Pharmaceutical Management information system Support supervision quarterly Feedback report, October to December 2013, Cameroon

February 2014





Pharmaceutical Management Information System: Support Supervision Report, October to December 2013, Cameroon

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About SIAPS

The goal of the Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Program is to assure the availability of quality pharmaceutical products and effective pharmaceutical services to achieve desired health outcomes. Toward this end, the SIAPS result areas include improving governance, building capacity for pharmaceutical management and services, addressing information needed for decision-making in the pharmaceutical sector, strengthening financing strategies and mechanisms to improve access to medicines, and increasing quality pharmaceutical services.

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Key words

ARVs, Cameroon, HIV/AIDS, information systems, PEPFAR, PMIS, Support Supervision Report, health facilities

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CONTENTS

| Acronyms and Abbreviations | v |
|---|-------------------------------------|
| Acknowledgments | . vii |
| Executive Summary PMIS Supportive Supervision Quarterly Update | |
| Introduction Current Key SIAPS Interventions | |
| Results General Aspects of Inventory Management ARV Consumption Patient Information Number of patients on ARV who did not come for treatment in the month from October to | 4 . 12 |
| December 2013 Treatment Regimens Analysis SIAPS Actions during this Supervision | . 20 |
| Recommendations | . 27 |
| Follow-up Actions Needed | . 29 |
| Annexes Annex A. Health Facilities Supervised in January and February 2014 Annex B. Trend of the consumption of ARV per region (Oct-Dec 2013) Annex C. Quantity of ARV available at the day of the visit Annex D. report on the distribution of Stock Card, Reception PV, Stock out file and invento during Quarter 1 support supervision Annex E. Number of Active Patients Receiving ART from January to December 2013 in | . 31 . 34 . 35 ory . 35 |
| Cameroon | . 31 |

Tables

| Table 1. Patient Distribution by Region in December 2013 | . 15 |
|--|------|
| Table 2. Percentage of Adult Patients on First-Line ARVs | . 24 |
| Table 3. Follow-up Recommendations | . 29 |

Figures

| Figure 1. Logistics Management Information Systems reports submitted on time from health | |
|--|---|
| facilities to GTR/CNLS, October–December 2013 | ł |
| Figure 2. Completeness of health facility reports | 5 |
| Figure 3. Percentage of health facilities with medicine on pallets, on shelves, and using TARV | |
| registers (N = 32) | 1 |

| Figure 4. Percentage of health facilities monitoring temperature condition, October–December 2013 |
|---|
| Figure 5. Percentage of health facilities with stock card available for each product at the |
| |
| pharmacy |
| Figure 6. Percentage of health facilities with up-to-date stock cards |
| Figure 7. Inventory variation between recorded and physical stock in 32 health facilities, |
| October–December 2013 |
| Figure 8. Consumption trend for six first-line ARVs, October–December 2013 12 |
| Figure 9. Estimated days of stock of LPV/r 200/50 mg and ATV/r 300/100 mg, January 2014 . 13 |
| Figure 10. Estimated number of months of stock of pediatric ARVs at ART health facilities on |
| the date of visit (Jan 2014) LPV/r, ATV/r |
| Figure 11. The trend of patients accessing treatment in Cameroon in 2013 |
| Figure 12. ART patient trends by region, January–December 2013 |
| Figure 13. Trend of the number of patients in SIAPS-supported health facilities in Cameroon, |
| October-December 2013 |
| Figure 14. Average number of patients eligible to receive ART and the average number of |
| patient treated |
| Figure 15. Number of absent patients recorded from October to December 2013 |
| Figure 16. Trend of the percentage of patients on adult first-line regimens in the Center region |
| October-December 2013 |
| Figure 17. Trend of the percentage of patients on first-line regimen, October–December 2013. 20 |
| Figure 18. Trend of percentage of patients on adult first-line regimens in Adamawa, October- |
| December 2013 |
| Figure 19. Trend of the percentage of patients on adult first-line regimens in East Region, |
| October-December 2013 |
| Figure 20. Trend of the percentage of patients on adult first-line regimens in North-West Region, |
| October-December 2013 |
| Figure 21. Trend of the percentage of patients on adult first line regimens in South \-West |
| Region, October-December 2013 |
| Figure 22. Trend of the number of patient on second line per region, October-December 2013. 24 |

ACRONYMS AND ABBREVIATIONS

| AIDS | acquired immunodeficiency syndrome | |
|--------------|--|--|
| ART | antiretroviral therapy | |
| ARV | antiretroviral | |
| AZT/3TC +EFV | Zidovudine/Lamivudine+ Efavirenz | |
| AZT/3TC/NVP | Zidovudine/Lamivudine/Nevirapine | |
| CAPR | Centre d'Approvisionnement Pharmaceutique Régional (Regional Medical Store) | |
| CEBEC | Conférence des Eglises Evangéliques et Baptistes du Cameroun | |
| CDC | US Centers for Disease Control and Prevention | |
| CMES | Centre Medical des Entreprises de la Sanaga | |
| CNLS: | Commission Nationale de Lutte Contre le SIDA (National HIV AIDS Program) | |
| СТА | Centre de Traitement Agree (Health Facilities Treatment Center) | |
| FCB | Foundation Chantal Biya | |
| GTR | Groupe Technique Regional (Regional Technical Group) | |
| HIV | human immunodeficiency virus | |
| LMIS | Logistic Management Information System | |
| M&E | monitoring and evaluation | |
| MoPH | Ministry of Public Health | |
| NACC | National AIDS Control Committee | |
| PEPFAR | President's Emergency Plan for AIDS Relief | |
| PMIS | Pharmaceutical Management Information System | |
| SIAPS | Systems for Improved Access to Pharmaceuticals and Services | |
| TDF/3TC/EFV | tenofovir/lamivudine/efavirenz | |
| TDF/3TC+NVP | tenofovir/lamivudine + nevirapine | |
| TARV | Traitement Anti-Retroviral (antiretroviral treatment) | |
| UPEC | Unité de Prise en Charge (Health Facilities Treatment Center) | |
| USAID | US Agency for International Development | |

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SIAPS/Cameroon acknowledges the massive contribution made by all the Regional Medical Store Managers, the Directors, the Coordinators, and the Pharmacy staff of health facilities for their commitment during this support supervision.

SIAPS/Cameroon also acknowledges the pharmacy attendants (Commis), the staff in charge of completing the ART and pre-ART registers and in charge of monthly reporting (data clerk: Agents de Remplissage des Registres) at health facilities level for their commitment and involvement.

SIAPS/Cameroon finally acknowledges the technical support provided by SIAPS Headquarters staff David Mabirizi, Principal Technical Advisor HIV and AIDS, and Gabriel Daniel, Principal Technical Advisor, through the draft and review of the report.

EXECUTIVE SUMMARY

Based on previous assessment findings and to fill the gaps, SIAPS supports improving data management of HIV and AIDS commodities in targeted ART health facilities in Cameroon by:

- Assessing storage practices and inventory management to mentor and guide system improvement
- Collecting data and information for the monitoring patients and stock
- Mentoring and building the capacity of pharmacy attendants, storekeepers, and data clerks on storage, dispensing practices, inventory management, filling in registers, and reporting HIV and AIDS data

PMIS Supportive Supervision Quarterly Update

A joint team of CNLS (central and regional levels) and SIAPS provided supportive supervision in January 2014 for 6 of 10 regions of Cameroon and 30 percent of the ART health facilities in those regions. The supportive supervision covered data from the period of October to December 2013 for an estimated 55.6 percent of the total number of patients on ARV in Cameroon. This was the second time this activity was performed in Cameroon and it provided a deeper understanding of what is happening at health facilities and provided a perspective of on the number of patients, by regimen, by region, and by product.

SIAPS has adapted the CNLS overall program supervision guide (*Guide des supervisions des acteurs de la mise en œuvre du plan stratégique nationale de lutte contre le VIH, le Sida et les IST 2011-2015*) to focus on supply chain management components. The adapted guide focuses on three levels—CNLS at regional level, Regional Medical Store level, and health facilities level. The guide provides instructions on immediate actions that can be taken to resolve on-site problems when necessary and instructions for the collection of data necessary to monitor and evaluate ongoing supply chain management interventions. Finally, this guide facilitates monitoring of actions that may be taken by heads of different structures to improve their performance; it lists the data to be shared between different levels to help manage patients and stock information at health facilities.

Thirty-four ART health facilities were targeted for this exercise. Fourteen were *Centre de Traitement* Agree (CTA), health facility treatment centers that represents the general, central and regional hospitals, Centre Hospitalier Universitaire and assimilated private hospitals. Twenty were "Unité de Prise en Charge" (UPEC—health facilities treatment center) represents the district hospitals. The list of targeted health facilities is presented in annex A. The CTA provide supervision, monitoring, quality control, and mentorship to a number of UPECs in their catchment area.

All facilities supervised were in the regions of Adamawa, Centre, East, Littoral, North-West, and South-West. SIAPS technical staff members provide technical support, conduct trainings, provide supportive supervision, and mentor targeted health facilities in these regions. Three staff members are working within their respective catchment areas. They entered indicator data into forms loaded into their respective computers. Data is relayed to central level where it is aggregated and reported out by a senior technical advisor.

Results show a drop in the health facilities reporting on time from October 2013 to December 2013 for some regions. In Adamawa region, 100 percent of health facilities submitted their reports on time in October 2013 compared to 66.7 percent in December 2013. In Littoral region, there was a drop from 57.1 percent in October 2013 to 14.3 percent in December 2013.

In the North-West region and in two health facilities in the South-West region (Kumba District Hospital and Buea Regional Hospital), 100 percent of stock card records matched with physical inventory. Batouri District Hospital, Douala General Hospital, and Limbe Regional Hospital recorded the lowest scores of 14 percent of their records matching actual physical inventory.

ART patient distribution by region shows that the Centre Region has the highest proportion of patients on ART in Cameroon (26 percent) followed by the Littoral region (20.5 percent), the North-West (15.1 percent), and the South-West (10.5 percent).

AZT/3TC/NVP was the most used regimen in all regions between October and December 2013. The proportion of patients on this regimen is 51 percent in the Centre region and 77 percent in the Adamawa region. In December 2013, 84 percent of patients on treatment in Adamawa and 72 percent in North-West regions were on AZT/3TC/NVP. At health facilities visited within the same period, 56 percent experienced a stock-out of AZT/3TC/NVP and 40.6 percent experienced a stock-out of AZT/3TC.

During this time period, SIAPS staff-

- Provided stock cards to targeted health facilities.
- Trained storekeepers and pharmacy attendants on the use of stocks cards in a few health facilities
- Updated stock cards
- Made inventory control forms available to health facilities storekeepers and pharmacy attendants

The recommendations included—

- Providing ARV dispensing registers to health facilities and building health facilities staff capacity on using registers
- Identifying other causes of variation in the number of patients at health facilities and correcting the discrepancies
- Quarterly and annual review of patient data in terms of active versus inactive patients, new patients, and patients lost to follow-up
- Ensuring that communications are open and working between health facilities and health workers on regimen substitution in case of stock-outs and dissemination to health facilities
- Harmonizing commodities management and reporting tools and dissemination of standard tools in all health facilities
- Providing feedback to heads of all supervised health facilities

INTRODUCTION

The 2011 Demographic Health Survey revealed that the HIV and AIDS prevalence rate in Cameroon decreased from 5.1 percentin 2009¹ to 4.3 percent in 2011². The number of patients receiving ARV treatment has increased from 89,455 in December 2010 to around 126,449 in September 2013³. To increase coverage, the Government of Cameroon plans to increase the number of new patients (adults and children) starting antiretroviral therapy (ART) to 17,993 during 2014. By 2015, Cameroon wants to be treating 80 percent of people living with HIV and AIDS.

The efficient functioning of the public HIV and AIDS supply chain management system in Cameroon is critical to the success of the Ministry of Public Health (MoPH) plans for scale-up of HIV and AIDS activities. The public pharmaceutical activities in Cameroon are coordinated by and through the Central Medical Stores (CENAME), the Regional Medical Stores (CAPRs), and public health facility pharmacies. All supplies and drugs are procured and distributed through CENAME. The largest donors for the procurement of HIV and AIDS commodities in Cameroon are the Global Fund for AIDS, Tuberculosis and Malaria and the Government of Cameroon. Over the past two years, the President's Emergency Plan for AIDS Relief, the World Bank, and the French Cooperation have also been funding procurement of ARVs.

Since mid-2012, the health care system in Cameroon has been characterized by low access to HIV and AIDS commodities, primarily because of insufficient funding for procurement. Health facilities lack and inadequately transmit information on actual consumption data to the CAPRS. The lack of and inadequate transmission of the information through the CAPRs and the regional technical group to the national HIV program (CNLS) and CENAME have led CNLS to forecast needs based on distribution data rather than on the actual consumption. This has contributed to frequent stock-outs at all levels of the supply chain (central, regional, and health facilities). Currently, 159 health facilities provide ART treatment. Since 2006, the number of health facilities providing PMTCT services has also increased to 1,159 in 2012—an increase of 81.4 percent in 5 years. Nearly 50 percent of health facilities have more than 150 patients on treatment, and around 17 percent has more than 1,000 so getting the information from patients' files is tedious and leads to frequent errors.

PEPFAR has strategically set a goal of building the capacity of the national pharmaceutical and logistic system in Cameroon. At the end of 2012, the Government of Cameroon requested assistance from PEPFAR to procure ARVs through the Emergency Commodity Fund mechanism to avoid the impact of an ARV stock-out. PEPFAR procured ARVs in 2013 and rapid test kits worth \$5.8 million. Procuring ARVs is just the initial step in providing lifesaving treatment to people living with AIDS. These medicines must be distributed to the right ART sites, inventoried and stored properly, and managed through proper patient record keeping.

¹ CNLS, Profil des estimations et projections en matière de VIH et Sida au Cameroun 2009-2015, 2009

² République du Cameroun, Enquêtes Démographique et de Sante et a Indicateurs Multiples, (EDS-MICS), 2011

³ CNLS, Rapport Mensuel des activités de lutte contre le VIH/SIDA du Comité National de lutte contre le VIH/SIDA, Septembre 2013

In 2011 and 2012, SIAPS Cameroon conducted various assessments of the MoPH institutions operating in the public supply chain for pharmaceuticals and health commodities. In 2012, USAID West Africa Office provided PEPFAR funding for the SIAPS program to improve supply chain management of HIV and AIDS commodities in Cameroon. Through those assessments, SIAPS identified the primary challenges in pharmaceutical management as unclear organizational management structures and procedures, human resource bottlenecks, ineffective coordination, inadequate inventory-control management systems, and inadequate dispatch and distribution systems. In addition, data was unreliable on patients and stock at all levels which lead to a weak information system that leads to unreliable quantification and ineffective supply planning. Together, these challenges resulted in an inability of the supply chain system to accommodate the increased load anticipated from efforts to scale up and expand HIV and AIDS activities under MoPH.

SIAPS's main focus in Cameroon was to-

- Improve inventory management of HIV and AIDS commodities through implementing trainings for MoPH central and regional levels and ART health facility staff members. In 2013, SIAPS conducted a series of trainings on HIV and AIDS commodities management and reporting tools for the CNLS central and regional staff; for CENAME and CAPR warehouse staff members; and for ART pharmacy attendants, storekeepers, and data clerks. In total, 162 participants were trained.
- Working closely with the CNLS central and regional teams to establish a coordinated system for data collection, submission, collation, and analysis (at all levels) of logistics management information. SIAPS will enhance the current paper-based HIV information system to ensure availability and use of pharmaceutical management information for decision making at different levels of the Cameroonian health system and the National AIDS Control Committee (NACC).

Current Key SIAPS Interventions

Human Capacity Building Training/Staffing

SIAPS is working to develop the knowledge and skills of CNLS and MoPH key players at different levels using cascade training, mentorship, and standard operations procedures; the program also provided dispensing registers and stock cards.

PMIS and Inventory Management

SIAPS is focused on strengthening systems for data collection, submission, collation, and analysis through revising and standardizing reporting tools on patients and stock information. and using health facilities supportive supervision to solve patient and stock data discrepancies at all levels.

Storage and Handling

SIAPS is addressing storage and dispensing challenges, and making equipment available when necessary for efficient handling and storage of medicines/ARVs.

Partnership and Coordination

SIAPS is collaborating and coordinating with key PEPFAR partners and MoPH stakeholders through discussions, meetings and review of PMIS feedback report findings.

RESULTS

General Aspects of Inventory Management

Report Timeliness

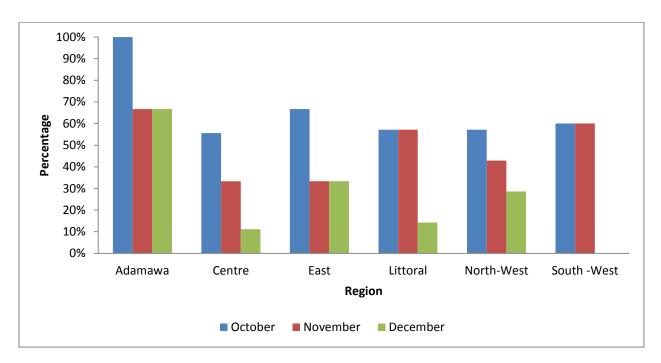


Figure 1. Logistics Management Information Systems reports submitted on time from health facilities to GTR/CNLS, October–December 2013

Figure 1 shows that from October to December 2013, the number of health facilities that submitted their report before the fifth of the following month as recommended by CNLS regional unit (GTR) decreased. The specific Logistics Management Information Systems reports are listed as followed—

- 1. General patient report (Fiche mensuelle de prise en charge globale des PVVIH)
- 2. Patient report by regimen (*Fiche mensuelle de prise en charge globale des PVVIH par protocole de traitement*)
- 3. Stock report (*Fiche de suivi de stock et de consommation*).

In the Adamawa region, all (100 percent) health facilities submitted their report on time in October as compared to 66.7 percent in December 2013. In the Centre region, the number of facilities that submitted on time fell from 55.6 percent in October 2013 to 11.1 percent in December 2013. In the Littoral region, there was a drop from 57.1 percent to 14.3 percent from October to December 2013.

In the South-West, none of the health facilities visited filed its report on time in December 2013. The regional coordinator of CNLS in South-West left last September 2013 and data clerks have not received their salaries for quite few months. The data clerk at the Regional Hospital Limbe is has been frequently absent from work so the report was written by a nurse. At Mutengene Baptist hospital, the data clerk comes only at the end of the month to compile the reports.

The data clerk at Laquintinie Douala hospital is facing enormous difficulties in accessing the patient and stock registers in other areas such as the registration office, blood transfusion services, and laboratories to compile the monthly reports.

Report Completeness

Completeness in this section refers to the number of reports sent compare to the total number of expected reports on a monthly basis.

Only 20 (62.5 percent) of the 32 health facilities visited submitted all expected reports. Incomplete and inaccurate reports significantly affect the amount and quality of data used for quantification and supply planning.

Figure 2 shows all health facilities targeted in the regions of Adamawa, North-West, and East submitted all expected reports to GTR/CNLS at the end of each month. In the Littoral region, only one hospital, CEBEC (Conference des Eglises Evangéliques et Baptistes du Cameroun) Bonaberi submitted all seven expected reports at the end of the month. Most reports that health facilities failed to submit are the stock report and the patient report by age and sex, the key reports for the accurate quantification of ARVs.

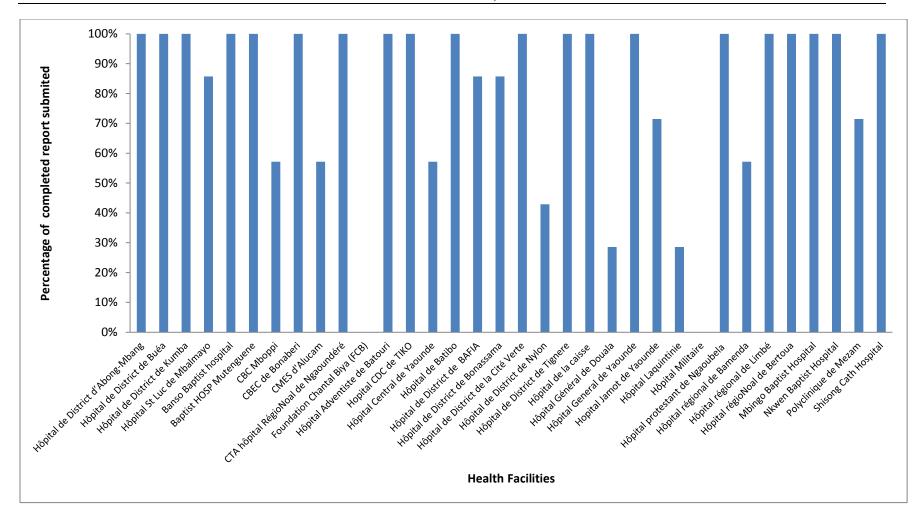


Figure 2. Completeness of health facility reports

Medicines Storage

The pharmacy storage areas for all facilities were assessed for the following practices—

- Appropriate arrangement of pharmaceuticals (medicines on pallets, medicines on shelves etc.)
- Ventilation, sunlight, temperature monitoring practices
- Existence of stock card and stock card update for each product

The chart below shows the percentage of health facilities with medicine on pallets, on shelves and that are using Traitment Anti Retro-Viral (TARV) registers.

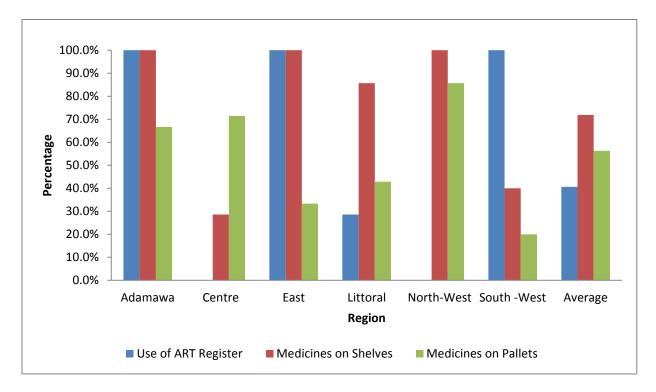


Figure 3. Percentage of health facilities with medicine on pallets, on shelves, and using TARV registers (N = 32)

All health facilities visited in Adamawa, East, and South-West regions had the TARV registers available. In Littoral region, only 2 health facilities (Cameroon Baptist Convention (CBC) Mboppi and Bonassama hospitals) were using the registers, and other health facilities in Littoral, Centre, and North-West regions did not have registers and they were using other alternative books making data compilation of daily patient attendance at the clinics not standardised and incomplete.

Medicines were on shelves in 100 percent of health facilities visited in Adamawa, East, and North-West regions. In the six regions visited, an average of 40.6 percent of health facilities were using TARV registers, 71.9 percent had their medicines on shelves, and 56.3 percent of health facilities had medicines on pallets.

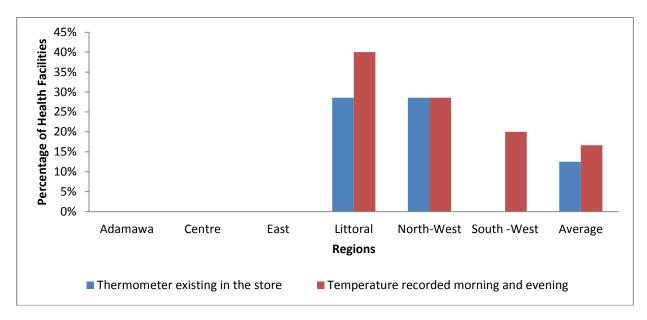
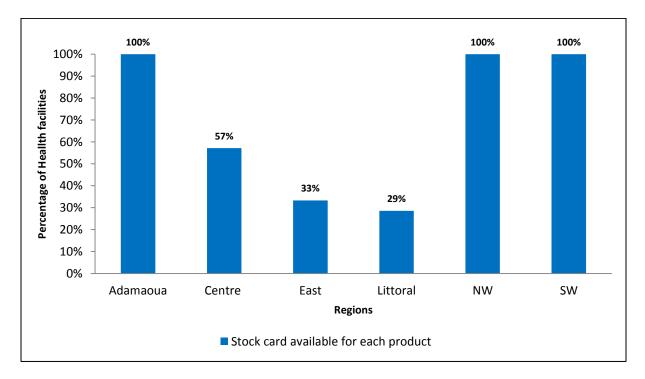
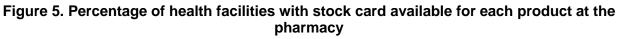


Figure 4. Percentage of health facilities monitoring temperature condition, October– December 2013

Figure 4 shows that, on average, 13 percent of all the visited health facilities have a wall thermometer and that only 17 percent of this group properly record temperatures twice a day.





Stock cards were available in 100 percent of health facilities visited in Adamawa, North-West and South-West regions. Of the health facilities visited respectively in the Centre, the East, and the Littoral, 57 percent, 33 percent, and 29 percent had stock cards available for each product. Health facilities where stock cards were not available for each product are District Hospital of Bafia, Regional Hospital Bertoua, District Hospital Batouri, Laquintinie Hospital Douala, General Hospital Douala, and General Hospital Yaoundé. In these hospitals, stock cards were in use for some but not all products. However, no stock cards were available at CMES (Centre Medical des Entreprises de la Sanaga) Alucam, Jamot Hospital of Yaoundé, Central Hospital of Yaoundé, CEBEC Bonaberi, and Nylon Hospital of Douala.

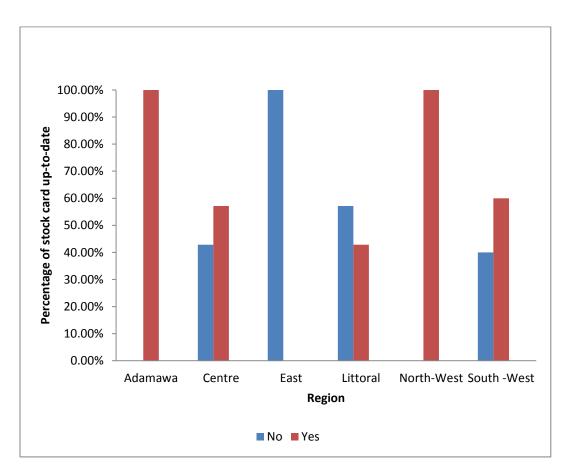


Figure 6. Percentage of health facilities with up-to-date stock cards

Stock cards were not up-to-date in 42.9 percent, 57 percent, and 40 percent of health facilities respectively in the Centre, Littoral, and South-West regions. The health facilities concerned are Mutengene Baptist Hospital, Cameroon Development Corporation Tiko, Batouri District Hospital, Regional Hospital Bertoua, Douala General Hospital, Laquintinie Hospital Douala, Limbe Regional Hospital, Hospital General de Yaoundé, Hospital de District d'Abong-Mbang, and Hospital de District de la Cite Verte.

To evaluate the correlation between the theoretical stock (records) and physical inventory (physical count), seven products were selected in the warehouse and at the point of dispensing. The values obtained were compared to those recorded on the stock cards. For each product that the theoretical stock matches with the physical count, the health facility scored 1(one); and zero when they are not matching. The total score was calculated in percentage. Figure 7shows the scores obtained for each health facilities.

In Figure 7, Foundation Chantal Biya Hospital (FCB) and Military Hospital were not visited because the pharmacy attendants were not available at the time of the visit. Batouri district hospital, Douala General hospital and Limbe regional hospital recorded only 14 percent of their stock records matched with physical counts—the lowest scores. However, 100 percent of all health facilities visited in the North-West and two health facilities visited in the South-West (Kumba district hospital and Buea regional hospital) had physical stock that matched their record stock.

Stock cards were not up-to-date at Mutengene Baptist Hospital, Tiko Cameroon Development Corporation hospital, Batouri District hospital, Bertoua regional hospital, Douala General hospital, Laquintinie regional hospital, and Limbe Regional Hospital. At Tignere district hospital, stock cards are used in place of dispensing registers. At Nylon district hospital, ARVs are stored in the office of the Coordinator of the Treatment Center and no tools exist to monitor management. In Douala General Hospital, a stock of ARVs opportunistic infections (OIs) products that expired since 2006 were still on the shelves. Results

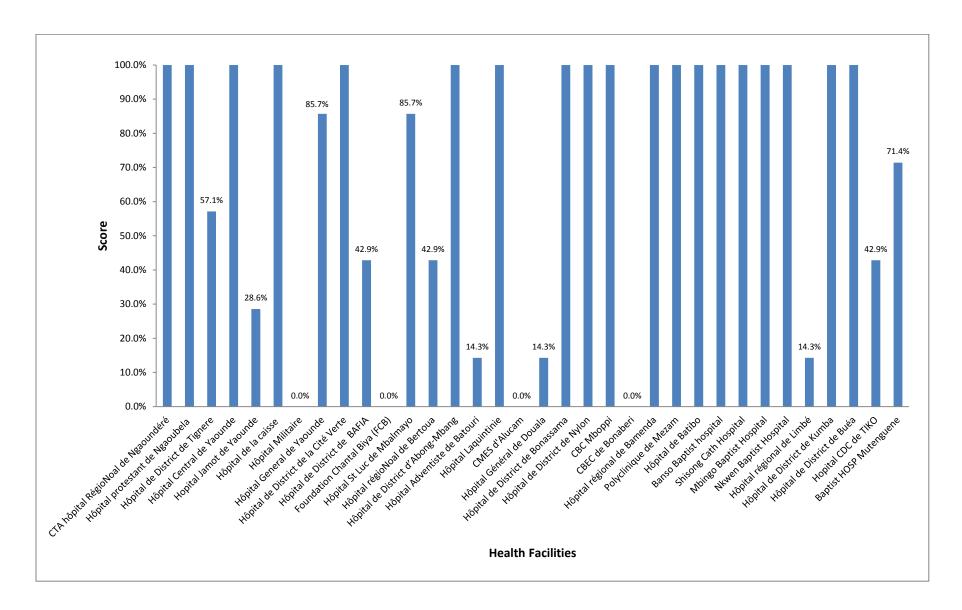


Figure 7. Inventory variation between recorded and physical stock in 32 health facilities, October–December 2013

ARV Consumption

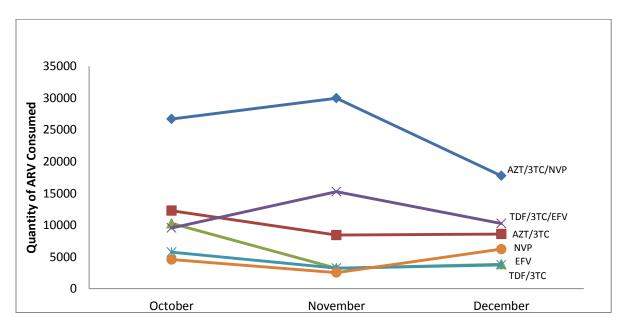


Figure 8. Consumption trend for six first-line ARVs, October–December 2013

Figure 8 reflects a fluctuation in the consumption of first-line ARVs from October to December 2013. Annex B shows the trends of consumption for first-line ARVs per region. It was difficult to define an Average Monthly Consumption level. To determine accurate AMC, it will require more months of monitoring and uninterrupted supply of ARVs. ARV first-line stock on hand at the day of the visit is presented for each of the 6 regions in annex C.

Results

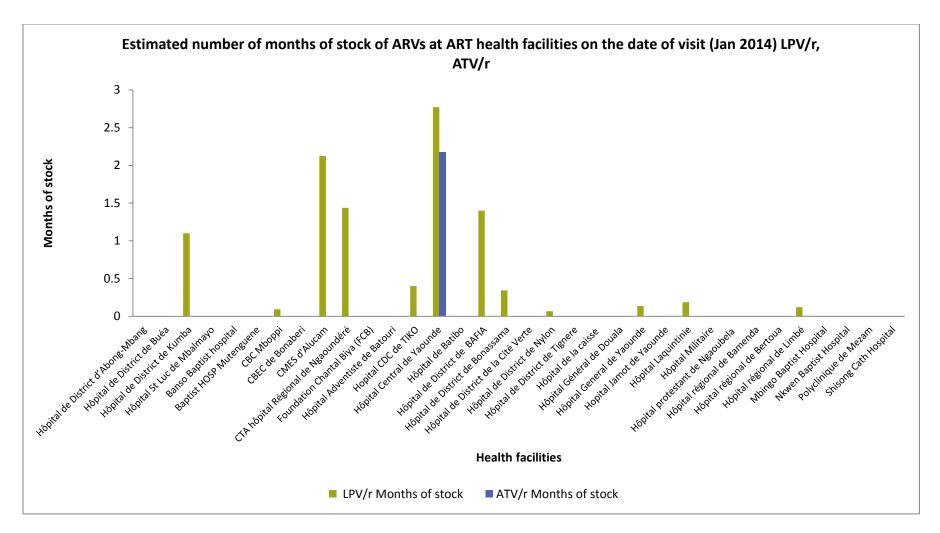


Figure 9. Estimated days of stock of LPV/r 200/50 mg and ATV/r 300/100 mg, January 2014

More than two months of stock of LPV/r were available at Yaoundé Central hospital and CEMES Alucam hospital. One month of stock of LPV/r was available at Bafia district hospital, Ngaoundere regional hospital, and Kumba district hospital. Other health facilities had less than half a month of stock.

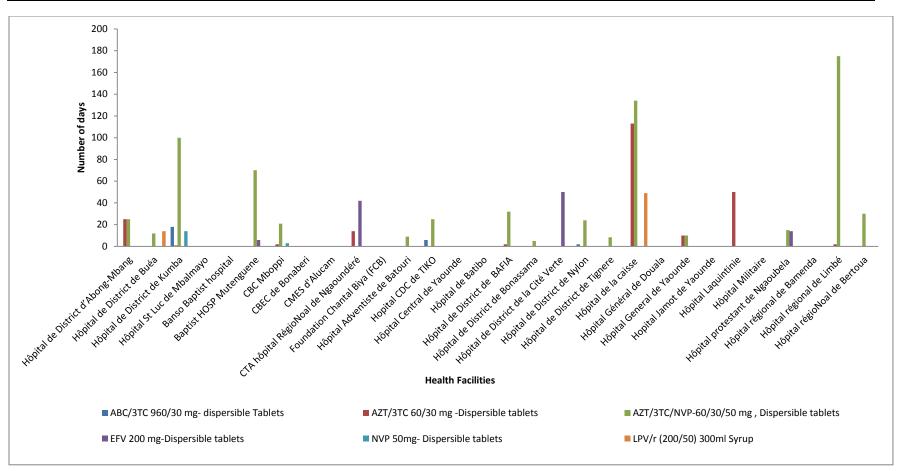


Figure 10. Estimated number of months of stock of pediatric ARVs at ART health facilities on the date of visit (Jan 2014) LPV/r, ATV/r

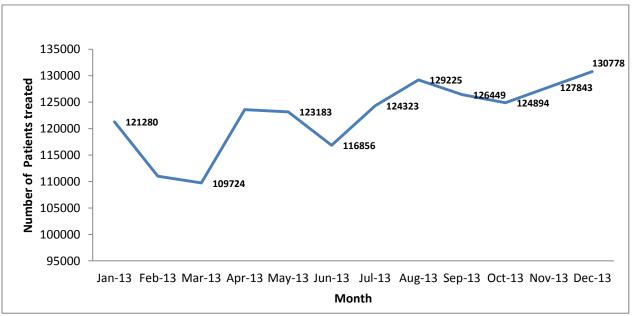
AZT/3TC/NVP 60/30/50 mg were the most available pediatric ARVs in the majority of the health facilities visited. Less than 10 days' supply, however, was available at Buea annex regional hospital, Adventist Hospital of Batouri, District hospital Bonassama, and General hospital Yaoundé.

Patient Information

| Region | Patients on treatment, N | Patients, % |
|------------|--------------------------|-------------|
| Adamawa | 3,799 | 2.9 |
| Center | 33,999 | 26.0 |
| East | 5,269 | 4.0 |
| Far North | 6,060 | 4.6 |
| Littoral | 26,848 | 20.5 |
| North | 5,013 | 3.8 |
| North-West | 19,713 | 15.1 |
| West | 12,015 | 9.2 |
| South | 4,355 | 3.3 |
| South-West | 13,707 | 10.5 |
| Total | 130,778 | 100.0 |

Table 1. Patient Distribution by Region in December 2013

The distribution of patient on treatment by region shows that the Centre Region has the highest number of patients on treatment, 33,999 (26 percent), followed by Littoral 20.5 percent, North-West 15.1 percent, and South-West 10.5 percent.



Source: National AIDS Control Committee monthly reports from the CTG January 2014



The graph above shows that the number of patients on treatment in Cameroon fluctuated significantly from January to December 2013. During the months of February, March, and June 2013, the country recorded the lowest number of patients who have received treatment. These months correspond to periods of ARV stocks-out in the country.

Figure 12 shows the trend of the number of ART patients that accessed treatment by region from January to December 2013.

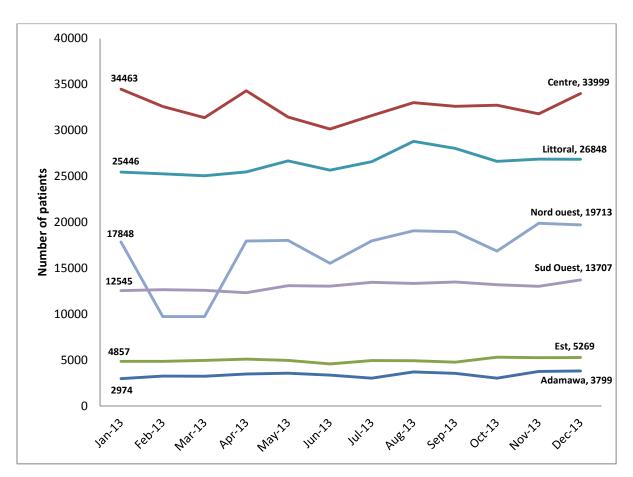
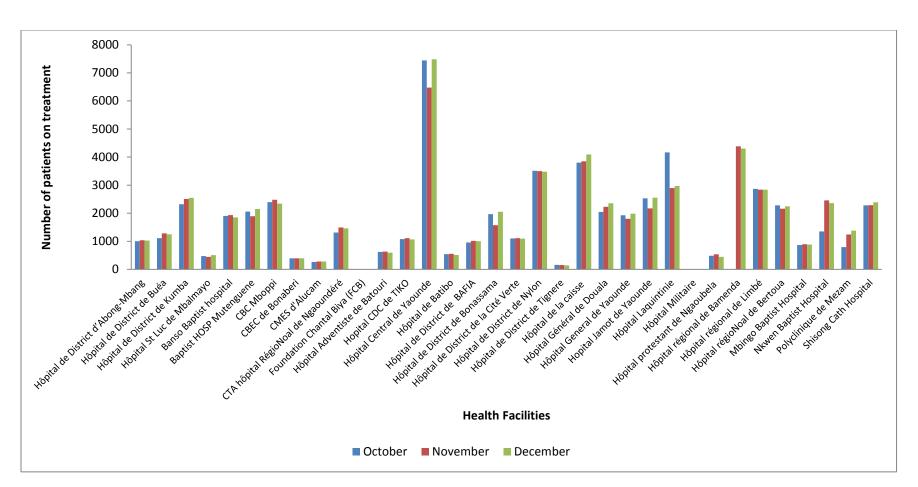


Figure 12. ART patient trends by region, January–December 2013

Like figure 11, figure 12 shows that the number of patients fluctuated in all regions throughout 2013, with the North West region showing more fluctuations than the others regions. The impact of ARV stock-outs in Cameroon in 2013 was more noticeable in the region of North-West unlike the Western Region where the number of patients under treatment has risen gradually from January to December 2013. The number of patients on treatment increased from January to December 2013 in South-West (from 12,545 to 13,707), North-West (from 17,848 to 1,713), Littoral (from 25,446 to 26,848), East (from 2485 to 5269), and Adamawa (from 2,974 to 3,799). However, the number of ART patients in the Centre Region reduced from 34,463 in January 2013 to 33,999 in December 2013.



Results

Figure 13. Trend of the number of patients in SIAPS-supported health facilities in Cameroon, October-December 2013

As shown in figure 13 for the October–December 2013 period, five hospitals (Yaoundé Central Hospital, the Laquintinie hospital Douala, Yaoundé Jamot Hospital, Baptist Hospital of Mutengene, and Regional Hospital Bertoua) show fluctuations in the number of patients treated. This calls for finding the cause for such fluctuations so that corrective measures can be taken.

Note that the Chantal Biya Hospital and Military Hospital were not visited. The pharmacy attendant and the data clerk were absent. Added to that, the treatment center of the Military hospital was being relocated.

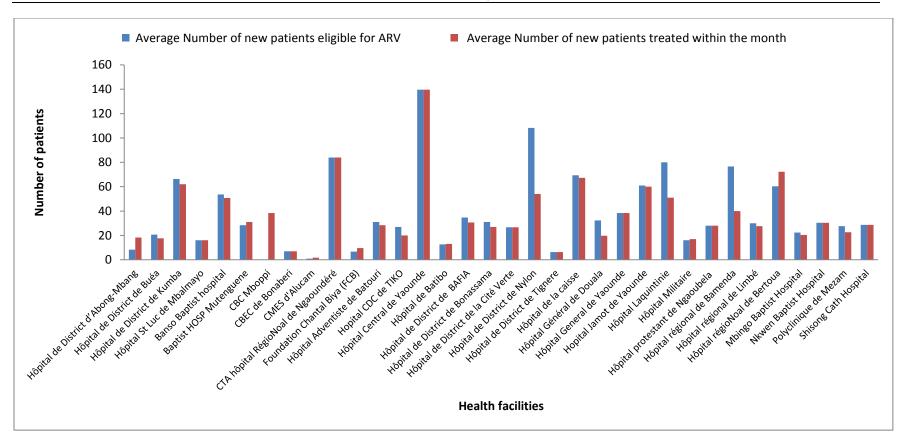
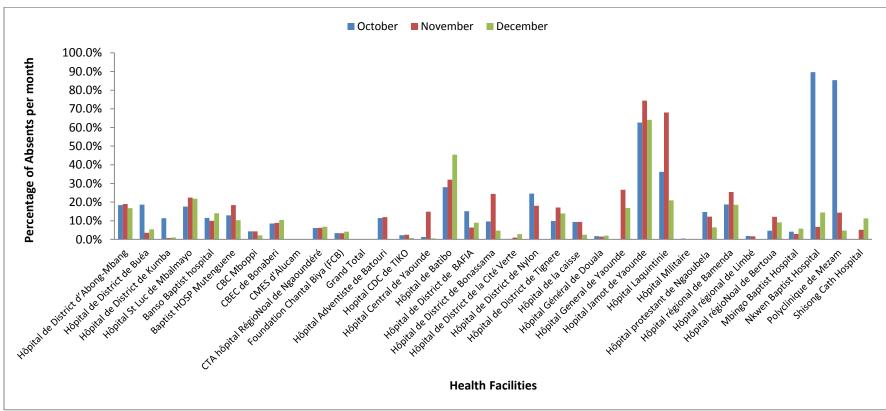




Figure 14 shows that all the patients eligible from October to December 2013 in 12 (38 percent) of the 32 health facilities visited were treated. In the remaining 20 facilities (62 percent), at least 52 percent of patients eligible to receive ART were treated.



Number of patients on ARV who did not come for treatment in the month from October to December 2013

Figure 15. Number of absent patients recorded from October to December 2013

Figure 15 shows that Nkwen Baptist Hospital (89.7 percent), Polyclinic Mezam (85.4 percent), and Jamot Yaounde Hospital (63 percent) had registered patients who did not come for treatment. In November, the percentage of patients who did not come for treatment were 74 percent at Jamot Yaounde Hospital and 68 percent at Laquintinie Hospital Douala. With the exception of District Hospital Batibo that recorded 45 percent absenteeism in December 2013, all others health facilites had less than 30 percent of absent registered patients from October to December 2013.

Treatment Regimens Analysis

Centre Region

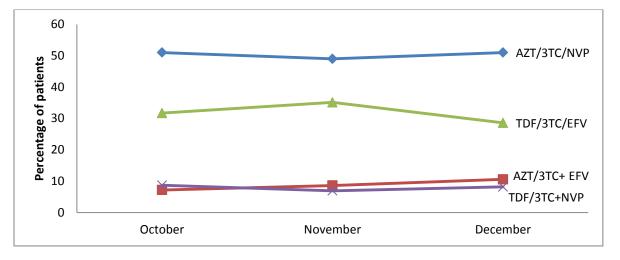


Figure 16. Trend of the percentage of patients on adult first-line regimens in the Center region October-December 2013

Figure 16 shows that the percentage of patient on AZT/3TC/NVP in the Center region barely changed with a 2 percent drop in November. On the other hand, the percentage of patients on TDF/3TC/EFV rose from 31.7 percent to 35.1 percent and then dropped to 28.6 percent from October to December. The percentage of patients on AZT/3TC+EFV went from 7.2 percent in October to 8.6 percent in November, and 10.6 percent in December 2013. Meanwhile, the percentage of patients on TDF/3TC+NVP decreased from 8.7 percent to 6.9 percent and rose again to 8.2 percent from October to December 2013. See annex c for table showing the trend of the percentage of patient on the main four-first line regimens per health facility.

Littoral Region

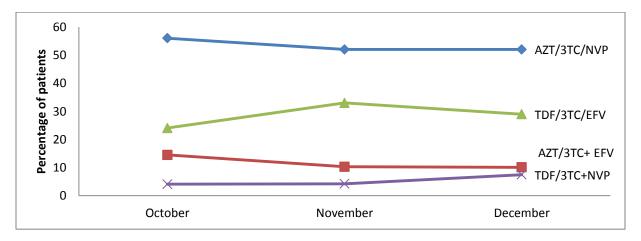
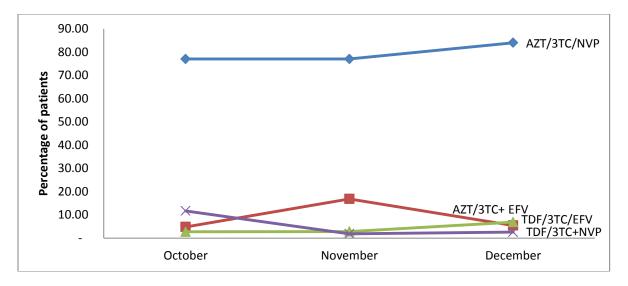


Figure 17. Trend of the percentage of patients on first-line regimen, October–December 2013

From figure 17, the percentage of patients on AZT/3TC/NVP in the Littoral region decreased from 56 percent in October to 52 percent in November and December 2013. On the other hand, the percentage of patients on TDF/3TC/EFV rose from 24 percent in October to 33 percent in November but then dropped to 29 percent in December. The percentage of patients on AZT/3TC+EFV evolved from 14.5 percent to 10.3 and to 10.1 from October to December 2013 meanwhile, the percentage of patients on TDF/3TC+NVP evolved from 4.1 percent to 4.3 percent and to 7.5 percent from October to December 2013.



Adamawa Region

Figure 18. Trend of percentage of patients on adult first-line regimens in Adamawa, October-December 2013

Figure 18 shows that in Adamawa region, the percentage of patient on AZT/3TC/NVP was stable at 77 percent in October and November, and then rose to 84 percent in December 2013. On the other hand, the percentage of patients on TDF/3TC/EFV evolved from 2.7 percent to 2.8 percent and to 6.9 percent from October to December. The percentage of patients on AZT/3TC+EFV increased from 4.8 percent to 16.8 and then dropped to 5.6 percent from October to December 2013. The percentage of patients on TDF/3TC+NVP dropped from 11.7 percent to 1.8 percent from October to November and then rose slightly to 2.6 percent in December 2013.

East Region

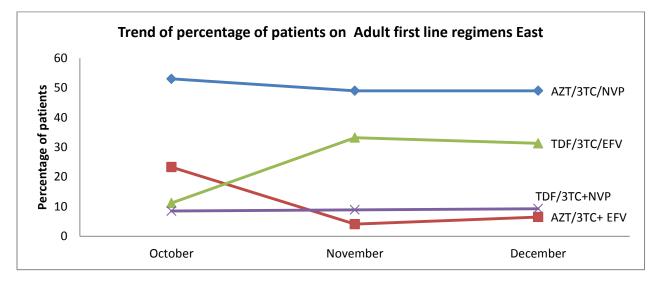
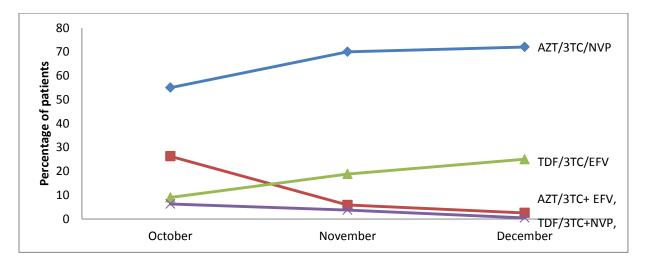


Figure 19. Trend of the percentage of patients on adult first-line regimens in East Region, October-December 2013

This figure shows that the percentage of patients on AZT/3TC/NVP dropped from 53 percent to 49 percent from October to December 2013. The percentage of patients on TDF/3TC/EFV rose from 11.1 percent to 33.2 percent in November but dropped to 31.3 percent from October to December. The percentage of patients on AZT/3TC+EFV decreased from 23.3 percent to 4.1 and then increased to 6.5 percent from October to December 2013 meanwhile, the percentage of patients on TDF/3TC+NVP moved from 8.5 percent to 8.9 percent and to 9.3 percent from October to December 2013,

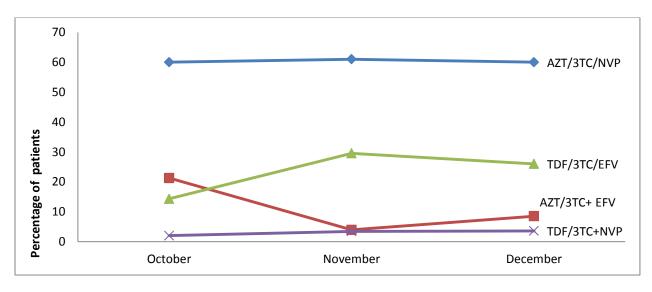


North-West Region

Figure 20. Trend of the percentage of patients on adult first-line regimens in North-West Region, October-December 2013

Figure 20 shows that the percentage of patient on AZT/3TC/NVP increased from 55 percent to 70 percent and to 72 percent from October to December 2013.

The percentage of patients on TDF/3TC/EFV rose from 9 percent to 18.8 percent and to 25 percent from October to December. In comparison, the percentage of patients on AZT/3TC+EFV dropped from 26.3 percent to 5.8 and to 2.5 percent from October to December 2013. The percentage of patients on TDF/3TC+NVP dropped from 6.3 percent to 3.8 percent and to 0.5 percent from October to December 2013.



South-West Region

Figure 21. Trend of the percentage of patients on adult first line regimens in South \-West Region, October-December 2013

Figure 21 shows that the percentage of patient on AZT/3TC/NVP in the SW region was stable at 60 percent from October to December 2013. On the other hand, the percentage of patients on TDF/3TC/EFV fluctuated between 14.3 percent, 29.5 percent and 26 percent from October to December. The percentage of patients on AZT/3TC+EFV also fluctuated between 21.3 percent, 3.9 percent and 8.5 from October to December 2013. During the same period, the percentage of patients on TDF/3TC+NVP moved from 2 percent to 3.4 percent and to 3.6 percent.

A directive issued to all health facilities by the central level stipulates that new patients eligible to ART should be initiated on TDF/3TC/EFV rather than AZT/3TC/NVP. The distribution hypothesis adopted at the central level for managing first-line patients is showed in table 2. This normally means that the percentage of TDF/3TC/EFV consumption should increase progressively over the time with a concomitant decrease in use of AZT/3TC/NVP.

However, this trend that was stipulated by the central level in TDF/3TC/EFV is observed only in the North-West region. High consumption of AZT/3TC/NVP may be the results of non-compliance of prescribers to the above mentioned directives. These practices contribute to stock-outs on certain products.

| Table 2. Percentage of Adult Patients on First-Li | ine ARVs |
|---|----------|
|---|----------|

| Regimens | Percentage, % |
|--|---------------|
| AZT+3TC+NVP | 39 |
| AZT+3TC+EFV | 11 |
| TDF+3TC+NVP | 17 |
| TDF+3TC+EFV | 33 |
| Percentage of adult patients on first line | 96.5 |

Contributing factors of stock-outs and changing regimens may explain the trend observed in the six figures above. This is indicative of the need for reliable data and evidence-based quantification.

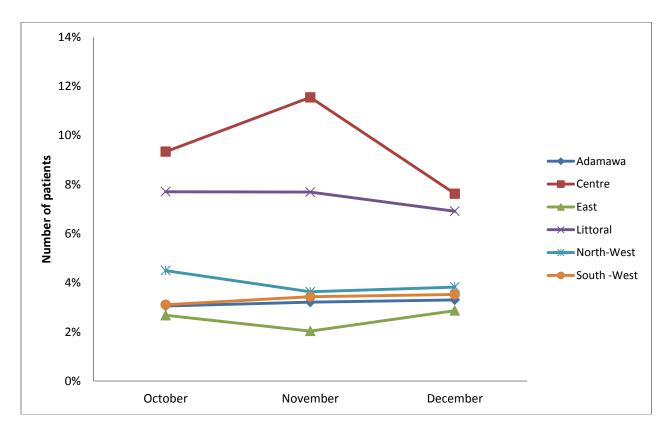


Figure 22. Trend of the number of patient on second line per region, October-December 2013

The percentage of patients on second line increase from October (9 percent) to November (12 percent) and dropped to 8 percent in December 2013 in the Center region. In the Littoral it remains stables from October to December (8 percent) and dropped to 7 percent in December 2013. It was stable in the North-West (4 percent) and in Adamawa (3 percent) regions.

SIAPS Actions during this Supervision

- Health facilities that were not using stock cards were provided with them along with practical training sessions on how to fill correctly fill them in; 5,217 stock cards were distributed.
- Health facilities began using stocks cards and updated them for each product where needed
- Inventory registers were provided to clerks and storekeepers who were also given practice sessions on how to handle registers—this was a mentorship effort.
- Treatment center coordinators and heads of facilities received feedback and recommendations for improving storage of HIV commodities.
- The team helped the pharmacy attendents count and pull expired products off the shelves.
- It was strongly recommended that Laquintinie Hospital Douala provide data reporting staff better access to information so the staff can produce better monthly reports and avoid data information gaps.
- Pre-ARV registers and ART registers were distributed to health facilities
- Advocacy accomplished at the regional level and SIAPS recommended the Permanent Secretary of National AIDS Control Committee (NACC) pay the arrears (salaries) of data reporting clerks in the South-West region
- Feedback and recommendations on how improve inventory management were provided to the treatment center coordinators and directors.

RECOMMENDATIONS

- This exercise provided a deeper understanding of what is happening at health facilities and provided a perspective on the number of patients by regimen, by region, and by product. Supportive supervision should be strengthened to improve data management at health facilities. Regular supportive supervision will improve data management at health facilities and build the capacity of regional staff to provide ongoing support and guidance to their colleagues in the health facilities. On a monthly basis, the supportive supervision team will monitor stock availability and number of patients on ARVs for targeted health facilities.
- SIAPS should support NACC to provide dispensing registers in all targeted health facilities and educate the staff on how to properly enter routine data in the registers.
- NACC to confirm that the number of patients in Shisong Catholic Hospital has actually increased by more than 200 percent. NACC/SIAPS should identify any other causes of variation in the number of patients at health facilities and correct the differences in the number of patients on ART. NACC should conduct regular reviews of patient data on a quarterly and annual basis. Patient numbers should be reviewed in terms of new patients, active patients, and lost-to-follow up. NACC should re-emphasize the need to disseminate all recommended reporting forms and ensure that all health facilities complete and submit all recommended reports on time.
- NACC should provide a guideline for regimens substitution in case of stock-outs and disseminate it to health facilities.
- NACC, with support from SIAPS, should provide feedback to heads of the Laquintinie Hospital Douala supervised facilities concerning performance and quality improvement. Health facility staff should allow data clerks better access hospital laboratory and treatment registers so that he/she can compile the monthly report as required. It is recommended that the M&E/RTG of the Littoral region actively assist the data reporting clerk of Laquintinie hospital and General Hospital to draft reports.
- There are significant fluctuations in the number of patients on regimens because patients are treated with the first-line regimen that is available at the time of their visit in the hospital and not necessarily the one originally prescribed for them. What is happening is that a specific donor ships in TDF-based regimens (as an example) to the country and this first line regimen will be available in the facilities for a specific period. Because AZT-based regimens are not in stock and must come from another mechanism or donor, all patients on AZT-based regimes are transferred to TDF-based regimes. In the course of waiting for AZT-based regimes, TDF-based regimens run out and AZT-based regimens arrive so all patients are transferred to AZT-based regimens. This makes it difficult to determine actual numbers of patients by regimen and it will require selecting the best first-line regimens and ensuring that donors provide a TDF and AZT based regimens at the same time. There is a need to coordinate procurement and supply planning of ARVs.

• During the feedback to CNLS meeting with the Permanent Secretary NACC)–Dr. Jean Bosco Elat, the ARV stock outs are chronic in Cameroon. He discussed the matter of ARV stock-outs as urgent and said that, "I am spending 80 percent of my time discussing and thinking about ARV stock-outs. I don't even have time to think and plan for interventions on other aspects of the HIV program."

SIAPS's mandate includes strengthening the logistics management system for ARVs, coordination and enhancing the capacity of information systems in the delivery of ART in Cameroon. For Cameroon to achieve the goals of "An AIDS free generation, A Promise Renewed, and the Millennium Development Goals, the National AIDS Control Program will require ongoing technical assistance to strengthen information systems and enhanced coordination in the procurement of ARVs.

FOLLOW-UP ACTIONS NEEDED

The following actions are recommended to meet Cameroon's ARV program needs.

| Action | Person (s) Responsible | Estimated Completion Date | Location of Work |
|--|-------------------------------------|-----------------------------------|------------------------------|
| Compilation of the formative supportive supervision report —Technical report | David Mabrizi, Catherine Tadzong | March 15 | Yaoundé/ Arlington, VA |
| Follow-up of approval to start the piloting of electronic tools in the Central Region | David Mabrizi, Catherine Tadzong | March 15 | Yaoundé |
| Review of supportive supervision data collection tools | David Mabrizi, Catherine Tadzong | March 30 | Arlington, VA |
| Follow-up activities to implement the regular supportive supervision and disseminate findings in forums at national and regional levels | David Mabrizi, Catherine Tadzong | Continue through December 2014 | Yaoundé and Arlington, VA |

Table 3. Follow-up Recommendations

ANNEXES

| Region | Name of the structure | Dates of the supervision | Supervisors |
|----------|---|-----------------------------|--|
| Centre | GTR Centre | 16 /12/2012 | Catherine Tadzong Jean Dongang, Yves Kaptue |
| | Hôpital Central de Yaoundé | 16/12/2013 | Catherine Tadzong Jean Dongang, Yves Kaptue, Anoubissi Jean de Dieu |
| | | 17/12/2013 | Catherine Tadzong Yves Kaptue |
| | Hôpital de la Caisse | 17/12 /2013 18/12/2013 | Anoubissi Jean de Dieu, Jean Dongang Yves Kaptue, Jean Dongang |
| | Hôpital Général Yaoundé | 18/12/2013 19/12/2013 | Catherine Tadzong, Anoubissi Jean de Dieu Catherine Tadzong |
| | Hôpital Militaire | | Jean Dongang Jean Dongang |
| - | CAPR | 23/12/2013 | Catherine Tadzong Jean Dongang, Yves Kaptue, Anoubissi Jean de Dieu |
| | Hôpital de District de la Cité Verte | 6/1/2014 | Jean Dongang, Anoubissi Jean de Dieu |
| | Hopital Jamot de Yaounde | 6/1/2014 | Catherine Tadzong, Anoubissi Jean de Dieu |
| | Hopital Militaire de Yaounde | 8/1/2014 | Catherine Tadzong, Jean Dongang |
| | Hôpital St Luc de Mbalmayo | 7/1/2014 | Yves Kaptue, |
| | Hôpital de District de BAFIA | 7/1/2014 | Catherine Tadzong |
| | 11 | | 5 |
| Littoral | GTR Littoral | 13/1/2014 | Catherine Tadzong, Yves Kaptue |
| | CAPR Littoral | 13/1/2014 | Catherine Tadzong, Yves Kaptue, MinkemDefo B. Dupont |
| | Hôpital Laquintinie | 14 -15 /1/2014 | Catherine Tadzong Yves Kaptue, MinkemDefo B. Dupont |
| | CMES d'Alucam | 16/1/2014 | Catherine Tadzong |
| | Hôpital de District de Nylon | 16/1/2014 | Yves Kaptue |
| | CBC Mboppi | 17/1/2014 | Yves Kaptue |

Annex A. Health Facilities Supervised in January and February 2014

| | Hôpital Général de Douala | 17/1/2014 | Catherine Tadzong, MinkemDefo B. Dupont |
|----------------|--------------------------------------|--------------|---|
| | Hôpital de District de Bonassama | 20/1/2014 | Yves Kaptue |
| | Hôpital CEBEC Bonabéri | 20/1/2014 | Catherine Tadzong, MinkemDefo B. Dupont |
| | 9 | 13-20/1/2014 | 4 |
| South- West | GTR Sud-Ouest | 21/01/2014 | Catherine Tadzong, Yves Kaptue |
| | CAPR Sud-Ouest | 22/01/2014 | Yves Kaptue |
| | Hôpital Régional de Limbé | 22/1/2014 | Catherine Tadzong, Nankia Djoumetio Sandrine, Salmon Amadou |
| | Hôpital de District de Kumba | 23/1/2014 | Yves Kaptue, Salmon Amadou |
| | Baptist Hospital Muntengene | 23/1/2014 | Catherine Tadzong, Nankia Djoumetio Sandrine |
| | Hôpital de District de Buéa | 24/1/2014 | Yves Kaptue, Salmon Amadou |
| | Hôpital CDC de TIKO | 24/1/2014 | Catherine Tadzong, Salmon Amadou, Nankia Djoumetio Sandrine |
| | 7 | 21-25/1/2014 | 4 |
| | GTR Est | 13/1/2014 | Jean Dongang |
| | CAPR Est | 13/1/2014 | Jean Dongang, Tchatchoua Gilbert, Tsimi Ewodo |
| | Hôpital régional de Bertoua | 14/1/2014 | Jean Dongang, Tchatchoua Gilbert |
| | Hôpital de District d'Abong-Mbang | 15/1/2014 | Jean Dongang, Tsimi Ewodo |
| | Hôpital de district de Batouri | 16-17/1/2014 | Jean Dongang, Dr. Tchatchoua Gilbert, Tsimi Ewodo |
| | 5 | 13-17/1/2014 | 3 |
| Adamawa | GTR Adamaoua | 20/1/2014 | Jean Dongang |
| | CAPR Adamaoua | 20/1/2014 | Jean Dongang, Dr. Anana Ewane, Dongmo Gustave |
| | Hôpital Régional de Ngaoundéré | 21/1/2014 | Jean Dongang, Dr. Anana Ewane |
| | Hôpital protestant de Ngaoubela | 22-/1/2014 | Jean Dongang, Dongmo Gustave |
| | Hôpital de District de Tignere | 23-24/1/2014 | Jean Dongang, Dr. Anana Ewane, Dongmo Gustave |
| | 5 | 20-24/1/2013 | 3 |
| North- West | GTR | 27/1/2014 | Jean Dongang, Yves Kaptue |
| | CAPR | 28/1/2014 | Yves Kaptue |
| | Banso Baptist Hospital | 30/1/2014 | Yves Kaptue, Dr. Arrey Charles |

| TOTAL | 34 FOSA | 16/12/2013- 4/2/2014 | 3 MSH, 2 GTR/CNLS |
|-------|--------------------------------|-------------------------|------------------------------------|
| | 9 | 28/1-4/2/2014 | 4 |
| | Shisong Catholic Hospital | 31/1/2014 | Jean Dongang, Essomba Nkoulou |
| | Polyclinique de Mezam | 29/2/2014 | Jean Dongang, Dr. Arrey Charles |
| | Nkwen Baptist Hospital | 31/1/2014 | Yves Kaptue, Essomba Nkoulou |
| | Mbingo Baptist Hospital | 29/1/2014 | Jean Dongang, Essomba Nkoulou |
| | Hôpital régional de Bamenda | 28 /1/2013 | Yves Kaptue, Dr. Arrey Charles |
| | Hôpital de Batibo | 30/1/2014 | Jean Dongang Essomba Nkoulou |

| | AZT/3TC/NVP (300/150/200 mg) | | AZT/3TC (300/150 mg) CP B/60 | | EFV 600 mg | | | TDF/3TC/EFV (300/300/600 mg) | | | TDF/3TC (300/300 mg) | | | NVP (200 mg) | | | | |
|------------|---------------------------------|-------|---------------------------------|--------|------------|------|-------|---------------------------------|------|------|-------------------------|-------|------|--------------|------|------|------|------|
| Regions | Oct | Nov | Dec | Oct | Nov | Dec | Oct | Nov | Dec | Oct | Nov | Dec | Oct | Nov | Dec | Oct | Nov | Dec |
| Adamawa | 1578 | 1804 | 1160 | 841 | 463 | 392 | 242 | 570 | 140 | 249 | 116 | 227 | 701 | 252 | 258 | 391 | 98 | 208 |
| Centre | 8218 | 8526 | 1871 | 1520 | 5152 | 1336 | 2440 | 1202 | 726 | 4532 | 5482 | 1524 | 2594 | 1162 | 375 | 658 | 598 | 856 |
| East | 1989 | 1928 | 1712 | 1126 | 49 | 103 | 489 | 224 | 320 | 349 | 1216 | 1058 | 364 | 249 | 319 | 597 | 74 | 319 |
| Littoral | 6132 | 5858 | 5866 | 2270 | 768 | 1401 | 3053 | 676 | 992 | 2867 | 3418 | 3774 | 1684 | 334 | 845 | 850 | 291 | 719 |
| North-West | 5697 | 8372 | 4794 | 4476.5 | 266.5 | 3744 | 2816 | 184 | 1067 | 491 | 3200 | 2443 | 353 | 455 | 1329 | 1502 | 207 | 2497 |
| South-West | 3086 | 3480 | 2361 | 2038 | 1733 | 1616 | 1233 | 342 | 591 | 1061 | 1839 | 1232 | 53 | 781 | 611 | 580 | 1259 | 1627 |
| Total | 26700 | 29968 | 17764 | 12272 | 8432 | 8592 | 10273 | 3198 | 3836 | 9549 | 15271 | 10258 | 5749 | 3233 | 3737 | 4578 | 2527 | 6226 |

Annex B. Trend of the consumption of ARV per region (Oct-Dec 2013)

| Regions | AZT/3TC/NVP (300/150/200 mg) | AZT/3TC (300/150 mg) CP B/60 | EFV 600 mg | TDF/3TC/EFV (300/300/600 mg) | TDF/3TC (300/300 mg) | NVP (200 mg) |
|------------|------------------------------------|------------------------------------|---------------|------------------------------------|----------------------------|-----------------|
| Adamawa | 265 | 38.5 | 849 | 112 | 89 | 109 |
| Centre | 5876 | 5148 | 3052 | 8609 | 5084 | 9103 |
| East | 1622 | 137 | 119 | 729 | 271 | 932 |
| Littoral | 1577 | 2594 | 1310 | 773 | 1254 | 5902 |
| North-West | 49 | 159 | 5396 | 3872 | 2362 | 5260 |
| South-West | 0 | 11 | 561 | 3070 | 773 | 728 |
| Total | 9389 | 8088 | 11287 | 17165 | 9833 | 22034 |

Annex C. Quantity of ARV available at the day of the visit

Annex D. report on the distribution of Stock Card, Reception PV, Stock out file and inventory during Quarter 1 support supervision

| Region | Name of the Health Facility | HF Type | Number of stock Card received | Number of reception PV | Number of stock out file received | Number of inventory file received |
|---------|--------------------------------------|------------|-------------------------------------|---------------------------------|--|---|
| | Hôpital Régional de Ngaoundéré | CTA | 100 | 10 | 10 | 10 |
| Adamawa | Hôpital protestant de Ngaoubela | UPEC | 100 | 10 | 10 | 10 |
| amé | Hôpital de District de Tignere | UPEC | 100 | 10 | 10 | 10 |
| ۶þ٤ | CAPR AD | | 100 | 10 | 0 | 10 |
| | Total | 4 | 400 | 40 | 30 | 40 |
| | Hôpital Central de Yaoundé | CTA | 200 | 10 | 10 | 10 |
| | Hopital Jamot de Yaounde | СТА | 500 | 10 | 10 | 10 |
| | Hôpital de la caisse | СТА | 100 | 10 | 10 | 10 |
| - | Hôpital Général Yaoundé | СТА | 100 | 10 | 10 | 10 |
| ntre | Hôpital de District de la Cité Verte | UPEC | 200 | 10 | 10 | 10 |
| Centre | Hôpital de District de BAFIA | UPEC | 0 | 10 | 10 | 10 |
| - | Fondation Chantal biya | СТА | 100 | 10 | 10 | 10 |
| | Hôpital St Luc de Mbalmayo | UPEC | 100 | 10 | 10 | 10 |
| | CAPR Centre | | 100 | 10 | 10 | 10 |
| | Total | 10 | 1400 | 90 | 90 | 90 |
| | Hôpital régional de Bertoua | СТА | 110 | 10 | 10 | 10 |
| | Hôpital de District d'Abong-Mbang | UPEC | 110 | 10 | 10 | 10 |
| East | Hôpital Adventiste de Batouri | UPEC | 100 | 10 | 10 | 10 |
| ш | CAPR EST | | 100 | 10 | 10 | 10 |
| | Total | 4 | 420 | 40 | 40 | 40 |

| Pharmaceutical Management information system Support supervision quarterly Feedback report, |
|---|
| October to December 2013, Cameroon |

| | Hôpital Laquintinie | СТА | 200 | 0 | 20 | 0 |
|-------------|----------------------------------|------|------|-----|-----|-----|
| | Hôpital de District de Nylon | UPEC | 200 | 0 | 0 | 0 |
| | CBC Mboppi | UPEC | 0 | 0 | 0 | 0 |
| al | Hôpital Général de Douala | CTA | 200 | 0 | 10 | 0 |
| Littoral | Hôpital de District de Bonassama | UPEC | 200 | 0 | 0 | 0 |
| Ē | Hôpital CEBEC Bonabéri | UPEC | 200 | 0 | 0 | 0 |
| | CMES d'Alucam | CTA | 200 | 0 | 10 | 0 |
| | CAPR Littoral | | 0 | 0 | 0 | 0 |
| | Total | 8 | 1200 | 0 | 40 | 0 |
| | Banso Baptist hospital | UPEC | 0 | 10 | 10 | 10 |
| | Hôpital de Batibo | UPEC | 100 | 10 | 10 | 10 |
| ŭ | Hôpital régional de Bamenda | CTA | 100 | 10 | 10 | 10 |
| North -West | Mbingo Baptist Hospital | UPEC | 0 | 10 | 10 | 10 |
| ר ב | Nkwen Baptist Hospital | UPEC | 200 | 10 | 10 | 10 |
| ort | Polyclinique de Mezam | CTA | 100 | 10 | 10 | 10 |
| Z | Shisong Catholic Hospital | UPEC | 100 | 10 | 10 | 10 |
| | CAPR Nord-Ouest | | 0 | 10 | 10 | 10 |
| | Total | 8 | 600 | 80 | 80 | 80 |
| | Hôpital régional de Limbé | СТА | 0 | 10 | 10 | 10 |
| X | Hôpital de District de Kumba | UPEC | 200 | 0 | 0 | 0 |
| Nes | Baptist HOSPital Muntengene | UPEC | 0 | 0 | 15 | 0 |
| ÷ | Hôpital de District de Buéa | UPEC | 297 | 0 | 0 | 0 |
| South- West | Hopital CDC de TIKO | UPEC | 700 | 10 | 10 | 10 |
| Ň | CAPR Sud-Ouest | | 0 | 0 | 0 | 0 |
| | Total | 6 | 1197 | 20 | 35 | 20 |
| тот | AL | 40 | 5217 | 270 | 315 | 270 |

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|--|---------------|-------------|-------------|-------------|-------------|-----------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| CTA hôpital Régional de Ngaoundéré | СТА | 1,310 | 1,226 | 1,254 | 1,418 | 1,448 | 1,414 | 1,310 | 1,434 | 1,411 | 1,310 | 1,494 | 1,513 |
| Hôpital de District de Banyo | UPEC | 263 | 270 | 261 | 296 | 306 | 255 | 263 | 271 | 232 | 263 | 283 | 277 |
| Hôpital Luthérien de Ngaoundéré | UPEC | 572 | 730 | 775 | 854 | 850 | 898 | 564 | 957 | 949 | 564 | 1,050 | 1,088 |
| Hôpital protestant de Ngaoubela | UPEC | 382 | 537 | 478 | 375 | 388 | 284 | 382 | 447 | 401 | 382 | 539 | 448 |
| Hôpital de District de Meiganga | UPEC | 280 | 298 | 268 | 321 | 358 | 300 | 327 | 327 | 327 | 327 | 148 | 279 |
| Hôpital de District de Tignere | UPEC | 121 | 136 | 140 | 149 | 148 | 147 | 121 | 165 | 154 | 121 | 152 | 144 |
| CMS Université de Ngaoundéré | UPEC | 11 | 14 | 14 | 15 | 15 | 11 | 10 | 24 | 28 | 10 | 28 | 31 |
| Hôpital de District de Bankim | UPEC | 35 | 45 | 47 | 54 | 54 | 54 | 41 | 72 | 50 | 41 | 56 | 19 |
| Total Adamawa | - <u>-</u> | 2,974 | 3,256 | 3,237 | 3,482 | 3,567 | 3,363 | 3,018 | 3,697 | 3,552 | 3,018 | 3,750 | 3,799 |
| Hôpital central de Yaoundé | СТА | 7,427 | 6,634 | 6,228 | 7,016 | 5,959 | 5,873 | 6,281 | 7266 | 7,435 | 7,442 | 6,478 | 7,482 |
| Hôpital de la caisse | CTA | 4,223 | 3,896 | 3,896 | 4,001 | 4,001 | 4,027 | 4,068 | 4191 | 4,191 | 3,805 | 3,848 | 4,092 |
| Hôpital Jamot | CTA | 2,272 | 2,218 | 2,144 | 2,243 | 2,243 | 2,005 | 1,940 | 2163 | 2,281 | 2,532 | 2,172 | 2,557 |
| Hôpital général Ydé | СТА | 2,086 | 1,738 | 1,877 | 2,010 | 1,632 | 1,844 | 2,014 | 2042 | 1,966 | 1,927 | 1,803 | 1,987 |
| Hôpital gynéco- obstétrique et pédiatrique de Ngousso | СТА | 1,088 | 1,107 | 1,107 | 1,139 | 1,114 | 1,133 | 1,161 | 1178 | 1,178 | 1,196 | 1,196 | 1,196 |
| Centre Hôspitalier Universitaire de Yaoundé | СТА | 3,010 | 2,655 | 1,800 | 2,700 | 2,550 | 2,267 | 2,519 | 2685 | 2,013 | 2,030 | 2,076 | 2,040 |
| Hôpital militaire | СТА | 2,739 | 2,825 | 2,848 | 2,867 | 2,223 | 1,511 | 1,661 | 1574 | 1,543 | 1,735 | 1,735 | 1,735 |
| Fondation Chantal Biya (FCB) | СТА | 965 | 868 | 859 | 875 | 888 | 911 | 911 | 931 | 934 | 936 | 936 | 936 |

Pharmaceutical Management information system Support supervision quarterly Feedback report, October to December 2013, Cameroon

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|---|---------------|-------------|-------------|-------------|-------------|-----------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Infirmerie du Palais | CTAFF | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 21 | 21 |
| Clinique Bastos | UPEC | 184 | 187 | 190 | 193 | 196 | 202 | 203 | 205 | 211 | 213 | 214 | 214 |
| CASS Nkolndongo | UPEC | 437 | 443 | 440 | 452 | 454 | 461 | 466 | 453 | 454 | 467 | 470 | 479 |
| Hôpital de Djoungolo | UPEC | 635 | 635 | 635 | 705 | 705 | 705 | 718 | 719 | 724 | 725 | 727 | 727 |
| Hôpital d'Obala | UPEC | 700 | 710 | 735 | 736 | 736 | 771 | 778 | 785 | 785 | 785 | 785 | 785 |
| Hôpital de MFOU | UPEC | 543 | 487 | 384 | 504 | 488 | 498 | 579 | 481 | 475 | 521 | 584 | 593 |
| Upec SA'A | UPEC | 247 | 238 | 208 | 253 | 243 | 241 | 254 | 295 | 289 | 313 | 310 | 310 |
| Hôpital de District de Mbalmayo | UPEC | 675 | 350 | 350 | 618 | 618 | 533 | 546 | 578 | 546 | 378 | 542 | 561 |
| Upec Ngog Mapubi | UPEC | 40 | 44 | 41 | 38 | 45 | 36 | 51 | 49 | 47 | 53 | 51 | 51 |
| Hôpital de District d' ESEKA | UPEC | 140 | 109 | 105 | 132 | 154 | 109 | 117 | 129 | 144 | 151 | 144 | 144 |
| Hôpital BAFIA | UPEC | 797 | 940 | 870 | 1,015 | 964 | 1,019 | 1,012 | 1061 | 1,045 | 960 | 1,014 | 1,007 |
| Hôpital de District de MONATELE | UPEC | 142 | 153 | 154 | 187 | 199 | 204 | 201 | 176 | 177 | 153 | 153 | 153 |
| Upec NDIKINIMEKI | UPEC | 110 | 115 | 137 | 181 | 110 | 159 | 159 | 169 | 121 | 207 | 198 | 231 |
| Hôpital AYOS | UPEC | 266 | 239 | 234 | 254 | 223 | 189 | 213 | 207 | 169 | 169 | 305 | 303 |
| Hôpital de District NANGA EBOKO | UPEC | 287 | 279 | 279 | 279 | 245 | 190 | 203 | 298 | 360 | 332 | 230 | 241 |
| Hôpital de District de la Cité Verte | UPEC | 1,685 | 1,657 | 1,595 | 1,594 | 1,115 | 1,251 | 1,127 | 1069 | 1,061 | 1,103 | 1,113 | 1,098 |
| Hôpital de District Biyemassi | UPEC | 767 | 610 | 740 | 786 | 795 | 715 | 831 | 737 | 775 | 845 | 845 | 1,098 |
| Hôpital de District d'EBEBDA | UPEC | 70 | 58 | 54 | 64 | 70 | 72 | 78 | 74 | 74 | 75 | 75 | 80 |
| Hôpital de District AKONOLINGA | UPEC | 370 | 385 | 333 | 315 | 326 | 330 | 323 | 340 | 372 | 322 | 322 | 319 |
| Hôpital de la Police de Yaoundé | UPEC | 226 | 236 | 247 | 252 | 248 | 252 | 262 | 264 | 272 | 275 | 275 | 275 |
| Infirmerie Prison Centrale de Yaoundé | UPEC | 286 | 307 | 316 | 325 | 326 | 361 | 374 | 376 | 350 | 397 | 397 | 381 |
| Upec Centre Catholique BIKOP | UPEC | 328 | 294 | 273 | 330 | 332 | 349 | 352 | 339 | 339 | 347 | 357 | 344 |

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|---|---------------|-------------|-------------|-------------|-------------|------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Hôpital de District de NGOUMOU | UPEC | 64 | 67 | 62 | 67 | 74 | 72 | 67 | 67 | 81 | 81 | 86 | 77 |
| UPEC Hôpital Ad Lucem d'Efok | UPEC | 37 | 59 | 60 | 50 | 54 | 54 | 57 | 48 | 54 | 57 | 49 | 64 |
| Hôpital St Luc de Mbalmayo | UPEC | 448 | 462 | 470 | 486 | 477 | 372 | 423 | 414 | 414 | 476 | 446 | 522 |
| UPEC Centre Hospitalier Dominicain Saint Martin De Pores de Yaoundé | UPEC | 576 | 608 | 608 | 661 | 646 | 657 | 658 | 653 | 717 | 699 | 734 | 762 |
| UPEC HD Efoulan | UPEC | 456 | 487 | 422 | 422 | 479 | 299 | 431 | 493 | 493 | 503 | 599 | 576 |
| UPEC Centre Médico Social de Mbandjock | UPEC | 101 | 70 | 107 | 97 | 88 | 42 | 101 | 101 | 96 | 103 | 109 | 108 |
| UPEC HD Elig Mfomo | UPEC | | | | | | | | | | | | |
| UPEC CMA de Makak | UPEC | | | | | | | | | | | | |
| UPEC HD Soa | UPEC | | · · · | | | | · · · | 11 | 14 | 20 | 25 | 23 | 28 |
| Infirmerie de la Gendarmerie Nationale | UPEC | | | | | | | | | | | | |
| ntui | | 19 | 25 | 24 | 29 | 30 | 23 | 36 | 36 | 39 | 45 | 39 | 49 |
| anrs | | | 376 | 515 | 400 | 379 | 386 | 392 | 337 | 337 | 337 | 337 | 373 |
| Total Centre | | 34,463 | 32,588 | 31,365 | 34,294 | 31,44 7 | 30,141 | 31,596 | 33,015 | 32,600 | 32,738 | 31,798 | 33,999 |
| Hôpital régional de Bertoua | СТА | 2,380 | 2,259 | 2,337 | 2,436 | 2,310 | 2,034 | 2,311 | 2030 | 1,833 | 2,280 | 2,164 | 2,312 |
| Hôpital de District d'Abong-Mbang | UPEC | 788 | 893 | 918 | 918 | 844 | 720 | 898 | 972 | 962 | 1,002 | 1,002 | 1,036 |
| Hôpital Luthérien de Garoua-Boulaï | UPEC | 626 | 629 | 635 | 635 | 627 | 642 | 674 | 698 | 726 | 754 | 789 | 820 |
| Hôpital Adventiste de Batouri | UPEC | 562 | 517 | 525 | 562 | 568 | 557 | 530 | 603 | 574 | 623 | 634 | 592 |

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|-----------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Hôpital Catholique de Salapoumé | UPEC | - | 16 | 13 | 13 | 32 | 32 | 31 | 54 | 50 | 50 | 66 | 66 |
| Hôpital de District de Belabo | UPEC | 250 | 256 | 271 | 279 | 277 | 285 | 191 | 264 | 275 | 275 | 278 | 280 |
| Hôpital de District de Messamena | UPEC | 87 | 90 | 92 | 90 | 92 | 94 | 90 | 89 | 81 | 71 | 70 | 77 |
| Hôpital de District de Moloundou | UPEC | 10 | 12 | 12 | 12 | 15 | 16 | 16 | 22 | 23 | 18 | 17 | 17 |
| Hôpital de District Yokadouma | UPEC | 154 | 181 | 154 | 154 | 164 | 146 | 141 | 141 | 176 | 181 | 181 | 9 |
| UPEC Mbang (SFID) | , | | · · · · | , | | 31 | 43 | 52 | 52 | 62 | 59 | 54 | 60 |
| Total East | | 4,857 | 4,853 | 4,957 | 5,099 | 4,960 | 4,569 | 4,934 | 4,925 | 4,762 | 5,313 | 5,255 | 5,269 |
| Hôpital de BOGO | UPEC | 62 | 68 | 58 | 63 | 76 | 67 | 80 | 81 | 100 | 75 | 77 | 81 |
| Hôpital de District de Kaélé | UPEC | 311 | 317 | 323 | 330 | 332 | 338 | 346 | 351 | 304 | 360 | 370 | 375 |
| Hôpital de District de Kolofata | UPEC | 306 | 264 | 300 | 305 | 305 | 305 | 388 | 326 | 844 | 379 | 404 | 440 |
| Hôpital de District de Kousséri | UPEC | 328 | 248 | 248 | 262 | 299 | 146 | 391 | 285 | 57 | 323 | 328 | 376 |
| Hôpital Protestant de MADA | UPEC | 361 | 361 | 185 | 215 | 246 | 178 | 163 | 150 | 150 | 139 | 139 | 160 |
| UPEC DE MESKINE | | 27 | 27 | 24 | 30 | 30 | 33 | 39 | 45 | 42 | 42 | 60 | 62 |
| Hôpital régional de Maroua | CTA | 1,626 | 1,147 | 1,147 | 1,342 | 1,342 | 811 | 1,618 | 1280 | 565 | 1,544 | 1,557 | 1,501 |
| Hôpital de District de Mokolo | UPEC | 363 | 335 | 335 | 418 | 447 | 447 | 460 | 465 | 493 | 475 | 485 | 492 |
| CTAf DE PETTE | CTA | 852 | 859 | 856 | 875 | 875 | 582 | 904 | 898 | 100 | 908 | 920 | 931 |
| Hôpital Catholique de Tokombéré | UPEC | 357 | 400 | 309 | 414 | 411 | 389 | 428 | 433 | 304 | 345 | 392 | 437 |
| Hôpital de District de Yagoua | UPEC | 783 | 814 | 735 | 776 | 799 | 805 | 831 | 851 | 844 | 599 | 915 | 973 |
| UPEC de Zidim | UPEC | 182 | 190 | 197 | 195 | 203 | 209 | 213 | 215 | 218 | 225 | 227 | 232 |
| Total Far-North | Extrême nord | 4,163 | 3,745 | 3,579 | 5,225 | 5,365 | 4,310 | 5,861 | 5,380 | 4,021 | 5,414 | 5,874 | 6,060 |
| Hôpital Laquintinie | СТА | 4,021 | 4,021 | 3,982 | 3,982 | 3,982 | 3,982 | 3,435 | 5,044 | 5.044 | 4,170 | 4,170 | 2,972 |

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|-------------------------------------|---------------|-------------|-------------|-------------|-------------|-----------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| CMES d'Alucam | CTA | 263 | 272 | 281 | 264 | 264 | 286 | 262 | 301 | 301 | 263 | 278 | 278 |
| Hôpital Général de Douala | СТА | 2,289 | 2,289 | 1,726 | 1,755 | 2,193 | 1,935 | 2,226 | 2,244 | 2,061 | 2,047 | 2,047 | 2,357 |
| Polyclinique Bonanjo | UPEC | 224 | 233 | 249 | 254 | 254 | 232 | 257 | 253 | 258 | 260 | 260 | 258 |
| Hôpital EPC de Sakbayémé | UPEC | 44 | 46 | 43 | 41 | 45 | 46 | 51 | 49 | 48 | 51 | 47 | 48 |
| Hôpital St Jean Malte de Njombé | CTAFF | 888 | 847 | 919 | 922 | 949 | 892 | 964 | 972 | 996 | 985 | 924 | 1,030 |
| Hôpital de District de Bonassama | UPEC | 1,929 | 1,830 | 1,862 | 1,835 | 2,002 | 1,805 | 2,013 | 2,011 | 1,933 | 1,955 | 1,955 | 2,053 |
| Hôpital de District de Nylon | UPEC | 3,178 | 3,178 | 3,320 | 3,320 | 3,320 | 3,416 | 3,499 | 3,739 | 3,497 | 3,512 | 3,499 | 3,480 |
| Hôpital Militaire de Douala | UPEC | 336 | 312 | 242 | 308 | 460 | 353 | 424 | 479 | 408 | 320 | 320 | 337 |
| Hôpital régional de Nkongsamba | UPEC | 1,187 | 1,077 | 1,066 | 1,169 | 1,200 | 844 | 1,172 | 1,160 | 1,128 | 819 | 1,036 | 1,194 |
| CMA SOBOUM | UPEC | 934 | 940 | 961 | 962 | 973 | 979 | 978 | 990 | 991 | 1,019 | 1,020 | 1,044 |
| Hôpital de district de Deido | UPEC | 954 | 1,060 | 1,119 | 1,175 | 1,234 | 1,330 | 1,311 | 1,317 | 1,298 | 1,351 | 1,351 | 1,414 |
| Hôpital catholique de Pouma | UPEC | 188 | 188 | 188 | 230 | 230 | 242 | 232 | 231 | 231 | 263 | 257 | 223 |
| Hôpital de district de New Bell | UPEC | 1,250 | 1,223 | 1,224 | 1,206 | 1,217 | 1,228 | 1,289 | 1,285 | 1,310 | 1,291 | 1,291 | 1,343 |
| CBC Mboppi | UPEC | 2,172 | 2,156 | 2,408 | 2,377 | 2,375 | 2,344 | 2,458 | 2,517 | 2,487 | 2,482 | 2,485 | 2,454 |
| Centre Médical des Roseaux | UPEC | 1,040 | 980 | 1,015 | 1,014 | 1,038 | 1,025 | 1,055 | 1,048 | 1,050 | 1,050 | 1,050 | 1,036 |
| Ad Lucem Bonamoussadi | UPEC | 139 | 128 | 131 | 131 | 151 | 142 | 139 | 164 | 147 | 123 | 154 | 149 |
| Hôpital de District de Yabassi | UPEC | 29 | 29 | 30 | 30 | 33 | 35 | 35 | 35 | 38 | 35 | 35 | 35 |
| Hôpital de District d'Edéa | UPEC | 560 | 544 | 498 | 572 | 596 | 588 | 625 | 606 | 606 | 603 | 603 | 620 |
| Hôpital Saint Albert Legrand | UPEC | 1,723 | 1,773 | 1,793 | 1,812 | 1,872 | 1,869 | 1,900 | 1,939 | 1,939 | 2,005 | 2,053 | 2,078 |

Pharmaceutical Management information system Support supervision quarterly Feedback report, October to December 2013, Cameroon

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|---|---------------|-------------|-------------|-------------|-------------|------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Hôpital de District De la Cité des Palmiers | UPEC | 569 | 539 | 424 | 550 | 534 | 530 | 513 | 568 | 456 | 251 | 251 | 608 |
| CMA Congo II | UPEC | 707 | 735 | 685 | 646 | 816 | 651 | 803 | 900 | 831 | 832 | 844 | 844 |
| Hôpital CEBEC Bonabéri | UPEC | 385 | 420 | 427 | 428 | 428 | 396 | 388 | 402 | 402 | 397 | 395 | 395 |
| Prison centrale de Douala | UPEC | 237 | 238 | 237 | 231 | 228 | 245 | 243 | 238 | 256 | 234 | 234 | 229 |
| Ad Lucem Bali | UPEC | 68 | 78 | 92 | 95 | 93 | 82 | 100 | 105 | 108 | 100 | 100 | 133 |
| HD DE LOGBABA | | 132 | 119 | 133 | 161 | 191 | 187 | 212 | 197 | 197 | 195 | 195 | 236 |
| Total Littoral | | 25,446 | 25,255 | 25,055 | 25,470 | 26,67 8 | 25,664 | 26,584 | 28,794 | 28,021 | 26,613 | 26,854 | 26,848 |
| Hôpital régional de Garoua | СТА | 2,022 | 2,010 | 2,131 | 2,169 | 2,175 | 2,124 | 2,397 | 2185 | 2,122 | 2,294 | 2,256 | 2,520 |
| Hôpital de District de Guider | UPEC | 676 | 645 | 899 | 849 | 859 | 885 | 916 | 943 | 921 | 910 | 938 | 892 |
| Hôpital de District de Touboro | UPEC | 191 | 192 | 136 | 170 | 198 | 175 | 186 | 147 | 71 | 172 | 183 | 178 |
| Hôpital de District de Lagdo | UPEC | 406 | 407 | 400 | 355 | 377 | 365 | 411 | 408 | 404 | 426 | 410 | 439 |
| Hôpital Militaire de Garoua | UPEC | 72 | 80 | 87 | 91 | 97 | 103 | 116 | 127 | 132 | 139 | 140 | 149 |
| Centre Medical de la SN | UPEC | 414 | 429 | 420 | 280 | 392 | 390 | 395 | 400 | 300 | 280 | 335 | 388 |
| Hôpital de Tchollire | UPEC | 216 | 221 | 193 | 207 | 223 | 223 | 213 | 227 | 191 | 232 | 188 | 220 |
| UPEC POLI | UPEC | 94 | 88 | 72 | 77 | 77 | 90 | 90 | 70 | 65 | 85 | 84 | 77 |
| UPEC de Figuil | UPEC | 129 | 133 | 136 | 142 | 136 | 132 | 145 | 141 | 133 | 150 | 152 | 150 |
| Total Nord | | 4,220 | 4,205 | 4,474 | 4,340 | 4,534 | 4,487 | 4,869 | 4,648 | 4,339 | 4,688 | 4,686 | 5,013 |
| Hôpital régional de Bamenda | СТА | 5,282 | 1,333 | 3,233 | 5,282 | 5,282 | 5,282 | 4,488 | 4,488 | 4,488 | 4,488 | 4,383 | 4,383 |
| Polyclinique de Mezam | СТА | 1,300 | 176 | 873 | 1,300 | 1,323 | 657 | 1,281 | 1306 | 1,214 | 794 | 1,246 | 1,378 |
| Hôpital de Batibo | UPEC | 450 | 354 | 336 | 450 | 558 | 459 | 546 | 496 | 442 | 540 | 556 | 513 |
| Hôpital de Njinikom | UPEC | 772 | 804 | 646 | 772 | 811 | 687 | 753 | 821 | 826 | 820 | 819 | 841 |
| Hôpital de Wum | UPEC | 506 | 219 | 219 | 506 | 443 | 265 | 409 | 521 | 521 | 521 | 529 | 627 |

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|-----------------------------------|---------------|-------------|-------------|-------------|-------------|------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Banso Baptist hospital | UPEC | 2,003 | 925 | 545 | 2,003 | 1,311 | 1,631 | 1,771 | 1669 | 1,763 | 1,902 | 1,932 | 1,852 |
| Shisong Cath Hospital | UPEC | 641 | 775 | 516 | 641 | 1,085 | 1,085 | 2,180 | 2231 | 2,242 | 2,283 | 2,327 | 2,327 |
| Mbingo Baptist Hospital | UPEC | 825 | 844 | 787 | 825 | 825 | 830 | 860 | 852 | 852 | 852 | 852 | 885 |
| Hôpital de Nkambe | UPEC | 711 | 138 | 500 | 711 | 876 | 333 | 855 | 951 | 978 | 392 | 983 | 939 |
| Hôpital de Bafut | UPEC | 341 | 468 | 283 | 341 | 407 | 439 | 449 | 254 | 424 | 105 | 444 | 236 |
| Hôpital de Ndop | UPEC | 1,603 | 1,603 | | 1,644 | 1,438 | 946 | 919 | 1499 | 1,188 | 1,093 | 1,605 | 1,590 |
| Nkwen Baptist Hospital | UPEC | 2,478 | 1,158 | 1,202 | 2,478 | 2,406 | 1,321 | 1,872 | 2316 | 2,303 | 1,353 | 2,456 | 2,358 |
| Hôpital de Bali | UPEC | 382 | 357 | 361 | 382 | 377 | 365 | 378 | 366 | 342 | 316 | 310 | 305 |
| Hôpital St. Joseph Widikum | UPEC | 117 | 114 | 119 | 117 | 125 | 125 | 142 | 147 | 155 | 161 | 166 | 167 |
| Hôpital Mbengwi | UPEC | 199 | 200 | 203 | 199 | 217 | 218 | 224 | 221 | 224 | 219 | 219 | 251 |
| Hôpital Acha-Tugi | UPEC | 133 | 112 | 108 | 133 | 124 | 124 | 122 | 125 | 125 | 125 | 125 | 125 |
| FUNDONG | | 105 | 141 | 109 | 105 | 177 | 170 | 181 | 219 | 222 | 186 | 232 | 242 |
| NDU DISTRICT HOSPITAL | | | | 53 | 53 | 227 | 581 | 528 | 573 | 654 | 694 | 694 | 694 |
| Total North-West | | 17,848 | 9,721 | 9,721 | 17,942 | 18,01 2 | 15,518 | 17,958 | 19,055 | 18,963 | 16,844 | 19,878 | 19,713 |
| Hôpital régional de Bafoussam | СТА | 3,671 | 3,576 | 3,628 | 3,769 | 3,884 | 3,967 | 4,078 | 4153 | 4,170 | 4,240 | 3,674 | 3,801 |
| UPEC de Foumban | UPEC | 1,523 | 1,495 | 1,499 | 1,539 | 1,525 | 1,539 | 1,596 | 1627 | 1,660 | 1,694 | 1,692 | 1,726 |
| Hôpital de District de MBOUDA | UPEC | 976 | 973 | 966 | 991 | 1,015 | 1,016 | 1,024 | 1041 | 1,049 | 1,081 | 1,087 | 1,107 |
| Hôpital de District de Foumbot | UPEC | 914 | 938 | 945 | 955 | 938 | 1,017 | 964 | 952 | 982 | 1,010 | 1,023 | 983 |
| Hôpital St Vincent Dschang | UPEC | 845 | 853 | 868 | 883 | 887 | 902 | 908 | 930 | 938 | 956 | 970 | 985 |
| UPEC H Ad Lucem Bafang | | 833 | 847 | 843 | 847 | 871 | 871 | 874 | 883 | 881 | 929 | 943 | 952 |
| Hôpital de District de Dschang | UPEC | 747 | 696 | 730 | 756 | 766 | 744 | 782 | 779 | 785 | 770 | 803 | 813 |

Pharmaceutical Management information system Support supervision quarterly Feedback report, October to December 2013, Cameroon

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|---------------------------------------|---------------|-------------|-------------|-------------|-------------|------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Hôpital de la Police de Bafoussam | UPEC | 415 | 425 | 431 | 431 | 438 | 441 | 443 | 445 | 448 | 458 | 458 | 458 |
| UPEC de Bangoua | UPEC | 363 | 367 | 358 | 374 | 383 | 383 | 380 | 380 | 378 | 389 | 387 | 391 |
| Upec de Banganté | UPEC | 335 | 346 | 362 | 371 | 331 | 343 | 334 | 319 | 304 | 306 | 306 | 304 |
| Hôpital Ad Lucem Mbouda | UPEC | 218 | 212 | 207 | 199 | 211 | 189 | 197 | 196 | 177 | 185 | 180 | 181 |
| Hôpital de District de Malentouen | UPEC | 155 | 167 | 176 | 176 | 203 | 204 | 252 | 260 | 261 | 258 | 270 | 272 |
| Université Dschang | UPEC | 26 | 25 | 26 | 30 | 28 | 29 | 27 | 28 | 27 | 30 | 30 | 33 |
| Hôpital de District de Bandjoun | UPEC | | | | | | | | | | 9 | 9 | 9 |
| Total West | | 11,021 | 10,920 | 11,039 | 11,321 | 11,48 0 | 11,645 | 11,859 | 11,993 | 12,060 | 12,315 | 11,832 | 12,015 |
| Hôpital régional d' Ebolowa | СТА | 1,024 | 1,098 | 975 | 1,193 | 1,128 | 1,122 | 1,394 | 1,505 | 1,555 | 1,661 | 1,738 | 1,428 |
| Hôpital de District d'Ambam | UPEC | 621 | 639 | 660 | 691 | 691 | 626 | 419 | 528 | 708 | 728 | 728 | 322 |
| Hôpital de District de Sangmelima | UPEC | 832 | 836 | 838 | 853 | 853 | 860 | 862 | 859 | 871 | 880 | 864 | 846 |
| Hôpital de District de Kribi | UPEC | 495 | 438 | 438 | 556 | 556 | 645 | 663 | 684 | 692 | 700 | 730 | 730 |
| Hôpital de District de Zoétélé | UPEC | 240 | 234 | 246 | 249 | 249 | 250 | 251 | 250 | 245 | 251 | 245 | 498 |
| Hôpital de District de Djoum | UPEC | 110 | 110 | 118 | 118 | 118 | 118 | 87 | 109 | 109 | 109 | 109 | 109 |
| Hôpital de District de Meyomessala | UPEC | 91 | 97 | 95 | 97 | 122 | 130 | 134 | 97 | 98 | 88 | 105 | 100 |
| Hôpital de Niété | СТА | 150 | 162 | 164 | 152 | 145 | 178 | 170 | 158 | 146 | 153 | 159 | 86 |
| Hôpital de District de Lolodorf | UPEC | 73 | 73 | 72 | 72 | 72 | 70 | 75 | 74 | 64 | 64 | 80 | 82 |
| FCB Meyomessala | UPEC | 57 | 61 | 62 | 62 | 64 | 70 | 75 | 70 | 81 | 84 | 84 | 85 |
| UPEC Bengbis | UPEC | 50 | 50 | 47 | 51 | 52 | 54 | 54 | 58 | 65 | 36 | 61 | 69 |
| Total South | | 3,743 | 3,798 | 3,715 | 4,094 | 4,050 | 4,123 | 4,184 | 4,392 | 4,634 | 4,754 | 4,903 | 4,355 |
| Hôpital régional de Limbé | СТА | 3,104 | 3,061 | 2,910 | 2,687 | 2,988 | 2,937 | 2,942 | 2,908 | 2,976 | 2,866 | 2,839 | 2,839 |

| Name of the Health Facility | Type of HF | Jan20 13 | Feb20 13 | Mar 2013 | Apr 2013 | May 13 | June 2013 | July 2013 | Aug 2013 | Sep 2013 | Oct 2013 | Nov 2013 | Dec 2013 |
|--|---------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Hôpital de District de Kumba | UPEC | 2,375 | 2,461 | 2,447 | 2,371 | 2,418 | 2,360 | 2,412 | 2449 | 2,440 | 2,320 | 2,320 | 2,546 |
| Hôpital de District de Mamfé | UPEC | 941 | 944 | 982 | 1,011 | 1,037 | 1,049 | 1,075 | 1,058 | 1,075 | 1,075 | 1,075 | 1,113 |
| Hôpital de District d'Ekondo-Titi | UPEC | 385 | 346 | 358 | 389 | 392 | 387 | 387 | 371 | 371 | 371 | 388 | 433 |
| Regional Hospital Annex Buea | | 1,198 | 1,164 | 1,153 | 1,093 | 1,265 | 1,277 | 1,270 | 1284 | 1,259 | 1,111 | 1,111 | 1,250 |
| Hopital CDC de TIKO | СТА | 915 | 956 | 1,058 | 978 | 978 | 1,071 | 1,116 | 1090 | 1,026 | 1,110 | 1,110 | 1,069 |
| Mary of Health Africa Hospital Fontem | UPEC | 294 | 291 | 312 | 303 | 298 | 303 | 300 | 303 | 303 | 303 | 303 | 303 |
| Hôpital PCC de Mayemen | UPEC | 287 | 289 | 263 | 294 | 286 | 293 | 277 | 290 | 275 | 289 | 262 | 271 |
| Université de Buea | UPEC | | · · · | · · · · | | | | | | · · · · | | · · · · | |
| Baptist HOSP Muntengene | UPEC | 1,670 | 1,781 | 1,789 | 1,774 | 1,885 | 1,943 | 2,025 | 2014 | 2,130 | 2,059 | 1,895 | 2,148 |
| District Hospital bangem | | 54 | 54 | 60 | 72 | 67 | 75 | 80 | 79 | 80 | 89 | 89 | 89 |
| District Hospital Tombel | UPEC | 235 | 242 | 249 | 262 | 271 | 273 | 281 | 284 | 294 | 299 | 306 | 312 |
| Presbyterian Medical Centre Nyassosso | UPEC | 50 | 51 | 53 | 55 | 71 | 71 | 76 | 79 | 80 | 79 | 80 | 85 |
| PHC KUMBA | UPEC | 695 | 698 | 586 | 664 | 715 | 569 | 775 | 671 | 719 | 719 | 719 | 749 |
| Apostolic Hosp Banga | UPEC | 37 | 38 | 39 | 48 | 55 | 55 | 66 | 61 | 68 | 69 | 80 | 70 |
| District Hosp Muyuka | UPEC | 305 | 285 | 323 | 325 | 364 | 373 | 378 | 385 | 401 | 438 | 436 | 430 |
| Total South-West | | 12545 | 12661 | 12582 | 12,326 | 13,09 0 | 13,036 | 13,460 | 13,326 | 13,497 | 13,197 | 13,013 | 13,707 |
| TOTAL | | 121,28 0 | 111,00 2 | 111,00 2 | 123,59 3 | 123,1 83 | 116,856 | 124,323 | 129,225 | 126,44 9 | 124,89 4 | 127,84 3 | 130,77 8 |