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DU PEUPLE AMERICAIN



**PROGRAMME SANTE USAID  
ASSISTANCE TECHNIQUE NATIONALE (ATN)**

**Second Semester Report  
And Annual Summary of Activities  
for FY 2007**

**April 2007 – September 2007**



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**Abt Associates Incorporated, Helen Keller International, IntraHealth International,  
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## Acronyms

ACT	Artemesinine based combination therapy
AMTSL	Active Management of Third Stage of Labor
ANC	Antenatal Care
ATN	National Technical Assistance Project
BCC	Behavior Change Communication
CAREF	Center for Research and Training Support
CNIECS	Center for the Information, Education, and Communication for Health
CDD	Control of the Diarrheal Disease
cMYP	Comprehensive Multi-year Plan for Immunization
CPS	Planning Division of the Ministry of Health
CREDOS	Center for Child Health Research
CSCOM	Community Health Center
CSRef	Reference Hospital
DHS	Demographic and Health Survey
DNS	National Direction of Health
DN	Division of Nutrition
DRH	Division of Reproductive Health
DSSAN	Nutrition Monitoring Unit of the CPS
DPM	Direction of Pharmacy and Medicines
DPT	Diphtheria, Pertussis, and Tetanus vaccine
EDS	Demographic and Health Survey
ENA	Essential Nutrition Actions
EPI	Expanded Program for Immunizations
FP	Family Planning
GOM	Government of Mali
HKI	Helen Keller International
ICC	Inter-Agency Coordination Committee
IMCI	Integrated Management of Child Illness
INRSP	National Institute of Public Health Research
IUD	Intrauterine Device
IPT	Intermittent Preventive Treatment of malaria
KC	Keneya Ciwara
LLIN	Long Lasting Insecticide Treated Nets
MDG	Millennium Development Goals
MH	Maternal Health
MI	Micronutrient Initiative
MOH	Ministry of Health
MSA	Ministry of Social Affairs
NGO	Non-governmental Organization
NMCP	National Malaria Control Program
ORS	Oral Rehydration Salts
PRODESS	Program for the Development of Health and Social Services
POPPHI	Prevention of Postpartum Hemorrhage Initiative
PPH	Prevention of postpartum hemorrhage
PPM	Malian People's Pharmacy
PNP	Policy Norms and Procedures
PSI	Population Services International
PTF	Technical and financial partners for health
RECOTRADE	Traditional Communicators Network
RED	Reach Every District
SIS	Health Information System

SIAN

SP

TPI

UEMOA

USAID

UNFPA

UNICEF

WE

WHO

National Nutrition Weeks

Sulfadoxine-Pyrimethamine

Intermittent Preventive Treatment of Malaria

West African Monetary and Trade Union

United States Agency for International Development

UN Fund for Population

United Nations Children's Fund

World Education

World Health Organization

## 1 Introduction

The present report summarizes the key technical activities of the second semester of fiscal year 2007 (April 2007 – September 2007), the fourth year of activity of the USAID Health Program / National Technical Assistance (ATN) project. This fiscal year is referred to in the contract as Option Year 1.

ATN's activities continue to be the result of a high level of collaboration with the Ministry of the Health (MOH) and the high impact service divisions. Through a process of ongoing consultation with USAID Mali's Health team and a productive collaboration with the Ministry of the Health and other partners, ATN is able to work towards achieving USAID's strategic objective (SO 6) in health: Increased Use of High Impact Services, within the framework of PRODESS II.

During this semester ATN continued program activities within a revised strategy, developed in early FY07 which was developed to further emphasize the provision of technical assistance at the policy level. ATN's activities emphasize high impact health service policy strengthening, scale up, national level training of trainers, and dissemination of best practices and state of the art interventions.

Close collaboration with the MOH continues to be of note this semester; ATN was again solicited to participate in the development of major policy documents for high impact services. These documents include: the MOH's Child Survival Strategy (which is an adaptation of the African Union endorsed strategy), the finalization of the chapter on household spending for the Mali's DHS IV report, the Accelerated Plan for the implementation of the National Malaria strategy, and several other key policy documents.

This report presents the two major project components: high impact services (child survival, maternal and reproductive health) and cross-cutting interventions (sector reform and behavior change communication). This report summarizes activities carried out during this period; reviews lessons learned and obstacles encountered, and outlines planned activities for the first semester of FY 2008 which will be ATN's fifth and final year of program activity.

The following is a brief summary of the project's key achievements for FY 2007. A table of key indicators and results follows in annex.

## 2 Summary of FY 2007 Activities and Achievements

### **Nutrition:**

- **National Nutrition Week (SIAN), Integration of albendazole distribution nationwide:** ATN provided technical and financial assistance in the advocacy, planning, coordination and organization of the SIAN for December 2006 and June 2007. In December the MOH decided to scale up the albendazole distribution to children 12-59 months and women post partum. This activity had been piloted in one region with ATN funding and technical support in May 2006. With the critical leadership of the Nutrition Division of the MOH, the scale up was successful and continues as part of the trend to expand the SIAN.

The SIAN coverage for June 2007 was 88% which represents over 2.2 million children for vitamin A and over 2.1 million receiving albendazole. Post partum women also benefited with over 58,000 women receiving vitamin A and albendazole. The region of Kidal was not served during the June SIAN due to problems with insecurity in the region at this time.

- **Integration of long-lasting Insecticide treated bednets (LLINS) into the SIAN in the Northern regions of Mali:** The June 2007 SIAN was noted for the association of the first ever distribution of LLIN's with the SIAN in the three Northern regions of Mali: Timbuktu, Gao, and Kidal. This decision was made by the MOH in anticipation of the national integrated campaign scheduled for December 2007.

PSI provided LLIN's, funding for logistics and social mobilization and coordinated with the MOH the transportation for the placement of the LLINs in the distribution sites. Distribution of the LLIN's was done with vitamin A and albendazole by the MOH teams. Lessons learned from this experience will be shared during planning for the integrated campaign. Approximately 196,167 LLIN's were distributed in Timbuktu and Gao.

- **Policies, Norms, and Procedures for Nutrition:** ATN provided financial and technical support to the finalization of the Nutrition PNP which will be tested and validated in FY 2008. The model of the PNP for Reproductive Health is being used for this exercise which is intended to improve the quality of nutrition services at all levels.

#### **Vaccination:**

- **Mid-term evaluation of Reach Every District (RED):** After 18 months of working with the National Direction of Health and the Immunization section on the implementation of Reach Every District in Niafunke and Goundam districts, a mid-term review was carried out in a joint visit which included the national, regional, and district level health officials in early 2007.

Results show that since the inception of RED the DPT3 rates in Goundam have increased from 15% in December 2004 to 70% in December 2006; in Niafunke coverage increased from 35% to 62% in the same time period. The RED approach and evaluation results were presented at the annual Global Health Council meeting May 2007 in Washington, DC in a panel session.

- **Comprehensive Multi-Year Plan for vaccination:** ATN staff played a critical technical role in the development and completion of the comprehensive Multi-Year Plan (cMYP) for vaccination which covers 2007-2011. ATN staff participated in two sub-commissions of the cMYP – those addressing vaccination coverage and the institutional and financial aspects of EPI.
- **Preparation of Integrated Health Campaign:** During this semester the MOH and partners began the early stages of planning for the integrated campaign to be held in December 2007 which will provide measles and polio vaccines, vitamin A, albendazole (deworming) and LLIN's for children 0-59 months. Women post partum will also benefit from vitamin A and albendazole. This will be the largest public health event in the history of Mali

with the largest package of child health interventions ever delivered in one week to 2.3 million children.

#### **Malaria:**

- **Plan for the Accelerated Implementation of the Malaria control strategy:** ATN participated actively in the preparation of the Accelerated Plan initiated by the DNS. The discussions leading up to the final document were critical to developing consensus on the approach to malaria control in a more detailed and focused manner. This process contributed to the partner discussions held with the team for the Presidential Malaria Initiative during their country visits in 2007.
- **Counseling cards for community health workers (relais) on ACT policy:** Counseling cards were developed for the CHW kit for Keneya Ciwara in order to disseminate to the population the new ACT policies and promote proper case management of malaria in children under five. These cards were the object of partner consultation, NMCP input, and field testing before their finalization. They will be printed and distributed to the 4,000 Keneya Ciwara community health workers.
- **Technical Assistance to the National Malaria Control Program:** This was a transition year for the NMCP as Round 6 Global Funds were successfully obtained and the new ACT policy was finalized and implemented. ATN has been a part of the ongoing technical dialogue with the NMCP on the implementation of these new policies, this process began with technical assistance which ATN provided during the preparation of Mali's Global Fund application in 2006. During 2007 ATN provided technical assistance for the development and refinement of tools at the operational level for data collection, supervision, and monitoring of malaria control activities for case management and prevention (IPT of pregnant women during ANC).

#### **Control of Diarrheal Diseases:**

- **National strategy for the promotion of hand washing in collaboration with the private sector and the First National Handwashing Day:** ATN provided technical input to the adoption and validation of a national handwashing strategy for the prevention of diarrheal disease. The first National Handwashing day was organized and successfully carried out on September 10, 2007 with a number of multi-sectoral partners including private soap manufacturers. The Minister of Health took note and passed on compliments to the partners involved in the Handwashing Day during a cabinet meeting after the launch. She expressed her interest in seeing handwashing promoted at the household and community level.

#### **Family Planning and Maternal Health:**

- **Training of trainers in the prevention of postpartum hemorrhaging:** ATN conducted in collaboration with the DRH and POPPHI the National Training of Trainers in Active Management of Third Stage Labor (AMTSL) for the prevention of postpartum hemorrhage in February 2007. Twenty-five trainers from all regions except the district of Bamako were trained, as well as from the DRH and the National Training Institute for Health. ATN supported supervision in the pilot areas of the matrones who have been trained to administer GATPA. The report of the baseline study for the operations research activity was drafted.

- **Job Aids for the CSCOM personnel addressing Policies, Norms, and Procedures for Reproductive Health:** ATN developed, tested and finalized with the Division of Reproductive Health 31 job aids on all aspects of Reproductive Health outlined in the PNP for RH. These will be printed for distribution in a binder with enough copies for all 875 CSCOMs and 59 CSRef's in Mali. Partners will also receive copies. The job aids provided an opportunity to update the PNP for the practitioner level.
- **Family Planning Campaign and Partners meeting:** ATN provided financial and technical support to the 2007 Family Planning campaign launched in March. The preparation involved meetings several months in advance of the launch to examine the availability of contraceptives such as the IUD kit and other materials with partners and the development of messages around the theme: "Male involvement in Family Planning promotion and acceptance."

The experience of the Family Planning partners group was presented in a round table session at the Annual Global Health Council meeting in May 2007 in Washington, DC. The preliminary DHS results for the Mali DHS IV (2006) were presented to the FP partners group for discussion along with the study results from a qualitative study on Family Planning obstacles which was financed by ATN and carried out by CAREF.

- **Supervision, monitoring and retraining for focused antenatal care:** ATN with the DRH, key partners and an expert consultant updated the training of national and regional trainers in April 2007 (24 participants -14 women and 10 men). This training was followed up by the reporting out of the results from intra-regional supervision and monitoring of focused ANC in four regions and Bamako. The supervision visits found an improvement compared to the pre-training period in the prescription of Sulfadoxine-Pyrimethamine (SP) and the distribution of LLINs to pregnant women.

#### **Health Reform:**

- **National Health Accounts:** the NHA document was presented along with two other studies to the MOH and other partners in a national meeting held in Bamako at INRSP in late 2006, this was followed by a meeting at WHO in early 2007 to examine the use of the NHA tables. The meeting was sponsored by WHO and the Ministry of Health, CPS. A steering committee has been established and DHS IV data will be integrated into the NHA tables in 2008.

#### **Behavior Change Communication:**

- **High Impact Health Services Communication:** The National Reproductive Health Strategy was presented and disseminated. Various communication products for rural radio (messages on SIAN, IPT, and vaccination) along with the radio series *Heremakono* were broadcast in all 59 districts including Bamako. A CD-Rom of materials produced with the MOH including the PNP SR, the radio series, numerous training materials, and other key documents was developed and distributed.

## Photo Collage of FY 2007 activities



## 3 COMPONENT I: High Impact Services

### 3.1 Nutrition

#### **Accomplishments of the past six months**

The following section outlines the activities of the Nutrition component of ATN. These activities were carried out in collaboration with the Division of Nutrition (DN) National Direction of Health (DNS) and other partners.

#### **National Nutrition Week (SIAN) with LLIN's**

As has been the case since December of 2003, ATN this semester took an active role in providing support to the DN for advocacy, resource mobilization, planning, coordination and organization of the SIAN held in June 2007. Increasingly, the MOH/DN is taking responsibility for resource mobilization and for ensuring that sufficient quantities of vitamin A and albendazole are available.

The SIAN was carried out as usual in all regions of Mali with the distribution of vitamin A and albendazole to children 6 to 59 months and women post partum. However, in the three Northern regions the SIAN was expanded.

In Timbuktu, Gao, and Kidal the decision was made to distribute LLIN's to children 6-59 months. The MOH's decision to expand the activity was in anticipation of the integrated campaign to be held in December 2007. The pilot activity for deworming in Koulikoro region in early 2006 demonstrated that a smaller scale effort would help inform efforts for scale up. So it was decided to do a smaller scale LLIN distribution at a key moment (pre-malaria season) in order to gain insight and lessons learned into LLIN distribution.

This year, the Nutrition Division has mobilized significant GOM resources for the SIAN (over \$150,000 US) which was used for the purchase of commodities, logistics, and support to certain regions where there was a funding gap. The MOH has consistently supported the SIAN and is gradually shifting the funding responsibility to the regions to encourage regional ownership and full management of the SIAN.

**Results:** The Nutrition Division reported that over 89% of the target groups were successfully reached by the June 2007 SIAN. More specifically:

- **2,238,439 million children received vitamin A (89% of children 6-59 months)**
- **2,053,574 million children received deworming tablets (90% of children 12-59 months)**
- **58,258 women post partum received vitamin A and deworming tablets (83% of the target group)**

### Comparative Table

<b><u>SIAN December 13 – 19 2006</u></b>	<b><u>SIAN June 25 to July 1 2007*</u></b>
Out of a total of 2,448,449 children 6 – 59 months, <b>2,325,069 (90%) received Vitamin A</b>	Out of a total of 2,526,287 children 6 – 59 months, <b>2,238,439 (89%) received Vitamin A</b>
Out of a total of 2,203,604 children 12 – 59 months, <b>2,133,444 (96,82%) received Albendazole</b>	Out of a total of 2,273,656 children 12 - 59 months, <b>2,053,574 (90%) received Albendazole</b>
Out of a total of 68,012 women post-partum <b>63,281 (93%) received Vitamin A and Albendazole</b>	Out of a total of 70,174 women post-partum, <b>58,258 (83%) received Vitamin A and Albendazole</b>

- *The SIAN June 2007 results cover all regions, the Bamako district, with the exception of Kidal region. December 2006 covered all regions.*

These results are slightly under those of the December 2006 SIAN reported in the last semester report. A reason for this could be due to seasonal migration. June is the beginning of the planting season and many people move to more isolated agricultural hamlets near their fields. Also the exclusion of Kidal affected the overall coverage rate.

Specific activities for the SIAN that were supported included:

- Resource mobilization for the SIAN (preparing budgets and assisting with advocacy). ATN provided financing of the operational costs of the SIAN in Timbuktu, Gao, and Kidal regions.
- Technical assistance provided for the development of communication materials for the integration of LLINs.
- In collaboration with PSI technical and financial assistance was provided to the microplanning process in the North. National level representatives (DNS, CPS/Santé, CNIECS and INRSP), regional representatives in Timbuktu, Gao, and Kidal and partners (USAID/ATN, PSI, Keneya Ciwara, UNFPA, and the Canadian Cooperation).
- Printing and dispatching tools for data collection to the three Northern regions of Timbuktu, Gao and Kidal.
- Logistical and financial support was provided for the supervision by the national level DN of the SIAN in key regions.



### ***Mother and children receiving LLINs in the Timbuktu region***

#### **Revision of PNP for Nutrition**

- ATN supported the DN in finalization of the PNP for Nutrition and for the development of a training curriculum for the dissemination of the PNP Nutrition.

#### **Integrated campaign (Measles, Polio, vitamin A, albendazole, and LLIN)**

- ATN nutrition advisor participated in subcommittee meetings for the development of tools for microplanning, data collection, training, and the terms of reference for the supervision of the campaign.

#### **Other key activities and events**

- ATN participated in the development of the Health Sector Plan of the Food and Nutrition Sector strategy.
- ATN's nutrition advisor participated in a francophone workshop to update IMCI directives for child health and case management of child illness – in particular diarrhea and HIV/AIDS. After this meeting ATN continued to participate in the development of national policy on the use of zinc and the new ORS formula in the management of diarrhea. A draft technical note was prepared and ATN provided comments.

#### **World Breastfeeding Week**

- ATN participated in all preparatory meetings for the World Breastfeeding Week the theme of which was “Breastfeeding in the first hour of life: Saving more than a million babies”. The episodes which addressed colostrum from the radio series Heremakono were rebroadcast during the week to further disseminate the central message.

#### **Coordination and technical assistance to the Nutrition Division and the DNS**

- ATN actively participated in meetings to discuss nutrition aspects of the draft child survival strategy prepared by key DNS staff.

#### **Participation in International Meetings**

- ATN's nutrition advisor participated in the Micronutrient Forum April 16 to 19<sup>th</sup> in Istanbul Turkey. This forum concentrated specifically on 4 micronutrients: vitamin A, Iron, Zinc and Iodine

ATN prepared and negotiated terms of reference for key activities: the situational analysis for the nutrition communication plan and for the documentation of the SIAN process. Consultants were identified for these important assignments.

ATN participates in various nutrition meetings at the local level. This semester ATN participated in the "Second Dialogue between private and public sectors on food fortification in West Africa" organized by Helen Keller International.

### **Lessons Learned**

The coordination of the PNP Nutrition with the PNP for Reproductive Health will be a challenge in the coming year. The PNP Nutrition will be an updated and more in depth tool for nutrition.

Sustainability of the SIAN is another challenge facing the Nutrition Division including the integration of the SIAN into Mali's new child survival strategy.

### **Key activities planned for the next six months**

- Technical and financial assistance in the planning and organization of the December 2007 integrated campaign.
- Technical and financial support for the validation, testing, and training of national trainers for the PNP Nutrition.
- Technical and financial assistance to the SIAN documentation process
- Technical assistance for the preparation of the June 2008 SIAN.
- Technical assistance to the implementation of the National strategy for child survival and maternal health
- Coordination with other nutrition partners: UNICEF, MI/projet Sahel, WFP, HKI SAN+, and HKI fortification program.

### **Conclusion**

Maintaining support and momentum for the SIAN will be challenged this year with the implementation of the integrated campaign. Over the years, cost containment has been achieved in the SIAN planning and implementation (for example lower fuel allotments and lower per diems are the norm). However, with the abundant resources available for the integrated campaign it will be clear to refocus again on the previous norms and standards that have been established since 2003.

## **3.2 Vaccination**

### **Accomplishments of the past six months**

#### **Comprehensive Multi-Year Plan validated by the ICC**

During the past semester the Comprehensive Multi-year plan which takes into account the Global immunization vision strategy (GIVS) was completed and validated. This document along with the EPI review will be important components in the submission of Mali's application to the Global Alliance for vaccines and immunization (GAVI) for funding and in mobilizing additional donor resources. The plan was validated by the Inter Agency Coordination Committee.

### **Organization and participation in the workshop for the validation of a training module and job aids for traditional communicators for vaccination support**

In Segou from July 10 to 13<sup>th</sup> 2007 a module and job aids were validated during a workshop with approximately 20 participants from the Ministry of Social Affairs, traditional communicators, and health personnel. The module will be used to train traditional communicators to support routine and campaign vaccination activities through health education talks, advocacy, and social mobilization.

### **Support to the planning of the Integrated Campaign**

ATN technical staff (vaccination, nutrition, malaria, and communication) participated actively in the communication and technical subcommittees for the integrated campaign. ATN staff have played a critical role in providing technical input to tools, messages, and in coordination among all campaign partners.

### **Technical Support to the Immunization Section and the DNS**

ATN continues its mandate to provide technical support to the Immunization Section. In this semester ATN's immunization advisor:

- Participated in the technical committee of the CCIA
- Developed technical notes for vaccination training and supervision
- Participated in Crisis management committee meetings for the organization of a Yellow Fever and meningitis vaccination campaigns.

### **International Meetings and journal publication**

ATN's vaccination and malaria advisor presented the RED (Reach Every District) approach including mid-term evaluation results to the annual Global Health Council meeting in Washington, DC in June 2007 in a panel presentation.

Mali's SIAN experience was the object of an article in the Journal Public Health Nutrition, February 2007 entitled: "Determinants of high vitamin A supplementation coverage among pre-school aged children in Mali: The National Nutrition Weeks experience" (Ayoya et al). This article discussed the results of a MOH, USAID/ATN and HKI Micronutrient Initiative evaluation of the SIAN that was completed in 2005.

### **Lessons Learned**

The implication of traditional communicators significantly expands the number of key actors supporting vaccination and communication for behavior change. This accomplishment also opens the door to their involvement in social mobilization for other health activities such as malaria and family planning.

### **Key Activities planned for the next six months**

- Analysis of preliminary DHS data on vaccination coverage.
- Technical and financial support to improving supervision of routine vaccination activities
- Participation in the dissemination of the Comprehensive Multi-Year plan and dissemination of the EPI review results.

## **3.3 Malaria**

### **Accomplishments of the past six months**

### **Plan for the Accelerated Implementation of the Malaria control strategy**

- ATN participated actively in the development of the Accelerated implementation plan for malaria control activities which was initiated by the DNS in January 2007. This semester the document was finalized and printed for dissemination. The document outlines a plan for accelerating the implementation of innovative strategies for case management of malaria in children under five and pregnant women.

### **Technical Support to the NMCP and the DNS and other partners**

- ATN's malaria advisor participated in the development of national directives for case management of malaria in children under five and pregnant women.
- Counseling cards to be added to the Keneya Ciwara relais kit were developed and field tested for the use of ACT's in case management of malaria. Key messages focused on the introduction of ACT's, the efficiency of ACT's, the new policy giving access to children under five to free ACT's, and the importance of following the treatment are emphasized in four cards. These cards were field tested and shared with the NMCP for comments. They will be printed for inclusion in the Keneya Ciwara relais kit.
- Participation with the NMCP in a supervision visit to examine monitoring tools and the distribution of LLIN and ANC inputs in the Djenne district.

### **Lessons Learned**

This has been a year of transition for malaria activities in Mali. The successful Global Fund Round 6 application has led to the introduction of new malaria drugs and new policies for increasing access to those drugs. The public sector distribution of LLIN's through EPI and ANC has also presented challenges in terms of data collection and correct implementation practices. It will be important to reexamine the monitoring guide in order to take into account the new inputs, notably the ACT's, LLIN's for pregnant women (and EPI plus) and IPT for pregnant women.

As a result of Global Funding Mali also is receiving more donor interest and activities which has at times overstretched the MOH and NMCP's capacity. Coordination has become a critical need for malaria partners. ATN will support NMCP's efforts to improve partner coordination using the experience gained with other successful coordination efforts such as family planning, vaccination, and nutrition.

Improving awareness among the population and service providers of the new policies will also be the focus of ATN's efforts. The newly developed counseling cards for community health workers to promote understanding of the new ACT drugs and policies will be an important tool for informing parents.

### **Key activities planned for the next six months**

- Participate in technical follow up with the NMCP and the DRH of operations research on IPT of children under five.
- Development of an analytical framework for studying the implementation of the new malaria drug policy which mandates free treatment of malaria in children under five and pregnant women.

## **3.4 Control of Diarrheal Diseases**

- ATN will continue to work with the Hygiene Division of the DNS in the development of a national strategy for handwashing. The national strategy was validated and the first national Handwashing Day was celebrated on September 10, 2007 in Bamako with private sector partners playing a key role. The launch was held at the Mali's National Museum. The effort was complimented by the Minister of Health during a cabinet meeting along with the wish that this activity be carried to the community level.
- At this time a technical note on the use of zinc has been distributed to the regions without a formal validation. Through partners such as UNICEF, zinc is being introduced but it is not clear if attention is being given to the promotion of ORS with zinc and how compliance to the directives is being ensured. ATN child health advisors will work with the Division of Reproductive Health on the incorporation of the technical note into the PNP for IMCI and will discuss a follow-up strategy for the implementation of zinc and ORS.

### 3.5 Other Child Health Activities

#### **Acute Respiratory Infection**

- ATN participated in working groups on ARI case management at the community level which produced two draft research protocols: one for an antibiotic study and operations research for the use of drugs at the community level (by mothers and health workers).

#### **National Direction of Health / Child Survival Strategy document**

- ATN has actively provided input to the child survival strategy emphasizing in particular aspects of delivery of health services through population based scheduled activities such as the SIAN (for example) and of emphasizing proven interventions and not those that are the subject of ongoing operations research.

ATN participated in a workshop/retreat to finalize the document with partners and key MOH staff in May 2007 in Selengue. The document will address the continuum of maternal, neonatal and child health and address intervention strategies at the household, health center, and reference hospital levels.

#### **IMCI update process**

- ATN participated in a national dissemination workshop of the "Child-Friendly Household strategy" which includes the Community IMCI directives. It was noted however that certain new directives, such as the use of ORS and zinc have not been explicitly included in these documents. ATN will work in the coming months with the DRH on the finalization and official dissemination of the guidelines.

### 3.6 Maternal Health and Family Planning

#### **Accomplishments of the past six months**

##### **Introduction**

This second semester report presents the various activities implemented by the MH-FP team based on the FY 2007 workplan of USAID's National Technical Assistance program (USAID/ATN) for the period April-September 2007. These activities were accomplished in collaboration with the Reproductive Health Division (DRH) of the National Direction for Health (DNS) and other reproductive health and family planning partners. These activities support globally the objective of increasing contraceptive prevalence and contributing to the reduction of maternal, neonatal and infant mortality.

The second semester of FY2007 has been as active as the first. In synergy, training, supervision, advocacy and MH-FP policy support activities were also accomplished with technical and financial support from USAID/ATN to the DNS/DRH in line with the plan of action. The support from ATN has always been well appreciated by DNS/DRH because it permits the accomplishment of many priority MH-FP activities.

Certain key activities are discussed in depth below.

### ***Training: Focused ANC***

In order to reduce maternal morbidity and mortality due to malaria and complications of child delivery, the Malian government decided to introduce Focused Antenatal Care (ANC) into existing activities, Policies, Norms and Procedures (PNP) with appropriate training of trainers and providers. It was then necessary to conduct follow-up and supervision of focused ANC activities and train national trainers in focused ANC.

It was felt necessary to evaluate the focused antenatal care with feedback from the second supervision visits of the trained providers in the regions, to follow up the regional action plans developed, and to conduct a refresher training of trainers with the new focused ANC training module. The follow up found an improvement in the prescription of Sulfadoxine-Pyrimethamine (SP) and the distribution of LLINs to pregnant women.

From April 10 to 14, 2007; national and regional trainers were trained by a consultant as facilitator, preceded by the feedback on the results of supervision visits to the regions on focused ANC. Twenty four (24) participants (14 women and 10 men) from all the regions including Bamako district and DRH were trained.

However, the remaining challenges are 1) the implementation of the plans developed during this training to train providers back in the regions, 2) the follow up on the application of the acquired skills, and 3) the adherence to the distribution of SP and LLIN free of charge during focused ANC.

### ***Innovation: PPH***

The strategy for the prevention of Post-partum Hemorrhage (PPH) focusing on the Active Management of Third Stage Labor (AMTSL) is an intervention which has proven to be very effective in preventing PPH. Moreover its application by the matrons who assure an important proportion of deliveries in rural areas in Mali has a big potential to reduce maternal and neonatal mortality.

A pilot phase was undertaken for the introduction of Active Management of Third Stage Labor (AMTSL) by matrons in collaboration with IntraHealth, Keneya Ciwara,

POPPHI and DRH to demonstrate that the matrons can safely conduct AMTSL without misusing the oxytocine available with them for AMTSL.

ATN participated in the supervision of the AMTSL activities by matrons in Koulikoro July 11 to 13, Sikasso July 16 to 21 and Gao August 18 to 26 in 2007. ATN also participated in the scale up activities of AMTSL in Mopti July 30 to August 8 with funding from POPPHI. The supervision has shown that AMTSL was applied for almost all the deliveries in the pilot zones but in most cases demonstration models were use to check the acquired skills.

The scaling up of the AMTSL initiative to all regions remains a major challenge for various reasons, most notably funding.

### ***Policies, Norms and Procedures (PNP) for Reproductive Health***

In order to provide quality services to meet the priority needs of the population, the PNP for Reproductive Health were revised to serve as reference documents and an operational guide for all health providers of a minimum package of activities at all levels of the health pyramid.

The existing PNP for all providers to ensure quality services to Malian populations were not adapted to the educational level of the matrons at the community level and could not be used by them. Job aides were developed to improve the accessibility of the new PNP at the community level, particularly focusing on reproductive health. They also provided an opportunity to update the PNP content and provide practical application guidance for the CSCOM personnel.

These job aides were tested during training sessions for matrons in Bougouni, Sikasso. The Sikasso region appreciated the job aides and has used an improved version to train all the matrons of the region with funding from World Health Organization. Amendments were then made after this field test to the adapted PNP job aides which were finalized by the graphic designer.

ATN printed 120 copies of the final version for distribution by DRH at national, regional and circles (CSRef). USAID will fund the duplication of 1000 copies for distribution to all CSCOMs in Mali by DRH.

The follow up of effective application of the PNP by the providers and use of the job aides by matrons remains a major concern.

### ***Family Planning***

- Participated in the Family Planning working group meetings to follow up the National Family Planning Campaign of 2007 launched on March 15, 2007 in Commune IV of Bamako.
- Participated in a partners meeting on IUDs and amendment of IUD messages developed by PSI. The IUD package and the related messages are available.
- Supported the 10th Malian midwives day celebrated on June 29, 2007 and lead by the First Lady of Mali and the Meeting of the Malian Legal Association of Midwives held in Segou May 25 to 27, 2007 to promote family planning among midwives.

- Participated in the preparation of the presentation by the DRH for the virtual francophone conference on repositioning family planning July 13 to 19, 2007 and participated in the conference.
- In order to ensure better assessment of the family planning efforts, it was necessary to harmonize the family planning supervision tools in use in Mali. The harmonized tools will help collect a minimum of quality data during specific capacity building supervision of family planning activities in addition to the existing integrated supervision. ATN organized with the DRH a workshop to harmonize the existing tools for supervision of family planning activities in Mali July 3 to 7, 2007.

Twenty eight professionals participated in this workshop (23 women and 5 men) from the planning Unit of DNS, DRH, PPM, DPM, CAG, Regions (midwife or medical doctor in charge of family planning), USAID, ASDAP, Group Pivot, ATN, PKENEYA CIWARA, GTU, PSI, and SAVE The Children. The harmonized tools are available and will be tested in the field before finalization. It will be necessary to duplicate and disseminate them.

### ***Gender***

- Participated in the working sessions of the follow up committee to the production of the guide/directives on the Constructive Male Engagement in reproductive health activities by Health Policy Initiative.

### ***Safe Motherhood/Vision 2010***

- Financed and participated actively in the organization of the national day of Safe Motherhood on July 26, 2007 in Baguineda. The theme is "Safe Delivery, Role of the Community".
- Supported technically the DRH to produce a summary report from preliminary reports written by the national supervision team who visited all 6 regions and Bamako District to follow up the implementation of the free Cesarean Section Policy.
- Supported technically the ongoing data analysis of baseline survey on the prevention of Post partum Hemorrhage with AMTSL by matrons.

### ***Partnership***

- Shared the Malian experience with the family planning group on partnership in family planning at the Global Health Conference in Washington May 24 to June 2, 2007.
- Participated in the International Workshop on Reproductive Health Community Based Reproductive Health Programs, held in Bamako, June 11 to 15, 2007. ATN participated in the preparatory meetings to decide and prepare topics drawn from Mali's experiences and in providing logistics for field visits during the meeting.
- Participated in a meeting at CREDOS to review a research proposal on neonatal mortality in May 2007.
- Exchanged with POPPHI and IntraHealth on the basic indicators of the feasibility study on AMTSL by matrons.
- Participated in the Francophone Training session of The World Bank held in Cotonou July 16 to 27, 2007 on "Adapting to Change: Reaching the MDG with RH and Health System Reform".

- Financed the participation of the President of the Malian Association of Gynecologists and Obstetricians (SOMAGO) in a meeting of African Gynecologists in Tunis, May 2007.
- Financed the participation of 3 participants from Mali (2 from SOMAGO and the Head of the Association of Midwives) in the meeting of the African Society of Gynecologist and Obstetricians (SAGO) in DRC September 3 to 7, 2007.

## **Lessons Learned**

- Timely planning of activities with the DRH on a quarterly basis allowed for a better management of their implementation.
- The increase in the size and capacity of the MH/FP team at ATN contributed to an efficient and effective implementation of activities.
- The FP group is a good example of successful partnership which permits better resources mobilization and coordination for the national FP campaign but the group is less active and meets less frequently after the launching of the FP campaign.
- The adaptation of the job aides to matrons was more difficult and more time consuming than anticipated especially to get consensus on the content, the volume, the design and the quality; but the final document is rewarding.
- The use of a consultant as a facilitator for the training of trainers in focused ANC ensured timely accomplishment of the activity with quality results.
- The harmonization of the existing family planning supervision appears to be a more time consuming process than anticipated.

## **Key activities planned for the next six months**

- Support the follow up of the dissemination of the PNP and the PNP job aides for matrons
- Assist the organization of regular meetings of the family planning working group as part of repositioning family planning
- Assist the organization of Vision 2010 group meetings
- Support the secondary analysis of DHS IV 2006 results for family planning
- Support the finalization of the feasibility study on AMTSL by matrons with POPPHI partners
- Support the implementation assessment and evaluation of the free cesarean section strategy
- Support the organization of the National family Planning campaign 2008
- Support DRH and the HIV/AIDS prevention Unit for the integration of FP into the HIV/AIDS prevention and care activities
- Document best practices and lessons learned by ATN in MH-FP
- Support the training of midwives in prevention of post partum hemorrhage
- Support DRH and DPM in the follow up of the use of IUD packages in health facilities
- Support the follow up activities of providing TPI and SP during focused ANC
- Support training of national and regional trainers in care to the new born
- Support the testing and the finalization of the family planning supervision tools
- Support the training of teachers in AMTSL to prevent PPH at the health training schools;

- Support the integration of the AMTSL module into the existing modules of Emergency Obstetrical Care and Essential Neonatal Care (SONE) for the Health Training Schools and the Faculty of Medicine
- Support a situation analysis study in family planning.

## 4 COMPONENT II: Cross-cutting Interventions

### 4.1 Health Reform

#### **Accomplishments of the past six months**

ATN continued its activities in the area of health reform, within the PRODESS framework. In particular, ATN participated in several national workshops, consultative meetings and other activities organized by the Ministry of Health as part of the PRODESS Technical and Monitoring Committee.

Main activities for ATN included:

#### **Support to National Health Accounts:**

- ATN provided technical support to the INRSP team and participated in several meetings organized by the Steering committee which were called to take into account recommendations on the draft NHA document.
- ATN participated in the presentation of three studies, including the NHA, the World Health study and the study on the burden of malaria on March 6 to 7, 2007 at INRSP.
- ATN provided technical support to the CPS for a workshop on the application and use of National Health account data in Bamako at WHO on May 17, 2007.
- ATN technical staff participated in a regional workshop to address the standardization of the NHA methodology. The workshop was organized by AWARE-RH and the UEMOA Commission.

#### **Support to Mali DHS IV**

- ATN participated in the advancement of the final version of the DHS IV report by providing analysis and input for the chapter on household spending on health in collaboration with the CPS. Tables presenting particular indicators were developed for the preliminary report which came out in June 2007. Several drafts of the chapter for the final report have been produced and provided to Macro and discussions are underway with the CPS for the participation of the ATN Deputy COP in the team which is travelling to the US to finalize the report.

#### **Health Information System**

- In order to assess data quality and the use of indicators for high impact health services, ATN financed a supervision visit by the MOH / Health Information System team in two regions: Gao and Mopti. Information from these visits has raised awareness for the need to improve training and strengthen support to HIS personnel at the regional level.

## **Lessons Learned**

The NHA activity has demonstrated the need for quality data. In order to improve the quality of data in the current NHAs, it will be important to have access and full understanding of the DHS IV data. This will also help to reinforce the institutionalization process for future generations of National Health Accounts in Mali if the data is fully operationalized. A challenge to this process will be the need for a reinforced CPS.

## **Key activities planned for the next six months**

ATN will focus on the following activities:

- Support the implementation of the PRODESS within the current political climate (new Minister and possibly other new staff)
- Prepare the institutionalization of the NHAs and apply the secondary DHS analysis with the CPS and DNS to improve the NHAs.
- Participate in national validation of Mali's DHS IV and support secondary analyses as identified by the MOH.

## **5 Behavior Change Communication (By technical component and cross-cutting)**

### **Accomplishments of the past six months**

#### **5.1 Child Health BCC**

##### **Vaccination BCC**

- Elaboration of a training module and job aids for traditional communicators for vaccination promotion during both routine and campaigns. These tools were validated and disseminated.
- Duplication of 250 examples of the module and job aids for traditional communicators, social affairs and MOH personnel.
- Technical support for communication was provided for the integrated campaign for message development, training modules for communication, and strategic planning.

##### **Nutrition BCC**

- Development of Terms of Reference in consultation with the MOH Nutrition Division for the development of a communication plan for nutrition. CAREF was selected to prepare the situational analysis for nutrition as phase one of the plan.
- Technical assistance provided to the development of messages for BCC for the June 2007 SIAN with partners, such as PSI and HKI, and for the production of support materials such as job aids.
- Participation in supervision of communication activities during the June 2007 SIAN with LLINs in Timbuktu.

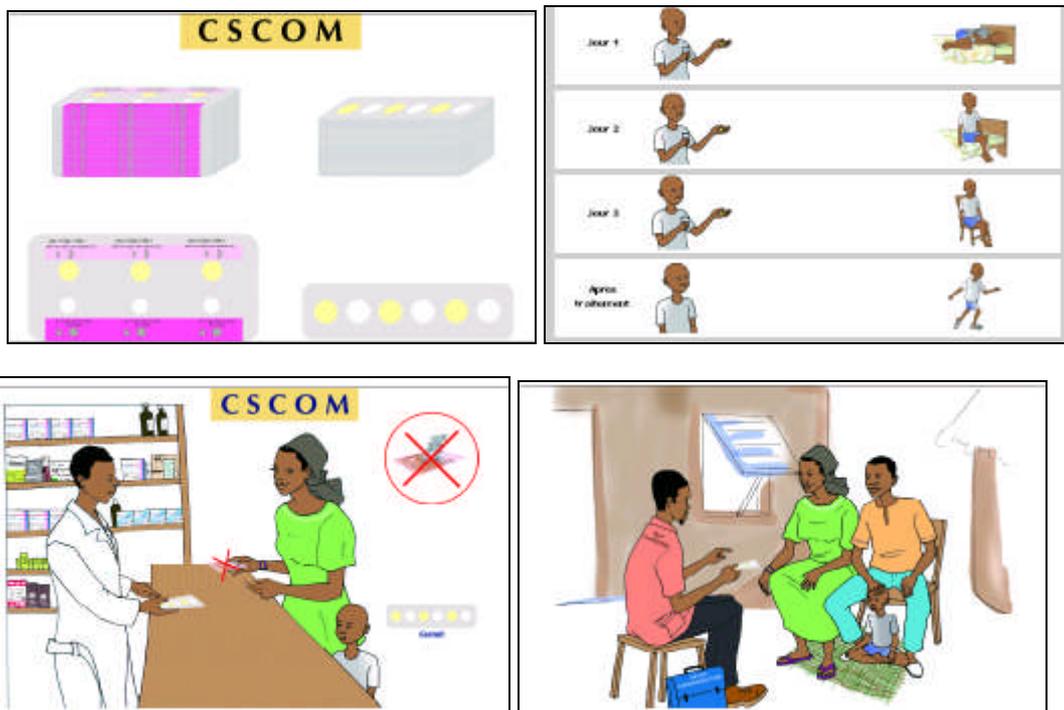
- Preparation of messages and financing of the dissemination of the radio series Heremakono focusing on the benefits of colostrums during the World Breastfeeding Week.

### Control of Diarrheal Diseases BCC

- Technical assistance provided to the validation of the Action Plan for the promotion of handwashing to reduce diarrheal diseases: a public – private sector partnership.
- Support to the planning, organization and implementation of the National Handwashing Day, September 10, 2007.
- Support for communication materials – posters, microprograms for media, brochures, radio announcements and a sketch by a national acting company.

### 5.2 Malaria BCC

- Support for the African Malaria Day including participation in all planning meetings for communication.
- Technical support was provided to the elaboration / update of the Malaria communication plan.
- Development of counseling cards for community health workers on the new ACT policy, support for pretesting with Keneya Ciwara and production of 5,000 sets of counseling cards.
- Support for broadcasting of IPT with SP for pregnant women radio spots continued to rural radios in nine languages in 59 health districts.



***Counseling cards for community health worker kits addressing ACT policy***

## 5.3 Maternal Health and Family Planning BCC

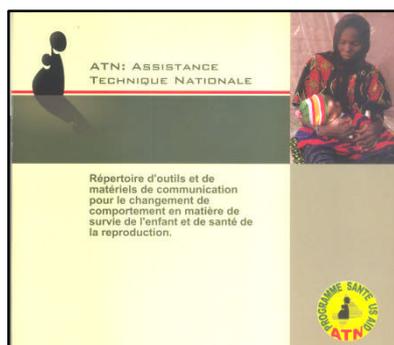
### Family Planning BCC

- A qualitative study on the effects of the Family Planning campaign was carried out and completed. The study was presented in April 2007 with positive feedback and reaction from the family planning partners group. An early assessment of the findings indicates that there is still significant resistance to family planning for social and cultural reasons. Women are still more favorable than men to family planning. Management of the side effects of contraception and rumors around contraceptive use need to be addressed more effectively.
- Monitoring of the National Family Planning campaign efforts and preparation of the final report.
- Technical assistance provided to the development of messages for the Standard Days Method of family planning and IUDs with PSI. For PSI, ATN is part of the group which conceptualizes the messages and then reviews the product in a pre-test before it is broadcast.
- Technical and financial support was provided to the Safe Motherhood Day in July.



*Qualitative Study Prepared by CAREF*

## 5.4 Cross Cutting BCC activities



- The Message Guide for Health was signed by the Minister of Health after being presented to the cabinet in June.
- A CD-Rom of materials produced with the MOH including the PNP SR, the radio series, numerous training materials, and other key documents was developed and distributed to partners.
- Heremakono radio series promotion spot and fourteen episodes were broadcast by a popular

local radio station in Bamako, Radio KLEDU.

### Lessons Learned

The partnership with CNI ECS and the implication of RECOTRADE helped facilitate implementation of the development of the training module for traditional communicators for vaccination.

### Key activities for the next six months

- Support technically and financially the communication activities for the integrated campaign.
- Development of a training module for traditional communicators focusing on malaria
- Support the Nutrition Division in the development of a communication plan and plan communication activities for the SIAN June 2008
- Message Guide for Health will be disseminated.
- Participation in planning for communication activities for the National Family Planning campaign for 2008
- Design and finance a small scale evaluation of the radio series Heremakono

## 6 Additional activities

- The ATN team participated in the Keneya Ciwara field coordinator meetings and Ciwara d'Or accreditation ceremonies.
- ATN staff participated in PTF, USAID-UNICEF, and biweekly meetings with USAID and Keneya Ciwara.
- ATN carried out through the prime, Abt Associates, an internal financial and administrative audit in October 2006 and followed up on the implementation of recommendations in early 2007.
- ATN's Chief of Party, the Global Health Fellow, the vaccination/malaria advisor and the family planning/reproductive health advisor participated in the Annual Global Health Council meeting in June 2007.

## Child Survival Expected Results FY 2007

Results	Data source	Target (2007)	Status '07	Comments
<b>Impact Results</b>				
% of children 6-59 months receiving one dose of vitamin A in the past six months	MOH / DHS (national) or latest SIAN data	80%	89%	MOH report on SIAN of June 2007
<b>Process Results : Child Survival</b>				
A national training of trainers for the SIAN guide and for deworming is organized	DNS/ Nutrition Division	Workshop for training of trainers is held	1	25 trainers trained
National directives for vitamin A supplementation are disseminated	DNS/ Nutrition Division	A national workshop is organized	0	
PNP for nutrition is finalized	DNS/ Nutrition Division	PNP documents are available	1	Curriculum developed
cMYP for vaccination is developed	DNS / Immunization Section	1 plan document is available	1	
A national workshop for advocacy of immunization of women of reproductive age for traditional and religious leaders is organized	DNS / Immunization Section, CНИЕCS	1 workshop is organized 1 final report is available	0	This activity was dropped due to other MOH priorities
Policy for case management for children under five (EPI with LLIN, ACTs) is defined	DNS/ NMCP	1 policy document is available	1	
Policy for distribution of LLIN is available	DNS/ NMCP	1 policy document is disseminated	1 document finalized (Accelerated Plan)	The policy document for LLIN's exists. This result is replaced by the Accelerated Plan for malaria activities

<b>Results</b>	<b>Data source</b>	<b>Target (2007)</b>	<b>Status '07</b>	<b>Comments</b>
Module for training of traditional communicators is developed	CNIECS ATN DNS/Divisions	Workshop organized and module available	1	Job aids also developed
Radio series for high impact services is broadcast and follow up is organized	CNIECS ATN DNS/Divisions	Dissemination and follow up report produced	1	Dissemination occurred but follow up will be carried out in FY 2008
Job aids for service providers addressing exclusive breastfeeding, complementary feeding, supplementation with vitamin A are produced	CNIECS ATN DNS/DN HKI	Job aids are available to the Nutrition Division	0	Job aids will be produced after the PNP Nutrition is validated
National communication strategy for nutrition developed	CNIECS ATN DNS/DN	Situational analysis completed ; workshop organized to validate plan ; plan available	0	Situational analysis underway and will be completed in FY 2008
Vitamin A information boards are produced	ATN WE CNIECS	Vitamin A information boards are provided to World Education	1500 Information boards produced and delivered to WE	

## Maternal Health and Family Planning Results FY 2007

Results	Source of Data	Target (2007)	Results (2007)	Comments
<b>Process Results Maternal Health and family Planning: Process</b>				
PNP job aides are finalized	DRH/ATN/ PKC	PNP job aides are finalized	Done	USAID is duplicating 1000 copies for all CSCOMs
The feasibility study for the introduction of Active Management of Third Stage Labor (AMTSL) by matrons is conducted	DRH/ATN/ KC/ Capacity project- POPPHI	The trained matrons apply correctly the AMTSL in the pilot circles of Sikasso, Gao, Koulikoro	Done	The regular follow-up of the matrons is done The supervision reports of the study are available. The first draft of the basic data analysis for AMTSL by matrons is available
The implementation of the strategy providing free cesarean sections is evaluated	DRH/ATN/ KC	The evaluation report is available	Postponed till 2008	Before an external evaluation, DRH preferred the analysis and summary of the reports from the national supervision to all the regions and Bamako district to assess the implementation of the strategy
The tools designed to monitor the implementation of the strategy providing free cesarean sections are revised	DRH/ATN/ KC	The revised tools are available	Modified	DRH has tools already developed in use and asked ATN instead, a report on the status of the

<b>Results</b>	<b>Source of Data</b>	<b>Target (2007)</b>	<b>Results (2007)</b>	<b>Comments</b>
				implementation of the free cesarean section strategy using preliminary reports from supervisions conducted in the regions based on those tools Summary Report and PPT presentation are available
National and regional trainers are trained in focused antenatal care	DRH/ATN	20 national and regional trainers are trained in focused ANC	Done	Segou and Koulikoro are yet to supervise their trained providers in focused ANC
The secondary analysis of DHS IV 2006 results for unmet needs in family planning is accomplished	CPS/ATN	Secondary analysis report available	Postponed till 2008	We are waiting for the final DHS IV 2006 results to come out before any secondary analysis
The activities to promote IUD are coordinated	DRH/PSI/ATN	Coordination meetings are held	Done	ATN participated in meetings on IUD packaging and amendment of messages
The family planning supervision tools are finalized	DRH/ATN/KC/FP Group	Tools Finalized	In progress	A 5 days workshop produced a first draft of harmonized supervision tools which will be tested, finalized, duplicated and disseminated

## ATN: OP Indicator Results FY 2007

Submitted October 15, 2007

*Indicator:*

Number of local organizations provided with technical assistance for HIV-related institutional capacity building

*DEFINITION:*

A local organization is defined as any entity whose headquarters is in a country or region served by the Emergency Plan. As such, the majority of the entity's staff (senior, mid-level, support) is comprised of host country and/or regional nationals. "Local organizations" refers to both governmental and non-governmental (NGOs, FBOs, and community-based) organizations.

Target FY07: **1** **Baseline 1** **Actual: 0**  
**Activity reprogrammed for 2007-08**

*Indicator:*

Number of people trained in maternal/newborn health through USG supported programs

*DEFINITION:*

Number of people (health professionals, primary health care workers, community health workers, volunteers, non-health personnel) trained in maternal and/or newborn health and nutrition care through USG-supported programs.

Target FY07: 60 **Baseline 53; Actual: 57<sup>i</sup>**  
**Target was an estimated number of participants at national and regional levels. This number was adjusted by the Ministry of Health according to personnel available for training.**

*Indicator:*

Number of people trained in child health and nutrition through USG supported health area programs

*DEFINITION:*

Number of people (health professionals, primary health care workers, community health workers, volunteers, non-health personnel) trained in child health care and child nutrition through USG-supported programs

Target FY07: **30** **Baseline 0; Actual: 105<sup>ii</sup>**  
**Target was an estimate that was exceeded due to an increased number of training activities with the Ministry of Health**

*Indicator:*

Number of children under 5 years of age who received vitamin A from USG supported programs

*DEFINITION:*

Number of children under 5 years of age who received Vitamin A from USG-supported programs.

Target FY07: 2,250,230 **Baseline 2,166,876; Actual: 2,238,439<sup>iii</sup>**

**One region, Kidal, was not included in latest Vitamin A activity due to insecurity in the region in June 2007.**

*Indicator:*

Number of people trained in FP/RH with USG funds

*DEFINITION:*

Number of people (health professionals, primary health care workers, community health workers, volunteers, non-health personnel) trained in FP/RH (including training in service delivery, communication, policy and systems, research, etc.)

Target FY07: 0 **Baseline 22 you have a target for this indicator in FY 08 however (22)**

*Indicator:*

Number of policies or guidelines developed or changed with USG assistance to improve access to and use of FP/RH services

*DEFINITION:*

Number of policies or guidelines developed or changed to improve access to and use of FP/RH services

Target FY07: **40 Baseline 8 Actual: 31 Fiches Techniques<sup>iv</sup>**

**It was decided to disseminate the Policies, Norms, and Procedures documents (8 volumes) via a set of 31 job aids for the community health centers.**

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Data Notes:

i 25 national trainers trained from all regions except Bamako, from the DSR, and the National Health Training Institute (13 women and 12 men) were trained in active management of the third stage of labor from 13 to 17 February 2007 (ATN, DSR, POPPHI)

8 clinical trainers retrained for practical phase of AMTSL (7 women and 1 man)

24 national and regional trainers trained (14 women and 10 men) in focused ANC from 10-14 April 2007 (ATN, DSR, key partners with a consultant facilitator) This training was preceded by a presentation of results from regional supervision visits. Source: Training reports, USAID/ATN

ii 64 health agents trained in Comprehensive Multi-year planning for vaccination in Gao and Timbuktu; 41 social development and health agents, traditional communicators trained through the development of a training module for the promotion of vaccination (routine and campaign) . Source: Training reports, USAID/ATN.

iii Difference between target and results is due to SIAN postponement in Kidal and readjustment of target groups in other regions. This result represents over 80% coverage for vitamin A and deworming with Albendazole in children 6 to 59 months. Source: Ministry of Health, Nutrition Division, data from June 2007 National Nutrition Week

iv Technical job aids prepared from Policies, Norms, and Procedures for Reproductive Health for use in community health centers. Source: USAID/ATN Project report.