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TB CARE I

TB CARE I - Zambia
(3 I's)

Year 5
Quarterly Report
January - March 2015

April 30, 2015

1. Quarterly Overview

Country	Zambia (3 I's)
Lead Partner	FHI360
Coalition Partners	WHO, KNCV
Other partners	Centre for Infectious Diseases Research in Zambia (CIDRZ), participating in WHO 3 Is project.
Work plan timeframe	Oct 2014 – July 2015
Reporting period	Jan-March 2015

Most significant achievements:

Intensified Case Finding (ICF) in health facilities and prison facilities

TB CARE I provided ICF support in the Central and Copperbelt provinces this quarter and expanded the support to a prison in Ndola district called Kansenji prison where orientation in the implementation of the 3 I's was done. A total of 4505 individuals were screened with GeneXpert from the 18 facilities implementing ICF, out of which 533 were Xpert MTB positive (11.8%). Rifampicin resistance was detected in 20 samples that were referred to the Chest Diseases Laboratory for culture and drug susceptibility testing. From the 4505 individuals screened, 981 were prison inmates (230 from Kamfinsa prison and 751 from Mukobeko prison). 40 prisoners were diagnosed with Tuberculosis and there was no rifampicin resistance detected among prisoners. In the previous quarter, 334 inmates were screened for TB and 17 were diagnosed with TB.

The number of prisoners screened was higher this quarter because the project introduced a symptom-based screening of prison inmates in addition to the screening of all new prisoners on entry to the prison. As part of the symptom based prison screening, one additional GeneXpert Machine was installed at Kabwe General Hospital to support the large numbers of inmates screened from Mukobeko prison. The project plans to install another additional machine at Ndola Central Hospital in April, 2015 to support screening of prison inmates at Kansenji Prison.

Onsite Xpert mentorship and supervisory visits

Representatives from the Ministry of Health, Ministry of Community Development Mother and Child and TB CARE I conducted Xpert monitoring visits in 14 health facilities from March 15-20, 2015. The visits provided an assessment of the staff skills and knowledge on Xpert implementation in all the sites.

Onsite mentorship in GeneXpert for the National Tuberculosis Reference Laboratory (NTRL) staff members was done this quarter by the TB CARE I Senior Technical Officer for Laboratory Services. The mentorship program was extended to the Ndola Central Hospital, Lubuto Clinic, Chavuma Clinic and Kitwe Central Hospital in the Copperbelt Province. The laboratory staff were mentored on Xpert MTB/RIF cartridge forecasting and quantification, onsite GeneXpert maintenance, troubleshooting and use of the standardized Xpert report. This will help the facility staff to continue implementing activities efficiently after project close-out.

World TB Day commemoration

TB CARE I participated in the national and district level commemorations of the World TB Day this year. The national commemoration was held in Mongu, Western province on March 24, 2015. Facility level activities were held in the Central and Copperbelt provinces. These included the sensitization of schools and vendors in the market place in Chisamba district, drama performances in Kapri Mposhi, and door to door sensitization in Chimwemwe clinic catchment area of Kitwe district.

TB Infection Control support to prisons

During scale-up of 3 I's activities to Kansenji prison, a TB IC risk assessment visit was conducted from February 16-17, 2015 and TB IC training was conducted from March 17-18, 2015. A total of 25 staff members were trained (13M, 12F) with representatives from Central and Copperbelt provinces.

District level project close-out meetings

TB CARE I held five district level dissemination meetings in all the participating districts from February 9-13, 2015. Recommendations were made to the project that will be provided as part of the final project report. A national level close-out meeting has been planned for May 14, 2015.

Preparation of manuscripts and evaluation protocol

A workshop was held from March 30 to April 4, 2015 to draft five manuscripts. Participants included six TB CARE I technical staff members, the FHI360 HQ Technical Advisor, the FHI360 Senior Advisor, Research, representatives from the MoH, MCDMCH, and WHO. The project plans to submit the manuscripts for publication to highlight the successes of the work done in Zambia in TB control. The mauscript titles are arelisted below:

- Introduction of USAID Support for TB in six northern provinces in Zambia
- Scale up of TB infection control in Zambia, best practices and challenges
- Involvement of community volunteers in the implementation of TB/HIV collaborative activities with USAID support in Zambia
- Increased TB Case finding in an HIV Population through use of XPERT MTB/RIF Assay: Programmatic Approach in Zambia
- Quality Assessment of documentation and Recording processes in the 3 I's supported facilities in Zambia

An evaluation protocol was finalized by TB CARE I and the NTP this quarter. The project plans to conduct an evaluation by June 2015 titled: Evaluation of the effectiveness of the TB CARE I project interventions on TB case notification, TB treatment outcomes, and TB related mortality in the Central and Copperblt provinces. This evaluation will cover the period before and during the implementation of TB CARE I activities, including 3 Is activities. The protocl has recieved review by the local ethics committee.

3 I's work plan technical outcomes and activity progress

3.1 Universal Access

Code	Outcome Indicators and Results	Actual Year 3 or Baseline Result	Expected End of Year 5 Result	Result to date	Comments
1.1.1	Number of facilities where quality of services is measured	15/18 under 3 Is	18	18	The project provided data quality visits to 18 facilities
1.2.4	Children younger than 5 (contacts of ss+ adults) that were put on IPT	N/a	100 (minimum)	Not yet measured	IPT tracking for under five children was not possible during the implementation of this project because of limited logistical support by the NTP for administration of IPT in the under five population.
1.2.7	Number of prisoners diagnosed with TB	N/a		17	A total of 981 prisoners were screened from two prisons (Kamfinsa and Mukobeko) this quarter. 40 were found Xpert positive representing 4% of the prison population.
1.2.8	CB-DOTS program is implemented	3	3	3	124 community volunteers have supported CB-DOTS implementation in the Central and the Copper belt provinces. One volunteer died
1.2.9	Population covered with CB-DOTS (percent)	N/a	100%	100% (15 target facilities)	CB-DOTS coverage has been possible in all the communities surrounding the 15 health facilities implementing the 3 Is initiative.
1.2.10	Health facilities offering CB-DOTS services (percent)	N/a	100%	83% (15/18 facilities)	CB-DOTS has been provided in 15 health facilities while the three prison facilities have prisons peers providing DOTS.

Activity Code (***)	Lead Partner	TB CARE Year 4 Planned Activities	Cumulative Progress as of the quarter's end	Planned Month		Status[1]
				Start	End	
1.1.1	FHI360	(PEPFAR 3 Is project) Carry out quality assessments in the sites implementing the WHO 3 Is initiative using tools developed under this project, termed as TB QUAL	Quality assessment visits were conducted in both health facilities and prison facilities this quarter, from February to March 2015 for the data from the two quarters of July-September and October-December, 2014.	Oct 14	Mar 15	Completed
1.1.2	FHI360	(PEPFAR 3 Is project) Support to patients diagnosed with MDR-TB to access treatment	A PMDT training was held for 22 participants from Central and Copperbelt provinces supporting 3 I's activities, from January 12-16, 2015	Oct 14	Jan 15	Completed
1.2.1	FHI360	(PEPFAR 3 Is project) Enhance DOTS in prisons through procurement of X-ray films for three prisons	This activity has been cancelled and funds reprogrammed because the prison facilities are not able to sustain the provision of X-rays in the prison facilities.	Oct 14	Dec 14	Cancelled
1.2.2	FHI360	(PEPFAR 3 Is project) Strengthen community intensified case finding in the community	TB CARE I provided support for transport reimbursement to 124 community volunteers this quarter. The support will not be continued after March 31, 2015 because of project close-out.	Oct 14	Mar 15	Completed

[1] Status options: Pending (the activity has not yet started, but is not delayed); Ongoing (the activity has started and is in process); Completed (all sub-activities and outputs are complete); Postponed (the start or completion of this activity has been delayed, but will still be completed by the end of the work plan year); Cancelled (the activity, which may or may not have started, will not be completed by TB CARE I.)

Picture of a meeting of TB treatments supporters at Mwachisompola clinic before a community sensitization visit in Chibombo district, Central province

Sensitization on TB control during a community based sputum collection visit (left) and a church meeting (right) in Chibombo district, Central province by male TB CARE I supported TB treatment supporters

3.2 Laboratories

Code	Outcome Indicators and Results	Actual Year 3 or Baseline Result	Expected End of Year 5 Result	Result to date	Comments
2.1.1	Number of facilities conducting tests with GeneXpert	N/a	19	18	The TB CARE I project has procured a total of 12 Xpert machines for project implementation. Three GeneXpert machines were approved for procurement this quarter, for placement at Buchi Clinic, Mukobeko prison and Chipokota Mayamba Clinic. One machine procured in the last quarter was also installed at

					Ndola Central Hospital.
2.3.2	Rapid tests conducted	387	40,000	4,505	These were the total successful Xpert tests done during the quarter.
2.3.3	Patients diagnosed with GeneXpert	94/387		533/4,505	11.8% positivity rate RR: 20/533 (3.7% RR rate)
2.1.4	*Number of MDR TB cases diagnosed through referral system* Numerator: The number of referred samples that will test positive for MDR-TB from the referral sites Denominator: the total number of samples referred to the reference laboratory.	20% (n > 136, from baseline assessment findings)		5/20	These samples were confirmed at the national reference laboratory by culture. DST results have not been confirmed as yet.

Activity Code (***)	**Lead Partner**	**TB CARE Year 4 Planned Activities**	**Cumulative Progress as of the quarter's end**	**Planned Month**		**Status**
				Start	**End**	
2.1.1	FHI360	(PEPFAR 3 Is project) Procure specimen packaging and transportation materials for GeneXpert diagnosis	The project procured 20,000 sputum specimen containers 20,000 specimen packaging bags and 850 biohazard bags. The items were distributed to the facilities within the quarter.	Oct 14	May 15	Completed
2.1.2	FHI360	(PEPFAR 3 Is project) Procure 18,500 GeneXpert cartridges	The last consignment of 3500 cartridges were procured this quarter.	Oct 14	Mar 15	Completed
2.1.3	FHI360	(PEPFAR 3 Is project) Strengthen sputum sample referral for Xpert testing	The project provided support for the referral of samples this quarter from 11 satellite facilities to the seven hubs from January to March 2015. The districts are expected to continue providing this support as the project closes out in the next quarter.	Oct 14	Mar 15	Completed

3.3 Infection Control

Code	**Outcome Indicators and Results**	**Actual Year 3 or Baseline Result**	**Expected End of Year 5 Result**	**Result to date**	**Comments**
3.2.1	Facilities implementing TB IC measures with TB CARE I support	Expected result from the WHO 3 I's sites is 35% (13/37 facilities)	100 Expected result from the WHO 3 I's sites is 100% (37/37	3 I's sites 97% (36/37 facilities)	Monitoring of TB IC measures was done in the TB CARE I supported

				facilities)		facilities by TB CARE I staff members.
Activity Code (***)	**Lead Partner**	**TB CARE Year 4 Planned Activities**	**Cumulative Progress as of the quarter's end**	**Planned Month**		**Status**
				Start	**End**	
3.2.5	FHI360	(PEPFAR 3 Is project) TB IC compliance monitoring	TB IC monitoring visits were conducted in the Copperbelt, Central and Southern Provinces this quarter. Endline visits have been planned for all the 37 facilities in the four provinces and compliance to IC measures will be calculated from these visits, in April 2015. The remaining visits will be conducted in April 2015.	Oct 14	Mar 15	Ongoing

3.5 TB/HIV

Code	Outcome Indicators and Results	Actual Year 3 or Baseline Result	Expected End of Year 5 Result	Result to date	Comments
5.1.1	% of new HIV patients screened for TB who were treated for latent TB infection during the reporting period	0%	N/a	Nine facilities were providing IPT this quarter, namely, Chimwemwe Clinic, Ngungu Clinic, Luangwa Clinic, Lubuto Clinic, Chipokota Mayamba Clinic, Liteta Hospital, Kabwe General Hospital, Ndola Central Hospital.	The project was not able to collect individual patient level data on the new HIV positive patients treated with IPT during the quarter.
5.2.1	% of HIV-positive patients who were screened for TB in HIV care or treatment settings	N/a	N/a	721/806 individuals were screened for TB from October to December 2014.	This data was obtained during the last quality assessment visits this quarter
5.2.2	% of TB patients (new and re-treatment) with an HIV test result recorded in the TB register	85%	N/a	90%	This data is from the WHO global report for 2014 that was released in December
5.2.3	% of TB patients (new and re-treatment) recorded as HIV-positive in the TB register?	68%	N/a	62%	This data is from the WHO global report for 2014
5.3.1	% HIV-positive TB patients started or continued on	60%	N/a	67%	This data is from the WHO

	antiretroviral therapy (ART)					global report for 2014
Activity Code (***)	**Lead Partner**	**TB CARE Year 4 Planned Activities**	**Cumulative Progress as of the quarter's end**		**Planned Month**	**Status**
					Start / **End**	
5.2.1	FHI360	(PEPFAR 3 Is project) HIV-positive patients screened for TB in HIV care or treatment settings	Technical visits were made to provide support to the facility project technical and laboratory staff members. The visits were also made to ensure that the government staff members are involved in the implementation of activities, to ensure continuity after project close-out.		Oct 14 / May 15	Completed

3.6 HSS

Code	**Outcome Indicators and Results**	**Actual Year 3 or Baseline Result**	**Expected End of Year 5 Result**	**Result to date**	**Comments**
6.2.2	People trained using TB CARE funds	1,269		0	Training has been planned for TB CARE I staff members. The project plans to reprogram the funds to support a national close-out meeting. The project has also planned to reprogram other funds to support training of 25 people in TB IC, 25 Xpert MTB/RIF and will realign funds to support MDR-TB training for 23 people.

Activity Code (***)	**Lead Partner**	**TB CARE Year 4 Planned Activities**	**Cumulative Progress as of the quarter's end**	**Planned Month**		**Status**
				Start	**End**	
6.2.1	FHI360	(PEPFAR 3 Is project) TB CARE I staff training and updates on 3 Is	The project has been planning for a project close-out meeting that will be held on May 14, 2015 in Lusaka. I00 individuals will be invited that will include government officials, project staff members and representatives from partner organizations.	Oct 14	May 15	Ongoing

3.7 M&E, OR and Surveillance

Code	Outcome Indicators and Results	Actual Year 3 or Baseline Result	Expected End of Year 4 Result	Result to date	Comments
7.2.1	Data quality measured by NTP	Yes	Yes	Yes	
7.2.2	NTP provides regular feedback from central to intermediate level	Yes	Yes	Yes	

Activity Code (***)	Lead Partner	TB CARE Year 4 Planned Activities	Cumulative Progress as of the quarter's end	Planned Month		Status
				Start	End	
7.2.1	FHI360	(PEPFAR 3 Is project) Data quality measured by NTP	Monthly meetings were held in the fifteen health facilities this quarter. The project also participated in the World TB Day commemoration held in Mongu, Western province on March 24, 2015.	Oct 14	Mar 15	Completed
7.2.2	FHI360	(PEPFAR 3 Is project) Build monitoring capacity in field staff	All technical staff members were provided with mobile phones to support their work within the health facilities and prisons	Oct 14	Dec 14	Completed
7.2.3	FHI360	(PEPFAR 3 Is project) M & E Technical Support under the 3Is	Ms. Suzanne Essama Bibi provided a technical visit from March 29 to April 4, 2015 to the project, to support the preparation of draft manuscripts and review data for the final project report. Her next visit is scheduled for May 18-23, 2015.	Oct 14	May 15	Ongoing

The WHO Country Representative (Right), the Minister of Community Development Mother and Child Health (Second from right) and the Provincial Medical Officer (third from right) at the World TB Day commemoration in Mongu, Western province looking at a GeneXpert machine and accessories**.**

WHO TB Representative, NTP staff members, provincial representatives, other NTP partners, and TB CARE I staff during the world TB Day commemorations in Mongu, Western province.

The WHO, TB CARE I and FHI360 team of writers during the drafting of manuscripts at Lake Kariba Inn Lodge, Siavonga.

5. TB CARE I-supported international visits (technical and management-related trips)

#	Partner	Activity Code	Name	Purpose	Planned month, year	Status	Dates completed	Additional Remarks (Optional)
1	FHI 360	7.3.1	Suzanne Essama-Bibi	WHO 3 Is	March 2015	Completed	March 30 to April 4, 2015	
2	FHI 360	7.3.1	Suzanne Essama-Bibi	WHO 3 Is	April-May 2015	Pending		The next trip is planned for May 18-22, 2015
Total number of visits conducted (cumulative for fiscal year)						1		
Canceled						0		
Total number of visits planned in work plan						2		
Percent of planned international consultant visits conducted						50%		