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DESIGNATED DISTRICT HOSPITAL



# One Stop Clinic Ifakara

## PROGRESS REPORT

December 2017

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## Executive summary

The overall objective of the project “*Providing a Setting for a One Stop Clinic for HIV-infected Mothers and Their Families*” is to improve access to care and treatment for HIV-infected pregnant women, their partners and their offspring living in the Kilombero district and serve as a model clinic for other rural settings in Tanzania and sub-Saharan Africa.

In the following report we display in tables the outcomes that are being monitored to assess the impact of the project.

The three main potential outcomes of the One Stop Clinic are being successfully achieved:

- **Outcome 1: Improvement of the awareness and clinical skills of health workers involved in Prevention of Mother-To-Child Transmission of HIV (PMTCT) and Pediatric HIV.**
  - ✓ **Achievements:** Since the beginning of the project we have organized six seminars (July 2014, April 2015, November 2015, April 2016, October 2016 and August 2017) on PMTCT and Pediatric HIV. These seminars have reached over 200 health workers in the Kilombero district, the main district health authorities, and representatives of USAID in the Morogoro region. From the One Stop Clinic we have also developed tools to guide and facilitate health workers in the management of pregnant women, mothers and children living with HIV in their daily life. These job aids tools are now being widely used in the district health facilities.
- **Outcome 2: Improved access and quality of care for HIV-infected mothers and their families.**
  - ✓ **Achievements:** In close collaboration with the Tanzanian PMTCT and AIDS control program, from April 2014 to December 2017 the One Stop Clinic has offered HIV testing to over 21,000 pregnant women in the district, and HIV care and treatment to 1013 HIV-infected pregnant women, very likely avoiding many new pediatric HIV infections (see achievements of outcome 3). Data from Ifakara show a 2-fold increase of the number of HIV-infected women diagnosed and linked into care after the integration of services. These data confirms the programmatic benefits of the One Stop Clinic model. Moreover, by diagnosing pregnant women and mothers and having an integral and family-centred approach, many children and male partners have also been diagnosed and accessed health-restoring care and treatment.
- **Outcome 3: Reduction of the Mother-To-Child Transmission of HIV (MTCT) rate, earlier initiation of antiretroviral treatment in women in reproductive age and their HIV-infected infants with improved patient outcome.**



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✓ **Achievements:**

- i. Data from Ifakara show that since the One Stop Clinic was established the early MTCT rate for mother-infant pairs that accessed our clinic during pregnancy is as low as 2.2%, reaching the WHO goal of elimination of MTCT (<5%). This achievement is especially remarkable since the latest reported national MTCT rate is 9% (2015 Progress report on the global plan towards the elimination of new HIV infections among children and keeping their mothers alive. Joint United Nations Programme on HIV/AIDS, Geneva, Switzerland).
- ii. Since April 2014 all pregnant women living with HIV are initiated on lifelong antiretroviral treatment. Data comparing their clinical characteristics and retention in care before and after the integration of services revealed a better clinical assessment and retention in care.

The One Stop Clinic has successfully achieved the objectives we set at the beginning of the project. Moreover, the clinic has become the core of an even more comprehensive service delivery model. The clinic has been able to establish activities that were not planned initially and contribute to the improvement of the health of mothers and families in the Kilombero district. The more relevant additions are:

- Roll-out of some of the facets of the One Stop Clinic model to other health centres in the district. This is being possible with the funds obtained through the competitive grant offered by the ESTHER Switzerland Partnership Grant (<https://www.esther-switzerland.ch/>) and is done in collaboration with one of the national implementers of the UNAIDS funds 'UNAIDS Boresha Afya'.
- Participation as a site in the multi-country study *Prospective study of Lopinavir based ART for HIV Infected children Globally* (LIVING study), sponsored by the Drug for Neglected Diseases initiative (DNDi) ([www.dndi.org/2016/clinical-trials/clinical-trials-hiv/](http://www.dndi.org/2016/clinical-trials/clinical-trials-hiv/)). Through this study HIV-infected young children attended at the One Stop Clinic are receiving a new child-friendly formulation of lopinavir/ritonavir.
- Implementation of a well-functioning malnutrition prevention and treatment unit within the St Francis Referral Hospital. Given the good organization and functioning of the project and the good collaboration with the hospital and the district health authorities, the One Stop Clinic is coordinating and supervising the care and treatment of malnourished children in the district.

For the coming years, we aim to further consolidate the project and expand its activities. The main objectives of the consolidation phase of the One Stop Clinic are:



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- To focus on minority groups as adolescents and male partners of HIV-infected pregnant women. Specific activities targeting these populations can contribute to the improvement of health and wellbeing of families affected by HIV.
- To disseminate the service delivery model to other rural districts in the country. Given its good results and feasibility, the One Stop Clinic model can be implemented, in collaboration with the health authorities, to other rural areas in Tanzania.
- To strengthen the collaboration with the health authorities at a country level. The continued exchange with the local health authorities and the participation to the national meetings to improve health services will allow us to contribute to the national PMTCT task force and to participate in the decision taking of policies related to PMTCT and Paediatric HIV.

## One-Stop Clinic report: CLINICAL SERVICES

TABLE 1: HIV testing of pregnant women: n° of women starting the antenatal care / n° of women known to be HIV-infected / n° of women tested for HIV for the 1<sup>st</sup> time during pregnancy / n° of women newly diagnosed to be HIV-infected

2014	January	February	March	April	May	June	n° of HIV-infected pregnant women April – June 2014	
							Known cases	Newly diagnosed
Ifakara				153 / 1 / 223/5	194/2/215/4	168/1/141/4	4	13
Kibaoni				156/1/165/7	157/0/18/1	126/3/111/5	4	13
Mangula				131/2/75/2	124/3/108/1	101/1/92/4	6	7
Mngeta				73/0/46/0	123/4/155/1	76/0/52/2	4	3
Mlimba				310/0/137/0	171/0/171/6	147/1/153/2	1	8
Ilovo				No data	16/1/8/0	4/0/6/0	1	0
							<b>20</b>	<b>44</b>

TABLE 1: HIV testing of pregnant women: n° of women starting the antenatal care / n° of women known to be HIV-infected / n° of women tested for HIV for the 1<sup>st</sup> time during pregnancy / n° of women newly diagnosed to be HIV-infected

2014	July*	August*	September	October	November	December	n° of HIV-infected pregnant women July – December 2014	
							Known cases	Newly diagnosed
Ifakara	124/0/65/2	160/0/64/5	121/3/115/0	104/0/104/4	113/0/144/5	96/0/96/2	3	18
Kibaoni	215/0/169/4	117/0/27/0	28/0/86/5	89/1/109/8	170/0/76/5	201/0/73/0	1	22
Mangula	188/3/66/3	89/2/63/2	98/3/88/3	89/1/2/0	74/0/3/0	67/0/101/3	9	11
Mngeta	85/0/85/5	59/0/24/1	62/0/22/0	63/0/27/0	54/0/0/0	58/0/58/3	0	9
Mlimba	170/3/25/3	122/1/82/1	132/1/233/4	134/1/133/6	98/0/22/1	115/0/15/4	6	19
Ilovo	3/0/8/1	8/1/0/0	7/1/6/0	11/1/7/1	6/1/5/1	3/0/3/0	4	3
							<b>23</b>	<b>82</b>

\*During some weeks of July and August 2014 there were stock out of HIV rapid antibody tests (Determine™ and UniGold™) in the Morogoro region

TABLE 1: HIV testing of pregnant women: n° of women starting the antenatal care / n° of women known to be HIV-infected / n° of women tested for HIV for the 1<sup>st</sup> time during pregnancy / n° of women newly diagnosed to be HIV-infected

2015	January	February	March	April	May	June	n° of HIV-infected pregnant women January– June 2015	
							Known cases	Newly diagnosed
Ifakara	113/0/113/4	102/0/102/1	127/0/127/2	119/1/119/4	91/1/91/1	84/5/25/4 #	7	16
Kibaoni	121/1/66/1	87/2/65/5	108/0/85/3	125/0/60/3 #	128/5/82/3	112/0/115/6	8	21
Mangula	78/1/110/1	87/3/98/7	82/2/86/4	108/4/101/0	114/2/62/0 #	75/2/58/10	14	22
Mngeta	66/0/111/4	50/0/50/0	80/1/28/1 #	40/0/0/0 #	60/0/0/0	59/0/87/5	1	10
Mlimba	114/0/98/4	114/0/114/4	193/2/95/5	153/2/29/0 #	161/0/37/3 #	203/1/133/4	5	20
Ilovo	No data	8/0/8/0	9/0/9/0	2/0/0/0 #	6/0/6/0	2/0/2/0	0	0
							<b>35</b>	<b>89</b>

# Stock out of HIV testing kits

TABLE 1: HIV testing of pregnant women: n° of women starting the antenatal care / n° of women known to be HIV-infected / n° of women tested for HIV for the 1<sup>st</sup> time during pregnancy / n° of women newly diagnosed to be HIV-infected

2015	July	August	September	October	November	December	n° of HIV-infected pregnant women July– December 2015	
							Known cases	Newly diagnosed
Ifakara	128/1/123/4	119/2/160/1	95/2/214/3	105/1/119/4	123/0/115/1	129/5/111/2	11	15
Kibaoni	139/0/121/5	133/4/90/2	136/0/0/0 #	102/0/33/2 #	110/0/34/0#	110/3/107/0	7	9
Mangula	80/0/87/3	101/1/92/1	75/0/21/1 #	80/1/0/0 #	69/1/46/2#	92/1/92/8	4	15
Mngeta	80/3/100/5	75/0/5/0 #	75/1/72/2	63/0/19/0 #	70/1/114/2	64/0/50/5#	5	14
Mlimba	164/0/100/6	142/0/142/0	133/0/138/0	144/0/141/4	166/0/87/2#	132/1/197/14	1	26
Ilovo	8/0/8/0	6/0/0/0 #	9/2/7/0	10/0/10/1	8/0/8/0	5/0/5/0	2	1
							30	80

# Stock out of HIV testing kits

TABLE 1: a = n° of pregnant women starting antenatal care / b = n° of women known to be HIV-infected / c = n° of women tested for HIV for the 1st time during pregnancy / d = n° of women newly diagnosed to be HIV-infected

2106	January				February				March				April				May				June				n° of HIV-infected pregnant women Jan-June 2016	
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	Known	New
Ifakara	113	1	105	1	70	2	77	1	88	2	88	3	84	0	84	1	113	2	126	5	93	3	93	5	10	16
Kibaoni	165	1	118	9	133	2	112	9	140	6	140	10	171	2	137	6	178	7	167	2	166	4	162	1	22	37
Mangula	63	0	90	4	79	0	74	4	97	0	100	4	86	1	87	2	127	1	126	3	136	1	83#	2	3	19
Mngeta	74	0	99	3	71	0	50	2	87	4	123	0	53	0	0#	0	114	2	75#	2	91	1	128	4	7	11
Mlimba	195	0	145	6	139	1	139	0	166	2	126	0	138	0	0#	0	152	0	125	4	164	0	60#	3	3	13
Ilovo	13	1	13	0	9	0	9	0	9	0	9	0	7	0	7	0	8	0	8	1	12	1	11	1	2	2
																							47	98		

# Stock out of HIV testing kits

TABLE 1: a = n° of pregnant women starting antenatal care / b = n° of women known to be HIV-infected / c = n° of women tested for HIV for the 1st time during pregnancy / d = n° of women newly diagnosed to be HIV-infected

2106	July				August				September				October				November				December				n° of HIV-infected pregnant women Jul-Dec 2016	
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	Known	New
Ifakara	97	0	97	2	95	3	99	0	70	1	70	0	52	7	58	2	64	5	64	2	69	1	69	2	17	8
Kibaoni	134	1	133	3	140	3	140	4	156	3	153	4	117	1	73#	2	189	2	53#	3	57	4	172	2	14	18
Mangula	99	0	130	1	93	1	93	0	63	0	21#	0	68	1	44#	3	94	0	73	0	75	1	73	2	3	6
Mngeta	9	0	6	0	9	0	9	1	6	0	6	0	11	0	11	0	10	0	10	0	5	0	5	0	0	1
Mlimba	72	1	72	3	83	1	99	0	74	2	79	1	49	0	53	1	66	0	64	1	64	1	64	2	5	8
Ilovo	142	1	142	4	18	0	0	0	100	0	100	4	113	0	0	0	143	0	225	5	124	3	174	4	4	17
																							43	58		

# Stock out of HIV testing kits

TABLE 1: a = n° of pregnant women starting antenatal care / b = n° of women known to be HIV-infected / c = n° of women tested for HIV for the 1st time during pregnancy / d = n° of women newly diagnosed to be HIV-infected																n° of HIV-infected pregnant women										
2017	January				February				March				April				May				June				Jan-June 2017	
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	Known	New
Ifakara	89	1	89	1	70	1	70	1	91	0	91	1	295	1	295	0	119	3	119	4	76	2	74	0	8	7
Kibaoni	170	6	162	2	221	10	209	10	241	5	223	8	156	2	131	4	218	3	213	12	214	3	211	2	29	38
Mangula	96	3	43	0	107	0	108	6	73	2	81	3	94	1	93	3	125	4	121	3	102	0	102	5	10	20
Mngeta	83	1	85	1	66	0	66	1	87	2	77	1	55	0	61	1	90	3	87	3	84	0	82	5	6	12
Mlimba	221	1	143	8	127	0	127	5	151	2	149	3	74	0	78	0	205	8	192	5	160	2	160	5	13	26
Ilovo	30	1	9	0	6	0	6	0	12	0	13	0	18	0	9	0	8	0	8	0	9	0	9	1	1	1
																							67	104		

TABLE 1: a = n° of pregnant women starting antenatal care / b = n° of women known to be HIV-infected / c = n° of women tested for HIV for the 1st time during pregnancy / d = n° of women newly diagnosed to be HIV-infected																n° of HIV-infected pregnant women										
2017	July				August				September				October				November				December				Jul-Dec 2017	
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	Known	New
Ifakara	103	2	98	4	145	7	145	4	117	5	117	1	129	5	129	1	126	2	126	3	114	4	109	1	25	14
Kibaoni	147	3	147	3	216	2	214	9	164	4	160	5	129	4	125	8	129	2	127	4	114	6	108	4	21	33
Mangula	141	2	139	0	109	3	106	4	97	1	96	3	108	2	106	3	78	1	78	1	93	3	90	1	13	12
Mngeta	95	1	89	1	77	1	88	1	74	1	76	2	70	0	75	2	74	1	75	4	44	3	43	1	7	11
Mlimba	176	2	176	9	175	9	166	6	137	4	133	3	139	4	135	5	162	2	159	5	99	0	99	4	21	32
Ilovo	7	0	7	0	7	0	4	0	11	1	11	0	10	2	10	0	12	1	12	0	6	0	6	0	4	0
																							91	102		

**Table 1: Summary until December 2017**

- More than 21,000 pregnant women tested for HIV in the Kilombero district
- 1,013 HIV-infected pregnant women reached by PMTCT through the One Stop Clinic
- There has been a lot of improvement during 2017, the universal testing for HIV of pregnant women has not been challenged as much as in 2016 by the fragile chain supply of HIV testing kits.

## One-Stop Clinic report: CLINICAL services

TABLE 2: HIV-exposed infants newly enrolled in care

2014	January	February	March	April	May	June	Total n° of HIV-exposed infants newly enrolled from April – June 2014
Ifakara				12	11	22	45
Kibaoni				12	2	4	18
Mangula				5	4	3	12
Mngeta				No data	1	3	4
Mlimba				1	5	3	9
Ilovo				2	1	1	4
							<b>92</b>

TABLE 2: HIV-exposed infants newly enrolled in care

2014	July	August	September	October	November	December	Total n° of HIV-exposed infants newly enrolled from April – June 2014
Ifakara	13	7	12	22	14	7	75
Kibaoni	4	23	3	5	5	5	45
Mangula	4	1	6	4	6	2	17
Mngeta	4	5	3	2	2	0	16
Mlimba	4	7	3	2	2	4	22
Ilovo	1	1	1	2	3	4	12
							<b>187</b>

TABLE 2: HIV-exposed infants newly enrolled in care

2015	January	February	March	April	May	June	Total n° of HIV-exposed infants newly enrolled from January – June 2015
Ifakara	22	9	10	6	8	8	63
Kibaoni		16			11		27
Mangula		4			8		12
Mngeta		6			0		6
Mlimba		No data			No data		--
Ilovo		0			3		3
							<b>111</b>

Notice that from January 2015 the data on HIV-exposed infants from the peripheral facilities is provided 3-monthly

TABLE 2: HIV-exposed infants newly enrolled in care

2015	July	August	September	October	November	December	Total n° of HIV-exposed infants newly enrolled from July – December 2015
Ifakara	14	10	10		37		71
Kibaoni		16			16		32
Mangula		10			14		24
Mngeta		0			5		5
Mlimba		8			9		17
Ilovo		No data			No data		--
							<b>149</b>



TABLE 2: HIV-exposed infants newly enrolled in care							
2106	January	February	March	April	May	June	Total Jan-Jun 2016
Ifakara		24			17		41
Kibaoni		19			15		34
Mangula		9			13		22
Mngeta		7			6		13
Mlimba		12			8		20
Ilovo		3			3		6
							<b>136</b>

TABLE 2: HIV-exposed infants newly enrolled in care							
2106	July	August	September	October	November	December	Total Jul-Dec 2016
Ifakara		23			39		62
Kibaoni		22			8		30
Mangula		4			12		16
Mngeta		12			14		26
Mlimba		17			12		29
Ilovo		8			No data		8
							<b>171</b>

TABLE 2: HIV-exposed infants newly enrolled in care							
2017	January	February	March	April	May	June	Total Jan-Jun 2017
Ifakara		25			31		56
Kibaoni		14			18		32
Mangula		5			9		14
Mngeta		7			3		10
Mlimba		8			17		25
Ilovo		1			3		4
							<b>141</b>

TABLE 2: HIV-exposed infants newly enrolled in care							
2017	July	August	September	October	November	December	Total Jul-Dec 2017
Ifakara		21			48		69
Kibaoni		33			No data		33
Mangula		10			No data		10
Mngeta		5			10		15
Mlimba		7			No data		7
Ilovo		1			3		4
							<b>137</b>



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**Table 2: Summary until December 2017**

- Since the beginning of the project 1,124 infants have been recognized as HIV-exposed and offered HIV testing, co-trimoxazole prophylaxis and appropriate clinical follow-up

## One-Stop Clinic report: CLINICAL services

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2014	January	February	March	April	May	June	Total for the period April – June 2014
Number of infants tested with HIV DNA PCR *				18	13	17	43
Number of infants tested ≤ 8 weeks of age				5	11	13	29
Number of positive HIV DNA PCR results				2	2	5	9
Number of infants that have reached a final HIV diagnosis				4	1	8	13
Final diagnosis: HIV infected				0	0	5	5
Final diagnosis: HIV uninfected				4	1	3	8

\*Includes infants tested for EID and also confirmatory tests

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2014	July	August	September	October	November	December	Total for the period July – December 2014
Number of infants tested with HIV DNA PCR*	17	9	16	24	17	5	88
Number of infants tested ≤ 8 weeks of age	5	4	5	14	10	3	41
Number of positive HIV DNA PCR results	3	4	3	5	4	0	19
Number of infants that have reached a final HIV diagnosis	3	3	3	8	7	5	29
Final diagnosis: HIV infected	0	2	1	3	1	3	10
Final diagnosis: HIV uninfected	3	1	2	5	6	2	19

\*Includes infants tested for EID and also confirmatory tests

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2015	January	February	March	April	May	June	Total for the period January – June 2015
Number of infants tested with HIV DNA PCR**	21	12	11	5	8	8	65
Number of infants tested ≤ 8 weeks of age	9	3	6	4	7	4	33
Number of positive HIV DNA PCR results	3	2	1	0	1	0	7
Number of infants that have reached a final HIV diagnosis	11	11	7	6	7	5	47
Final diagnosis: HIV infected	3	2	1	0	1	0	7
Final diagnosis: HIV uninfected	8	9	6	6	6	5	40

\*\*From January 2015 we only include children tested for EID for the first time (not those tested for confirmation)



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TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2015	July	August	September	October	November	December	Total for the period July – December 2015
Number of infants tested with HIV DNA PCR	13	11	9	27			60
Number of infants tested ≤ 8 weeks of age	10	7	9	20			46
Number of positive HIV DNA PCR results	1	3	0	3			7
Number of infants that have reached a final HIV diagnosis	11	12	8	24			55
Final diagnosis: HIV infected	1	3	0	3			7
Final diagnosis: HIV uninfected	10	9	8	21			48

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2016	January	February	March	April	May	June	Total for the period January – June 2016
Number of infants tested with HIV DNA PCR	25		21				46
Number of infants tested ≤ 8 weeks of age	17		15				32
Number of positive HIV DNA PCR results	2		2				4
Number of infants that have reached a final HIV diagnosis	17		17				32
Final diagnosis: HIV infected	2		2				4
Final diagnosis: HIV uninfected	15		15				30

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2016	July	August	September	October	November	December	Total for the period July – December 2016
Number of infants tested with HIV DNA PCR	24		34				58
Number of infants tested ≤ 8 weeks of age	16		25				41
Number of positive HIV DNA PCR results	4		4				8
Number of infants that have reached a final HIV diagnosis	14		9				14
Final diagnosis: HIV infected	1		4				5
Final diagnosis: HIV uninfected	13		5				18



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TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2017	January	February	March	April	May	June	Total for the period January – June 2017
Number of infants tested with HIV DNA PCR		21			28		49
Number of infants tested ≤ 8 weeks of age		14			23		37
Number of positive HIV DNA PCR results		4			2		6
Number of infants that have reached a final HIV diagnosis		11			10		21
Final diagnosis: HIV infected		4			2		6
Final diagnosis: HIV uninfected		7			8		15

TABLE 3: Early Infant Diagnosis for HIV-exposed infants being followed-up in Ifakara

2017	July	August	September	October	November	December	Total for the period July – December 2017
Number of infants tested with HIV DNA PCR		20			41		61
Number of infants tested ≤ 8 weeks of age		16			33		49
Number of positive HIV DNA PCR results		4			5		9
Number of infants that have reached a final HIV diagnosis		30			37		67
Final diagnosis: HIV infected		4			5		9
Final diagnosis: HIV uninfected		26			32		58

Table 3: Summary until December 2017

- Since March 2014 we are able to perform pro-viral HIV DNA PCR for Early Infant Diagnosis (EID) in the Ifakara Health Institute laboratory. Previously we were using the national circuit, sending the samples to the Muhimbili National Hospital in Dar es Salaam. That circuit was often challenged by the stock out of the necessary kits to collect and store the samples and the unreliable transport of the samples and results.
- Since August 2017, the One Stop Clinic works to expand the EID testing for all the HIV-exposed infants at Kilombero district, not only the ones being attended at Ifakara. This is being possible with the funds obtained through the competitive grant offered by the ESTHER Switzerland Partnership Grant (<https://www.esther-switzerland.ch/>) and is done in collaboration with one of the national implementers of the UNAIDS funds 'UNAIDS Boresha Afya'.
- Since the beginning of the project 430 HIV-exposed infants have been enrolled in Ifakara and all have been tested for HIV either with pro-viral DNA PCR or HIV rapid test (according to the Tanzanian algorithm for testing infants < 18 months).
- By December 2017 265/430 (62%) infants have reached a final HIV diagnosis: 53/430 (12.3%) being HIV-infected and 235/430 (55%) HIV-negative. The remaining infants have a negative first HIV test but continue exposed to HIV through the breast-milk. In order to interpret these



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MTCT rates is important to understand that most of the HIV-infected infants were born from mothers that were not reached by the PMTCT program. Most of them are infants that after being admitted with symptoms are diagnosed to be HIV-exposed (and infected).

## One-Stop Clinic report: CLINICAL services

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2014	January	February	March	April	May	June	Total for the period April – June 2014
Number of newly diagnosed children				6	5	11	22

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2014	July	August	September	October	November	December	Total for the period April – June 2014
Number of newly diagnosed children	4	6	11	11	5	8	45

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2015	January	February	March	April	May	June	Total for the period January – June 2015
Number of newly diagnosed children	6	7	11	5	5	8	42

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2015	July	August	September	October	November	December	Total for the period July - December 2015
Number of newly diagnosed children	10	8	7	6	4	6	41

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2016	January	February	March	April	May	June	Total for the period January – June 2016
Number of newly diagnosed children	6	3	4	2	2	4	21

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2016	July	August	September	October	November	December	Total for the period July - December 2016
Number of newly diagnosed children	3	5	6	5	6	5	30

TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2017	January	February	March	April	May	June	Total for the period January – June 2017
Number of newly diagnosed children	3	2	4	2	3	6	20



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TABLE 4: Newly diagnosed HIV-infected children in Ifakara

2017	July	August	September	October	November	December	Total for the period July - December 2017
Number of newly diagnosed children	7	4	12	9	7	3	42

Table 4: Summary until December 2017

- Since the beginning of the project 263 HIV-infected children have been newly diagnosed and enrolled into care in Ifakara (average 5.8 children/month)
- This compares to an average of 4 children/month during the period 2010-2013
- The increase of the number of children enrolled in care in Ifakara responds to the following reasons:
  - o Diagnosis of young infants through EID
  - o Efforts of the One Stop Clinic / Chronic Diseases Clinic of Ifakara together with the St Francis Hospital administration to implement Provider-Initiated Testing and Counselling of HIV (PITC) in the paediatric and maternal wards
  - o Increase number of children diagnosed in the peripheral health facilities and referred to Ifakara due to severe illness
  - o Increased awareness among the staff with an expansion of family-centred testing using parents as index cases





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## One-Stop Clinic report: TRAINING (I)

TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

First training of the One-Stop Clinic	
Dates	2 <sup>nd</sup> – 4 <sup>th</sup> July 2014
Venue	Tanzanian Training Centre for International Health, Ifakara
Number of participants	29
Participants' job	Midwives and nurses working in RCHCs in the district: 7 Midwives working in the labour ward in SFRH: 2 Clinicians working in Obstetrics & Gynecology Department in SFRH: 2 Nurses working in Pediatrics Department in SFRH: 2 Clinicians working in Pediatrics Department in SFRH: 2 Clinicians working in CTCs in the district: 6 Nurses working in CTC in SFRH: 2 Counsellors: 2 Family planning nurse: 1 Authorities from DMO's office: 3
Number of trainers	9 (Albion Kasasa, Omary Kilume, Dolores Mpundunga, Adolphina Chale, Leila Samson, Bonaventure Lameck, Agrey Malila, Emili Letang and Anna Gamell)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	10
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	13
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 25 points)	15
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 25 points)	21

TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

Second training of the One-Stop Clinic	
Dates	22 <sup>nd</sup> – 24 <sup>th</sup> April 2015
Venue	Tanzanian Training Centre for International Health, Ifakara
Number of participants	36
Participants' job	Midwives and nurses working in RCHCs in the district: 6 Midwives working in the labour ward in SFRH: 3 Nurses working in Pediatrics Department in SFRH: 2 Clinicians working in Pediatrics Department in SFRH: 6 (including 4 intern doctors) Clinicians / nurses working in CTCs in the district: 14 Nurses working in CTC in SFRH: 1 Counsellors: 1 Representative of TUNAJALI (local implementer of PEPFAR): 1 Medical students (MD5): 2
Number of trainers	8 (Omary Kilume, Dolores Mpundunga, Adolphina Chale, Leila Samson, Bonaventure Lameck, Regina Ndaki, Emili Letang and Anna Gamell)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	10
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	11.5
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 25 points)	18
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 25 points)	19



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TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

Third training of the One-Stop Clinic	
Dates	18 <sup>th</sup> – 20 <sup>th</sup> November 2015
Venue	Tanzanian Training Centre for International Health, Ifakara
Number of participants	39
Participants' job	Midwives and nurses working in RCHCs in the district: 8 Midwives working in the labour ward in SFRH: 2 Nurses working in Pediatrics Department in SFRH: 2 Clinicians working in Pediatrics Department in SFRH: 6 (5 intern doctors) Clinicians / nurses working in CTCs in the district: 17 Representative of TUNAJALI (local implementer of PEPFAR): 1 Medical students (MD5): 1 Representatives of the District Medical Office: 2
Number of trainers	9 (Omary Kilume, Dolores Mpundunga, AdolphinaChale, Leila Samson, Bonaventure Lameck, Glory Msacky, Regina Ndaki, Emili Letang and Anna Gamell)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	10.4
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	13.4
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 30 points)	19.2
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 30 points)	24.7

TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

Forth training of the One-Stop Clinic	
Dates	20 <sup>th</sup> – 22 <sup>nd</sup> April 2016
Venue	Tanzanian Training Centre for International Health, Ifakara
Number of participants	29
Participants' job	Midwives and nurses working in RCHCs in the district: 9 Midwives working in the labour ward in SFRH: 2 Nurses working in Pediatrics Department in SFRH: 0 Clinicians working in Pediatrics Department in SFRH: 2 (intern doctors) Clinicians / nurses working in CTCs in the district: 10 Representative of TUNAJALI (local implementer of PEPFAR): 0 Medical students (MD5): 5 Representatives of the District Medical Office: 1
Number of trainers	9 (Omary Kilume, Dolores Mpundunga, AdolphinaChale, Leila Samson, Bonaventure Lameck, Ezekiel Luoga, Regina Ndaki, Gladys mbwaji, Maja Weisser)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	Missing info
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	Missing info
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 30 points)	12
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 30 points)	25

TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

Fifth training of the One-Stop Clinic	
Dates	19 <sup>th</sup> – 21 <sup>st</sup> Oct. 2016
Venue	Tanzanian Training Centre for International Health, Ifakara
Number of participants	37
Participants' job	Midwives and nurses working in RCHCs in the district: 8 Midwives working in the labour ward in SFRH: 4 Nurses working in Pediatrics Department in SFRH: 1 Clinicians working in Pediatrics Department in SFRH: 0 Clinicians / nurses working in CTCs in the district: 13 Representative of TUNAJALI (local implementer of PEPFAR): 0 Medical students (MD5): 10 Representatives of the District Medical Office: 1
Number of trainers	8 (Omary Kilume, Dolores Mpundunga, AdolphinaChale, Leila Samson, Getrud J. Mollel, Ezekiel Luoga, Stewart Mbilaulu, Maja Weisser)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	13
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	14
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 30 points)	22
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 30 points)	24



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TABLE 5: Training on PMTCT and HIV care and treatment for the health workers of the Kilombero district

Sixth training of the One-Stop Clinic	
Dates	29 <sup>th</sup> – 31 <sup>st</sup> August 2017
Venue	Ifakara Health Institute, Ifakara
Number of participants	31
Participants' job	Midwives and nurses working in RCHCs in the district: 10 Midwives working in the labour ward in SFRH: 3 Nurses working in Pediatrics Department in SFRH: 2 Clinicians working in Pediatrics Department in SFRH: 1 Clinicians / nurses working in CTCs in the district: 13 Representatives of the District Medical Office: 2
Number of trainers	8 (Dolores Mpundunga, Adolphina Chale, Leila Samson, Getrud J. Mollel, Ezekiel Luoga, Maja Weisser, Lilian Moshi, Omary Kilume)
Median punctuation of the PRE-training test among participants who are not HIV clinicians (maximum 15 points)	9
Median punctuation of the POST-training test among participants who are not HIV clinicians (maximum 15 points)	12
Median punctuation of the PRE-training test among participants who work as HIV clinicians (maximum 30 points)	14
Median punctuation of the POST-training test among participants who work as HIV clinicians (maximum 30 points)	21

Table 5: Summary until December 2017

- Until now six seminars on PMTCT and Pediatric HIV have been organized by the One Stop Clinic (July 2014, April 2015, November 2015, April 2016, October 2016 and August 2017).
- These seminars have reached over 200 health workers in the Kilombero district, the main district health authorities, and representatives of USAID in the Morogoro region.
- From the One Stop Clinic we have also developed tools to guide and facilitate health workers the management of pregnant women, mothers and children living with HIV. These job aids tools are currently being widely used in the district health facilities.



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## One-Stop Clinic report: TRAINING (II)

TABLE 6: Seminars and sessions delivered by the One-Stop Clinic team (Date, trainer, topic, audience)

April – June 2014	July – December 2014
25 <sup>th</sup> April, A Malila: Provider Initiated Testing and Counselling. Nurses working at SFRH.	4 <sup>th</sup> July, A Malila: refreshing session on Provider Initiated Testing and Counselling. Nurses working at SFRH.
23 <sup>rd</sup> May, A Malila: Provider Initiated Testing and Counselling. Clinicians working at SFRH.	11 <sup>th</sup> July, A Gamell: PMTCT and Early Infant Diagnosis of HIV. 4 <sup>th</sup> year medical students from St Francis University College of Health and Allied Sciences.
27 <sup>th</sup> May, A Gamell: Early Infant Diagnosis of HIV. Health workers of the Pediatric Department in SFRH.	26 <sup>th</sup> August, A Gamell: PMTCT overview, the One-Stop Clinic project in Ifakara. Students of the Master of International Health and Health Crisis Management from the University of Athens.
30 <sup>th</sup> May, D Mpundunga: Refreshing session on PMTCT B+. Nurses working at SFRH.	10 <sup>th</sup> October, L B Luwanda: Diagnosis, care and treatment of Paediatric HIV/TB co-infection. Clinicians working at SFRH.
12 <sup>th</sup> June, A Gamell: Early Infant Diagnosis of HIV, circuit in Ifakara. CDCI clinicians, nurses and lab staff.	21 <sup>st</sup> November, L Samson: HIV testing and counselling, how to offer, tet and give the results. Clinicians working at SFRH.

TABLE 6: Seminars and sessions delivered by the One-Stop Clinic team (Date, trainer, topic, audience)

January – June 2015	July – December 2015
21 <sup>st</sup> January, A Gamell: discussion of the paper <i>Drug Resistances Among Newly Diagnosed HIV-infected Children in the Era of More Efficacious Antiretroviral Prophylaxis</i> published in AIDS by Khun et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	8 <sup>th</sup> July, L B Luwanda: discussion of the paper <i>Efficacy of WHO recommendation for continued breastfeeding and maternal cART for prevention of perinatal and postnatal HIV transmission in Zambia</i> published in JIAS by Ngoma et al. in the Journal Club session in the Chronic Diseases Clinic of Ifakara.
4 <sup>th</sup> March, L B Luwanda: discussion of the paper <i>Disengagement of HIV-positive Pregnant and Postpartum Women from Antiretroviral Therapy Services</i> published in JIAS by Philips et al. in the Journal Club session in the Chronic Diseases Clinic of Ifakara.	12 <sup>th</sup> August: session on Provider Initiated Testing and Counselling of HIV to the nurses in charge of the different wards in St Francis Referral Hospital.
10 <sup>th</sup> April, A Gamell: session on Early Infant Diagnosis to all clinicians working at St Francis Referral Hospital.	14 <sup>th</sup> August, A Gamell: session on Early Infant Diagnosis of HIV to all clinicians working at St Francis Referral Hospital.
31 <sup>st</sup> May, L B Luwanda: seminar to medical students from St Francis University of Health and Allied Sciences (MD1 – MD5) about HIV and PMTCT as public health topics in Tanzania.	16 <sup>th</sup> September: meeting with the nurses who attended the meeting on 12 <sup>th</sup> August to discuss the challenges encountered when implementing PITC
8 <sup>th</sup> June, L Muri: session to the clinicians, counsellors and lab staff of the Chronic Diseases Clinic of Ifakara on acquired ARV-associated drug resistance mutation in children.	17 <sup>th</sup> September, G Msacky: session to update all clinicians working at the Chronic Diseases Clinic of Ifakara on the latest national recommendations regarding Paediatric HIV.
10 <sup>th</sup> June, A Gamell: discussion of the paper <i>Long-term Virologic Response and Genotypic Resistance Mutations in HIV-1 Infected Kenyan Children on Combination Antiretroviral Therapy</i> published at JAIDS by Wamalwa et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	7 <sup>th</sup> October, G Msacky: discussion of the paper <i>Factors associated with the development of drug resistance mutations in HIV-1 infected children failing protease inhibitor-based antiretroviral therapy in South Africa</i> published in Plos One by Rossouw et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara
12 <sup>th</sup> June, L Samson: session on Provider Initiated Testing and Counselling of HIV to all clinicians working at St Francis Referral Hospital.	16 <sup>th</sup> October, L Samson: session on how to screen for gender based violence and violence against children to all clinicians working at St Francis Referral Hospital.
	11 <sup>th</sup> November, A Gamell: discussion of the paper <i>Abacavir, zidovudine, or stavudine as paediatric tablets for African HIV-infected children (CHAPAS-3): an open-label, parallel-group randomised controlled trial</i> published in Lancet Infectious Diseases by Mulenga et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.
	25 <sup>th</sup> November, L B Luwanda: discussion of the paper <i>The impact of Option B+ on the antenatal PMTCT cascade in Lilongwe, Malawi</i> published in JAIDS by Kim et al. in the Journal Club session in the Chronic Diseases Clinic of Ifakara.



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TABLE 6: Seminars and sessions delivered by the One-Stop Clinic team (Date, trainer, topic, audience)

January – June 2016	July – December 2016
18 <sup>th</sup> May, E Luoga: discussion of the paper <i>Integrated prevention of mother-to-child HIV transmission services, antiretroviral therapy initiation, and maternal and infant retention in care in rural north-central Nigeria: a cluster-randomised controlled trial</i> published at Lancet HIV by Aliyu et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	13 <sup>th</sup> July, L. Samson: discussion of paper <i>Exposure to violence and psychological well-being over time in children affected by HIV/AIDS in South Africa and Malawi</i> published at AIDS Care by Skeen et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.
	13 <sup>th</sup> July, L. Luwanda: : discussion of paper <i>Access to HIV care in the context of universal test and treat: challenges within ANRS 12249 TasP cluster-randomized trial in rural South Africa</i> published at JIAS by Plazy et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.
7 <sup>th</sup> March, L. Luwanda: session to the clinicians, nurses and counsellors of the Chronic Diseases Clinic of Ifakara about "Antiretroviral mechanisms and pediatric treatment guidelines"	24 <sup>th</sup> August, E. Luoga: discussion of paper <i>Early Tracing of Children Lost to Follow-Up From Antiretroviral Treatment: True Outcomes and Future Risks</i> published at JAIDS by Ardura-Garcia et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.
	8 <sup>th</sup> September, E. Luoga: discussion of the study protocol <i>Prospective study of Lopinavir based ART for HIVinfected children Globally(LIVING study)</i> at the ART committee of the Chronic Diseases Clinic of Ifakara
	7 <sup>th</sup> December, L. Samson: discussion of paper <i>Contributions of Disease severity, Psychosocial Factors, and Cognition to Behavioral Functioning in US Youth Perinatally Exposed to HIV</i> published at AIDS Behav. by Hermetet-Lindsay et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.

TABLE 6: Seminars and sessions delivered by the One-Stop Clinic team (Date, trainer, topic, audience)

January – June 2017	July – December 2017
17 <sup>th</sup> January, E Luoga: discussion of the paper: <i>Frequency of Viremic Episodes in HIV-Infected Women Initiating Antiretroviral Therapy During Pregnancy: A Cohort Study</i> published at CID by Landon Myer et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	6 <sup>th</sup> September, E. Luoga: discussion of the paper: <i>Maternal and Breastmilk Viral Load: Impacts of Adherence on Peripartum HIV Infections Averted—The Breastfeeding, Antiretrovirals, and Nutrition Study</i> published at JAIDS by Nicole L. Davis et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara
5 <sup>th</sup> April, G.J. Mollel: discussion of the paper: <i>Relationship between time to initiation of ART and treatment outcomes; A Cohort analysis of ART eligible adolescents in Zimbabwe</i> published at JAIDS by Florian Vogt et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	4 <sup>th</sup> October, G.J. Mollel: discussion of the paper: <i>Enhanced prophylaxis plus Antiretroviral therapy for advanced HIV in Africa</i> published at NEJM by Hakim et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara
3 <sup>rd</sup> May, L.S. Moshi: discussion of the paper: <i>Survival Outcomes in a Pediatric Antiretroviral Treatment Cohort in Southern Malawi</i> published at PlosOne by Brophy et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara.	18 <sup>th</sup> October, L. Samson: discussion of the paper <i>Caretakers' barriers to pediatric antiretroviral therapy adherence in Vietnam-A qualitative and quantitative study</i> published at Applied Nursing Research by Tran et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara
24 <sup>th</sup> July: L.S. Moshi: Project presentation at Kilombero district and USAID Boresha Afya Authorities: <i>Care of HIV infected mothers and their infant in rural district Tanzania.</i>	20 <sup>th</sup> December, E Luoga: discussion of the paper <i>Benefits and Risks of Antiretroviral Therapy for Perinatal HIV Prevention</i> published at NEJM by Fowler et al. at the Journal Club session in the Chronic Diseases Clinic of Ifakara

### Table 6: Summary until December 2017

- From the One Stop Clinic we organize sessions to raise awareness about PMTCT and Paediatric HIV among the health workers in the St Francis Hospital, including nurses, clinical officers, assistant medical officers, doctors, pharmacists, and laboratory technicians.
- Also sessions are organized within the Chronic Diseases Clinic of Ifakara to further improve the knowledge on PMTCT and Paediatric HIV of all the clinic staff.

# One-Stop Clinic report: AWARENESS and COUNSELING

TABLE 7: Awareness and counselling activities

Activities to raise awareness among health workers	<ul style="list-style-type: none"> <li>- 16<sup>th</sup> May 2014: launching event of the One-Stop Clinic project</li> <li>- Monthly calls to the peripheral CTCs and RCHCs</li> </ul>
Activities to raise awareness in the community	<ul style="list-style-type: none"> <li>- Radio programmes: <ul style="list-style-type: none"> <li>- 13<sup>th</sup> July 2014: Introduction of the OSC for the community</li> <li>- 20<sup>th</sup> July 2014: Services offered by the OSC</li> <li>- 17<sup>th</sup> August 2014: HIV and stigma</li> <li>- 21<sup>st</sup> September 2014: TB and HIV infections in children</li> <li>- 19<sup>th</sup> October 2014: antiretroviral treatment and adherence</li> <li>- 16<sup>th</sup> November 2014: Post-exposure prophylaxis</li> <li>- 7<sup>th</sup> March 2015: Adherence to Antiretroviral Therapy (I)</li> <li>- 21<sup>st</sup> March 2015: Adherence to Antiretroviral Therapy (II)</li> <li>- 5<sup>th</sup> April 2015: Mental Health Problems in People Living with HIV(I)</li> <li>- 19<sup>th</sup> April 2015: Mental Health Problems in People Living with HIV(II)</li> <li>- 24<sup>th</sup> April 2015: interviews to the participants of the Second Training of The One-Stop Clinic</li> <li>- 10<sup>th</sup> May 2015: Nutrition and People Living with HIV (I)</li> <li>- 24<sup>th</sup> May 2015: Nutrition and People Living with HIV (II)</li> <li>- 20<sup>th</sup> Nov 2015: Prevention of Mother to child transmission of HIV</li> <li>- 27<sup>th</sup> Nov 2016: 2016 World AIDS day event in Ifakara town and "Test and Treat" in HIV care</li> <li>- 4<sup>th</sup> Dec 2016: HIV Post Exposure Prophylaxis</li> <li>- 18<sup>th</sup> Dec 2016: Adherence to Antiretroviral treatment</li> <li>- 29<sup>th</sup> Jan 2017: HIV in children</li> <li>- 12<sup>th</sup> Feb 2017: HIV associated stigma</li> <li>- 26<sup>th</sup> Feb 2017: Adherence to ART, in the context of "test and treat"</li> <li>- 5<sup>th</sup> March 2017: open session "Questions and Answers"</li> <li>- 15<sup>th</sup> October 2017: Relationship between adherence to ART and virological outcomes, causes of viral failure.</li> <li>- 22<sup>nd</sup> October 2017: Questions and answers on viral outcomes</li> <li>- 29<sup>th</sup> October 2017: Gender-based violence and HIV/AIDS</li> <li>- 10<sup>th</sup> November 2017: Mental health and HIV/AIDS</li> <li>- 3<sup>rd</sup> December 2017: Kidney failure and HIV disease</li> <li>- 10<sup>th</sup> December 2017: open session "Questions and Answers"</li> <li>- The One Stop Clinic continues to offer HIV education radio programmes</li> </ul> </li> <li>- 1<sup>st</sup> December 2014: World AIDS Day event in Ifakara</li> <li>- HIV an sexual and reproductive education at the Mlabani secondary school: <ul style="list-style-type: none"> <li>- 3<sup>rd</sup> August 2015: firs meeting with the students to introduce the topics and ask for their preferences</li> <li>- 14<sup>th</sup> August 2015: session on general knowledge of HIV</li> <li>- 21<sup>st</sup> August: session on self-awareness and self-understanding</li> <li>- 28<sup>th</sup> August 2015: how to develop your self esteem</li> <li>- Session were interrupted due to the exams and inter-school sports competition in September and pending to be resumed in January 2016 (probably in collaboration with the St Francis University of Health students)</li> </ul> </li> <li>- 27<sup>th</sup> June 2015: gathering with the Ifakara wards' leaders to raise awareness about HIV/AIDS and harmonize the general knowledge on HIV/AIDS.</li> <li>- 1<sup>st</sup> December 2015: World AIDS Day event in Ifakara. It was planned but cancelled due to acholera outbreak</li> <li>- 1<sup>st</sup> December 2016: World AIDS Day event in Ifakara</li> <li>- 1<sup>st</sup> December 2017: HIV testing campaign at the district prisons of Kiberege and Idete</li> </ul>
New counselling activities implemented in the One-Stop Clinic	<ul style="list-style-type: none"> <li>- Quick pre-ART sessions for HIV-infected pregnant women</li> <li>- Counselling and testing of the male partners of newly diagnosed pregnant women</li> <li>- Individual and group counselling for mothers of HIV-exposed infants</li> <li>- Adherence counselling to HIV-infected mothers and children</li> <li>- Individual and group sessions to disclose the HIV serostatus to children</li> <li>- Promotion of HIV testing to family members</li> <li>- Nutritional counselling to pregnant and breastfeeding mothers</li> <li>- Nutritional counselling for HIV-exposed infants</li> <li>- Screening and awareness of gender based violence (GBV) and violence against children (VAC)</li> </ul>
Activities to	<ul style="list-style-type: none"> <li>- 13<sup>th</sup> December 2014: first "club" for HIV-infected children and their caregivers was held</li> </ul>



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<b>empower HIV- infected mothers and children and their families</b>	<ul style="list-style-type: none"><li>- 15<sup>th</sup> August 2015: seminar to the caregivers of HIV-infected children (&gt; 6 years) on when and how to disclose children.</li><li>- 12<sup>th</sup> December 2015: event for the HIV-infected children (&gt; 6 years) and teenagers of the One Stop Clinic (games to reinforce self-esteem, teenagers sharing experiences, etc). It was planned but cancelled due to a cholera outbreak</li><li>- 6<sup>th</sup> February 2016 : event for the HIV-infected children (&gt; 6 years) and teenagers of the One Stop Clinic (games to reinforce self-esteem, teenagers sharing experiences, etc)</li><li>- 4<sup>th</sup> June 2016: seminar for pregnant women and mothers with 0-5 years children on PMTCT , family planning and care for HIV-exposed infants</li><li>- 10<sup>th</sup> September 2016: Seminar to parents and care givers of HIV-infected children (aged 6-18 years) attending the One Stop Clinic: parents shared the challenges for caring the children and received counseling on how to disclose, nutritional supply and were encouraged to support children on their future career</li><li>- 10<sup>th</sup> December 2016: event for the HIV-infected children (&gt; 6 years) and teenagers of the One Stop Clinic (games to reinforce self-esteem, adherence to medications, teenagers sharing experiences)</li><li>- 9<sup>th</sup> September 2017: Seminar to parents and caregivers of HIV-infected children (aged 6-18 years) attending the One Stop Clinic: parents learned about the epidemiology of HIV and sexual transmitted diseases, HIV and puberty and stigma. They also shared the challenges for caring the children and received counseling on how to disclose, nutritional supply and were encouraged to support children on their future career.</li><li>- 2<sup>nd</sup> December 2017: awareness event about PMTCT and HIV-exposed infants' care at Kibaoni RCH for pregnant and breastfeeding women and their male partners.</li><li>- 9<sup>th</sup> December 2017: event for the HIV-infected children (&gt; 6 years) and teenagers of the One Stop Clinic (games to reinforce self-esteem, teenagers sharing experiences).</li></ul>
<b>Counselling and testing activities in the community</b>	<ul style="list-style-type: none"><li>- 4<sup>th</sup> September 2014: Counselling and testing in the Nodicef Orphanage in Ifakara (27 children living in the orphanage and 3 workers were counselled and tested).</li><li>- 1<sup>st</sup> December 2014: during the World AIDS Day event HIV testing was offered</li><li>- 1<sup>st</sup> December 2016: during the World AIDS Day event HIV testing was offered</li><li>- 1<sup>st</sup> December 2017: HIV testing campaign at the district prisons of Kiberege and Idete</li></ul>
<b>Dissemination of The One-Stop Clinic project / Other activities</b>	<ul style="list-style-type: none"><li>- 8<sup>th</sup> September 2014: presentation of the One-Stop Clinic project to representatives of the NACP visiting Ifakara.</li><li>- 7<sup>th</sup> April 2015: presentation of the One-Stop Clinic to a group of eight Swiss parliamentarians visiting Tanzania and the Ifakara Health Institute.</li><li>- 22<sup>nd</sup> May 2015: presentation of the One-Stop Clinic project at the <i>Hospital Sant Jon a de Déu</i>, main paediatric hospital in Barcelona</li><li>- 29<sup>th</sup> May 2015: presentation of the One-Stop Clinic to the staff working in the Division of Infectious Diseases and Hospital Epidemiology at the University Hospital in Basel.</li><li>- 8<sup>th</sup>-9<sup>th</sup> June 2015: visit to the One Stop Clinic of a team of USAID supervising the PMTCT program in Tanzania</li><li>- 18-19<sup>th</sup> June 2015: oral presentation about the One-Stop Clinic at the <b>First Tanzanian Forum to Accelerate Pediatric HIV/AIDS Care</b> (Dar es Salaam, Mlimany City Conference Centre).</li><li>- 3<sup>rd</sup> August 2015: publication of the manuscript <i>Disseminated tuberculosis in an HIV-infected child: rifampicin resistance detected by GeneXpert in a lymph node aspirate but not in cerebrospinal fluid</i> by Gamell et al. at <b>BMJ Case Reports</b> (<a href="http://casereports.bmj.com/content/2015/bcr-2014-207997.long">http://casereports.bmj.com/content/2015/bcr-2014-207997.long</a>)</li><li>- 6-10<sup>th</sup> September 2015: oral presentation "The One-Stop Clinic of Ifakara: a model for integration of Prevention of Mother-To-Child Transmission and Pediatric HIV services" at the <b>9<sup>th</sup> European Conference on Tropical Medicine and International Health</b> (Basel, Switzerland)</li><li>- 21-24<sup>th</sup> October 2015: poster " The One Stop Clinic of Ifakara: implementing a bundle of measures for paediatric HIV Services in rural Africa to reach the UNAIDS' target "90-90-90"" presented at the <b>15<sup>th</sup> European AIDS Conference</b> (Barcelona, Spain)</li><li>- 28<sup>th</sup> October 2015: Presentation of the One Stop Clinic project at the Barcelona Institute of Global Health (ISGlobal)</li><li>- 17<sup>th</sup> December 2015: publication of the manuscript <i>A Case Series of Acquired Drug Resistance-Associated Mutations in Human Immunodeficiency Virus-Infected Children: An Emerging Public Health Concern in Rural Africa</i> by Gamell et al. at <b>Open Forum Infect Dis</b> (<a href="https://academic.oup.com/ofid/article/3/1/ofv199/2460550?searchresult=1">https://academic.oup.com/ofid/article/3/1/ofv199/2460550?searchresult=1</a>)</li><li>- 23-24<sup>th</sup> June 2016: oral presentation of the preliminary results of the study "Uptake of PMTCT Option B+ guidelines in a rural Tanzanian hospital with integrated health services" at the <b>4<sup>th</sup> Muhimbili University of Health and Allied Sciences Scientific Conference</b> (Dar Es Salaam, Tanzania)</li><li>- 30<sup>th</sup> June: oral presentation "The One Stop Clinic of Ifakara: a model for integration of PMTCT and paediatric HIV services" at the <b>1<sup>st</sup> National Meeting Day – Health Services Delivery Innovations in the Periphery: Towards Health Systems strengthening</b> (Dar es Salaam, Tanzania)</li><li>- 30<sup>th</sup> June 2016: oral presentation "Option B+ PMTCT cascade in rural Tanzania" at the <b>1<sup>st</sup> National Meeting Day – Health Services Delivery Innovations in the Periphery: Towards Health Systems strengthening</b> (Dar es Salaam, Tanzania)</li><li>- 12<sup>th</sup> October 2016: presentation of One Stop Clinic to the Chief Medical Officer of Tanzania</li><li>- 15<sup>th</sup> November 2016: launch of the trailer of the documentary "the positive kids", filmed in Ifakara with participation of the One Stop Clinic (<a href="http://thepositivekids.org/">http://thepositivekids.org/</a>)</li><li>- 15<sup>th</sup> December 2016: publication of the manuscript <i>An Integrated and Comprehensive Service Delivery Model to Improve Pediatric and Maternal HIV Care in Rural Africa</i> by Gamell et al. at <b>JAIDS</b> (<a href="http://journals.lww.com/jaids/Fulltext/2016/12150/Implementation_and_Operational_Research_An.8.aspx">http://journals.lww.com/jaids/Fulltext/2016/12150/Implementation_and_Operational_Research_An.8.aspx</a>)</li><li>- 2<sup>nd</sup> January 2017: publication of the manuscript <i>Development of HIV drug resistance and therapeutic failure in children</i></li></ul>



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and adolescents in rural Tanzania: an emerging public health concern by Muri et al. at **AIDS** ([https://journals.lww.com/aidsonline/Fulltext/2017/01020/Development\\_of\\_HIV\\_drug\\_resistance\\_and\\_therapeutic.7.aspx](https://journals.lww.com/aidsonline/Fulltext/2017/01020/Development_of_HIV_drug_resistance_and_therapeutic.7.aspx))

- 12<sup>th</sup> July 2017: publication of the manuscript *Prevention of mother-to-child transmission of HIV Option B+ cascade in rural Tanzania: the One Stop Clinic model* by Gamell et al. at **Plos One** (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0181096>)
- 4<sup>th</sup> September 2017: defense of the PhD thesis on Epidemiology and Public Health at the University of Basel entitled *Providing better care to HIV HIV-infected pregnant women, children and their families in a rural sub-Saharan African clinic* by Anna Gamell
- 7-11<sup>th</sup> September 2017: One Stop Clinic representative participation in **EACS HIV Summer School** (Montpellier, France)
- 25-27<sup>th</sup> October 2017: oral presentation of the results of the study "HIV transmission from mothers on antiretroviral therapy to their infants during breastfeeding in rural Tanzania" at the **16<sup>th</sup> European AIDS Conference** (Milan, Italy)

**Table 7: Summary until December 2017**

- In the One Stop Clinic we are aware of the challenges that families affected by HIV face. Providing care to these families goes beyond prescribing drugs and we deliver a comprehensive package of medical, social and psychological care.
  - o The counsellor and psychologist of One Stop Clinic, together with the rest of the team, has organized and is responsible for the following activities:
    - HIV testing of families
    - Counselling to HIV-infected pregnant women and their male partners and relatives
    - Disclosure of the HIV status to HIV-infected children adapted to the knowledge and the child's and family's readiness. These sessions are performed individually, with family members or with children of similar age and HIV knowledge.
    - Pre- and post-test counselling, adherence counselling
    - Screening of gender-based violence and violence against children
    - Conflict management
    - Psychological support in cases of loss of beloved ones
  - o Beyond the counselling activities in the clinic, the One Stop Clinic organizes:
    - Seminars for the caregivers of HIV-infected children
    - Seminars for HIV-infected pregnant and breastfeeding women and their male partners
    - Meetings with the community leaders to discuss about HIV/AIDS, stigma and false beliefs
- The One Stop Clinic, its functioning and the outcomes achieved have been disseminated to the health authorities in the country but also in different national and international scientific conferences.



