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Costs of Digital Adherence Technologies for Tuberculosis Treatment Support, 2018– 2021

Appendix

99DOTS tool and data

Appendix Table 1. Costing tool - 99DOTS

Cost components	Details/Formula *
Project and respondent information	
1. Name of the project	Text
2. Country	Text
3. Name of respondent	Text
4. Position of respondent	Text
5. e-mail of respondent	Text
6. Phone	Text
7. Local currency used in the country	Text
8. Date the questionnaire was filled	YYYY - MM - DD
9. Was anything donated to the project? (e.g., equipment, technical support, training sessions offered as	Yes, No
donations, etc.)	
10. List detailed items and services that were donated to the project	Text
Population	
I. Number of patients who used 99DOTS during the project	Ν
a) Phone and accessories	For patients
A1. Number of phones that were purchased	N
A2. Unit cost of phone purchased	\$
A3. Number of SIM cards that were purchased	N
A4. Unit cost of SIM card	\$
A5. Number of charger or solar batteries that were purchased	Ν
A6. Unit cost of charger or solar batteries	\$
A7. Number of phone lines provided with airtime	N
A8. Total cost for airtime per phone line for the entire duration of the project	\$
A9. Total cost of phones (includes phone, SIM card and airtime)	(A1*A2) + (A3*A4) +
	(A5*A6) + (A7*A8)
Per patient cost for phone and accessories	A9/I
b) Platform / infrastructure costs	
B1. Initial configuration/customization costs (setting up phonelines and or platform at sites)	\$
B2. Type of configuration (portable, toll-free or SMS)	Text
B3. Total fixed cost of renting toll free phone lines / SMS line or any other system used to support	\$
99DOTS platform for the entire duration of the project	
Per patient fixed cost of the platform/infrastructure	(B1 + B3)/I
c) Medication sleeves	
C1. Total cost of 99DOTS medication sleeve printing (including secondary packaging, labels, etc.)	\$
C2. Total cost for shipping of 99DOTS medication sleeves (including customs, etc.)	\$
Per patient cost for medication sleeves	(C1+C2)/I
d) Medication Preparation	
D1. Typical amount of time to wrap and prepare one medication medication sleeve (in minutes)	Minutes
D2. Type of staff wrapping medication	Job Category
DZ. Type of Stall wrapping medication	
D3. Wage of staff (per hour)	\$

DS. Number of medication sleeves regulared per patient for the entire duration of treatment DN 0.9 9DDTS Calis/SMS costs 1 E1. Average number of calis/SMS made by a patient to 99DDTS \$ 2.3. Per patient calis/SMS is made by a patient to 99DDTS \$ 2.4. Average number of calis/SMS made by a patient to 99DDTS \$ E4. Average number of calis/SMS made by a patient to 99DDTS \$ E5. Per patient calis/SMS 19DDTS califorment curation of treatment E4/E5 E6. per patient cost of 90DDTS adherence reminders for the entire duration of treatment E4/E5 Total per patient cost (T ONAD FROM 90DDTS synth calif/SMS for entire duration of treatment E5/E5/E5 7.1. Type of HCW who does adherence monitoring by HCW wing 95DDTS platform Job Category 7.3. Typical amount of time (in min) spant by HCW monitoring adherence on the platform per patient N (4) Atherence monitoring by HCW lasing stopDCTS platform F3/F2/80 (3) A mount spent for talf working on data management for 93DOTS platform \$ (4) Atherence monitoring by enter the technical support \$ (3) A mount spent for talf working on data management for 93DOTS platform \$ (4) A total cost of days of the technical support to 22/C3 \$ (6) Paynent	Cost components	Details/Formula *
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I3.1 Number of Category 3 trained N	I2.5 Total cost for training all HCW in category 2	
	3 rd Category of HCW trained	Job Category 3
13.2 Typical amount of time for training (in minutes) (per HCW in category 3) Minutes		

Cost components		Details/Formula *
I3.3 Total time in minutes for training all H	CW in category 3	13.1*13.2
I3.4 HCW wage (per hour) (category 3)		\$
13.5 Total cost for training all HCW in cate	gory 3	13.3*13.4/60
I4. Total cost for training		11.5 + 12.5 +13.5
Per patient training cost		4/
j) Additional training costs (Trainer costs)		
Choose the training scenario for your project		
Scenario I: training was provided by individuals		
, , , , ,	ding the training sessions for HCW on how to use the	Job category (trainer)
99DOTS		
	on training (including preparation and delivery) (in hours)	Hours
J3. Approximate hourly salary of someone do	oing training (trainer)	\$
J4. Number of trainers		N
J5. Total trainers' wage directly related to 99		J2*J3*J4
Scenario II: training was conducted by an outsid	de organization or paid as a package	
J6. Total trainers' cost		\$
	g (including travel, training venue, subsistence for trainers	\$
	ry paid to trainers or trainees)? Specify in column C and	
enter the cost in column C		
Per patient cost of running training sessions (no	ot including time for HCW who are being trained)	IF Scenario I: (J5 + J7)/III
		IF Scenario II: (J6 +
		J7)/III
Total per patient cost for 99DOTS is the SUM	Per patient cost for phone and access	ories
of the following categories	Per patient fixed cost of the platform/infras	structure
	Per patient cost for medication sleev	/es
	Per patient preparation cost for entire duration	of treatment
	Total per patient cost (TO AND FROM) 99DOTS syste	m call/SMS for entire
	duration of treatment	
	Per patient cost of 99DOTS adherence me	onitoring
	Per patient cost for Systems, Data management and	
	Per patient cost for escalation activity	ity
	Per patient training cost	
	Per patient cost of running training sessions (not including	g time for HCW who are
	being trained)	
*Testin blue badiestes selevistes dificiale. N Numerais		

*Text in blue Indicates calculated fields. N = Numeric.

Appendix Table 2. Cost components for 99DOTS across the three study populations

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Cost components	Bangladesh	Philippines	Tanzania
Population			
I. Number of patients who used 99DOTS during the project	719	396	976
a) Phone and accessories			
A1. Number of phones that were purchased	22	0	0
A2. Unit cost of phone purchased	\$354.58	\$0	\$0
A3. Number of SIM cards that were purchased	22	296	0
A4. Unit cost of SIM card	\$11.79	\$1.00	-
A5. Number of charger or solar batteries that were purchased	0	0	0
A6. Unit cost of charger or solar batteries	\$0.00	-	-
A7. Number of phone lines provided with airtime	10	0	0
A8. Total cost for airtime per phone line for the entire duration of the project	\$70.74	-	-
A9. Total cost of phones (includes phone, SIM card and airtime)	\$8,767.63	\$296.00	-
Per patient cost for phone and accessories	\$12.19	\$0.75	-
b) Platform / infrastructure costs			
B1. Initial configuration/customization costs (setting up phonelines and or platform at	\$ 10,304.5	\$ 13,000.0	\$8,736.3
sites)			
B2. Type of configuration (portable, toll-free or SMS)	-	toll-free SMS	-
B3. Total fixed cost of renting toll free phone lines / SMS line or any other system used to support 99DOTS	\$4,467.2	\$901.3	\$1,772.8
Per patient fixed cost of the platform/infrastructure	\$20.54	\$35.10	\$10.77
 c) Medication sleeves C1. Total cost of 99DOTS medication sleeve printing (including secondary packaging, labels, etc.) 	\$4,922.33	\$13,000	\$3,628
C2. Total cost for shipping of 99DOTS medication sleeves (including customs, etc.) Per patient cost for medication sleeves	\$70.74 \$ 6.94	\$370.00 \$33.76	\$6,120.00 \$9.99

(f) Medication Preparation 2 1 1 D1. Typical amount of time to wrap and prepare one medication sleeve (in minutes) 2 1 1 D2. Type of staff wrapping medication Research TB nurse Nurse D3. Wage of staff (per hour) 81.36 \$1.59 \$1.09 \$0.05 \$0.05 \$0.05 \$0.05 \$0.02 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.01 \$0.03 \$0.04 <	Cast componente	Pangladaah	The	Tonzonio
D1. Typical amount of time to wrap and prepare one medication sleeve (in minutes) 2 1 1 D2. Typical attriw wrapping matching of the problem of the prob	Cost components d) Medication Preparation	Danyiauesn	Fillippines	Tanzania
D2. Type of staff wrapping medication Research TB nurse Nurse D3. Wage of staff (per hour) Staff (per hour) Staff Staff Staff D4. Cost of labor for wrapping per medication sleeve (Total time for wrapping an medication sleeve) Staff		2	1	1
D3. Wage of staff (per hour) \$1.36 <				
D4 Cost of labor for wrapping per medication sleeve (Total time for wrapping an medication sleeve) \$0.05 \$0.03 \$0.02 D5. Number of medication sleeves required per patient for the entire duration of reatment \$1.58 \$0.44 \$0.44 Per patient preparation cost for entire duration of treatment \$1.58 \$0.04 \$0.04 S0.9007T5 Califies/NSX costs \$0.00 \$0.01 \$0.03 \$0.01 E1. Average number of calif/SMS made by a patient to 99DOTS \$0.00 \$0.01 \$0.03 E3. Per patient calif/SMS begots \$0.001 \$0.03 \$0.01 \$0.03 E3. Per patient calif/SMS begots \$0.01 \$0.03 \$0.01 \$0.03 E4. Average number (per patient) of 99DOTS set of the entire duration of treatment \$0.59 \$0.42 \$5.70 E1. prop of HCW who does adherence monitoring using 99DOTS platform \$1.36 \$1.59 \$1.09 F1. Type of HCW who does adherence monitoring using 99DOTS platform \$1.490.01 \$1.33.6 \$1.09 F2. HCW wage (per hour) \$1.38 \$1.69 \$1.09 \$1.33.6 \$1.09 F3. Typical amount of time (in min) spent by HCW monitoring adherence on the platform \$1.490.01 \$1.490.01 \$1.59.4 \$1.59.4 \$1.490.01 \$1.59.4 \$1.60 \$2.62.42 \$3.07 \$3.07 \$3.03 <td< td=""><td></td><td></td><td></td><td></td></td<>				
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I1.1 Number of Category 1 trained 7 5 29		_		_
		Research	TB nurse	
I1.2 Typical amount of time for training (in minutes) (per HCW in category 1) 1,440 300 600		-	5	29
	I1.2 Typical amount of time for training (in minutes) (per HCW in category 1)	1,440	300	600

		The	
Cost components	Bangladesh	Philippines	Tanzania
11.3 Total time in minutes for training all HCW in category 1	10,080	1,500	17,400
I1.4 HCW wage (per hour)	\$1.36	\$1.59	\$2.40
I1.5 Total cost for training all HCW in category 1	\$227.78	\$39.75	\$696.00
2 nd Category of HCW trained	volunteer	Midwife	Clinicians
I2.1 Number of Category 2 trained	0	2	16
I2.2 Typical amount of time for training (in minutes) (per HCW in category 2)	0	300	600
I2.3 Total time in minutes for training all HCW in category 2	-	600	9,600
I2.4 HCW wage (per hour) (category 2)	-	\$1.20	\$1.09
I2.5 Total cost for training all HCW in category 2	-	\$720.00	\$10,464
Category of HCW trained	Research	TB Doctor	Nurses
I3.1 Number of Category 3 trained	1	3	56
I3.2 Typical amount of time for training (in minutes) (per HCW in category 3)	1,440	300	600
I3.3 Total time in minutes for training all HCW in category 3	1,440	900	33,600
I3.4 HCW wage (per hour) (category 3)	\$3.12	\$3.27	\$1.09
13.5 Total cost for training all HCW in category 3	\$4,499.06	\$2,943.00	\$36,624
I4. Total cost for training	\$4,726.85	\$3,702.75	\$47,784
Per patient training cost	\$6.57	\$9.35	\$48.96
j) Additional training costs (Trainer costs)			
Choose the training scenario for your project	Scenario I	Scenario I& II	Scenario II
Scenario I: training was provided by individuals who were paid for each training session			
J1. Most common job category of staff providing the training sessions for HCW on how to use the 99DOTS	Research	IT	-
J2. Typical amount of time spent by a trainer on training (including preparation and delivery) (in hours)	40	240	-
J3. Approximate hourly salary of someone doing training (trainer)	\$25.35	\$6.00	-
J4. Number of trainers	6	3	-
J5. Total trainers' wage directly related to 99DOTS training	\$6,083.64	\$4,320.00	-
Scenario II: training was conducted by an outside organization or paid as a package	<i></i>	¢ 1,020100	
J6. Total trainers' cost	-	\$144.00	-
J7. Additional expenditures related to training (including travel, training venue,	-	\$788.00	\$29,409.9
subsistence for trainers and trainees, etc. but not time spent by, or salary paid to trainers or		<i>Q</i> C C C C C C C C C C	4
trainees)? Specify in column C and enter the cost in column C			•
Per patient cost of running training sessions (not including time for HCW who are being	\$8.46	\$15.25	\$30.13
trained)	4 00	÷	<i></i>
Total per patient cost for 99DOTS	\$98.41	\$118.88	\$173.70
*Text in blue Indicates calculated fields - indicates non applicable components. N = Numeric.	<i>+•5111</i>	÷	÷

*Text in blue Indicates calculated fields - indicates non applicable components. N = Numeric.

Appendix Table 3. Total costs of 99DOTS during the implementation projects

Cost in USD	Bangladesh	The Philippines	Tanzania
Number of patients who used 99DOTS during the project	(n = 719)	(n = 396)	(n = 976)
Variable costs	\$55,985	\$33,173	\$159,028
Phone and accessories	\$8,768	\$296	\$0
Medication sleeves	\$4,993	\$13,370	\$9,748
Medication preparation	\$1,137	\$252	\$426
99DOTS Calls/SMS costs	\$424	\$573	\$8,752
Adherence monitoring by HCW using 99DOTS platform	\$17,547	\$5,289	\$1,064
Systems, Data management and technical support	\$12,267	\$3,211	\$58,167
Escalation in case of non-adherence and HCW response	\$38	\$439	\$3,677
DAT training for HCWs (Trainee costs)	\$4,727	\$3,703	\$47,784
Additional training costs (Trainer costs)	\$6,084	\$6,040	\$29,410
Fixed costs	\$14,772	\$13,901	\$10,509
Platform / infrastructure costs	\$14,772	\$13,901	\$10,509
Total overall cost of 99DOTS	\$70,756	\$47,074	\$169,536

				With costs annu	itized over the 5	-y life span of
		Project site		sei	vers and phone	S
		The			The	
Country	Bangladesh	Philippines	Tanzania	Bangladesh	Philippines	Tanzania
Number of patients who used	(n = 719)	(n = 396)	(n = 976)	(n = 719)	(n = 396)	(n = 976)
99DOTS during the project						
Variable per patient cost	\$78	\$84	\$163	\$60	\$83	\$160
Per patient cost for phone and	\$12	\$0.75	\$0.00	\$3.51	\$0.75	\$0.00
accessories *						
Per patient cost for medication	\$6.94	\$34	\$10	\$6.94	\$34	\$10
sleeves						
Per patient medication	\$1.58	\$0.64	\$0.44	\$1.58	\$0.64	\$0.44
preparation cost for entire duration						
of treatment						
Total per patient cost of 99DOTS	\$0.59	\$1.45	\$8.97	\$0.59	\$1.45	\$8.97
system call/SMS (TO AND FROM)						
for the entire duration of treatment						
Per patient cost of 99DOTS	\$24	\$13	\$1.09	\$24.4	\$13	\$1.09
adherence monitoring						
Per patient cost for systems,	\$17	\$8.11	\$60	\$7.88	\$7.20	\$56
Data management and technical						
support						
Per patient cost for escalation	\$0.05	\$1.11	\$3.77	\$0.05	\$1.11	\$3.77
activity						
Per patient training cost for	\$6.57	\$9.35	\$49	\$6.57	\$9.35	\$49
HCWs						
Per patient cost of running	\$8.46	\$15	\$30	\$8.46	\$15	\$30
training sessions (not including time						
for HCW who are being trained)						
Fixed per patient cost*#	\$21	\$35	\$11	\$21	\$8.84	\$3.61
Total per patient cost of 99DOTS	\$98	\$119	\$174	\$81	\$92	\$163
STatala from rounded totals						

Appendix Table 4. Per person costs of 99DOTS during the implementation projects, without and with annuitization of capital costs§

 Total per patient cost of 99DOTS
 \$98
 \$119

 §Totals from rounded totals.
 *Equipment cost annuitized over a 5-y life span (phones, tablets and computers).

 #Fixed cost consists of fixed cost of the platform/infrastructure.

VOT tool and data

Cost components	Details/Formula *
Project and respondent information	
1. Name of the project``	Text
2. Country	Text
3. Name of respondent	Text
4. Position of respondent	Text
5. e-mail of respondent	Text
6. Phone	Text
7. Local currency used in the country	Text
8. Date the questionnaire was filled	YYYY - MM - DD
9. Was anything donated to the project? (e.g., equipment, technical support, training sessions offered as donations.etc.)	Yes, No
10. List detailed items and services that were donated to the project	Text
Population	
I. Type of patients (DS-TB or DR-TB)	Text
II. Length of a full course of treatment (in months)	Ν
III. Number of patients who were followed using DAT during the project	Ν
a) Phone and accessories	
A1. Number of phones that were purchased	Ν
A2. Unit cost of phone purchased	\$
A3. Number of SIM cards that were purchased	Ν
A4. Unit cost of SIM card	\$
A5. Number of charger or solar batteries that were purchased	Ň
A6. Unit cost of charger or solar batteries	\$
A7. Number of phone lines provided with airtime	Ň
A8. Total cost for airtime per phone line for the entire duration of the project	\$
A9. Total cost of phones (includes phone, SIM card and airtime)	(A1*A2) + (A3*A4) (A5*A6) + (A7*A8

Cost components	Details/Formula *
Per patient cost for phone and accessories	A9/III
b) Data	
B1. Average size of a video recording in Megabytes (MB)	N
B2. Cost per MB of data	\$
B3. Total number of video calls/recordings made by all patients in the project	N
B4. Total cost for data for all patients Per patient cost for data	B1*B2*B3 B4/III
c) Platform / infrastructure costs	D4/III
C1. Total amount spent on software license (if applicable) for the entire duration of the project	\$
C2. Initial Configuration costs (setting up VDOT platform in country)	\$
C3. Total amount spent to develop a VDOT software or platform for a project not using an already	\$
existing system	
Per patient fixed cost of the platform/infrastructure	(C1 + C2 + C3)/III
d) Adherence monitoring by HCW using VDOT platform	,,,,,,,,,,,,
Routine adherence monitoring using VDOT	
D1. Type of HCW who does adherence monitoring using VDOT platform	Text
D2. HCW wage (per hour)	\$
D3. Typical amount of time (in min) spent by HCW monitoring adherence on the platform per patient	N
(duration of project)	D0*D0/00
D4. Per patient cost of VDOT routine adherence monitoring	D3*D2/60
Video recordings viewing D5. Type of HCW who usually views video recordings	Text
D6. HCW wage (per hour)	\$
D7. Average number of minutes per patient per recording	φ N
D8. Average number of recordings made by a patient in the project	B3/III
D9. Per patient average amount of time (in minutes) of recordings over the course of treatment	D7*D8
D10. Per patient cost of viewing video recordings	D9*D6/60
Per patient cost of VDOT adherence monitoring (routine + viewing of recordings)	D4 + D10
e) Systems, Data management and technical support	
E1. Amount spent for staff working on data management for VDOT platform (salaries paid for support of	\$
DAT platform)	
E2. Number of days that technical support was provided or number of times specific technical services	N
were provided (beyond initial setup)	^
E3. Cost per day or per activity reported in E2	\$
E4. Total cost of technical support for VDOT platform E5. Amount paid for health facility hardware (laptops, desktop or tablet computer to track adherence)	E2*E3
E6. Payments made for monthly plans for technical services such as data plans and phone plans for	\$ \$
HCW and health facility	Ψ
Per patient cost for Systems, Data management and technical support	(E1 + E4 + E5 +
	È E6)/III
f) Escalation in case of non-adherence and HCW response	
Escalation related phone calls:	
F1. Number of patients who required follow up by phone as part of adherence escalation procedure	N
F2. Average number of phone calls made by HCW per patient (for entire duration of the project)	N
F3. Average HCW time per call (in minutes) required to speak to a patient who requires adherence	minutes
follow up	
F4. Total time (in minutes) spent by HCW with patients on a phone for adherence follow up	F1*F2*F3
F5. Type of HCW who usually makes phone calls F6. Average HCW wage (per hour)	Job Category
F7. Additional fees associated with phone call follow up (per call)	ֆ \$
F8. Total cost for Phone calls	φ (F4*F6/60min) +
	(F1*F2*F7)
Escalation related Home Visits:	(
F9. Number of patients who required a home visit as part of escalation procedure	Ν
F10.Average number of home visits per individual who requires home visits	Ν
F11.Amount of time per visit (including travel)	minutes
F12. Total time (in minutes) spent by HCW on home visits for patients who required adherence follow	F9*F10*F11
up	
F13.Type of HCW doing home visit	Job Category
F14.HCW wage (per hour)	\$
F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.)	\$ (E12*E14/60) +
F16. Total cost for Home visits	(F12*F14/60) + (F9*F10*F15)
Per patient cost for escalation activity	(F8 + F16)/III
g) DAT Training for HCWs (Trainee costs)	
1st Category of HCW trained	Job Category 1
G1.1 Number of HCW trained	N
G1.2 Typical amount of time for training (in minutes) (per HCW in category 1)	Minutes
G1.3 Total time in minutes for training all HCW in category 1	G1.1*G1.2

Cost components		Details/Formula *
G1.4 HCW wage (per hour)		\$
G1.5 Total cost for training all HCW in catego	ory 1	G1.3*G1.4/60
2nd Category of HCW trained		Job Category 2
G2.1 Number of HCW trained		N
G2.2 Typical amount of time for training (in m	inutes) (per HCW in category 2)	Minutes
G2.3 Total time in minutes for training all HC	N in category 2	G2.1*G2.2
G2.4 HCW wage (per hour) (category 2)	0, 1	\$
G2.5 Total cost for training all HCW in catego	bry 2	G2.3*G2.4/60
3rd Category of HCW trained		Job Category 3
G3.1 Number of HCW trained		Ň
G3.2 Typical amount of time for training (in m	inutes) (per HCW in category 3)	Minutes
G3.3 Total time in minutes for training all HC		G3.1*G3.2
G3.4 HCW wage (per hour) (category 3)	5.5	\$
G3.5 Total cost for training all HCW in catego	nrv 3	G3.3*G3.4/60
G4. Total cost for training		G1.5 + G2.5
5		+G3.5
Per patient training cost		G4/III
H2. Typical amount of time spent by a trainer or H3. Approximate hourly salary of someone doin H4. Number of trainers H5. Total trainers' wage directly related to VDO ⁻ Scenario II: training was conducted by an outside of H6. Total trainers' cost H7. Additional expenditures related to training (i	g the training sessions for HCW on how to use the DAT a training (including preparation and delivery) (in hours) g training (trainer) F training organization or paid as a package ncluding travel, training venue, subsistence for trainers aid to trainers or trainees)? Specify in column C and	Job category (trainer) Hours \$ N H2*H3*H4 \$ \$
-er patient cost of running training sessions (not in		H7)/III IF Scenario II: (H6+H7)/III
Total per patient cost for VDOT is SUM of the	Per patient cost for smart phone	
following categories	Per patient cost for data Per patient fixed cost of the platform/infra: Per patient cost of VDOT adherence monitori Per patient cost for Systems, Data management and Per patient cost for escalation activi Per patient cost for HCW training Per patient trainers' cost	ing by HCW d technical support ity

*Text in blue Indicates calculated fields. N = Numeric.

Appendix Table 6. Cost components for VOT across the four study populations

Cost components	Haiti	Moldova (All)	Moldova (DS-TB)`	Moldova (DR-TB)	the Philippines
Population	Tiald	(/ (//)			1 mppines
I. Type of patients (DS-TB or DR-TB)	DS-TB	All	DS-TB	DR-TB	DR-TB
II. Length of a full course of treatment (in months)	6	6 and 9	6	9	9
III. Number of patients who were supported using VOT during	87	308	173	135	110
the project					
a) Phone and accessories					
A1. Number of phones that were purchased	40	200	92	108	131
A2. Unit cost of phone purchased	\$69.0	\$110.0	\$110.0	\$110.0	\$97.7
A3. Number of SIM cards that were purchased	60	140	65	75	111
A4. Unit cost of SIM card	\$2.0	-	-	-	\$0.8
A5. Number of charger or solar batteries that were purchased	0	-	-	-	90
A6. Unit cost of charger or solar batteries	\$0.0	-	-	-	\$1.8
A7. Number of phone lines provided with airtime	60	384	177	207	54
A8. Total cost for airtime per phone line for the entire duration of the project	\$118.0	\$27.8	\$27.8	\$27.8	\$47.8
A9. Total cost of phones (includes phone, SIM card and airtime)	\$9,960.0	\$32,663.7	\$15,048.8	\$17,614.9	\$15,635.7

2	11-14	Moldova	Moldova	Moldova	the
Cost components Per patient cost for phone and accessories	Haiti \$114.5	(All) \$106.05	(DS-TB)` \$86.99	(DR-TB) \$130.48	Philippines \$142.1
b) Data	φ114.5	\$100.05	φ00.99	\$130.40	φ142.1
B1. Average size of a video recording in Megabytes (MB)	60	30	30	30	-
B2. Cost per MB of data	\$0.0	\$0.0	\$0.0	\$0.0	-
B3. Total number of video calls/recordings made by all patients	12,194	43,027	19,823	23,204	29,700
in the project	¢704.0	¢4.007.0	¢040.40	¢000.00	*0 0
B4. Total cost for data for all patients Per patient cost for data	\$731.6 \$8.4	\$1,837.3 \$5.97	\$846.46 \$4.89	\$990.80 \$7.34	\$0.0 \$0.0
c) Platform / infrastructure costs	φ0.4	φ <u></u>	φ 4 .09	φ1.0 4	φ0.0
C1. Total amount spent on software license (if applicable) for	\$31,149.0	-	-	-	\$27,326.7
the entire duration of the project					
C2. Initial Configuration costs (setting up VDOT platform in	-	-	-	-	-
country)		¢ 40,000,0	¢40,400,0	#04 574 0	
C3. Total amount spent to develop a VDOT software or platform	-	\$40,000.0	\$18,428.8	\$21,571.2	-
for a project not using an already existing system Per patient fixed cost of the platform/infrastructure	\$358.0	\$129.87	\$106.52	\$159.79	\$248.4
d) Adherence monitoring by HCW using VDOT platform	φ000.0	φ120.07	φ100.02	φ100.70	φ240.4
Routine adherence monitoring using VDOT					
D1. Type of HCW who does adherence monitoring using	Field staff	Assistant	Assistant	Assistant	Nurse
VDOT platform	* • -	• • • • •	* 4 4 *		
D2. HCW wage (per hour)	\$2.7	\$11.0	\$11.0	\$11.0	-
D3. Typical amount of time (in min) spent by HCW monitoring adherence on the platform per patient (duration of project)	701	540	360	540	-
D4. Per patient cost of VDOT routine adherence monitoring	\$31.5	\$80.46	\$66.00	\$99.00	\$0.0
Video recordings viewing	\$ 01.0	\$60.10	\$00.00	\$00.00	φ0.0
D5. Type of HCW who usually views video recordings	Officer	Assistant	Assistant	Assistant	Nurse
D6. HCW wage (per hour)	\$1.7	\$11.0	\$11.0	\$11.0	\$2.9
D7. Average number of minutes per patient per recording	0.3	2	2	2	10
D8. Average number of recordings made by a patient in the project	140.2	139.70	114.59	171.88	270.0
D9. Per patient average amount of time (in minutes) of	42.0	279	229	171.88	2,700.0
recordings over the course of treatment		2.0			2,
D10. Per patient cost of viewing video recordings #	\$1.2	-	-	-	\$132.7
Per patient cost of VDOT adherence monitoring (routine + viewing	\$32.7	\$80.46	\$66.00	\$99.00	\$132.7
_of recordings)					
 e) Systems, Data management and technical support E1. Amount spent for staff working on data management for 	\$34,200.0				
VDOT platform (salaries paid for support of DAT platform)	φ 3 4,200.0	-	-	-	-
E2. Number of days that technical support was provided or	220	160	74	86	-
number of times specific technical services were provided (beyond					
initial setup)					
E3. Cost per day or per activity reported in E2	\$55.0	\$28.5	\$28.5	\$28.5	- ¢0.0
E4. Total cost of technical support for VDOT platform E5. Amount paid for health facility hardware (laptops, desktop or	\$12,100.0 \$7,500.0	\$4,560.0 \$650.0	\$2,100.88 \$299.47	\$2,459.12 \$350.53	\$0.0 \$2,257.2
tablet computer to track adherence)	φ1,500.0	φ030.0	φ299.47	φ330.33	φ2,237.2
E6. Payments made for monthly plans for technical services	\$0.0	\$1,920.0	\$884.58	\$1,035.42	-
such as data plans and phone plans for HCW and health facility		. ,		. ,	
Per patient cost for Systems, Data management and technical	\$618.4	\$23.15	\$18.99	\$28.48	\$20.5
support					
f) Escalation in case of non-adherence and HCW response Escalation related phone calls:					
F1. Number of patients who required follow up by phone as	-	32	15	17	42
part of adherence escalation procedure					
F2. Average number of phone calls made by HCW per	-	21	21	21	50
patient (for entire duration of the project)		_	_	_	
F3. Average HCW time per call (in minutes) required to speak	-	5	5	5	15
to a patient who requires adherence follow up F4. Total time (in minutes) spent by HCW with patients on a		3,360	1,548	1,812	31,500
phone for adherence follow up	-	0,000	1,040	1,012	01,000
F5. Type of HCW who usually makes phone calls		Assistant	Assistant	Assistant	Nurse
F6. Average HCW wage (per hour)	-	\$11.00	\$11.00	\$11.00	\$2.95
F7. Additional fees associated with phone call follow up (per	-	-	-	-	-
call)	MO O	0040.0	0004.0	0000 00	04 540
F8. Total cost for Phone calls	\$0.0	\$616.0	\$284.8	\$332.20	\$1,549
Escalation related Home Visits: F9. Number of patients who required a home visit as part of	-	0	0	0	18
escalation procedure	-	0	0	0	10

F10.Average number of home visits per individual who requires home visits F11.Amount of time per visit (including travel) F12. Total time (in minutes) spent by HCW on home visits for patients who required adherence follow up F13.Type of HCW doing home visit F14.HCW wage (per hour) F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training all HCW in category 1 G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 G2.1 Number of HCW trained G2.1 Number of HCW trained G2.1 Number of HCW trained G2.1 Typical amount of time for training (in minutes) (per	aiti - - - - - 8.6 - - -	(All) 0 - Assistant \$11.0 \$0.0 \$2.00 Doctors 43	0 0 - Assistant \$11.0 \$0.0 \$1.64	(DR-TB) 0 - Assistant \$11.0 \$0.0	Philippines 6 240 25,920 - \$3.2
F11.Amount of time per visit (including travel) F12. Total time (in minutes) spent by HCW on home visits for patients who required adherence follow up F13.Type of HCW doing home visit F14.HCW wage (per hour) F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training all HCW in category 1 G1.3 Total time in minutes for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G2.1 Number of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	- Assistant \$11.0 \$0.0 \$2.00 Doctors	- Assistant \$11.0 \$0.0	- Assistant \$11.0	25,920 -
 F12. Total time (in minutes) spent by HCW on home visits for patients who required adherence follow up F13. Type of HCW doing home visit F14. HCW wage (per hour) F15. Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.2 Typical amount of time for training all HCW in category 1 G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 S2.1 Number of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per 	<u>8.6</u> -	- Assistant \$11.0 \$0.0 \$2.00 Doctors	- Assistant \$11.0 \$0.0	- Assistant \$11.0	25,920 -
patients who required adherence follow up F13.Type of HCW doing home visit F14.HCW wage (per hour) F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 S2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$11.0 \$0.0 \$2.00 Doctors	\$11.0 \$0.0	\$11.0	-
F13.Type of HCW doing home visit F14.HCW wage (per hour) F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G2.1 Number of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$11.0 \$0.0 \$2.00 Doctors	\$11.0 \$0.0	\$11.0	
F14.HCW wage (per hour) F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity (g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 S2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$11.0 \$0.0 \$2.00 Doctors	\$11.0 \$0.0	\$11.0	
F15.Additional costs for HCW per visit (e.g., Travel/transport costs, incentives, etc.) F16. Total cost for Home visits S Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 G2.1 Number of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$0.0 \$2.00 Doctors	\$0.0	·	\$3.2
costs, incentives, etc.) F16. Total cost for Home visits Per patient cost for escalation activity g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 S2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$2.00 Doctors		\$0.0	
F16. Total cost for Home visits \$ Per patient cost for escalation activity \$ g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.5 Total cost for training all HCW in category 1 \$ 2nd Category of HCW trained \$ G2.1 Number of HCW trained \$ G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$2.00 Doctors		\$0.0	
Per patient cost for escalation activity \$ g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 S2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	<u>8.6</u> -	\$2.00 Doctors		\$0.0	
 g) DAT Training for HCWs (Trainee costs) 1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per 	-	Doctors	\$1.64		\$1,385.1
1st Category of HCW trained G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-			\$2.46	\$26.7
G1.1 Number of HCW trained G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-				
G1.2 Typical amount of time for training (in minutes) (per HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-	43	Doctors	Doctors	Nurse
HCW in category 1) G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-		43	43	6
G1.3 Total time in minutes for training all HCW in category 1 G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-	300	300	300	120
G1.4 HCW wage (per hour) G1.5 Total cost for training all HCW in category 1 \$ 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-				
G1.5 Total cost for training all HCW in category 1 \$ 2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per		12,900	12,900	12,900	720
2nd Category of HCW trained G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	-	\$15.0	\$15.0	\$15.0	\$2.9
G2.1 Number of HCW trained G2.2 Typical amount of time for training (in minutes) (per	0.0	\$3,225	\$3,225	\$3,225	\$35.4
G2.2 Typical amount of time for training (in minutes) (per		Assistant	Assistant	Assistant	Staff
	-	53	53	53	8
UC/M in actorony 2)	-	420	420	420	240
HCW in category 2)					
G2.3 Total time in minutes for training all HCW in category 2	-	22,260	22,260	22,260	1,920
G2.4 HCW wage (per hour) (category 2)	-	\$11.0	\$11.0	\$11.0	-
G2.5 Total cost for training all HCW in category 2 \$	0.0	\$4,081	\$4,081	\$4,081	\$0.0
3rd Category of HCW trained	-	N/A	N/A	N/A	Nurse
G3.1 Number of HCW trained	-	-	-	-	4
G3.2 Typical amount of time for training (in minutes) (per	-	-	-	-	240
HCW in category 3)					
G3.3 Total time in minutes for training all HCW in category 3	-	-	-	-	960
G3.4 HCW wage (per hour) (category 3)	-	-	-	-	\$2.9
G3.5 Total cost for training all HCW in category 3 \$	0.0	\$0.0	\$0.0	\$0.0	\$2,832
G4. Total cost for training \$1	,201	\$7,306	\$3,366	\$3,940	\$2,867
	13.8	\$23.72	\$19.46	\$24.93	\$26.1
h) Additional training costs (Trainer costs)					
Choose the training scenario for your project					
Scenario I: training was provided by individuals who were paid for					
each training session					
H1. Most common job category of staff providing the training	-	-	-	-	Doctor
sessions for HCW on how to use the DAT					
H2. Typical amount of time spent by a trainer on training	-	-	-	-	8
(including preparation and delivery) (in hours)					
H3. Approximate hourly salary of someone doing training	-	-	-	-	\$30.8
(trainer)					
H4. Number of trainers	-	-	-	-	1
	0.0	\$0.0	\$0.0	\$0.0	\$246.2
Scenario II: training was conducted by an outside organization or					
paid as a package					
H6. Total trainers' cost	-	-	-	-	-
H7. Additional expenditures related to training (including travel,	-	-	-	-	\$7,034.62
training venue, subsistence for trainers and trainees, etc. but not					
time spent by or salary paid to trainers or trainees)? Specify in					
column C and enter the cost in column C					
	0 0	\$0.0	\$0.0	\$0.0	\$64.0
HCW who are being trained)	0.0				
	0.0				
Total per patient cost for VDOT is SUM of the following categories \$1,	0.0				

<u>Total per patient cost for VDOT is SUM of the following categories</u> \$1,154.4 \$371.22 \$304.49 \$452.48 \$66 *Text in blue Indicates calculated field. N = Numerics. - indicates non applicable components #D10 was intentionally removed from Moldova study because it would have double counted the per patient cost of VDOT adherence monitoring

Appendix Table 7. Total costs of VOT at project sites

		Moldova	Moldova	Moldova	The
Cost in USD	Haiti	DS-TB	DR-TB	(All TB)	Philippines
Number of patients who used VOT during the project	(n = 87)	(n = 173)	(n = 135)	(n = 308)	(n = 110)
Variable cost	\$69,287	\$34,248	\$40,088	\$74,336	\$45,330
Phone and accessories	\$9,960	\$15,049	\$17,615	\$32,664	\$15,636
Data	\$732	\$846	\$991	\$1,837	\$0
Adherence monitoring by HCW using VOT platform	\$2,845	\$11,418	\$13,365	\$24,783	\$14,601
Systems, Data management and technical support	\$53,800	\$3,285	\$3,845	\$7,130	\$2,257
Escalation in case of non-adherence and HCW response	\$750	\$284	\$332	\$616	\$2,934
DAT Training for HCWs (Trainee costs)	\$1,201	\$3,366	\$3,940	\$7,306	\$2,867
Additional training costs (Trainer costs)	\$0	\$0	\$0	\$0	\$7,035
Fixed cost	\$31,149	\$18,429	\$21,571	\$40,000	\$27,327
Platform / infrastructure	\$31,149	\$18,429	\$21,571	\$40,000	\$27,327
Total overall cost of VOT	\$100,436	\$52,677	\$61,659	\$114,336	\$72,656

Appendix Table 8. Per person VOT costs

	Project popula				
		Moldova DS-	Moldova	Moldova	
Country	Haiti	TB	DR-TB	(All TB)	The Philippines
Number of patients who used VOT during the project	(n = 87)	(n = 173)	(n = 135)	(n = 308)	(n = 110)
Variable per patient cost	\$796	\$198	\$293	\$242	\$412
Per patient cost for phone and accessories*	\$114	\$87	\$130	\$106	\$142
Per patient cost for data	\$8.41	\$4.89	\$7.34	\$5.97	\$0.00
Per patient cost of VOT adherence monitoring	\$33	\$66	\$99	\$80	\$133
Per patient cost for systems, Data management and	\$618	\$19	\$28	\$23	\$21
technical support					
Per patient cost for escalation activity	\$8.62	\$1.64	\$2.46	\$2.46	\$27
Per patient training cost	\$14	\$19	\$25	\$24	\$26
Per patient cost of running training sessions (not	\$0.00	\$0.00	\$0.00	\$0.00	\$64
including time for HCW who are being trained)					
Fixed per patient cost*#	\$358	\$107	\$160	\$130	\$248
Total per patient cost of VOT	\$1,154	\$304	\$452	\$372	\$661
	Project c	osts annuitized o	over the 5-y lif	e span of serv	ers and phones
		Moldova DS-	Moldova	Moldova	
Country	Haiti	TB	DR-TB	(All TB)	The Philippines
Number of patients who used VOT during the project	(n = 87)	(n = 173)	(n = 135)	(n = 308	(n = 110)
Variable per patient cost	\$702	\$151	\$222	\$185	\$247
Per patient cost for phone and accessories*	\$89	\$40	\$60	\$49	\$49
Per patient cost for data	\$8.41	\$4.89	\$7.34	\$5.97	\$0.00
Per patient cost of VOT adherence monitoring	\$33	\$66	\$99	\$80	\$133
Per patient cost for systems, Data management and	\$549	\$19	\$28	\$23	\$21
technical support					
Per patient cost for escalation activity	\$8.62	\$1.64	\$2.46	\$2.46	\$27
Per patient training cost	\$14	\$19	\$25	\$24	\$5.2
Per patient cost of running training sessions (not	\$0.00	\$0.00	\$0.00	\$0.00	\$13
including time for HCW who are being trained)					
Fixed per patient cost*#	\$358	\$21	\$32	\$26	\$248
Total per patient cost of VOT	\$1,060	\$172	\$254	\$211	\$495
*Equipment cost annuitized over a 5-y life span (phones, tablets a	and computer	s).			

[#]Fixed cost consists of fixed cost of the platform/infrastructure, and the cost of systems, data management and technical support.

Effectiveness and standard of care (DOT) visit schedules

Appendix Table 9. Effectiveness

LITECTIVETIES	5		
DAT	Study description	Effectiveness of DAT arm	Reference
99DOTS	Implementation study of 99DOTS in private sector TB screening and treatment centers established by icddr,b under its social enterprise model in Dhaka. Total TB incidence 375,000	Overall adherence: 96% of prescribed doses taken	(1)
	DAT	99DOTS Implementation study of 99DOTS in private sector TB screening and treatment centers established by icddr,b under its social enterprise model in Dhaka.	DAT Study description Effectiveness of DAT arm 99DOTS Implementation study of 99DOTS in private sector TB screening and treatment centers established by icddr,b under its social enterprise model in Dhaka. Overall adherence: 96% of prescribed doses taken

Country	DAT	Study description	Effectiveness of DAT arm	Reference
The Philippines	99DOTS	The study was designed to assess 99DOTS use in the private sector in the Philippines, where data suggests 50% of patients in the country seek care. Total TB incidence 741,000	Overall adherence: 94% of prescribed doses taken #	(2)
United Republic of Tanzania	99DOTS	The study was done in mining communities in Tanzania in four districts and four regions. The intervention involves (i) provision of medication in 99DOTS sleeves, (ii) delivery of reminders via SMS to patients, (iii) dosing histories used for counselling and for differentiated care (more intensive patient management), and (iv) targeted educational messaging based on adherence and risk factors via SMS or IVR. Total TB incidence 132,000	Measured concordance with urine testing 95% of doses reported using 99DOTS were confirmed by urine testing . This concordance was highest (98%) in patients who were in their first 2 mo of treatment. [§]	(3)
Haiti	VOT	A feasibility, acceptance, persistence, accuracy and sustainability study of VOT for prisoners in a low-income country Total TB incidence 18,000	Median adherence of 85.7% of doses taken, but limited to the 65 patients who completed treatment	(4)
The Philippines	VOT	This pilot study aimed to determine feasibility and acceptability of VOT in a high-burden, resource constrained DR-TB clinic in the Philippines where smartphones penetration is moderate and growing. Total TB incidence 741 000	Good adherence was defined as ingestion of >90% of prescribed doses. Observed doses: Males VOT 86.2% Status quo 80.7% Females VOT 86.8% Status quo 81.4%	(5)
Republic of Moldova	VOT	A pilot study to scale up locally developed VOT technology/program. Total TB incidence 2,600	Overall: 89% adherence to TB treatment * DS-TB 92% DR-TB 85%	(6)

#Adherence Using 99DOTS calls as a proxy for adherence resulted in a 94% sensitivity using a urine test for isoniazid metabolites (IsoScreen) as the reference standard.

§Similar urinalysis approach used in Tanzania to that in the Philippines to assess adherence.
DAT; Digital adherence technology. DR-TB; drug resistant TB. DS-TB; drug susceptible TB. Icddr,b; International Centre for Diarrheal Disease
Research, Bangladesh. KNCV; Koninklijke Nederlandse Centrale Vereniging tot bestrijding der Tuberculose. TB; Tuberculosis. VOT; video-observed treatment
*Adherence was measured by the proportion of days that a person with TB was observed ingesting medication during the planned treatment period

Appendix Table 10. DOT schedules and duration in the study settings - from the costing tool

			VOT sites				
		The			Moldova	Moldova	The
Schedule and duration	Bangladesh	Philippines	Tanzania	Haiti	DS-TB	DR-TB	Philippines
Crude estimate for DOT cost for the tool	e standard of ca	re - derived from	the costing				
Duration of TB treatment (in months)	6	6	6	6	6	9	9
Frequency of nurse visits (for clinical purposes)	3	6	16	6	6	9	9
Frequency of physician visits (for clinical purposes)	2	6	6	6	6	9	36
Proportion on DOT	100%	100%	100%	100%	100%	100%	50%
Number of days DOT	120	168	120	120	120	180	180
Location of DOT - during the study	Health facility	Health facility	Home based	Prison	Health facility	Health facility	Health facility or Home
Hourly wage of person offering DOT support	\$0.83	\$1.40	\$0.00	\$4.60	\$11.20	\$11.20	\$2.88
Duration of DOT visit - in minutes	45	45	0	45	15	15	2

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