growth rate requires an effective and efficient contraceptive logistics management system (CLMS). The effort to strengthen the CLMS began with a baseline assessment in 2002 to provide key baseline indicators on the performance of the contraceptive supply chain at all levels. The assessment provided program planners with information to design interventions to improve the CLMS and to measure progress toward reproductive health commodity security (RHCS) over time.

Findings from a second assessment in 2005, along with a review of supervision and program reports at the central level, indicated that reporting and ordering, according to the outlined procedures, were problematic. To address those issues, a streamlined system was designed and piloted to improve efficiency.

The current 2007 assessment serves as a follow-up to the previous assessments to gather current information on national stock status of all contraceptive commodities at the facility level, as well as to identify current commodity management practices throughout the system. The specific objectives of the assessment were to accomplish the following:

- Evaluate the progress made toward increased product availability and improved logistics practices since the 2005 assessment.
- Provide current information on key logistics performance indicators and commodity management practices to inform recommendations for the improvement of commodity availability.

An analysis was completed for the national, urban, and rural levels of the 2007 assessment, and findings for key indicators were compared with those of the 2002 and 2005 assessments.

National-Level Findings

Stock status indicators demonstrate that contraceptive availability on the day of the visit was relatively high for most contraceptives with low stockout in the six-month period preceding the survey. However, the average duration of stockout was high, sometimes as long as the whole six-month period. Survey findings also indicated that most contraceptives are in —or approaching—undersupply at facilities.

Nationwide coverage of trained personnel is very high, particularly through formal CLMS training. Stockcard availability to record and report key logistics data is fairly high as well. However, a gap still exists in availability of all the necessary forms at the facility level, as well as timely filling of the available forms. This lack of forms indicates a gap in the application of knowledge from training to practice among service providers. Reporting is fairly poor, despite the high proportion of trained staff. Of those reports sent, complete and accurate reports were also very low.

Cost-recovery mechanisms, designed to help ensure sustainability of the program, were lacking in several key areas. A little more than half of the facilities kept appropriate ledgers or cash books, and approximately 60 percent had accurate records. Few stores kept separate bank accounts for contraceptive management, and many reported not understanding how to use the margins correctly.

Record keeping was also low among facilities assessed, with only a little more than 25 percent accurately completing the Requisition and Issue Forms (RIFs), less than half completing the daily consumption record correctly, and approximately one-half of the stores maintaining accurate stockcards.

Supervision, a key element for reinforcing proper procedures and learned practices, was also lacking in several key areas. Supervision checklists were used in less than half of the supervision visits that took place since 2004. A little more than 50 percent of the sampled sites had received any supervision visits in the three months preceding the survey. Transportation also remains a critical weak element in the system. The majority of stores report collecting their stock from the level above them, many do not have available transportation, and most rely on public transportation. Such a situation creates problems with regard to security of the commodities, inability to restock at proper supply levels because of carrying capacity, and financial burdens and constraints on facility personnel.

Storage conditions in general were high for all facilities. Only about 15 percent of facilities were in the unacceptable range, with the remaining 85 percent meeting acceptable or excellent storage conditions. The most commonly cited poor conditions included nonavailability of fire safety equipment, lack of organizational procedures such as first-to-expire, first-out (FEFO), and visible dates and labels.

Key Recommendations

- The Federal Ministry of Health should ensure that ordered commodities are distributed to the states in line with the distribution calendar.
- Implementers at all levels should adhere strictly to the CLMS ordering guidelines.
- Authorities, such as program managers, should intensify supportive supervisory visits at all levels according to the supervision plan.

- A program should be in place for advocacy to policymakers at all levels for support for the printing and distribution of logistics management information system (LMIS) forms and other management tools.
- States that have not yet opened a cost-recovery account should do so as soon as possible.
- Computerization of LMIS should take place at central and state levels to ensure prompt response and efficient management of commodities.

Results at Urban and Rural Levels

Urban and rural comparisons were made for several key indicators to ascertain potential differences between facilities in corresponding locations. In general, rural facilities fared worse than urban facilities on most key indicators.

Urban facilities consistently demonstrated higher levels of contraceptive availability on the day of visit, as well as lower stockout rates in the six-month period preceding the survey, than did the rural facilities. Urban facilities also generally had greater availability and updating of stockcards than did rural facilities. Though reporting in general was poor among all facilities, urban facilities had higher reporting levels than did rural facilities.

In terms of inventory control, a greater percentage of urban stores than rural stores reported ordering according to established minimum and maximum levels. Urban stores placed more emergency orders and service delivery points (SDPs) than did rural ones. Fewer rural facilities reported having a cash book, and almost three times as many urban stores reported having a separate bank account for contraceptives. Record keeping showed similar dynamics between urban and rural facilities, with a higher percentage of urban facilities keeping complete and accurate daily consumption records.

Supervision was also poorer among rural facilities; almost twice as many urban facilities received visits using the supervision checklists than did rural ones. Although the majority of both urban and rural facilities relied on public transportation to collect commodities, a higher percentage of urban stores had commodities delivered to them, which eliminated some of the transportation difficulties. The category of facilities meeting acceptable storage conditions showed little differentiation between urban and rural facilities, although more urban stores met excellent conditions than did rural ones.

Key Recommendations

- Authorities, such as managers of health services/commodities logistics, should intensify regular supervisory visits at all levels of the system, including rural and urban.
- Cash books should be available and should be checked regularly to ensure accountability.
- A program should be in place for advocacy to policymakers at all levels for support for the printing and distribution of LMIS forms and other management tools.
- All FP coordinators should adhere strictly to the CLMS ordering guidelines.

Comparison of Data Findings

Five states that were common to the sampled sites in 2002, 2005, and 2007 were included in the comparison: Bauchi, Edo, Enugu, Oyo, and Sokoto.

No clear-cut trend exists with respect to contraceptive availability on the day of the visit across the three surveys. Although availability increased for the male condoms Depo-Provera and Microgynon on the day of each survey from 2002 to 2005, availability of those same commodities decreased in 2007. The most significant jumps in contraceptive availability were made from 2002 to 2005, possibly because of intensive activities related to the improvement of the CLMS and seed stock distribution. The data indicate a clear trend of improvement in stockcard availability, with the most significant jumps made between 2005 and 2007 for all seven products: condom male, Excluton, IUCS, Lo-Feminal, Noristerat, Depo-Provera, and Microgynon. A discernible improvement exists between 2005 and 2007 for the percentage of facilities updating stockcards for all products, with the greatest improvements for intrauterine contraceptive devices (IUCDs) and Microgynon. The percentage of service providers adhering to the storage guidelines not only improved over the years but also showed a marked increase from 2005 values to those of 2007 for all 15 conditions, which are the following:

- 1. Identification and expiry date are visible on products.
- 2. Products are arranged on FEFO.
- 3. Cartons are in good condition.
- 4. Damaged products are removed from inventory.
- 5. Products are protected from direct sunlight.
- 6. Cartons and products are protected from water and humidity.
- 7. Storage area is free from harmful insects and rodents.
- 8. Storage area is secure with lock and key.
- 9. Another staff member has access to contraceptives when provider is absent.
- 10. Products are stored at appropriate temperature.
- 11. Roof is maintained in good condition to keep out sun and water.
- 12. Store is kept clean.
- 13. Space is sufficient for commodities.
- 14. Fire safety equipment is available and accessible.
- 15. Products are stored separately from insecticides.

Key Recommendations

- The FMOH should ensure that ordered commodities are distributed to the states on time.
- FP coordinators should adhere strictly to the CLMS ordering guidelines to improve contraceptive availability at all levels and facilities.
- Contraceptives seed stock should be provided to all newly established SDPs.

Background

In achieving improved family planning (FP) and reproductive health (RH) outcomes, Nigeria faces many challenges. With a current population of 140 million and a growth rate of approximately 2.9 percent per annum, Nigeria is the most populous country in Africa (NPC, 2006). Nigeria's youth-dominated age structure, with approximately 44 percent of the population younger than age 15, will have a significant effect on the growth rate; almost half the population will be at or reaching reproductive age within the next 15 years. Even if growth immediately drops to replacement rates, the Nigerian population will effectively double in the next 25 years.

The fertility rate in Nigeria is high, at an average of 5.7 children per woman (NDHS, 2003). Although the total fertility rate (TFR) has declined slightly from 6.0 in 1990, current rates—coupled with a desired large family—indicate that further immediate decreases will likely continue to be minimal.

Current use of FP methods in Nigeria is low. Although 77 percent of women and 90 percent of men know of at least one modern FP method, only 8 percent of married women use a modern method, and only 25 percent of women obtain their modern methods from a public sector facility (NDHS, 2003). However, intention to use FP among married women who are not currently using an FP method—is at 64 percent (NDHS, 2003).

Decelerating the population growth rate requires a careful balance between decreasing the demand for large families and simultaneously increasing the supply and use of FP commodities. The *National Policy on Population for Development, Unity, Progress, and Self-Reliance* emphasized RH as a priority in efforts to achieve this sustainable balance between population growth and resources. Revised in 2004, the current *National Policy on Population for Sustainable Development* is designed to achieve the following objectives:

- Improve the quality of life and standard of living for the Nigerian people.
- Expand access to and coverage of RH services, and improve the quality of those services.
- Strengthen and expand a comprehensive FP and fertility management program to ensure that all couples or individuals who want contraceptives have access to a reasonable range of methods at affordable prices.
- Strengthen and improve safe motherhood programs to reduce maternal mortality and morbidity and to enhance the health of women.

The Federal Ministry of Health (FMOH) and its partners have recognized that an effective logistics system that ensures the continuous availability of RH and FP commodities is a critical element in achieving those objectives and in attaining RH commodity security. Such a system will guarantee that all individuals and couples will have continuous access, on a voluntary basis, to the quality products they need for FP and RH. In 2001, the FMOH developed a national reproductive health policy and strategy as a commitment to the provision of quality-integrated FP and RH programs, which were consistent with the goals of the 1994 Cairo International Conference on Population and

Development (ICPD). In 2003, the FMOH and its partners developed the *National Strategic Plan for Reproductive Health Commodity Security* to support the national policy objectives. The six components of the strategy include coordination, demand, finance, logistics, policy, and service delivery. As a result of support for those policies and strategies, increased resources have been directed toward strengthening the Contraceptive Logistics Management System (CLMS).

Efforts to strengthen the CLMS began with a baseline assessment. In 2002, the FMOH/Department of Community Development and Population Activities (DCDPA), in collaboration with the USAID | DELIVER PROJECT, and United Nations Population Fund (UNFPA), conducted an assessment to provide key baseline indicators on the performance of the contraceptive supply chain at all levels. The logistics assessment provided program planners with information to design interventions to improve the CLMS and to measure progress toward reproductive health commodity security (RHCS) over time.

Overview of the Redesigned CLMS

Following the baseline assessment in 2002, DCDPA and its partners organized a system redesign workshop to improve the effectiveness and efficiency of the CLMS. The workshop resulted in five major outcomes: (a) the zonal tier of warehouses was eliminated to shorten the pipeline, (b) standard operating procedures were developed and disseminated, (c) new logistics forms were developed and introduced to all levels of the system, (d) cost recovery was introduced to generate funding and to provide incentives, and (e) RH and FP logistics officers and service providers were trained in all 36 states and the Federal Capital Territory (FCT) at all levels of the system.

One product that was developed as part of the redesign was the *CLMS National Handbook*. The handbook covers seven primary topics: (a) forecasting and procurement, (b) inventory management, (c) clearing and storage, (d) transportation and distribution, (e) logistics management information system, (f) cost recovery, and (g) logistics system monitoring and supervision (LMIS). The handbook and other CLMS management tools and contraceptive seed stock kits were distributed during the national rollout.

The forecasting and procurement elements of the CLMS are the responsibility of the FMOH at the central level. The system prepares forecasts annually using issues data from the central contraceptive warehouse. The FMOH works with UNFPA to finalize its procurement plans; UNFPA organizes funding through the Canadian International Development Agency (CIDA) Trust Fund and its global thematic trust fund for the procurement of commodities using its procurement system.

Under the system, inventory management uses defined minimum stock levels and fixed ordering periods. The system is structured so that facilities order from the immediately next higher level according to the established ordering frequency (for instance, service delivery points [SDPs] order from the local government areas [LGAs]; LGAs order from the states; and states order from the central warehouse).

The central level is responsible for the clearing and storage of RH commodities, as well as for transit and custom clearance when contraceptives arrive in Nigeria. Commodities are then stored in the central contraceptive warehouse in Lagos. The transportation and distribution of commodities are implemented according to a distribution calendar at all levels of the system.

The LMIS component of the system collects data about daily consumption, stock on hand, and distribution activity (for stores only), and it reports to the next higher level of the system. LMIS information is used to make key management decisions and to improve customer services.

The cost-recovery scheme is a significant component of the CLMS redesign. A price structure was developed, and the system was designed to operate on a cash-and-carry basis. Below the central level, the cost-recovery system operates like a contraceptive revolving fund, using funds earned from contraceptive sales to purchase future supplies and to provide margins to cover other costs, such as transportation and supervision.

The system primarily serves the public sector facilities, but it also provides contraceptives to approved central- and state-level, not-for-profit, nongovernmental organizations (NGOs), such as the Planned Parenthood Federation of Nigeria (PPFN).

Overview of the Streamlined CLMS

Field teams conducted a second assessment in 2005. Findings from the assessment, as well as a review of supervision and program reports at the central level, indicated that reporting and ordering, according to the outlined procedures, were problematic. In addition, state FP coordinators raised concerns that the number of forms to be completed was cumbersome, making on-time reporting more difficult.

To address those issues, a streamlined system was designed and piloted to improve efficiency. Redesign workshops were held in September and October 2005, resulting in three major outcomes: (a) streamlined existing forms, (b) simplified inventory control system, and (c) improved training methodology. The streamlined system was piloted in three states—Bauchi, Kano, and Nasarawa—to test the system from March through August 2006.

The 2005 assessment revealed that the number of forms currently being used in the redesigned system could be reduced to make the process more manageable (from 11 to 8 forms). Under the streamlined system, the Store Distribution Report (SDR) was eliminated, and the Requisition and Issue Form (RIF) and the Quarterly Reporting Form were combined into one Requisition, Issue, and Report Form (RIRF). The RIRF is self-balancing to allow facilities to calculate their order quantities.

Under the existing system, facilities use fixed ordering periods and defined minimum, but no defined maximum, stock levels. As a result of this inventory control system, facilities were often left holding large quantities of stock. Obtaining those stocks also required much of the facility's revenues from the cost recovery. The system posed financial constraints as well as increased potential for commodities to expire in the system. The streamlined system proposed minimum and maximum stock at each level, thereby requiring each facility to bring its stock to the maximum stock level at each reporting period. The design was to prevent current stock imbalances by putting in place procedures that would guide each facility to remain within the minimum and maximum levels at all times. In addition, the design reduced the quantities that each facility would have to buy, thus enabling the each facility to spend less of its margin for resupply.

In addition, to address gaps in skill sets of trained personnel, the training methodology was adjusted to allow for smaller groups and a greater hands-on experience for trainees. The methodology used during the trainings was also modified from a didactic to a more participatory approach.

Assessment Purpose and Objectives

The 2007 assessment serves as a follow-up to the 2002 baseline and 2005 midterm assessments. It provides a comprehensive picture of the current status of the contraceptive logistics management system (CLMS) at all levels of the system.

The purpose of the assessment was to gather current information on national stock status of all contraceptive commodities at the facility level, as well as to identify current commodity management practices throughout the system. The information was also used to inform recommendations to improve commodity availability and to improve the current state of the CLMS.

The specific objectives of the assessment were to accomplish the following:

- Evaluate the progress made toward the goal of increased product availability and improved logistics practices since the 2005 assessment.
- Provide current information on key logistics performance indicators and commodity management practices to inform recommendations that will improve commodity availability.

The assessment will provide national program planners and managers, particularly the Federal Ministry of Health, the U.S. Agency for International Development, and the United Nations Population Fund, with information to improve the functioning of the overall system and to continue to measure progress of the system over time.

Assessment Methodology

The primary tool used in the assessment was the Logistics Indicators Assessment Tool (LIAT). The LIAT assesses health commodity system performance and commodity availability at health facilities, and it provides stakeholders with up-to-date information on the current operating systems for contraceptive commodities management. The study collected quantitative information on the contraceptive logistics management system (CLMS) and assessed (a) the performance of the logistics system that manages family planning (FP) and reproductive health (RH) commodities, (b) the knowledge and understanding of the system by individuals at each level of the system, (c) the cost-recovery system, and (d) the availability of FP and RH commodities. To collect information from all levels of facilities in the system, the study also assessed specific activities, such as ordering and issuing, reporting, monitoring and supervision, and maintaining storage conditions. The instrument was adapted for the Nigerian CLMS system and was further revised with input from data collectors during the training period and following a pilot test. The final instrument is included in Appendix E.

Sampling Framework and Methodology

The decision to have two states in each of the six geopolitical zones in Nigeria, as well as to treat Lagos as a special state because of its highly urban nature, guided the selection of states. Therefore, 12 states and Lagos, which has equal weight as a state, were selected for the assessment. The states of each zone were stratified according to their sociocultural types and the level of CLMS reporting from those states. The final selection included the nine states that were assessed in 2005 (Bauchi, Edo, Enugu, the Federal Capital Territory, Kano, Lagos, Nasarawa, Oyo, and Sokoto) for the purposes of matching and trend analysis, as well as four additional states: Abia, Akwa-Ibom, Borno, and Ogun.

A 30 percent increase occurred in the number of health facilities covered over that of the 2005 assessment (from 158 in 2005 to 208 in 2007). The sample included 32 health facilities in each zone and 15 health facilities allocated to Lagos state. Each state's contribution to the 32 from the zone was proportional to the total number of facilities in each state with the exception of the South-West zone. For that zone, one state has less than a quarter of the facilities in the zone, and a direct random sampling could have led to a very small number of sites being selected from the state. Sampling in this zone was, therefore, based on a purposive allocation of sites across the geographic spread of facilities to ensure that each state had half of the selected sample sites and, therefore, a more representative sample.

In addition, to ensure wider representation and coverage, as well as a reasonable degree of confidence, three health facilities were selected in each local government area (LGA) in the state. For cost-effectiveness and time management, LGAs and health facilities that were contiguous were selected. The Federal Ministry of Health (FMOH) selected the LGAs and health facilities (listed in Appendix A) to minimize possible bias if the State Ministry of Health (SMOH) had made the selections.

The total sample size included 208 service delivery points (SDPs) and 73 stores (60 LGA stores and 13 state stores) for a total sample size of 281. For a complete sampling list, please refer to Appendix A. (See table 1 for a partial sample.)

Zone	State	Total Health Facilities	Proportional Contribution to Health Facilities by State	No. of Health Facilities Selected	No. of LGAs Selected	No. of State Stores Selected
South-West	Ogun	188	0.13*	16	5	I
South-west	Оуо	588	0.87*	16	5	I
South South	Akwa Ibom	119	0.46	15	5	I
South-South	Edo	138	0.54	17	6	I
South-East	Abia	77	0.70	18	5	I
	Enugu	34	0.30	14	4	I
North-East	Borno	18	0.09	15	5	Ι
North-East	Bauchi	184	0.91	18	5	I
North-Central	Nasarawa	64	0.50	17	5	I
North-Central	FCT-Abuja	31		15	0	I
North-West	Sokoto	176	0.37	13	4	I
	Kano	301	0.63	19	6	I
Special State	Lagos	125		15	5	I
TOTAL	13	1,918	0.12	208	60	13

Table I. Sampling Matrix with Proportional Contributions by State

Note: LGA = local government area.

* Equal allocation adopted.

Indicator Choice

A set of standard indicators was selected to include those measured in 2002 and 2005, as well as additional indicators to provide a broader measurement of stock status and operating systems. This expansion of indicators allows for comparability with 2005 results and provides stakeholders with comprehensive information regarding the current situation. Table 2 lists select indicators, and Appendix B lists a full set of indicators.

Table 2. List of Indicators

Indicators	Data Source(s)		
Stock Status			
Availability of contraceptive methods on the day of visit	Stockcard records, respondent, and physical inventory		
Percentage of facilities stocked out of products in the previous six months	Stockcard records, respondent, and physical inventory		
Average number of days a product was stocked out in the previous six months	Stockcard records, respondent, and physical inventory		
Average frequency of stockouts of a product in the previous six months	Stockcard records, respondent, and physical inventory		

Data Source(s)		
Stockcard records and physical inventory		
rstem		
Respondent		
Presence of stockcards and evidence of use in facilities and stores		
Comparison of stockcard balance and physical inventory count		
Respondent		
Presence of distribution reports and evidence of proper use		
Respondent		
Respondent		
Presence of cash book or record		
Evidence of proper use in cash book or record		
Evidence of proper use		
Evidence of proper use		
Evidence of proper use		
Respondent		
Respondent		
Respondent		
Respondent		

Indicators	Data Source(s)	
storage conditions		
Conditions	Visual observation	

Note: CLMS = contraceptive logistics management system; RIFs = Requisition and Issue Forms; RIRFs = Requisition and Issue Report Forms; SDPs = service delivery points; SDRs = Store Distribution Reports.

Data Collection

The 13 assessment teams (26 data collectors) comprised individuals from the FMOH, the SMOH, and the USAID | DELIVER PROJECT. One team member served as a team leader who was responsible for overseeing the data collection process in each designated area. Each team received monitoring visits by a member of the FMOH, United Nations Population Fund (UNFPA), U.S. Agency for International Development (USAID), or USAID | DELIVER PROJECT during the data collection period to provide assistance, to ensure adherence to quality standards, and to troubleshoot any problems that might arise in the field. Appendix C has a complete list of data collectors and monitors.

Before implementing the assessment, 24 data collectors participated in a four-day training program in the use of the LIAT instrument. The orientation included a discussion of data collection guidelines to (a) identify the types of information to be gathered, (b) standardize the data collection process, and (c) promote comparability of results. During the training, the instrument was pretested in four pilot sites in the Abaji and Kwali Area Councils of the Federal Capital Territory (FCT) of Abuja to allow data collectors to experience practical application of the tool and to identify any additional modifications to the tool that would improve data collection. The changes identified by participants during the training and pilot tests were incorporated into the final version of the tool.

Twelve teams were dispatched to 12 states over a two-week period to collect data from each of the selected facilities. Data collection in FCT-Abuja occurred in a two-day segment following the initial data collection period, with assistance from several returned FCT-Abuja–based team leaders.

Data Entry and Analysis

Data were entered into CS Pro and transferred into the SPSS statistical analysis software for analysis. Data were cleaned and data quality checks were completed in Nigeria. Analysis and report writing were completed in Nigeria, with support provided by the USAID | DELIVER PROJECT in Nigeria and Washington.

Quality Assurance

Several methods were used to ensure quality adherence throughout the assessment process. The data collection instrument was reviewed before the training to ensure it was adapted to the current situation; the instrument was reviewed and modified again following a pilot test during the training, with input from data collectors. The training also included a comprehensive review of the tool to ensure data collectors were fully versed in the questions and methodology prior to field data collection.

During data collection, each team completed a daily review of all completed instruments and was guided by a quality control checklist to ensure (a) that the instruments were filled out properly and

(b) that they included all necessary information. Each instrument was reviewed again by the Survey Management Team prior to data entry.

Several quality safeguards were incorporated into the data entry program, such as automatic skips where appropriate, range checks, and coding checks. All surveys underwent double entry to ensure accuracy of encoded information.

Once data were entered into the SPSS database, quality checks and validation were completed to ensure accuracy of the database. Preliminary analysis and frequencies were run before full data analysis to ensure consistency within the database.

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Limitations of the Survey

There are several limitations of the survey:

- Between the baseline and midterm survey tools, only a few questions remained the same. Alhough those questions were maintained in the 2007 survey tool, direct comparisons could be made on only a few indicators.
- For about half the duration of the data collection, a nationwide strike occurred that resulted in transportation difficulties, as well as in challenges in reaching facility personnel.
- Several sites from the original sample required replacement. Attempts were made to keep replacement sites within original parameters, but some variation may have resulted.
- Data collectors were also involved in the operation of the system, so some level of subjectivity is likely.

National-Level Findings

Analysis and findings in this study are presented within three broad categories:

- National-level findings.
- Urban- and rural-level comparison.
- Comparison of 2002, 2005, and 2007 Logistics Indicators Assessment Tool (LIAT) assessment results.

The national aggregate findings present data on indicators measuring stock status and logistics system performance from all sites that manage contraceptives throughout the 12 states and Federal Capital Territory (FCT) in the sample. For some indicators, the analysis is segregated into stores and service delivery points (SDPs) to provide more comprehensive information about the elements of the system. The urban- and rural-level comparison presents findings on a select number of stock status and logistics system performance indicators. The urban and rural comparison findings are presented as an aggregate of sites, with further categorization into stores and SDPs where applicable for the analysis. The comparison findings present data on key indicators that have been consistently used in all three assessments to provide a portrait of changes over time in the system. The comparison analysis includes only those five states that were included in the 2002 assessment.

Data on gloves and syringes were analyzed but not discussed in the findings because those are not contraceptives products. Furthermore, many facilities that manage gloves and syringes do not keep separate records on them because they are contained within packaging or kits.

Store and Facility Information

A total of 281 facilities (73 stores and 208 SDPs) were sampled for this study. Although all the facilities in the sample were listed in the Federal Ministry of Health (FMOH) database as providing family-planning (FP) services, the survey revealed that 2 (2.7 percent) of the stores and 10 (4.8 percent) of the facilities were not providing those services. The major reasons that respondents gave for the nonprovision of services were (a) transfer of trained providers and (b) lack of training of the replacement personnel.

Of the 12 sites not providing contraceptive services, 7 were in Sokoto state; 2 were in Kano state; and 1 each in Edo, Enugu, and Abia states. Those facilities did not have service providers working in FP and had no contraceptives in stock. As table 3 indicates, all states had more than 90 percent of their facilities staffed with FP service providers, apart from Sokoto, which had only 54.8 percent.

State		Store			SDP		
	Total Number of Facilities Assessed	Number of Facilities Providing FP Services	Percentage of Facilities Providing FP Services	Total Number of Facilities Assessed	Number of Facilities Providing FP Services	Percentage of Facilities Providing FP Services	
Abia	6	6	100.0	18	17	94.4	
Akwa-Ibom	6	6	100.0	15	15	100.0	
Bauchi	6	6	100.0	18	18	100.0	
Borno	6	6	100.0	15	15	100.0	
Edo	7	7	100.0	17	16	94.1	
Enugu	5	5	100.0	14	13	92.9	
FCT	I	I	100.0	15	15	100.0	
Lagos	6	6	100.0	15	15	100.0	
Kano	7	6	85.7	19	18	94.7	
Nasarawa	6	6	100.0	17	17	100.0	
Ogun	6	6	100.0	16	16	100.0	
Оуо	6	6	100.0	16	16	100.0	
Sokoto	5	4	80.0	13	7	53.8	
Total Facilities	73	71	97.3	208	198	95.2	

Table 3. Distribution of Facilities Assessed during the Survey

Note: FP = family planning; SDP = service delivery point.

More than 90 percent of all stores managed the more popular contraceptives, including male condoms; both brands of injectables, Depo-Provera and Noristerat; and all three brands of oral contraceptives. More than 80 percent of stores managed female condoms and intrauterine contraceptive devices (IUCDs). The one outlier was Implanon where only around 15 percent of stores managed the product. SDP management patterns were roughly the same, with more than 90 percent managing male condoms and both brands of injectables, and with more than 80 percent managing the three pill brands. Between 70 and 80 percent managed injectables and IUCDs. However, only 3.1 percent managed Implanon.

Please refer to Appendix D for more detailed information on the management of contraceptive products by facility type (table D1).

Stock Status

A physical count of commodities on the day of the visit determined contraceptive availability. The survey found that some degree of variability in contraceptive availability existed in the clinics. IUCDs and Noristerat were the most widely available contraceptive methods, with more than 80 percent of the stores and SDPs that manage the products having them in stock. Approximately 75 percent of facilities had available supplies of the male condoms, Depo-Provera and Lo-Femenal, and 60 percent of facilities had available supplies of Microgynon. By contrast, only about 40 percent of

stores and about 30 percent of facilities that had reported managing Implanon actually had an available stock of the product on the day of the visit.

Figure 1 provides a graphic description of the level of availability of each commodity at the sites on the day of the visit.

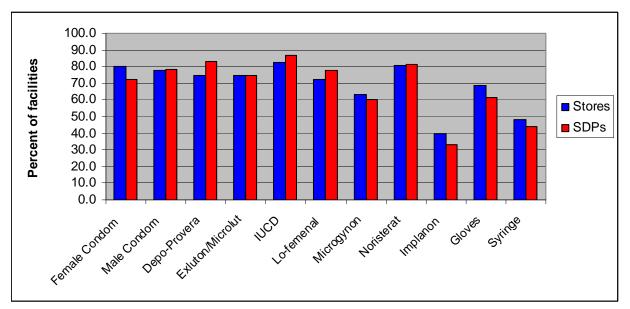


Figure I. Availability of Contraceptive Products on the Day of Visit by Facility

Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

So they could gain further insight into the availability of family planning (FP) methods at facilities, service personnel were asked to provide data on the occurrence of stockouts, the number of times each facility had stocked out of any of the commodities, and the average duration of the stockouts over the six-month period preceding the survey. Generally, stores and SDPs exhibited the same pattern of stockouts for each of the contraceptive methods.

Contraceptives were generally available in stores and SDPs during the six months leading up to the survey, with about 20 and 30 percent of stores and SDPs respectively stocked out of contraceptives during this time. The few exceptions to this pattern included the following: 40 percent of stores and 50 percent of SDPs were stocked out of Implanon, about 40 percent of stores and SDPs were stocked out of Microgynon, and 10 percent of SDPs were stocked out of IUCDs (see figure 2 for details).

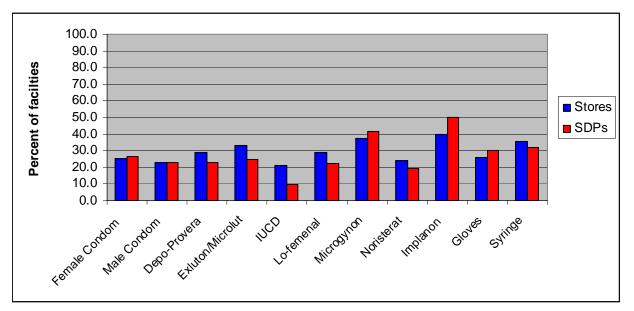


Figure 2. Percentage of Facilities Stocked Out of Contraceptive Products in the Past Six Months

Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

Table 4, which follows, provides a tabulation of the average number of times in the six months before the survey that stores and SDPs stocked out of any of the methods, as well as the average number of days that the stockouts lasted. The data indicate that although the number of stockouts of contraceptives was low, the average duration of stockouts was high for all contraceptive methods during the six months leading up to the survey. Both stores and SDPs experienced one stockout of each contraceptive product during the previous six months, on average. However, the average duration of the stockouts was generally more than two and a half months for all common short-term contraceptives. In both facility types, stockout duration was shortest for Noristerat and longest for female condoms. The major reasons given for the prolonged stockouts were the nonavailability of contraceptives at the level of stores from which they would order and very low or nonexistent demand for the method.

Table 4. Average Frequency and Number of Days of Stockouts of Contraceptive Products
in the Past Six Months

	Stores		SDPs	
Contraceptive Products	Average frequency of stockout	Average number of days of stockout	Average frequency of stockout	Average number of days of stockout
Female condom	1.0	137	1.0	130
Male condom	1.1	121	1.2	110
Depo-Provera	1.1	85	1.0	103
Exluton/Microlut	1.1	116	1.0	98
IUCD	1.1	103	1.0	86
Lo-femenal	1.0	98	1.0	104
Microgynon	1.1	107	1.1	111
Noristerat	1.0	57	1.1	74
Implanon	1.0	67	1.0	128

Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

Survey findings also indicate that most contraceptives are approaching a state of undersupply or are in a state of undersupply at stores and SDPs. An undersupply situation denotes a higher risk of stockout. The minimum stock level for stores is three or four months (redesigned and streamlined systems) and for SDPs is two or three months of stock on hand. By this standard, female condoms, Depo-Provera, Exluton, and Microgynon are all below recommended supply levels at stores, and male and female condoms, plus all brands of injectables and oral contraceptives, are at or below recommended supply levels at SDPs. (See figure 3.) Please refer to Appendix D for more detailed information on the average months of stock on hand by facility type (table D2).

In summary, although most facilities providing FP services had contraceptives in stock on the day of the visit, the fairly long duration of stockouts, the large proportion of facilities with stock levels below minimum levels, and the low number of months of stock on hand paint a picture of a contraceptive supply system at risk. That is, facilities currently hold stock at levels unlikely to ensure a consistent and reliable availability of commodities to clients.

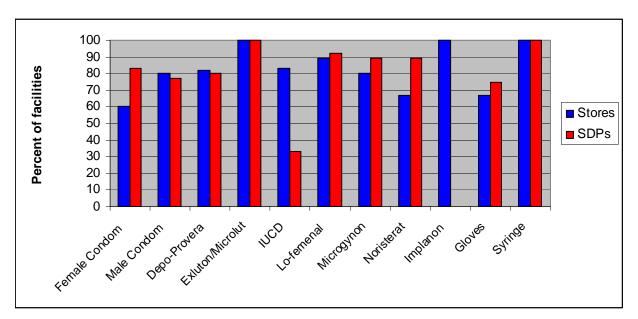


Figure 3. Percentage of Facilities Stocking below Minimum Levels

Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

Logistics System Performance

The findings in this section provide an indication of the level of performance of the contraceptive logistics management system (CLMS), as well as a measure of the progress of system performance. Findings are under the following headings: Logistics Management Information System (LMIS), Reporting, Inventory Control, Cost Recovery, Record Keeping, Storage Guidelines, Transportation, and Supervision.

Logistics Management Information System

Training is a critical element in strengthening a contraceptive logistics management system. Figure 4 demonstrates that approximately 93 percent of store personnel and 84 percent of SDP personnel have received CLMS training. Nationwide coverage of trained personnel is very high for all facilities.

Of those trained, the majority (at 92 and 82 percent, respectively) of both store and SDP personnel were trained during a formal CLMS exercise. On-the-job training—provided by supervisors, personnel from the FMOH, State Ministry of Health (SMOH), or USAID | DELIVER PROJECT, or a combination during supportive supervision visits to facilities—accounted for the second highest method in which facility personnel received CLMS training, at approximately 6 percent for store personnel and 14 percent for SDP personnel. The figures indicate that most logistics operators are trained, regardless of transfers, retirements, and other sources of attrition (see figure 5).



Figure 4. Percentage of Personnel Trained in CLMS by Facility

Note: CLMS = contraceptive logistics management system; SDPs = service delivery points.

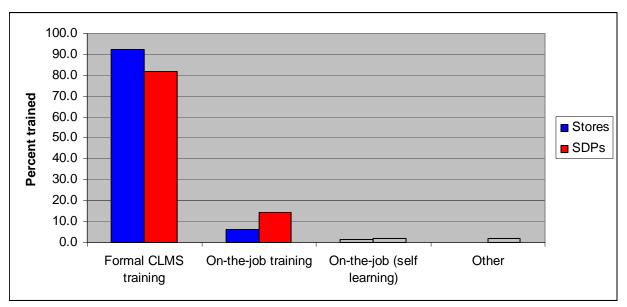


Figure 5. Percentage of Personnel Trained in CLMS by Facility

Note: CLMS = contraceptive logistics management system; SDPs = service delivery points.

Logistics personnel require CLMS tools such as stockcards and consumption registers to record and report key logistics data. Survey findings indicate that though most stores and SDPs had available forms, the percentage with updated forms was on average about 70 percent. Approximately 80 percent of facilities surveyed had all the forms required for managing the LMIS, and approximately 20 percent had some, but not all, of the forms. Forms that are not updated represent a gap in the

system, where the most current information is not available for key decisionmakers to make programmatic or supply decisions. Because a high percentage of both store and SDP personnel have been trained in the CLMS, the lower percentage of updated cards could indicate either a gap in the application of knowledge from training to practice or other constraints on facility personnel. The lower percentage also indicates an area in need of strengthening during supportive supervision visits. Table 5 shows the level of availability of stock cards at facilities visited as well as how many of these cards were updated.

Contraceptive Products	Stores		SDPs	
	Stockcards available	Stockcards updated	Stockcards available	Stockcards updated
Female condom	90.0	72.9	85.0	75.9
Male condom	85.3	69.2	83.3	71.9
Depo-Provera©	89.6	71.9	82.8	70.7
Exluton/Microlut	90.6	66.7	85.9	74.4
IUCD	89.5	78.6	84.7	76.9
Lo-femenal	86.4	73.0	82.0	73.4
Microgynon	90.5	72.6	83.7	70.1
Noristerat	89.7	75.4	83.6	73.1
Implanon	70.0	88.9	50.0	33.3

Table 5. Percentage of Facilities wit	h Stockcards Available and Updated
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Note: IUCD = intrauterine contraceptive advice; SDPs = service delivery points.

Facilities were also assessed on the accuracy of the balance entries on stockcards. Accuracy was determined by comparing the closing balance of each contraceptive on the stockcards with the physical count of each contraceptive on the day of the visit by data collectors. As shown in table 6, the data indicate that for the majority of products the accuracy of the stockcards averaged about 66 percent for stores and 57 percent for SDPs. An average of approximately 74 percent of stores and 64 percent of SDPs had stockcards within 10 percent accuracy. The exception was Implanon, which achieved 100 percent with accurate balances at stores and 80 percent at SDPs.

	Sto	ores	SDPs		
Contraceptive Products	Accurate balance	Within 10% accuracy	Accurate balance	Within 10% accuracy	
Female condom	65.5	76.4	66.7	70.4	
Male condom	57.9	71.9	51.9	61.5	
Depo-Provera	62.1	70.7	46.2	54.4	
Exluton/Microlut	68.4	73.7	55.1	63.5	
IUCD	66.7	79.6	62.6	67.5	
Lo-femenal	57.9	70.2	49.0	58.7	
Microgynon	57.4	59.3	57.6	64.6	
Noristerat	54.2	66.1	46.7	51.2	
Implanon	100.0	100.0	80.0	80.0	
Gloves	64.4	66.7	60.6	63.6	
Syringe	67.7	67.7	53.2	53.2	

 Table 6. Percentage of Facilities with Accurate and Near-Accurate Balance Entries on

 Stockcards

Note: IUCD = intrauterine contraceptive advice; SDPs = service delivery points.

Reporting

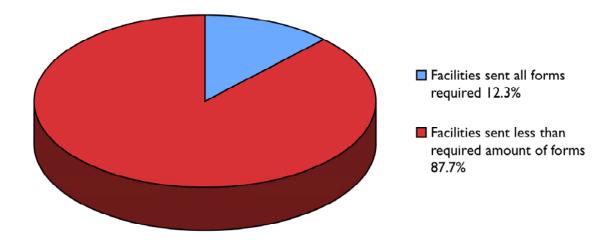
Although reliable record keeping is critical to the well functioning of an effective CLMS, the information must be reported to higher levels so effective logistics decision making can take place. In addition, the information sent on those reports should be complete and accurate. The data indicate that reporting is still suboptimal.

Virtually all store managers (94.3 percent) report that they had been trained to complete the Store Distribution Report (SDR). However, in spite of this high proportion of trained staff members, only 45.3 percent actually send their SDR to a higher level. Of those, only 70.8 percent were found to have sent complete and accurate reports.

The data also indicate a low rate of complete and accurate reporting in ordering supplies. The Report and Issue Form (RIF) and the Report and Issue Report Form (RIRF), which are used in the streamlined states of Bauchi, Kano, and Nasarawa, provide quantity order request information to the issuing facility at the end of each reporting period. Information from the forms furnishes actual consumption data, which are required to provide accurate resupply quantities and to generate accurate forecasts and procurements. As shown in figure 6, only one in eight facilities (12.3 percent) submitted all the required RIF or RIRF to the appropriate level during the six-month period preceding the survey.

For both stores and SDPs, a serious gap exists in reporting. With the low percentage of reports filtering to the higher level, key decision-making processes will continue to be based on incomplete, and in some cases, inaccurate information.

Figure 6. Percentage of Facilities That Send RIFs and RIRFs



Inventory Control

To measure the adherence of providers to inventory control procedures, the study assessed the percentage of personnel who reported that they ordered according to established inventory control procedures. In addition, the study assessed (a) the proportion of personnel who reported that they have received training on how to calculate the order quantities and (b) the percentage of facilities that placed emergency orders in the previous six months. The indicators were designed to capture the practices and training of personnel who managed inventory at the facility level. A high frequency of emergency orders might indicate deficient inventory control.

The findings revealed that about 94 percent of store personnel and 84 percent of SDP personnel were trained on how to calculate the order quantities. Of those trained, more than 90 percent of all personnel received their training through the national CLMS training or through on-the-job training. (See figure 7.)

However, approximately 78 percent of store personnel and 66 percent of SDP personnel report ordering according to the inventory control procedure. About 75 percent of stores and SDPs did not place emergency orders in the six months preceding the survey, with only 25 percent or less of facilities placing one emergency order in the same six-month period. (See figure 8.)

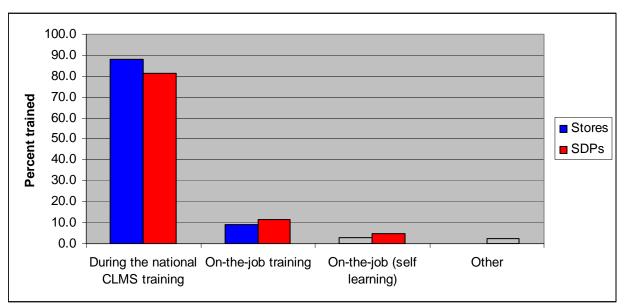
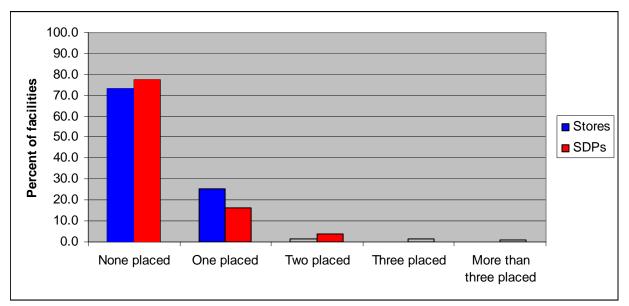


Figure 7. How Personnel Received Inventory Management Training by Facility

Note: CLMS = contraceptive logistics management system; SDPs = service delivery point.





Note: SDPs = service delivery points.

Cost Recovery

The cost-recovery element of the CLMS was designed to ensure sustainability of the program. Although highly subsidized, the cost of contraceptives includes a repurchase portion, a margin to cover transportation and supervision costs, and an incentive for SDP service providers. Adherence to the procedures for cost recovery was predicated on facilities keeping ledgers or cash books that detail the recommended use of margins.

Survey findings indicate that about 66 percent of all stores and 53 percent of SDPs kept a costrecovery cash book or ledger. Inspection of the ledgers or cash books indicated that only 63 percent of stores and about 62 percent of SDPs had entries that matched commodity sales. Therefore, only two-fifths of stores (41.7 percent) and one-third of SDPs (32.9 percent) adhered to the financial recording procedures of the cost-recovery system.

Only 22.5 percent of the stores evaluated stated that they had separate accounts for contraceptive management. Of those that had separate accounts, approximately 75 percent reported that they do not encounter any problems when seeking official approval to withdraw from the account, and 88.7 percent of stores and 91.9 percent of SDPs reported using the funds strictly for CLMS purposes.

A large majority of facilities (88.2 percent of stores and 79.2 percent of SDPs) reported using the margins; of those facilities, 79.1 percent of stores and 75.7 percent of SDPs used the margins according to the guidelines. Some of the reasons given for not using the margins included (a) not understanding the use of the guidelines (44 percent for SDPs and 9.1 percent for stores), (b) not requiring transportation costs for facilities that share locations with stores (3.8 percent for SDPs), and (c) low margins because of the very small demand for FP services at certain sites (9.1 percent for stores).

Record Keeping

Accurate and timely record keeping is essential for a well-functioning CLMS, because all aspects of the logistics system depend on well-kept records. In evaluating this function, the survey assessed the availability, completeness, and accuracy of the records used. Those records include RIFs and RIRFs, daily consumption records (DCRs), stockcards, and cost recovery records. Record keeping in general was found to be suboptimal.

Figure 9 indicates that only 39.4 percent of stores and 32.7 percent of SDPs had the RIFs and RIRFs completed accurately. Approximately one-third and one-fifth of stores and SDPs, respectively, had the forms completed, but they were filled out inaccurately. In addition, almost one-tenth of stores and one-fifth of SDPs did not have these forms in stock.

SDPs use the DCR to record the type and quantity of contraceptives dispensed to clients who visit their facilities for FP services. Findings indicated that the last monthly DCR was complete and accurate in less than half of SDPs (44 percent). Almost one-fifth of the SDPs (19 percent) did not have the forms, and another one-third (37 percent) had either incomplete or complete but inaccurate records. (See figure 10.)

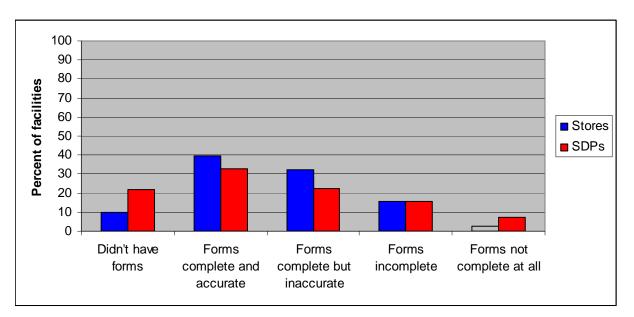


Figure 9. Percentage of Facilities with Complete and Accurate RIFs and RIRFs

Note: SDPs = service delivery points.

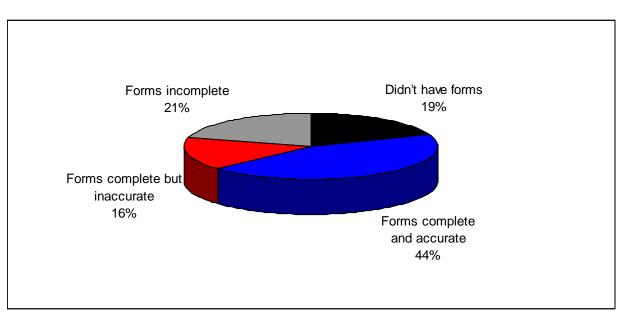
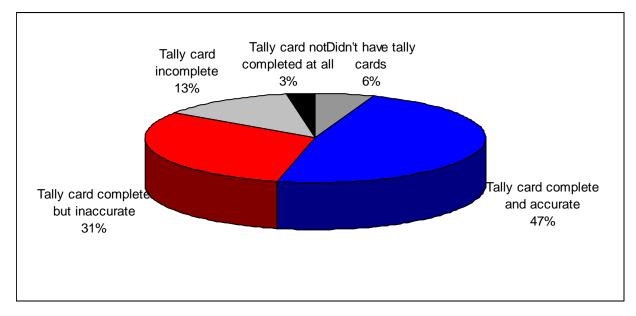


Figure 10. Percentage of SDPs with Complete and Accurate DCRs

Note: DCRs = daily consumption records; SDPs = service delivery points.

Results of the study indicate that almost one-half of stores surveyed (47.9 percent) had complete and accurate stockcards. Only a small minority (5.6 percent) did not have the cards, and an additional 2.8 percent had the cards but had not filled them in at all. More than two-fifths of stores (44 percent) had either incomplete or complete but inaccurate forms. (See figure 11.)





Record keeping completeness and accuracy were also measured by matching entries on either the DCRs for SDPs or on stockcards for stores against cost-recovery records for each of the previous six months before the survey. On average, 38 percent of the stores and 52 percent of the SDPs had accurate cost-recovery records for the past six months. In addition, in viewing the trends over the past six months, there was no evident consistent pattern between stores and SDPs (such as accuracy and completeness dropping or rising at the same time) nor within a facility (such as a consistent upward or downward trend). Interesting to note, however, is the consistent drop for stores in the two months preceding the survey. (See figure 12.)

Important to note is that, despite high levels of training nationwide among respondents at stores and SDPs, a disconnect exists between receiving the training and application of the training in practice, as evidenced by the lower levels of completeness and the accurate completion of records among a variety of forms.

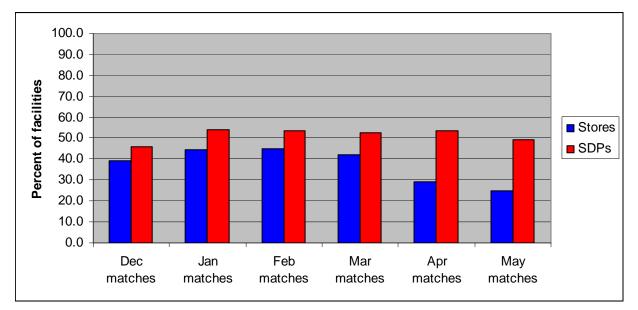


Figure 12. Percentage of Facilities with Complete and Accurate Cost-Recovery Records for the Past Six Months

Note: SDPs = service delivery points.

Supervision

Properly conducted supervision using standardized checklists and providing timely feedback to supervised personnel is an important means of reinforcing formal training and tracking the performance of the logistics system. Thus, in looking at the performance of the CLMS and its progress over time, this study collected data on (a) the number of supervisions, (b) the training of those who provided this service, and (c) the frequency and effectiveness of the visits.

Although approximately 83 percent of store personnel and 49 percent of SDP personnel were trained to complete the supervisory checklist, less than half the stores (42 percent) had carried out supervision visits using the checklists since 2004. Almost one-third of those who did not provide supervision reported that they could not do so because of lack of transportation.

About one-third of store personnel who made supervisory visits did so within the month prior to the survey. One-fifth of the stores conducted supervisions using checklists in the 3-month period leading up to the study, and another fifth of store personnel had made supervisory visits in the past 6 months, as shown in figure 13.

The study also assessed the frequency of supervision visits by stores to SDPs since 2004. A little more than half of the stores had made four or more such visits, with only 7 percent making just one such visit since 2004. As shown in figure 14 below, only 60 percent of stores had supervision checklists on file, but of those, approximately 83 percent were complete and accurate. (See figure 14.)

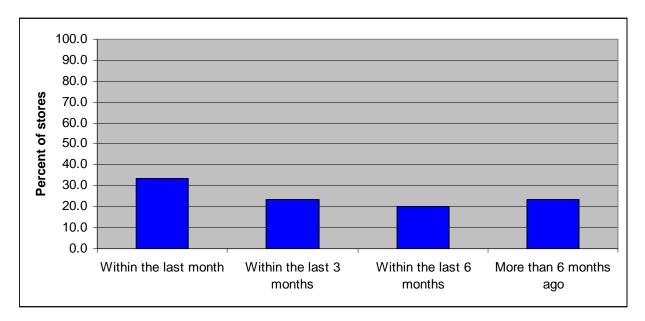
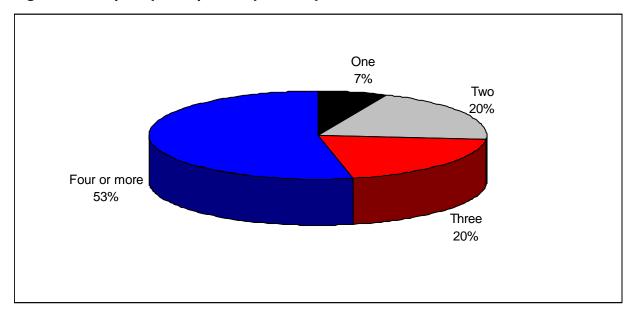


Figure 13. Percentage of Stores by Time of Last Supervisory Visit

Figure 14. Frequency of Supervisory Visits by Stores Since 2004



Both stores and SDPs have relatively low rates in terms of receiving a supervision visit. A little more than 10 percent have never received a visit; only 41 percent of stores and 47 percent of SDPs report have received a supervision visit in the past 4 months. More than 28 percent of stores and 21 percent of SDPs report having received a supervision visit more than 6 months before the survey. Although all essential items were checked during the visit, the store distribution report, cash book,

and storage guidelines were least checked among stores and SDPs. See figure 15 for details of the facilites that reported receiving supervision visits.

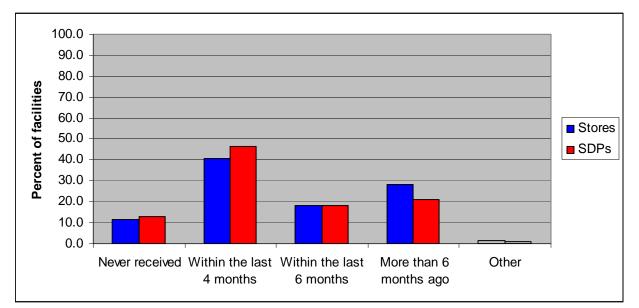


Figure 15. Percentage of Facilities Reporting Receiving Supervision

Note: SDPs = service delivery points.

Transportation

Efficient transportation is a vital requirement for a well-functioning logistics system. Such a system enables commodities to be moved in a timely fashion to where they are required and to ensure continual availability of contraceptives at SDPs.

The majority of stores and SDPs report collecting their stock from the level above them (83 percent and 92 percent, respectively). For stores and SDPs that collect their stock, the majority use public transportation (72 percent for stores and 54 percent for SDPs). Other methods used included private vehicle (13 percent for stores and 6 percent for SDPs) and motorcycle (13 percent for stores and 22 percent for SDPs).

Because the system places the responsibility for collection primarily on the facility level, resources and other constraints at the facility level may create breaks in the supply chain, which can contribute to stockouts. Also, the fact that most personnel use public transportation to collect commodities presents additional constraints in the supply chain, because the amount that can be carried safely on public transport is limited. In addition, although the value of contraceptives is not as high as other commodities, additional risks exist with regard to potential theft and security of the commodities in the more insecure environment of public transportation.

Storage Conditions

Storage of contraceptives, as in storage of all drugs, requires specified conditions to ensure the efficacy of the preparations. In assessing sites, inspectors (data collection teams) scored each facility using 15 guidelines. Facilities that met more than 90 percent were considered to have excellent storage conditions, those that met between 71 and 90 percent were acceptable, and those that met less than 70 percent were unacceptable. About two-fifths of both stores and SDPs met acceptable storage conditions. About 15 percent of stores and 12 percent of SDPs had excellent storage conditions. (See figure 16.)

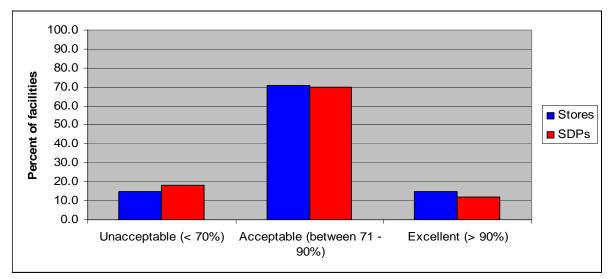


Figure 16. Percentage of Facilities Meeting Acceptable Storage Conditions

An examination of the specific storage conditions included in the survey showed that the least-met storage condition was availability of fire extinguishers (21.4 percent for both stores and SDPs). The most commonly met storage conditions were protection from direct sunlight and water for SDPs (98 percent) and a locked and secured area for stores (99 percent). (See figure 17.)

Note: SDPs = service delivery points.

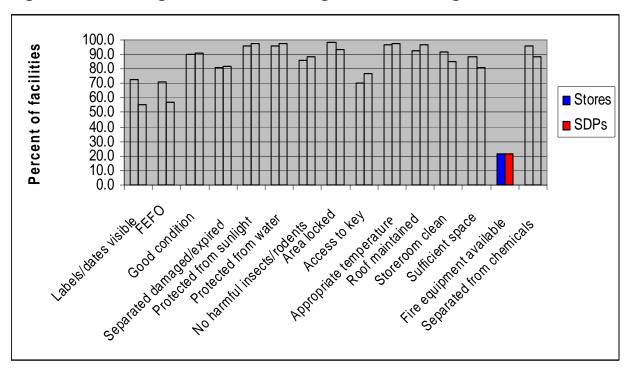


Figure 17. Percentage of Facilities Meeting Individual Storage Conditions

Note: FEFO = first-to-expire, first-out; SDPs = service delivery points.

Urban- and Rural-Level Findings

This section presents findings on the basis of the location of the facilities. It compares the results of several key indicators by rural and urban area so it can identify the influence of site location on resultant indicator values. Where appropriate, the analysis that follows presents data on stores and service delivery points (SDPs) separately so it can provide more in-depth analysis of both levels. In general, urban facilities fared better than rural ones on most indicators.

Stock Status

Two of the stock status indicators were assessed on urban and rural levels to determine differentials on indicator values: (a) the availability of commodities on the day of the visit and (b) the proportion of facilities that had stockout of any method during the six-month period before the survey.

Apart from Implanon, availability of contraceptives at urban stores was consistently higher than those at rural stores. Five of the contraceptives were available at more than 80 percent of urban stores, but for rural stores, the highest availability was achieved for Noristerat at approximately 79 percent. (See figure 18.)

At the SDP level, availability was consistently higher—with the exception of female condoms—at urban SDPs than at rural ones. Availability at urban SDPs ranged from 50 to 92 percent, but for rural SDPs the range was 0 to 80 percent. (See figure 19.)

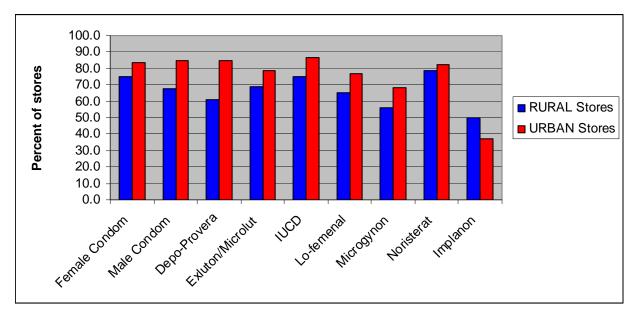


Figure 18. Availability of Contraceptives on the Day of Visit at Stores at the Urban and Rural Levels

Note: IUCD = intrauterine contraceptive device.

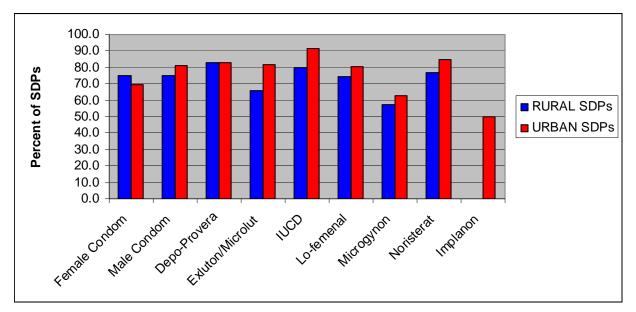
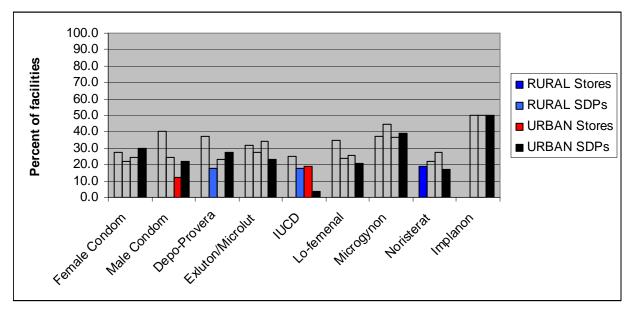


Figure 19. Availability of Contraceptives on the Day of Visit at SDPs at the Urban and Rural Levels

Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

More rural stores reported stockouts in most family-planning (FP) methods than did urban stores in the past six months, with the exception of Noristerat, Exluton/Microlut, and Implanon. Similarly, rural SDPs reported more stockouts for a greater number of products than did urban SDPs. (See figure 20.)

Figure 20. Percentage of Facilities Stocked Out of Contraceptives in the Past Six Months at
the Urban and Rural Levels



Note: IUCD = intrauterine contraceptive device; SDPs = service delivery points.

For both indicators (a) the availability of commodities on the day of the visit and (b) the proportion of facilities that had stockout of any method during the six-month period before the survey, rural facilities generally fared poorer in terms of availability and experienced a greater number of stockouts. One reason for lower rural performance is the relative lack of resources to collect contraceptives from the next higher level of the system.

Logistics System Performance

In analyzing the effect of sites in urban or rural locations on logistics system performance, inspectors (assessment team) selected key indicators for logistics management information system LMIS, reporting, inventory control, cost recovery, and record keeping.

Logistics Management Information System

For both stores and SDPs, the percentage of personnel trained was higher for rural areas than for urban, although the differential is not significant. (See figure 21.)

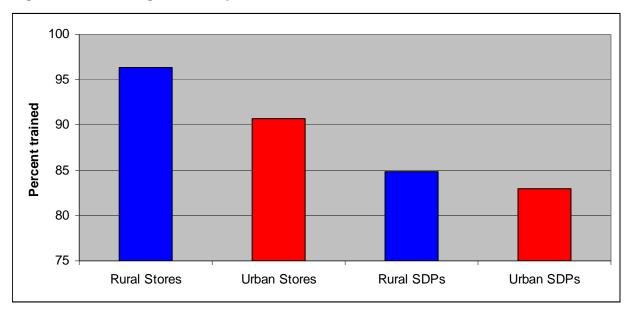


Figure 21. Percentage of Facility Personnel Trained in CLMS at the Urban and Rural Levels

Note: CLMS = contraceptive logistics management system; SDPs = service delivery points.

Urban stores generally had a greater percentage of stockcard availability, with the exception of female condoms, than did rural stores. In terms of updated stockcards, stores also generally fared better but with a more marked difference between urban and rural. Implanon, however, remained unchanged for both rural and urban stores. Similarly, among urban and rural SDPs, urban SDPs had greater availability of stockcards and a greater percentage updated. However, the differences were not significant. (See table 7.)

Contraceptive	Stores				SDPs							
Products	Available			Updated			Available		Updated			
	All Loc	Urban	Rural	All Loc	Urban	Rural	All Loc	Urban	Rural	All Loc	Urban	Rural
Female condom	90.0	89.2	91.3	79.6	93.9	57.I	85.0	83.7	86.6	81.5	86.I	75.9
Male condom	85.3	87.5	82. I	77.6	91.4	56.5	83.3	84.5	81.9	80.7	82.9	77.9
Depo-Provera	89.6	92.3	85.7	76.7	86. I	62.5	82.8	83.2	82.4	81.1	80.9	81.3
Exluton/Microlut	90.6	92.1	88.5	72.4	82.9	56.5	85.9	84.2	87.8	81.5	81.3	81.7
IUCD	89.5	91.9	85.0	86.3	91.2	76.5	84.7	86.6	82.3	84.4	87.3	80.4
Lo-femenal	86.4	89.7	81.5	80.7	94.3	59.I	82.0	83.0	80.7	83.3	85.5	80.6
Microgynon	90.5	92.1	88.0	78.9	88.6	63.6	83.7	86.0	81.0	77.8	77.5	78.1
Noristerat	89.7	92.5	85.7	80.3	89.2	66.7	83.6	85.0	81.8	82.7	83.3	81.9
Implanon	70.0	75.0	50.0	100.0	100.0	100.0	50.0	50.0	50.0	66.7	100	0.0

Table 7. Percentage of Facilities with Stockcards Available and Updated by Product at the Urban and Rural Levels

Note: Loc = locations.

Reporting

Although only a small proportion of all stores sent Store Distributions Reports (SDRs) to higher levels, more urban stores sent SDRs to the appropriate level than did rural stores, at 50 percent and 37 percent, respectively. Again, this fact may be attributable to greater difficulties of rural SDPs in sending reports up the line because of transportation and resource limitations.

Inventory Control

More urban stores and SDPs reported ordering according to established minimum and maximum stock levels than did rural stores and SDPs. Approximately 81 percent of urban stores and 72 percent of urban SDPs ordered according to established minimum and maximum levels, compared with 71 percent of rural stores and 58 percent of rural SDPs similarly ordering. However, a greater percentage of rural stores and SDPs placed no emergency orders in the six months preceding the survey than did urban stores and SDPs. (See figure 22.)

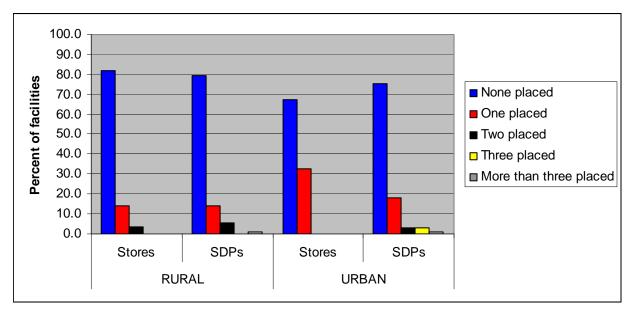
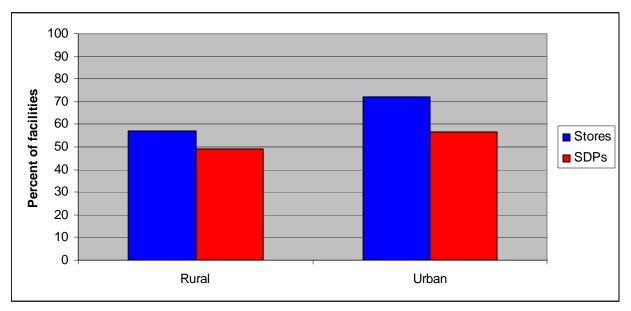


Figure 22. Percentage of Facilities Placing Emergency Orders in the Previous Six Months at the Urban and Rural Levels

Cost Recovery

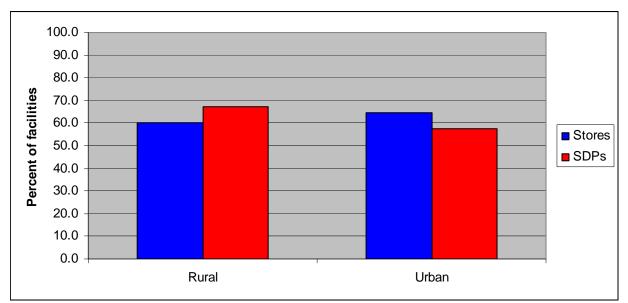
A lower proportion of rural facilities reported having a cash book than did urban ones, at 72 versus 57 percent of stores and 57 versus 49 percent of SDPs. (See figure 23.)

Figure 23. Percentage of Facilities Reporting Having a Cash Book or Ledger for Cost-Recovery Funds at the Urban and Rural Levels



Note: SDPs = service delivery points.

Although almost three times as many urban stores reported having a separate bank account for contraceptives (at 30 percent for urban and 11 percent for rural), the overall percentage of those facilities maintaining a separate account was extremely low. However, although matching ledger balances were slightly higher at rural SDPs than at urban ones and were slightly higher at urban stores than at rural ones, the differential was not very significant. See figure 24 for details of facilities with ledger balances equal to total commodities sales.





Note: SDPs = service delivery points.

Record Keeping

A greater percentage of urban SDPs had complete and accurate DCRs when compared to rural SDPs: 52 percent for urban versus 35 percent for rural. In addition, almost 25 percent of rural SDPs versus 14 percent of urban SDPs reported that they did not have the forms available.

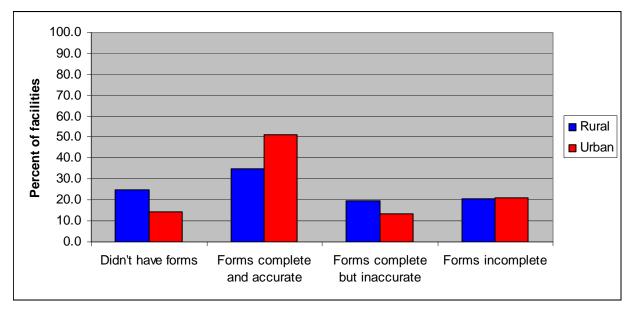


Figure 25. Percentage of SDPs with Last Daily Consumption Record Complete and Accurate at the Urban and Rural Levels

Note: SDPs = service delivery points.

Supervision

Supervision indicators compared for rural and urban facilities included (a) percentage of stores conducting supervision using the checklists, (b) reasons for not carrying out supervision, (c) when the last supervision took place, and (d) proportion of facilities that received supervision.

Almost twice as many urban stores as rural stores were supervised using the supervision checklists, at 51 percent and 29 percent, respectively. For both urban and rural facilities, the inability to schedule a supervisory visit was the reason most cited for why the visits did not take place, at 71 percent for urban stores and 65 percent for rural stores. Both urban and rural stores also cited a lack of available transportation, but that lack was slightly higher among rural stores (30 percent) than among urban ones (24 percent).

With respect to the time period in which the last supervision visit took place, more urban than rural facilities conducted supervision visits in the past month, and the majority of rural facilities conducted visits within the three months preceding the survey. Figure 26 details the frequency of supervision visits to rural and urban facilities.

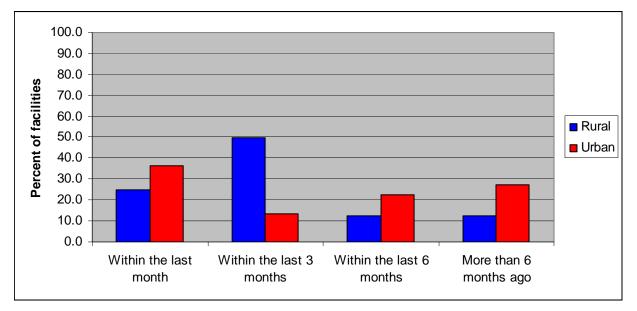


Figure 26. Time Period for Conducting Last Supervision Visit at the Urban and Rural Levels

Transportation

The majority of both urban and rural facilities reported that their facilities collected contraceptive commodities when such were needed. A greater percentage of urban stores and SDPs also experienced a higher level of having commodities delivered to them than did rural stores and SDPs. For those facilities that are required to collect their commodities from a higher level, both urban and rural levels used public transportation, although at a higher level among rural facilities (79 percent of rural stores and 67 percent of urban stores; 53 percent of rural SDPs and 55 percent of urban SDPs). (See details in figure 27.)

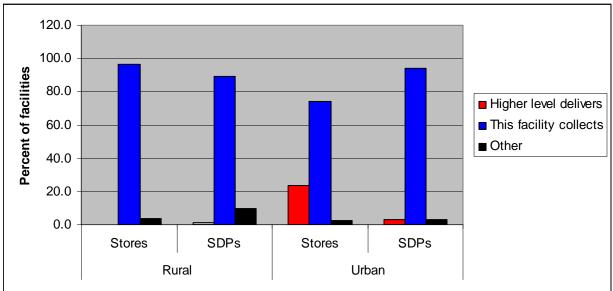


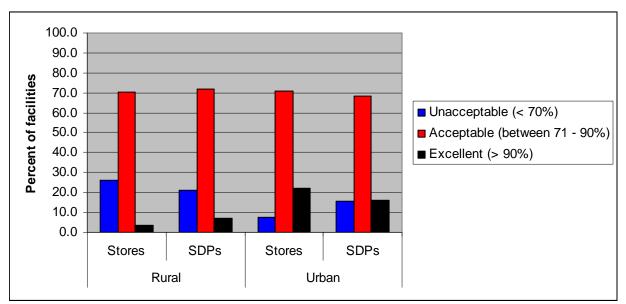
Figure 27. Method of Commodity Transportation at the Urban and Rural Levels

Note: SDPs = service delivery points.

Storage Conditions

The proportion of stores at both urban and rural levels that met acceptable storage conditions was virtually the same: about 70 percent. However, more urban stores and SDPs achieved excellent storage conditions than did rural ones (as shown in figure 28).

Figure 28. Percentage of Facilities That Meet Acceptable Storage Conditions at the Urban and Rural Levels



Note: SDPs = service delivery points.

Comparison of Data Findings

Data describing stock availability, availability and accuracy of stockcard entries, adherence to storage guidelines, and training of facility personnel on the contraceptive logistics management system (CLMS) were compared to provide the basis for assessment of trends over time. The comparison was made for Bauchi, Edo, Enugu, Oyo, and Sokoto, because they are the five states common to the sampled sites of the 2002, 2005, and 2007 Logistics Indicators Assessment Tools (LIATs).

Stock Status

No clear-cut trend exists in this indicator. Availability of commodities over the years has increased for Exluton, intrauterine contraceptive device (IUCD), Lo-femenal, and Noristerat. The male condoms Depo-Provera, and Microgynon recorded an increase in stock availability from 2002 to 2005 but decreased in 2007. The most significant jumps in contraceptive availability were made from 2002 to 2005, a fact that may be due to intensive activities related to the improvement of the CLMS and seed stock distribution. Figure 29 shows the trends in availability of commodities from 2002 to 2007.

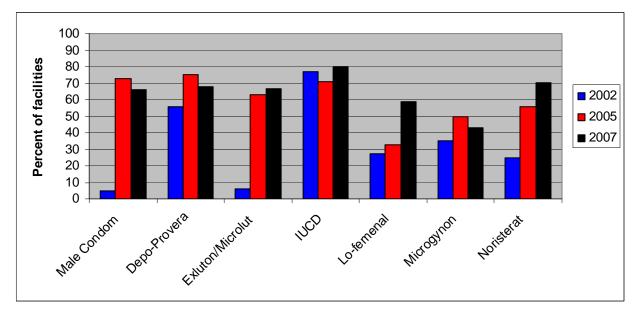
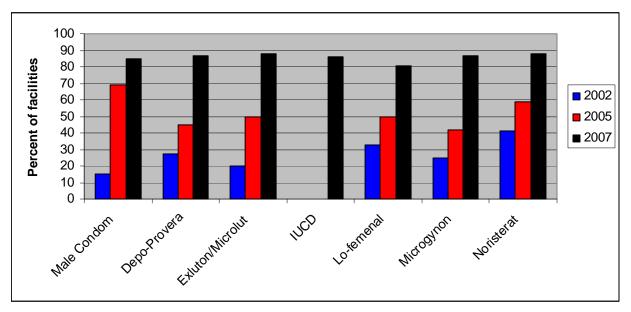


Figure 29. Availability of Contraceptives on the Day of Visit by Facility—2002, 2005, and 2007 Comparison

Note: IUCD = intrauterine contraceptive device.

Logistics Management Information System (LMIS)

LMIS performance was evaluated by assessing the availability of stockcards and the percentage of stockcards updated across three surveys (Contraceptive Logistics Indicators Assessments in 2002, 2005, and 2007). The data indicated a clear trend of improvement in stockcard availability, with the most significant jumps made between 2005 and 2007 for all seven products in the comparison table. (See figure 30.)





A discernable improvement also exists between 2005 and 2007 for the percentage of facilities updating stockcards for all products, with the greatest improvements being for IUCDs and Microgynon. (See figure 31.)

Note: IUCD = intrauterine contraceptive device.

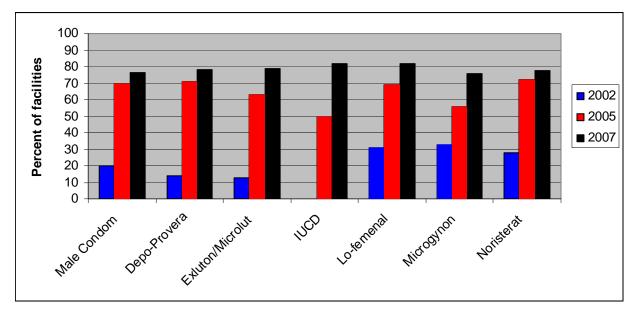
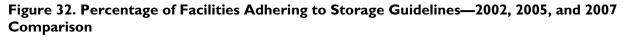


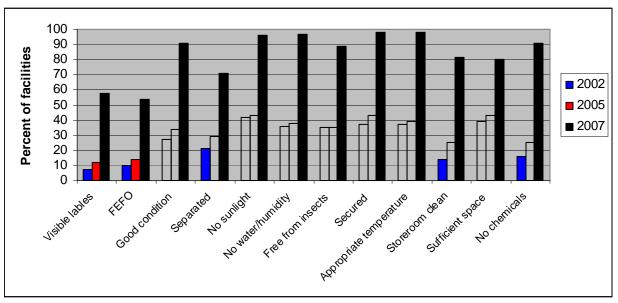
Figure 31. Percentage of Facilities with Stockcards Updated by Product—2002, 2005, and 2007 Comparison

Note: IUCD = intrauterine contraceptive device.

Storage Conditions

The percentage of service providers adhering to storage guidelines not only improved over the years but also showed a marked increase from 2005 values to those of 2007 for all 15 conditions. (See figure 32.)





Note: FEFO = first-to-expire, first-out.

Training

Although the percentage of facility personnel trained in CLMS was virtually unchanged from 2002 to 2005, 2007 showed a marked improvement.

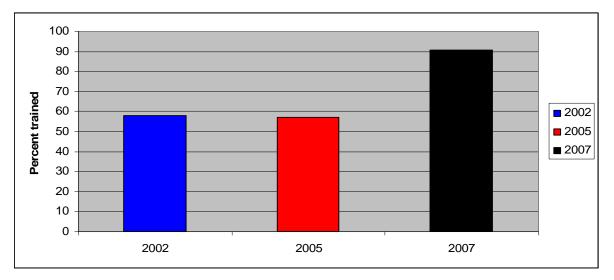


Figure 33. Percentage of Personnel Trained in CLMS—2002, 2005, and 2007 Comparison

Note: CLMS = contraceptive logistics management system.

Recommendations

Despite the extremely high levels of training among personnel who manage contraceptives at the facility level, the application of this training remains problematic. Additional training on the existing system nationwide would probably not be the best approach to reinforce the training, given the high time and cost commitments required. Recommendations include the following:

- Supervision should be reinforced. A lack of supervision exists, and this lack is a key juncture where the application of learned materials can and should be reinforced. Both the quality and the frequency of supervision should be addressed. Supportive supervisory visits should, therefore, be intensified at all levels according to the supervision plan.
- Existing forms should be reexamined for quantity and content. One potential reason the forms are not being completed properly is that they are complicated and their instructions are not clear. Simplifying forms and providing additional instruction and guidance on the forms (such as laminated, easy-to-follow steps that could be posted in a clinic in the area where the forms are completed) could be considered.
- Training should be reinforced. Although additional training is cost and resource intensive, targeted training could be considered in areas that seem to be particularly lacking.
- The cost-recovery segment of the system is not effective. Although cost-recovery systems such as these are questionable in terms of sustaining the system, even partial sustainability cannot be achieved if cost-recovery activities are not effective. Facility personnel seem to require additional information about balancing ledger and cash books and about the use of margins. That information could be targeted in supervision or in select training for some personnel. Providing appropriate supplies may also help, especially in more resource-constrained facilities. Ensuring proper use of the ledgers also reinforces accountability with funds, which is another critical element of trying to partially sustain the system through the cost-recovery program. States that have not yet opened a cost-recovery account should do so as soon as possible.
- Transportation is a contributing factor in breakages in the supply chain. Because transportation of commodities (from state store to the service delivery points [SDPs]) largely falls on the facilities themselves, commodities simply will not always arrive at the facilities when needed. Contributing factors are (a) ability to leave the facility; (b) distance to supply centers, especially for rural facilities; and (c) resources to pay for transport. The large reliance on public transportation also creates security and theft concerns for the commodities. Findings show a gap in the transportation area that needs to be addressed.
- The Federal Ministry of Health should ensure that ordered commodities are distributed to the states in line with the distribution calendar.
- Implementers at all levels should adhere strictly to the contraceptive logistics management system (CLMS) ordering guidelines.
- Advocacy to policymakers should exist at all levels for support for the printing and distribution of logistics management information system {LMIS} forms and other management tools.

• Computerization of LMIS should exist at central and state levels to ensure prompt response and efficient management of commodities.

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- National Population Council [Nigeria] and ORC Macro. 2004. Nigeria Demographic and Health Survey 2003: Key Findings. Calverton, Md.: National Population Commission and ORC Macro.
- Population Reference Bureau. 2007. 2007 Population Reference Bureau. Available at http://www.prb.org/Countries/Nigeria.aspx (accessed June 2007).

Appendix A

Sampling List

No.	State	LGA	Site Name
I			Ogun State Store
2			LGA Store
3			BOCIF
4		Abeokuta North [U]	Lafenwa Health Clinic, Lafenwa
5			Olorunda PHC, Olorunda
6			Totoro HC
7			LGA Store
}			Olodo PHC Clinic, Odeda
)		Odeda [R]	Obantoko PHC Clinic, Odeda
0			Ilugun PHC
			LGA Store
2	Ogun		Owode PHC Clinic, Odeda
3		Obafemi Owode [R]	Obafemi PHC Clinic, Obafemi
4			Kajola PHC, Kajola
5		Ikenne [U]	LGA Store
6			Ikenne General Hospital, Ikenne
7			Irolu PHC Clinic, Irolu
8			Iperu PHC, Iperu
9			LGA Store
20			General Hospital, ljebu-ode
21		ljebu-Ode [U]	Ita-Alapo PHC Clinic, Ita-Alapo
22			Oke-Oyinbo PHC
23	Оуо		Oyo State Store
24	1		LGA Store
25	1		General Hospital, Ikoyi-Ile (MCH)
26]	Orire [R]	PHC, Iluju
27	1		PHC Youth Friendly Clinic, Tewure
28]	Ibarapa East [R]	LGA Store
29]		Family Planning Clinic, Eruwa
30]		General Hospital Lanlate

Note: U denotes Urban; R denotes Rural

No.	State	LGA	Site Name
31			FP Clinic, Eruwa
32			LGA Store
33			General Hospital, Ilora
34		Afijio [R]	General Hospital, Fiditi
35			PHC, Fiditi
36			LGA Store
37			Oni Memorial Children Hosp. FP Clinic, Ibadan
38			MCH Clinic, Ibadan, Apata
39		Ibadan South South West [U]	PHC Foko
40			State Hosp. FP Clinic Ring Road, Ibadan
41			PHC Aleshinloye
42			LGA Store
43		Ogbomoso South [U]	Ijeru Primary Health Care
44			PHC/Youth Friendly Clinic, Ilogbo
45			Edo State Store
46			LGA Store
47		Owan East [R]	Referal Centre Clinic
48			Warrake Comprehensive PHC
49		Esan West [U]	LGA Store
50			PHC Uhiele
51			PHC Ekpoma
52			PHC Illeh
53			LGA Store
54		Uhunmwode [R]	PHC Oke
55			PHC Ehor
56			PHC Orhua
57	Edo		LGA Store
58		Orada [11]	Urban Health Centre
59		Oredo [U]	PHC Oredo
60			New Benin Health Centre
61			LGA Store
62			PHC Elele
63		Etsako West [U]	PHC Auchi
64			PHC Jattu
65			LGA Store
66		Etasko Control [B]	PHC Fugar
67		Etsako Central [R]	PHC Arua
68			PHC Iraokhore
69	Abia		Abia State Store

No.	State	LGA	Site Name
70			LGA Store
71			Bende Maternity
72		Bende [R]	Umunnato General Hospital
73	-		Uzuakoli PHC
74	-		LGA Store
75	-		General Hospital, Ohafia
76	-	Ohafia [U]	Agborji Health Centre
77	-		Ania PHC
78	-		LGA Store
79	-		World Bank Health Centre
80	-	Umuahia North [U]	Afugiri PHC
81	-		FMC, EPC
82	-		Nkwoegwu Maternity
83	-		LGA Store
84	-		General Hospital Amachara
85	-	Umuahia South [U]	Nsirimo PHC
86	-		Ubakala Health Centre
87	-		Ogbodiukwu Health Centre
88	-		LGA Store
89	-		Umugo Health Centre
90	-	Ugwunagbo [R]	Ugwunagbo Health Centre
91	-		Ngwaiyiekwe Health Centre
92	-		Amaro Health Centre
93	Akwa-Ibom		Akwa-Ibom State Store
94	-		LGA Store
95	-		PHC Uruan
96	-	Uruan [R]	Methodist General Hospital, Ituk Mbang
97	-		Health Centre, Nwamba
98	-		LGA Store
99	-		PHC, Uyo
100		Uyo [U]	UUTH, Uyo
101	4		PHC lkot Eboh
102	-		HC Ikot Ayan
103			LGA Store
104			PHC Dept. Abak
105		Abak [R]	H/C Afaha Obong
106			HC Midim
107		Ikot Ekpene [U]	LGA Store
108			General Hospital Ikot-Ekpene
	<u> </u>	<u></u>	· ·

109 PHC lkot-Ekpene 111 Eket [U] General Hospital Eket 113 PHC Eket PHC Eket 114 Enugu State Store ILGA Store 114 Enugu State Store ILGA Store 116 III Failway Ind. Clinic Polyclinic - Asata 117 III Enugu North [U] Esut Specialist Hospital 120 III Esut Specialist Hospital IIII 121 III Esut Specialist Hospital IIII 122 Udenu [R] Obolio-Afor Health Centre IIIII 123 Enugu East [U] IIIII Enugu HC IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	No.	State	LGA	Site Name
111 Eket [U] CHC Okon 113 General Hospital Eket 114 FPLC Eket 115 Enugu State Store 116 Enugu State Store 117 Railway Ind. Clinic 118 Fungu State Store 119 Polyclinic - Asata 119 UNTH Enugu 120 FSP Clinic 121 LGA Store 122 Udenu [R] 123 Udenu [R] 124 Udenu [R] 125 Udenu [R] 126 General Hospital, Agbani 127 Nkanu West [R] General Hospital, Agbani 129 Ozalla Health Centre Manala Health Centre 129 Ozalla Health Centre Ozalla Health Centre 130 Enugu East [U] Abakpa Primary Health Centre 131 Lagos Lagos State Store 133 Lagos Mainland [U] Isolo PHC 134 Isolo PHC Palm Avenue PHC 135 Iagos Mainland [U] Isolo PHC 136 Iagos Mainland [U] IcGA Store	109			PHC Ikot-Ekpene
112 Eket [U] General Hospital Eket 113 PHC Eket 114 Enugu State Store 116 Enugu North [U] IGA Store 117 Railway Ind. Clinic III 118 Fenugu North [U] Polyclinic - Asata 119 Enugu Esut Specialist Hospital 120 FSP Clinic Esut Specialist Hospital 121 Orba MPHC Obolio-Afor Health Centre 122 Manala Health Centre Esut Specialist Hospital 123 Enugu Manala Health Centre Esut Special Agbani 124 Manala Health Centre Ozala Health Centre Ozala Health Centre 129 Enugu East [U] LGA Store Enugu East [U] Atabage Ugwu HC 131 Enugu East [U] LGA Store Enugu East [U] Isolo PHC 134 Iagos Lagos State Store Enugu East [U] Isolo PHC 135 Iagos Mainland [U] Isolo PHC Elsolo PHC 140 LGA Store Elsolo PHC Elsolo PHC 141 Ikorodu [U] Ikorodu General Hospital Elsolo PHC	110	•		LGA Store
112 General Hospital Eket 113 PHC Eket 114 Enugu State Store 115 LGA Store 116 Polyclinic - Asata 117 Polyclinic - Asata 118 Enugu North [U] 119 Esut Specialist Hospital 120 Esut Specialist Hospital 121 Udenu [R] Orba MPHC 122 Udenu [R] Oblo-Afor Health Centre 123 ILGA Store Orba MPHC 124 Amalla Health Centre Polyclinic - Asata 125 ILGA Store Oblo-Afor Health Centre 126 ILGA Store Pelotentre 127 ILGA Store Pelotentre 128 ILGA Store Pelotentre 129 Ozala Health Centre Ozala Health Centre 130 Enugu East [U] LGA Store ILGA Store 131 Enugu East [U] LGA Store ILGA Store 133 Lagos ILGA Store ILGA Store 134 Isolo PHC Palm	111			CHC Okon
114 Enugu State Store 115 LGA Store 116 Railway Ind. Clinic 117 Railway Ind. Clinic 118 Polyclinic - Asta 119 Enugu North [U] 120 FSP Clinic 121 Udenu [R] 122 Udenu [R] 123 Enugu 124 Udenu [R] 125 Udenu [R] 126 Hadht Centre 127 Nkanu West [R] 128 Nkanu West [R] 129 General Hospital, Agbani 129 Abakpa Primary Health Centre 130 Enugu East [U] LGA Store 131 Enugu East [U] LGA Store 132 Enugu East [U] LGA Store 133 Lagos Lagos State Store 134 Isolo PHC Palm Avenue PHC 135 Isolo PHC Palm Avenue PHC 136 Harvey Road Health Centre Ebute-Metta Health Centre 137 Isolo PHC Isolo PHC Pa	112		Eket [U]	General Hospital Eket
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146 Ibeju-Lekki [R] LGA Store		-		
		1	Ibeju-Lekki [R]	
	147	1	, L3	Ibeju PHC, Lekki

No.	State	LGA	Site Name
148			Awoyaya PHC
149			Lekki PHC, Lekki
150			LGA Store
151		F 101	General Hospital, Epe
152		Epe [R]	PHC Clinic, Epe
153			Eredo PHC
154			Nasarawa State Store
155			LGA Store
156		Obi [R]	PHC Dudu-guru
157			PHC Agwatashi
158			LGA Store
159			Masarawa Eggon PHC
160		Nasarawa Eggon [R]	Arigbadu PHC
161			PHC, Wowyen
162			PHC Kagbu "B"
163			LGA Store
164		Nasarawa Town [U]	PHC Panda
165	Nasarawa		PHC Loko
166			PHC Udege
167			LGA Store
168			PHC G/Buke
169		Toto [R]	PHC Toto
170			PHC Nakuse
171			PHC Ugya
172			LGA Store
173			Lafia East PHC
174		Lafia [U]	Doma Road PHC
175			PHC Shabu
176			PHC State Secretariat
177	Sokoto		Sokoto State Store
178			LGA Store
179			Gwadabawa Rural Health Centre
180		Gwadabawa [R]	Meli Dispensary
181			Assara Dispensary
182			LGA Store
183			UDUTH, Sokoto
184		Wamako [U]	Arkila Clinic
185			Farfaru Basic Health Clinic
186		Sokoto North [U]	LGA Store

No.	State	LGA	Site Name
187			Women/Children Welfare Clinic
188			Helele Clinic
189			Market Clinic
190			Kofar Rini Clinic
191			LGA Store
192			General Hospital, Wurno
193		Wurno [R]	Wurno Town Dispensary
194			Achida Upgraded Dispensary
195			Bauchi State Store
196			LGA Store
197			Toro Maternity
198		Toro [R]	Zaranda Maternity
199			Magama Maternity
200			Nabordo Maternity
201			LGA Store
202		Dass [R]	General Hospital, Dass
203			Town Maternity
204			Dott Maternity
205		Bauchi [U]	LGA Store
206			PHC Federal Low Cost Maternity
207	Bauchi		Tirwun MCH
208			Town Maternity
209			Yalwa Dominiliary
210			LGA Store
211			Azare Town Maternity
212		Katagum [U]	Urban Maternity Azare
213			Katagum/SYP Maternity Chinade
214			Matsango Maternity
215			LGA Store
216		Dambam [R]	Dambam Maternity Clinic
217			Jalam Maternity Clinic
218			Dagauda Maternity Clinic
219	Borno		Borno State Store
220]		LGA Store
221		Biu [U]	MCH, Biu
222			General Hospital
223			MCH Maringa
224		M. Municipal Council [U]	LGA Store
225			Specialist Hospital, Maiduguri

No.	State	LGA	Site Name
226			Gwange Clinic
227			Bolori Comprehensive Clinic
228			Yerwa Clinic
229			Zajiri PHC
230			LGA Store
231		Dikwa [R]	General Hospital, Dikwa
232			MCH Dikwa
233			LGA Store
234			MCH, Bama
235		Bama [U]	General Hospital, Bama
236			Banki CHC
237			LGA Store
238		Hawul [R]	Gen Hosp Marama
239			MCH, Shaffa
240	Kano		Kano State Store
241			LGA Store
242		M:	Kunya Basic Health Clinic
243		Minjibir [R]	Saubana Basic Health Clinic
244			Kwarkiya Health Clinic
245			LGA Store
246		Dala [U]	Dala Orthopaedic Hospital
247			Waziri Gidado General Hospital
248			Dala MCH
249			Kurna Clinic
250			LGA Store
251		K [D]	Kura General Hospital
252		Kura [R]	Unguwar Gaba Health Clinic
253			Kirya Health Post
254			LGA Store
255		Tanauni [] []	Hausawa MCH
256		Tarauni [U]	Ja'oji Health Clinic
257			K-alu Clinic
258			LGA Store
259]	Sumaila [P]	Sumaila General Hospital
260]	Sumaila [R]	MCH Patricia, Sumaila Town
261			Karofi Health Clinic
262		Kumbotso [U]	LGA Store
263			Comprehensive Health Centre
264			Basic Health Centre, Sheka

No.	State	LGA	Site Name		
265			Maikalwa Health Clinic		
266			FCT State Store		
267		Curezuele de	Specialist Hospital, G/Lada		
268		Gwagwalada	Town Clinic, G/Lada		
269			Family Health Clinic		
270			Wuse General Hospital		
271			Karu Health Clinic		
272		Municipal (AMAC)	Asokoro General Hospital		
273]		Nyanyan General Hospital		
274	Fct		Mambila Barracks. M.R.S.		
275			Gwagwa Health Clinic		
276			General Hospital, Bwari		
277		Bwari	PHC, Deidei		
278		Dwari	Mpape Health Centre		
279			Kubwa General Hospital		
280	1	Kuia	General Hospital Kuje		
281]	Kuje	PHC Clinic, Kuje		

Appendix B

Indicators

Indicators	Data Source(s)		
Stock Status			
Availability of contraceptive methods on the day of visit	Stock card records, respondent, and physical inventory		
Percent of facilities stocked out of products in the previous six months	Stock card records, respondent, and physical inventory		
Average number of days a product was stocked out in the previous six months	Stock card records, respondent, and physical inventory		
Average frequency of stockouts of a product in the previous six months	Stock card records, respondent, and physical inventory		
Percent of facilities with stock below the minimum level	Stock card records and physical inventory		
Months of stock on hand	Stock card records and physical inventory		
Logistics Management Information Sys	stem		
Percent of facility personnel trained in CLMS	Respondent		
Percent of facilities reporting they have all the forms to manage contraceptives	Respondent and presence of forms		
Percent of facilities with stock cards available by product	Presence of stock cards in facilities		
Percent of facilities with stock cards updated by product	Presence of stock cards and evidence of utilization in facilities and stores		
Percent of facilities with accurate stock balances on stock cards	Comparison of stock card balance and physical inventory count		
Reporting			
Percent of stores reporting being trained to complete the store distribution report	Respondent		
Percent of stores reporting sending store distribution report to higher level	Respondent		
Of those stores sending store distribution reports to the higher level, percent of distribution reports that are complete and accurate	Presence of distribution reports and evidence of proper utilization		
Percent of SDPs that are required to submit RIF/RIRFs are actually submitting	Respondent		
Inventory Control			

Indicators	Data Source(s)
Percent of facilities that ordered according to minimum/maximum stock levels	Respondent
Percent of facilities that had to place an emergency order	Respondent
Percent reporting they had received training on how to calculate the minimum/maximum stock level	Respondent
Order fill rate	Order records
Cost Recovery	
Percent of facilities reporting having a cash book for the CLMS or keep a record to manage cost recovery funds	Presence of cash book/record
Of those facilities with standard cash book/record, percent of ledger balances matching total commodity sales	Evidence of proper used in cash book/record
Percent with separate bank account	Respondent
Percent with difficulty withdrawing from account	Respondent
Percent of facilities reporting using CLMS funds strictly for CLMS	Respondent
Percent of facilities reporting using the margins	Respondent
Among facilities reporting using the margins, percent of ledgers/cash books showing the use of the margins according to the guidelines	Evidence of proper use
Reasons for not using the margins as described in the CLMS handbook	Respondent
Record Keeping	•
Percentage of facilities with complete and accurate RIF/RIRFs	Evidence of proper use
Percentage of SDPs with last daily consumption record complete and accurate	Evidence of proper use
Percentage of stores with tally cards complete and accurate for the last six months	Evidence of proper use
Percentage of facilities with complete and accurate cost recovery records for the past six months	Evidence of proper use
Percentage of store personnel trained to complete the RIF/RIRFs for reporting	Respondent
Supervision	
Percent of stores conducting supervisory visits using the supervision checklist	Respondent
Percentage of personnel trained to complete the supervision checklist	Respondent
Time period of conducting last supervision	Respondent

Indicators	Data Source(s)	
visit		
Percent of stores with supervision checklists on file	Presence of forms	
Of those supervision checklists on file, percent that were complete and accurate	Evidence of proper use	
Percent of facilities that report receiving supervision visits	Respondent	
Items checked during last supervision visit	Respondent	
Transportation		
Percent of stores/SDPs reporting they collected contraceptives for their facilities	Respondent	
Method of transportation used	Respondent	
Storage		
Percent of facilities that maintain acceptable storage conditions	Visual observation	
Percent of facilities meeting individual storage conditions	Visual observation	

Appendix C

Team Composition

Team No.	State	Data Collectors	Affiliation
01	Ogun	Esther O. Fadele*	NPHCDA
		O.O. Somoye	SMOH-Ogun
02	Оуо	Ralph Olayele*	FMOH
		Mojoyinola Ojediran	SMOH-Oyo
03	Edo	Judith U. Ononose*	FMOH
		Nekpen J. Agbonlahor	SMOH-Edo
04	Abia	Greg Izuwa*	FMOH
		Francisca M. Kalu	SMOH-Abia
05	Akwa Ibom	M.M. Lawal*	FMOH
		A.L.Umanah	SMOH-Akwa Ibom
06	Enugu	Sharon Simpa*	USAID DELIVER
		Frances Eze Jiofor	SMOH-Enugu
07	Lagos	Pauline Aribisala*	FMOH
		L.M. Ajibola	SMOH-Lagos
08	Nasarawa	E.O. Ladipo*	FMOH
		Maryam Buba	SMOH-Lafia
09	Sokoto	Timothy J. Obot*	FMOH
		Suleiman Salamatu	SMOH-Sokoto
10	Bauchi	Bashirat Giwa*	USAID DELIVER
		Hauwa A.A. Othman	SMOH-Bauchi
11	Borno	Gabriel I. Ortonga*	FMOH
		Malaram Moh'd	SMOH-Borno
12	Kano	Musa Odiniya*	FMOH
		James Abu	USAID DELIVER
		Ahmed Garba Zango	SMOH-Kano
13	FCT-Abuja	Liyatu P. Esubihi*	PH Dept/FCTA
		Timothy J. Obot	FMOH
		Gabriel I. Ortonga	FMOH
		Ralph Olayele	FMOH
		Greg Izuwa	FMOH
		Judith U. Ononose	FMOH

Survey Monitors				
Monitor	Site(s)	Affiliation		
Dr. Bose Adeniran	Oyo, Akwa Ibom, Lagos, Bauchi, FCT-Abuja	FMOH		
Pauline Aribisala	FCT-Abuja	FMOH		
Joe Nwankpa	Abia, Borno	FMOH		
Elizabeth Igharo	Ogun, Edo	USAID DELIVER		
Bill Conn	Sokoto	USAID DELIVER		
Elizabeth Bunde	Kano	USAID DELIVER		
Xavier Tomsej	Kano	USAID/Washington		
Kayode Morenikeji	Kano	USAID/Nigeria		
Demola Olajide	Nasarawa, Kano	UNFPA		
Chris Oyeyipo	Sokoto, Borno	UNFPA		

Data Entry Officers

Dr. Usman Kolapo (Principal Investigator)

Albert Telimoye

I.B. Timi

Ayinde Segun

Uthman Abdulazeez

* Denotes Team Leader

Appendix D

Supplementary Tables

	Management of Contraceptive by Store				Management of Contraceptive by SDP					
	No		Yes	5	Total	No		Yes	;	Total
Type of Contraceptive	Number	%	Number	%	Number	Number	%	Number	%	Number
Female Condom	8	11.8	60	88.2	68	42	21.6	152	78.4	194
Male Condom	I	1.5	67	98.5	68	18	9.3	176	90.7	194
Depo-Provera	2	2.9	66	97.1	68	I	0.5	193	99.5	194
Exluton/Microlut	5	7.4	63	92.6	68	20	10.3	174	89.7	194
lucd	11	16.2	57	83.8	68	52	26.9	141	73.I	193
Lo-Femenal	3	4.4	65	95.6	68	12	6.2	182	93.8	194
Microgynon	6	8.8	62	91.2	68	25	12.9	169	87.I	194
Noristerat	I	1.5	67	98.5	68	3	1.5	191	98.5	194
Implanon	58	85.3	10	14.7	68	185	96.9	6	3.1	191

Table DI. Management of contraceptive products by facility type

Table D2. Months of stock on hand

Contraceptive Product	Store	Sdp
Female Condom	2.4	0.9
Male Condom	4.5	2.0
Depo-Provera	2.1	2.3
Exluton	2.2	0.6
lucd	2.1	10.0
Lo-Femenal	7.1	0.8
Microgynon	1.5	1.5
Noristerat	7.1	1.0
Implanon	0.0	0.0
Gloves	29.6	6.3
Syringes	0.7	0

Appendix E

Logistics Indicator Assessment Tool (LIAT)

CLMS/LIAT ASSESSMENT 2007

Facility Identification

Instructions:

- Record the name of the facility, location and facility type information.
- Complete the Facility Identificatin Code on each page of the instrument.

Name of Facility:	
State:	State Code
LGA:	LGA Code
City/Town:	
Facility Type (I=Store; 2=SDP)	Facility Code
If SDP, mark the type of facility (I=Tertiary Hospital; 2=Secondary Hospital; 3=PHC; 4=Other)	SDP Type
If Store, mark the level of store (I=Central; 2=State; 3=LGA)	Store Type
Contact Information:	
Working telephone number:	
Alternative telephone number:	
E-mail:	

Information About Interview	
Date	DAY/ MONTH/ YEAR
Interviewer:	
Team Code:	

Introduction

Introduction:

- Introduce all team members
- Ask facility representatives to introduce themselves
- Explain the objectives of the survey
- Obtain consent to continue the survey

Good day. My name is ______. My colleagues and I are representing the Federal and the State Ministries of Health. We are conducting a survey regarding the Contraceptive Logistics Management System. We are looking at the availability of contraceptives, about how you order and receive these products, level of understanding of the CLMS forms and the status of the cost recovery system. We are visiting selected health facilities throughout the country; this facility was randomly selected to be in the survey. The primary objectives of the survey are to collect current information on logistics system performance and stock status of contraceptives.

The results of this national survey will provide important information to make decisions about the current system and to make changes to promote improvements where needed. The survey is being conducted to measure changes in the logistics system since the redesign of the system.

This is an assessment of the CLMS and not a staff performance review.

If we may, we would like to ask you a few questions and count the contraceptives you have in stock today and observe the general storage conditions. Do you have any questions?

Received permission to continue the interview:	
YesI	
No0	If NO, End Interview

Comments:

No.	Question	Code Classification	Skips
101.	Is there electricity in this facility?	YesI	
		No0	If NO, SKIP to Q103.
102.	If yes, what is the main source of available electricity?	PHCNI	
		Generator2	
		Rural electricity3	
		Solar4	
		Other8	

Section I: Facility and Interviewee Information

No.	Question	Code Classification	Skips
103.	What is the main source of water supply for this facility?	Pipe borne waterI	
		Bore hole2	
		Well3	
		Water Vendor4	
		Other8	
104.	Is there a functional phone at this facility?	Yes1	
		No0	
105.	Does this facility manage contraceptives?	Yes1	
		No0	lf NO, End Interview
106.a	What year did this facility begin implementation of the redesigned CLMS?	20031	
		20042	
		20053	
		20064	
		Don't Know9	
106.b	What year did this facility begin implementation of the streamlined CLMS (Kano, Nasarawa, Bauchi)	20061	
		20072	
		Don't Know9	

Section I: Facility and Interviewee Information

No.	Question	Code Classification	Skips
107.	What is the title of the principal person managing contraceptives at this facility?	FP/RH Coordinator1	
		Nurse/Midwife2	
		СНО3	
		CHEW4	
		Medical Officer5	
		Pharmacy Technician6	
		Store Manager7	
		Other (specify)8	
		Other (specity)	

Section I: Facility and Interviewee Information

INTERVIEWER: Get the principal person managing contraceptives at this facility to answer the remaining segments.

108.	Are you the principal person managing contraceptives?	Yes1 No0
109.	How long have you worked at this facility?	Years
		Months
		Weeks
		Days

No.	Question	Code Classification	Skips
110.	Have you been trained in Family Planning (4-6 weeks training)?	YesI	
		No0	
111.	Have you been trained on CLMS (for example, through a formal training, on-the-job training,	YesI	If NO, SKIP to
	self learning, etc.)?	No0	Q201.
112.	If yes, how?	During the formal CLMS trainingI	
		On-the-job training2	
		On-the-job (self-learning)3	
		Other (specify)4	

Section I: Facility and Interviewee Information

INSTRUCTIONS TO THE INTERVIEWER:

Ask the following questions of the person in-charge of managing contraceptives at the facility or provides family planning services. After asking all of the questions, visit the warehouse, storeroom, or storage area where the contraceptives are managed.

If you are referred to another staff member for the stocktaking exercise, introduce the survey goals and objectives as you did during the introduction.

Ask the interviewee to bring all of the records for contraceptives and the CLMS handbook.

	on 2: Ordering and Issuing		
No.	Question	Code Classification	Skips
201.	What are the sources of contraceptives to your facility?	Central StoreI	
	MULTIPLE RESPONSES POSSIBLE; MAY CIRCLE MORE THAN ONE	State Store2	
		LGA Store3	
		Commercial Sources4	
		Others (specify)5	
202.	Do you have a copy of the CLMS handbook/job aid?	YesI	
		No0	
203.	Do you have all the CLMS forms you need to manage contraceptives?	YesI	
		No0	
204.	INTERVIEWER: Ask to see if the CLMS forms are available:		
	0-51	DCR	
	0=No I=Yes	RIF/RIRF	
		CRR	
		Tally Cards	
		Cash book/exercise book	

No.	Question	Code Classification	Skips
205.	Where do you get the RIF/RIRF you need for ordering?	From the Central StoreI	
		From the State Store2	
		From the LGA Store3	
		Other (specify8	
206.	How often do you order from the higher level?	Never0	
		Every 2 monthsI	
		Every 3 months2	
		Every 4 months3	
		Annually4	
		Other8	
207.a	INTERVIEWER: Ask to see completed RIF/RIRF for the past 6 months (State=1 RIRF; LGA=2 RIRF; SDP=3 RIRF). Put in number cited.		lf 0, SKIP to Q208
207.b	INTERVIEWER: Assess the last RIF/RIRFs completed within the past 6 months and select one of the following codes:		
	I=Form complete and accurate 2=Form complete but inaccurate 3=Form are incomplete	Code	

Section 2: Ordering and Issuing

No.	Question	Code Classification	Skips
208.	How often do you use RIF/RIRF?	Never0	
		Every OrderI	
		Some Orders2	
209.	Do you order according to your minimum and maximum stock levels?	YesI	
		No0	
210.	Who calculates the minimum/maximum stock levels?	The State StoreI	
		The LGA Store2	
		The Service Delivery Point3	
		Don't Know9	
211.	Were you trained to calculate the minimum/ maximum stock level?	YesI	
		No0	If NO, SKIP to Q213.
212.	How did you learn to calculate your minimum/maximum stock level?	Never learned0	
		During the national CLMS trainingI	
		On-the-job training2	
		On-the-job (self-learning)3	
		Others (specify)8	
213.	Have you ordered from the next higher level in the last 6 months?	YesI	If YES, SKIP to Q215.
		No0	

Section 2: Ordering and Issuing

No.	Question	Code Classification	Skips
214.	If NO, what are the reasons for not ordering from the next higher level in the last 6 months?	Fully stockedI	
	(Fully stocked=not less than minimum stock/maximum stock)	Transportation problems2 Other (specify)8	
215.	How many emergency orders have you placed in the last six months?	None0	
		OneI Two2	
		Three3 More than three4	
216.	How are contraceptives transported to your facility?	Higher level deliversI	
		This facility collects2 Other (specify)8	

Section 2: Ordering and Issuing

No.	Question	Code Classification	Skips
217.	What type of transportation is most often used?	Facility vehicleI	
		Public transportation2	
		Private vehicle3	
		Motorcycle4	
		Bicycle5	
		On foot6	
		Other (specify)8	
218.	On average, approximately how long does it take between ordering and receiving products?	Upon request or presentation of the RIFI	
		Less than 2 weeks2	
		2 weeks to 1 month3	
		Between I and 2 months4	
		More than 2 months	
INTEF	VIEWER: Ask Q219 and Q220 to STORES	only	
219.	Have you developed a distribution schedule		
	for the facilities you issue to?	YesI No0	lf NO, SKIP to Q301
			•

Section 2: Ordering and Issuing

Section 2: Ordering and Issuing

No.	Question	Code Classification	Skips
220.	INTERVIEWER: Ask to see the distribution schedule and select one of the following codes: 0=Not sighted I=Sighted	Code	

Sectio	n 3: Record Keeping		
No.	Question	Code Classification	Skips
INTER\	/IEWER: Ask Q301 and 302 to SDPs of	only	
301.	Have the Daily Consumption Record been completed for the past 6 months (Dec 2006 – May 2007)? 0=No 1=Yes	December	
302.	INTERVIEWER: Assess the last daily consumption record and select one of the following codes: 1=Didn't have forms 2=Forms complete and accurate 3=Forms complete but inaccurate 4=Forms are incomplete	Code	
INTER	VIEWER: Ask Q303 and 304 to STOR	ES only	·
303.	Ask to see RIF/RIRFs from higher		

303. Ask to see RIF/RIRFs from higher and lower levels. Has the tally card for each contraceptive been filled for the past 6 months (Dec 2006 – May 2007)?	s1 0
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No.	Question	Code Classification	Skips
304.	INTERVIEWER: Ask to see the tally cards for the last six months and select one of the following codes: 1=Didn't have tally card 2=Tally card complete and accurate 3=Tally card complete but inaccurate 4=Tally card are incomplete 5=Tally card not completed at all	Code	
INTE	Image: RVIEWER: Ask the remaining question	s of both Stores and SDPs	
305.	Ask to see the RIF/RIRF for the past six months. Have the requisition, issue and report forms been completed and submitted for the past 6 months (Dec 2006 – May 2007)? 0=No 1=Yes	December	
306.	INTERVIEWER: Assess the last RIF/RIRF for completeness and accuracy. Select one of the following codes: 1=Didn't have forms 2=Forms complete and accurate 3=Forms complete but inaccurate 4=Forms are incomplete 5=Forms not complete at all		
307.	Have the Cost Recovery Records been completed for the past 6 months (Dec 2006 – May 2007)? Yes=1 No=0	December	

Sectio	Section 3: Record Reeping			
No.	Question	Code Classification	Skips	
		March		
308.	INTERVIEWER: Check if the monthly total from the DCR or tally card matches the entry on the cost recovery record and select one of the following codes: Yes=1 No=0	December		

Sectio	Section 4: Reporting			
No.	Question	Code Classification	Skips	
Interv	ewer: Ask questions 401 – 407 for ST	ORES only. If you are at a SDP, Ski	p to SECTION 5	
401.	How many facilities are supposed to send RIF/RIRFs to this facility? (Interview: Insert the number in the box to the right)			
402.	How many facilities submitted all required RIF/RIRFs for the past 6 months (Dec 2006 – May 2007)? Interviewer: Required RIF/RIRFs to be submitted are State = 1 RIF LGA = 2 RIF SDP = 3 RIF			

Sectio	Section 4: Reporting			
No.	Question	Code Classification	Skips	
403.	Were you trained to complete the RIF/RIRFs for reporting?	Yes1 No0		
For Ka	no, Bauchi and Nasarawa States SKIP	to SECTION 5		
404.	Were you trained to complete the store distribution report?	Yes1 No0		
405.	Ask to see the store distribution report. Do you send the store distribution report to the higher level?	YesI No0	If NO, SKIP to SECTION 5	
406.	How often do you send the store distribution reports to the higher level?	Never0 Every 3 months1 Every 4 months2 Every 6 months3 Other (specify)8		
407.	INTERVIEWER: Ask to see the completed distribution reports for the last twelve months and select one of the following codes: I=Forms complete and accurate 2=Forms complete but inaccurate 3=Forms are incomplete	Code		

Sectio	Section 5: Management of Cost Recovery Funds			
No.	Question	Code Classification	Skips	

No.	Question	Code Classification	Skips
501.	Do you have a standard cash book for the CLMS or keep a record to manage cost recovery funds?	YesI	
		No0	IF NO, SKIP to Q503
502.	INTERVIEWER: Check the cash book to see if the total sales match incomes and expenditures for the past six months and select one of the following codes:	Code	
	0=Didn't match I=Matched		
503.	Do you know the use of the margins as described in the CLMS handbook?	YesI	
		No0	lf NO, SKIP to Q505
504.	What are the uses of the margins as described in the CLMS handbook?	SupervisionI	
	DO NOT READ OUT THE CHOICES.	Transportation2	
	MULTIPLE RESPONSES	Incentives3	
	POSSIBLE; CIRCLE ALL THAT APPLY	Administrative Costs4	
		Other (specify)8	
505.a	Does this facility use the margins?	YesI	If YES, SKIP to Q506
		No0	

Section 5: Management of Cost Recovery Funds

No.	Question	Code Classification	Skips	
505.b	If NO, what are some of the reasons this facility has not used the margins?	Doesn't understand the useI		
		Have no control over use2	For any answer, SKIP to Q509	
		Has no access to use the margins3		
		Other (specify)8		
506.	What does this facility use the margins for?	SupervisionI		
		Transportation2		
		Incentives3		
		Administrative Costs4		
		Other (specify)8		
507.	INTERVIEWER: Check to see if the cash book shows the use of the margins according to the CLMS handbook and select one of the following codes:	Code	If "I", SKIP to Q509	
	0=Margins not according to handbook I=Margins according to handbook			

Section 5	5: Manag	gement of	Cost	Recovery	<pre>Funds</pre>
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No.	Question	Code Classification	Skip
508.	What are some of the reasons this facility has not used the margins as described in the CLMS handbook?	Doesn't understand the useI	
		Have no control over use2	
		Has no access to use the margins3	
		Other (specify)8	
509	Have any CLMS funds been used for other programs?	YesI	
		No0	

Section 5: Management of Cost Recovery Funds

510.	Have you opened a separate bank account for contraceptives?	YesI	lf YES, SKIP to Q512
		No0	
511.	If NO, what are the reasons a bank account has not been opened?		
	LIST REASONS MENTIONED		
512.	Does approval to withdraw from the account for the re-supply of contraceptives pose a problem?	YesI	
		No0	If NO, GO TO SECTION 6

No.	Question	Code Classification	Skips
513.	What problems have been encountered?	Change of bankI	
		Change of signatories2	
		Change of officers3	
		Distressed bank4	
		Lack of cooperation5	
		Other (specify)8	

Sectio	on 6: Monitoring and Supervision		
No.	Question	Code Classification	Skips
601.	Were you trained to complete the supervision check list?	Yes1 No0	
602.	When did you receive your <u>last</u> supervision visit?	Never received0 Within the last 4 months1 Within the last 6 months2 More than 6 months ago3 Other (specify)8	lf "Never received", SKIP TO Q606

No.	Question	Code Classification	Skips
603.	During your last supervision visit, which of the following were checked?	Tally cards or daily consumption recordsI	
	MULTIPLE RESPONSES POSSIBLE; CIRCLE ALL THAT APPLY	RIF/RIRFs2	
		Cost Recovery Record3	
		Store Distribution Report4	
		Cash book5	
		Storage guidelines6	
		Commodities/removal of expired/damaged stock7	
604.	Was the Supervision Check List used for the supervision?	YesI	
		No0	
605.	Who conducted the last supervision visit?	FMOHI	
		SMOH2	
	POSSIBLE; CIRCLE ALL THAT APPLY	LGA3	
		Partner/Donor4	
INTE	RVIEWER: Ask the following questions	for STORES only	1
606.	Have you conducted any supervisory visits using the supervision checklist since 2004?	YesI	lf YES, SKIP to Q608

0

No.....

Section 6. Monitorin vicio 4 5

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No.	Question	Code Classification	Skips
607.	If No, why have these visits not taken place?	Lack of transportationI Time commitments2 Unable to schedule3 Other (specify)8	Any answer GO TO SECTION 7
608.	How many such supervision visits using the Supervision Checklist have you conducted since the implementation of CLMS from 2004?	OneI Two2 Three3 Four or	
609.	When did you conduct your last supervision visit?	more4 Within the last month1 Within the last 3 months2 Within the last 6 months3 More than 6 months ago4 Other (specify)5	
610.	Do you have all your supervision checklists on file?	Yes1 No0	

Section 6	5:	Monit	oring	and	Su	pervision
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No. Question	Code Classification	Skips
611. INTERVIEWER: Ask to see the completed supervision checklist and select one of the following codes: I=Didn't have forms 2=Forms complete and accurate 3=Forms complete but inaccurate 4=Forms are incomplete	Code	

Section 6: Monitoring and Supervision

Thank you for you time and information. You have been very helpful. Our remaining questions will require looking at products in the storeroom and speaking with the person who oversees the store.

Items 701-715 should be assessed for all facilities for products that are ready to be issued or distributed to lower levels or dispensed to clients. Select based on visual inspection of the storage facility; note any relevant observations in the comments column. To qualify as "yes," all products and cartons must meet the criteria for each item.

Sectio	Section 7: Storage Conditions						
No.	Question	Code Classification	Comments				
701.	All products are arranged so that identification labels and expiry dates and/or manufacturing dates are visible.	YesI					
		No0					
702.	All products are stored and organized in a manner accessible for first-to-expire, first-out (FEFO).	Yes					
		No0					
703.	Cartons and products are in good condition, not crushed. If cartons are open, determine if products are wet or	YesI					
	cracked due to heat/radiation (fluorescent lights in the case of condoms; cartons right-side up for all products).	No0					
704.	The facility has separated damaged and/or expired products from usable products and removed them from	Yes1					
	inventory.	No0					

No.	Question	Code Classification	Comments
705.	All products are protected from direct sunlight.	YesI	
		No0	
706.	Cartons and products are protected from water and humidity.	YesI	
		No0	
707.	Storage area is visually free from harmful insects and rodents. (Check the storage area for traces of rodents	YesI	
	[droppings or insects].)	No0	
708.	Storage area is secured with a lock and key.	YesI	
		No0	
709.	If provider in charge of CLMS is absent, another staff person has access to the key	YesI	
		No0	
710.	Products are stored at the appropriate room temperature.	YesI	
		No0	
711.	Roof is maintained in good condition to avoid sunlight and water penetration.	YesI	
		No0	
712.	Storeroom is maintained in good condition (clean, all trash removed, sturdy shelves, organized boxes).	YesI	
		No0	

Section	Section 7: Storage Conditions						
No.	Question	Code Classification	Comments				
713.	The current space and organization is sufficient for existing products and reasonable expansion (i.e., receipt of expected product deliveries for	YesI No0					
714.	foreseeable future). Fire safety equipment is available and						
717.	accessible (any item identified as being used to promote fire safety should be	YesI					
	considered).	No0					
715.	Products are stored separately from insecticides and chemicals.	YesI					
		No0					
716.	Products are stacked at least 10 cm off the floor.	YesI					
		No0					
717.	Products are stacked at least 30 cm away from the walls and other stacks.	YesI					
		No0					
718.	Products are stacked no more than 2.5 meters high.	YesI					
		No0					

Table E1: Stock Status (Dec 1st 2006 – May 31st, 2007, and the Day of Visit)

Column:

- 1. Name of all authorized products that will be counted
- 2. Unit of count for the product
- 3. Whether or not the product is managed at this facility, answer 1 for YES and 0 for NO.
- 4. Check if the tally card/DCR is available, answer 1 for YES and 0 for NO.
- 5. Check if the tally card/DCR had been updated within the last 30 days, answer 1 for YES and 0 for NO. Note: If the stock card was last updated with the balance of 0 and the facility has not received any re-supply, consider the tally card up-to-date.
- 6. Record the balance on the tally card/DCR.
- 7. Record if the facility has had any stockouts during the most recent 6 full months before the survey, answer 1 for YES and 0 for NO.
- 8. Record how many times the product stocked out during the most recent full 6 months before the survey according to tally cards, if available, or to a key informant if not. Note source information.
- 9. Record the total number of days the product was stocked out during the target period before the survey.
- 10. Record the quantity of product dispensed to users or issued from the storeroom during the target period before the survey. Note: If the answer to column 4 is NO, check RIRF/RIF from lower level to this facility or clinic register.
- 11. Record the number of months of data available.
- 12. Record the quantity of usable product in the storeroom (physical inventory).
- 13. Record if the facility is experiencing a stockout of the product on the day of the visit, *according to the physical inventory*, answer 1 for YES and 0 for NO.
- 14. Record the quantity of expired products. Count all expired products on the day of the visit.
- 15. Use the reasons codes to note any reasons for a stockout on the day of visit if applicable.

Product	Unit of count	Managed by the facility? No=0 Yes=1	Tally card/DCR available? No=0 Yes=1	Tally card/DCR updated? No=0 Yes=1	Balance on tally card/ DCR	Stockout most recent 6 months No=0 Yes=1	# of times facility stocked out in last 6 months	Total number of days of stockout in target period	Total issued (in target period)	# of months of data available	Physical inventory	Stockout today? No=0 Yes=I	Quantity of expired/ unusable	Reason for stockout
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Condom female	Piece													
Condom male	Piece													
Depo Provera	Vial													
Exluton/ Microlut	Cycle													
IUCD	Piece													
Lo-femenal	Cycle													
Microgynon	Cycle													
Noristerat	Amp													
Implanon	Set													
Gloves	Pair													
Syringe	Unit													

Stock out Reason Codes: I=Higher level didn't send products; 2=Did not go pick up products; 3=Did not request the right amount; 4=Transportation unavailable; 5=Unexpectedly high demand; 8=Other (specify)

Note: For any product that experienced a stockout in the last 6 months (including the day of visit), please note reasons (by product).

Table E2. Comparison of Quantity Ordered and Quantity Received

Column:

- 1. List of products.
- 2. Enter the last quantity ordered for which products have been received.
- 3. Enter the date the order was placed (DD/MM/YR)
- 4. Enter the quantity received in the last order.
- 5. Enter the date the order was received (DD/MM/YR)
- 6. Note comments.

Product	Quantity Ordered for Last Order Period	Date Order Placed	Quantity Received in Last Order/Procurement	Date Order Received	Comments
1	2	3	4	5	6
Condom female					
Condom male					
Depo Provera					
Exluton/Microlut					
IUCD					
Lo-femenal					
Microgynon					
Noristerat					
Implanon					

Table E3: Order Fill Rate – For State and LGA Stores Only

Instructions

Obtain RIF/RIRF received by this store/warehouse during the period prior to the beginning month of the current survey (i.e. December 1st 2006 to May 31st 2007). Obtain forms corresponding to each lower-level facility to be visited during the survey and complete a separate table for each lower-level facility.

- In the appropriate space at the top of each table, write in the name of the lower-level facility that made an order to this issuing facility during the same 6 month period (column 1)
- Fill in all products ordered per ordering facility (column 2).
- Under each ordering facility, enter the quantity of product that was ordered by the lower level (columns 3a, 4a, 5a) and the amount that was supplied or issued by this facility (columns 3b, 4b, 5b).
- Note the comments on each RIF/RIRF for difference between the quantity ordered and the quantity supplied.
- Use as many pages as needed to collect data for all store facilities to be visited during the assessment.

Periods

States – 4 months (will be able to complete one period)

- LGA 3 months (will be able to complete two periods)
- SDP 2 months (will be able to complete three periods)

		Period I		Peri	od 2	Period 3	
Name of Ordering Facility	Product	Quantity ordered	Quantity supplied	Quantity ordered	Quantity supplied	Quantity ordered	Quantity supplied
I	2	3a	3b	4a	4b	5a	5b
	Condom female						
	Condom male						
	Depo-Provera						
	Exluton/Microlut						
	IUCD						
	Lo-femenal						
	Microgynon						
	Noristerat						
	Implanon						

Ask the person/people you interviewed if they want to ask you any questions or give you any information they believe could be helpful for improving the logistics system. (i.e. what is working well/not working well; suggestions for improvements; change over the last several years; comments on the job aids or CLMS handbook; etc.)

Comments or general observations:

Thank the person/people who talked with you. Reiterate how they have helped the program achieve its objectives, and assure them that the results will be used to develop improvements in logistics system performance.

For more information, please visit deliver.jsi.com.

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