

Report to the University Research Co. LLC (URC-Georgia)

USAID Georgia Tuberculosis Prevention Project

Training of Family Physicians and Nurses in TB early detection and management in primary care settings

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1. Introduction and responsibility

Based on Purchase Order (effective date November 25, 2013), the University Research Co. LLC (URC) engaged the Georgia Family Medicine Association to provide Training of 500 FPs and 500 PHC Nurses on early detection and management of TB in General Practice for (TB Integration into General Health Facilities in Georgia) undertaking the Georgia Tuberculosis Prevention Project.

All deliverables shall be reviewed for approval by the URC-Georgia Chief of Party.

2. Acknowledgements

GFMA team would like to acknowledge Tamar Gabunia, Chief of Party, USAID Georgia TB Prevention Project for her considerable help and assistance during the training programme.

The contributors express gratitude to URC – Georgia staff and Regional Office for Tbilisi region, namely Dr. Neli Solomonia, Training Adviser URC – Georgia and David Raminashvili, Gvanca Khizanishvili, Imeda Kurcikidze, Khatuna Katamadze - regional coordinators on TB management .

3. Key achievements

According to the agreement for performance of work project activities has started since 20 December, 2013. All project objectives described in original proposal were achieved:

- a. The curriculum for 16 hours training course on the early detection and management of TB in general practice based on the Global Fund round 10 TB care project/URC previous course - Training of Family Physicians and Nurses in TB early detection and management in primary care settings was developed by the program consultants;
- b. Training materials for trainers and trainees were prepared by consultants/trainers team and submitted (electronically and as a hard copies) to URC local office;
- c. Training materials for trainers and trainees were printed and disseminated among trainees;
- d. Methodology for course evaluation was developed. This includes Tool for assessment of trainees knowledge;
- e. The training course for 515 PHC doctors was conducted from 2013, December to 2014, July.
- f. The training course for 502 PHC nurses was conducted from 2013, December to 2014, July.

4. Programme implementation

4.1 Target group:

The program aimed to target the PHC doctors working at PHC facilities in Tbilisi, Mtketa-Mtianeti, Kakheti, Imereti and Guria Regions.

The inclusion criteria for trainees were developed by URC Georgia office.

4.2 Organizing the training course:

- a) Revise/update existing training modules and materials elaborated within the previous TB care project;
- b) The detailed schedule for training program was developed by the program coordinator and agreed with Project director and URC Georgia office. The detailed schedule for training program is presented in annex 2 (2013-2014).
- c) Training was conducted at office of “Partners for International Development Georgia Representation” in Tbilisi and Hotel “Old Telavi” in Kakheti; Hotel “Kolkhida” in Ureki, USAID office, Imereti regional Public Health Department and PHC Centre In Kutaisi.
- d) Trainees attendance was very good.
- e) The trainers and trainees were provided with the training materials, stationary, and other necessary training aids.
- f) Lunch and coffee for trainers and trainees were provided.

5. Evaluation of the training programme

5.1. Achievement of knowledge objectives:

This was evaluated through assessment of trainees knowledge before and after the training course. Multiple Choice Questions (simple type) were be used for the assessment. Assessment paper constituted 15-15 stem questions for doctors and nurses as well..

Results of pre and post testing are presented in annex 3 and annex 4.

The following standards were set for ranking trainees according to their marks.

marks (Number of incorrect answers)	>8 (53%)	6-8 (40-53%)	5-3 (33-20%)	1-2 (13%)	0
Trainees knowledge	Very bad	Bad	Satisfactory	Good	Very good

By analyzing the results of the assessment the following conclusions have been made:

- Trainee's competence on specific issues discussed within the training program has been raised. All of the trainees have improved their results since pre-testing. It is good confirmation that the training program's knowledge objectives have successfully been achieved.
- The table 1 shows how FP trainees have changed their results since pre-testing:

Table 1

Progress since pre to post testing	N	%
BAD⇒GOOD	93	18.06%
BAD⇒SATISFACTORY	14	2.72%
BAD ⇒VERY GOOD	149	28.93%
BAD⇒-	4	0.78%
SATISFACTORY ⇒-	7	1.36%
SATISFACTORY⇒VERY GOOD	94	18.25%
SATISFACTORY⇒ GOOD	67	13.01%

VERY BAD ⇒VERY GOOD	13	2.52%
VERY BAD ⇒GOOD	20	3.88%
VERY BAD ⇒-	5	0.97%
VERY BAD ⇒ SATISFACTORY	6	1.17%
- ⇒ VERY GOOD	3	0.58%
- ⇒ GOOD	3	0.58%
GOOD ⇒VERY GOOD	23	4.47%
GOOD ⇒-	1	0.19%
GOOD ⇒ GOOD	7	1.36%
SATISFACTORY ⇒ SATISFACTORY	4	0.78%
VERY GOOD ⇒VERY GOOD	2	0.39%
ToTal (GPs)	515	100%

As the results of data analyses showed:

- 93 % of FP trainees achieved higher standards in post-testing;
- In 2.52 % of cases the same standards in pre- and post testing were reached;
- 6.41% of trainees demonstrated good knowledge even at the beginning of the training program.
- 18.1% of trainees improved their results from "bad" to "good", 18.25% from "satisfactory" to "very good", 29% from "bad" to "very good", 3% from "very bad" to "very good", 5% from "good" to "very good" etc. This confirms that the training has had positive impact on trainees knowledge.

- The table 2 shows how FPN trainees have changed their results since pre-testing:

Table 2

Progress since pre to post testing	N	%
BAD⇒-	1	0.20
BAD⇒ BAD	1	0.20
BAD⇒GOOD	70	13.94
BAD⇒SATISFACTORY	17	3.39
BAD ⇒VERY GOOD	70	13.94
VERY BAD⇒GOOD	9	1.79
VERY BAD⇒ SATISFACTORY	7	1.39
VERY BAD⇒ VERY GOOD	5	1.00
VERY GOOD ⇒ GOOD	1	0.20
GOOD ⇒ VERY GOOD	24	4.78
SATISFACTORY⇒VERY GOOD	133	26.49
SATISFACTORY⇒GOOD	122	24.30
SATISFACTORY⇒-	2	0.40
-⇒VERY GOOD	3	0.60
⇒ SATISFACTORY	3	0.60
-⇒ GOOD	5	1.00
SATISFACTORY⇒SATISFACTORY	15	2.99
GOOD ⇒GOOD	8	1.59
VERY GOOD ⇒VERY GOOD	6	1.20
ToTal (GPNs)	504	100%

As the results of data analyses showed:

- 91.24%% of trainees achieved higher standards in post-testing;
- In 5.78% of cases the same standards in pre- and post testing were reached;
- 3% of trainees demonstrated good knowledge even at the beginning of the training program.
- 24.30% of trainees improved their results from "satisfactory" to "good", 14% from "bad" to "good", 14% from "bad" to "very good", 26 % from "satisfactory" to "very good", 24.30% from "satisfactory" to "good". This confirms that the training has had positive impact on trainees knowledge.

6. Conclusions and recommendations:

As a results of training course evaluation we can conclude that:

- a) The training program has had a positive impact on trainees knowledge on the TB management at primary care level;
- b) Interest and willing of PHC doctors to learn more about management of TB is overwhelming.
- c) In order to ensure that the impact of training activities on trainees day-to day practice is measured, the introduction and implementation of performance evaluation tools at selected PHC facilities have to be encouraged.

Annex 1:

List of trainers trained to conduct the training program on the TB management at PHC setting

1. Marine Janjgava, MD., MPH - National Center for Tuberculosis and Lung Diseases, Head of the TB Program Management-Coordination and Tuberculosis Control service
2. Lamara Vashakidze, MD. Ph. D. National Center for Tuberculosis and Lung Diseases - Head of Scientific-Educational Department; Tbilisi State Medical University, Georgia - Head of Physiological Department, Full Professor
3. Nana Gudavadze - GP Trainer
4. Eteri Jajanidze – GP/GPN Trainer
5. Natela Jajnidze - GP/GPN Trainer
6. Vara odoshahshvili - GP/GPN Trainer
7. Vaja Koberidze - GP/GPN Trainer
8. David Gogoladze - GP/GPN Trainer
9. Marina Jimukhadze – GPN trainer
10. Irina Avalishvili – GPN Trainer
11. Khathuna Jojua – GPN Trainer
12. Simon Kuchava – Imereti Regional Coordinator in Tuberculosis Control Programme (NCDCPH)
13. Maia Ioseliani – GP Trainer
14. Tamar Janelidze - Imereti Regional Coordinator in Tuberculosis Control Programme
15. Ketevan Jugeli – GP Trainer
16. Lali Lortkipanidze – GP Trainer
17. Darejan Parunashvili – GP Trainer
18. Lela Liparteliani – GPN Trainer
19. Gulnara Gonashvili – Regional Coordinator of Kakheti in Tuberculosis Control Programme (NCDCPH)
20. Ketevan Mshvenieradze - Regional Coordinator of Mxeta-Mtianeti in Tuberculosis Control Programme (NCDCPH)
21. Malkhaz Davitashvili - National Tuberculosis Control Program Regional Coordinator, National Center for Tuberculosis and Lung Diseases, Tbilisi, Georgia.

Annex 2:

The detailed schedule for the training programme by Regions:

Region	FPs	Gr	Ns	Gr	
Tbilisi	197	12	54	3	20.12.2013 – 14.02.2014
Mtskheta	7	1	32	2	17.02.2014
Kakheti	61	4	198	13	14.02.2014-1.04.2014
Imereti	135	10	101	4	01.05.2014 --2.06.2014
Guria	84	5	91	5	20.06.2014-25.06.2014
Kakh_damateba	31	2	26	3	6.07.2014-9.07.2014
Total	515	34	502	30	20.12.2013-9.07.2014

Tbilisi/Kakheti - Tbilisi												
GPs	20-Dec	21-Dec	22Dec	23 Dec	27Dec	28-Dec	29Dec	30-Dec	31.Jen	01-Feb	02-Feb	03-Feb
Group 1												
Group 2												
Group 3												
Group 4												
Group 5												
Group 6												
Group 7												
Group 8												
Group 9												
Group 10												
Group 11												
Group 12												
Group 13												

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Tbilisi/ Kakheti/Mtsketa-Mtianeti - Tbilisi												
Nurses	7-Feb	8-Feb	9-Feb	10-Feb	14-Feb	15-Feb	16-Feb	17-Feb	21-Feb	22-Feb	23-Feb	24-Feb
Group 1												
Group 2												
Group 3												
Group 4												
Group 5												
Group 6												
Group 7												
Group 8												
Group 9												
Group 10												
Group 11												
Group 12												
Group 13												
Group 14												

Kakheti -Telavi						
FPs	28-Mar	29-Mar	30-Mar	31-Mar	1-Apr	
G14			Sagarejo			
G15			Sagarejo			
G16				Gurjaani		
G17				Gurjaani		
Nur						
G15					lagodexi	
G16					lagodexi	
G17						signagi
G18						signagi

Kutaisi/Imereti						
GPs	2-May	3-May	4-May	5-May	6-May	7-May
G18						
G19						
G20						
G21						
G22						
G23						
G24						
G25						
G26						
G27						

Kutaisi/Imereti			
Nurses	30-May	31-May	01-Jun
G19			
G20			
G21			
G22			

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Guria - Ureki						
FPs	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun
G28						
G29						
G30						
G31						
Nu						
G23						
G24						
G25						
G26						
G32	GPs					
G27	Nurses					

Kakheti - Tbilisi				
FPs	6-Jul	7-Jul	8-Jul	9-Jul
G33				
G34				
Nu				
G28				
G29				
G30				

Annex 3:

Results of pre and post testing (FPs) - Kakheti, Imereti, Guria regions

Annex 4:

Results of pre and post testing (FPNs) – Tbilisi, Mtsketa-Mtianeti, Kakheti, Imereti, Guria regions