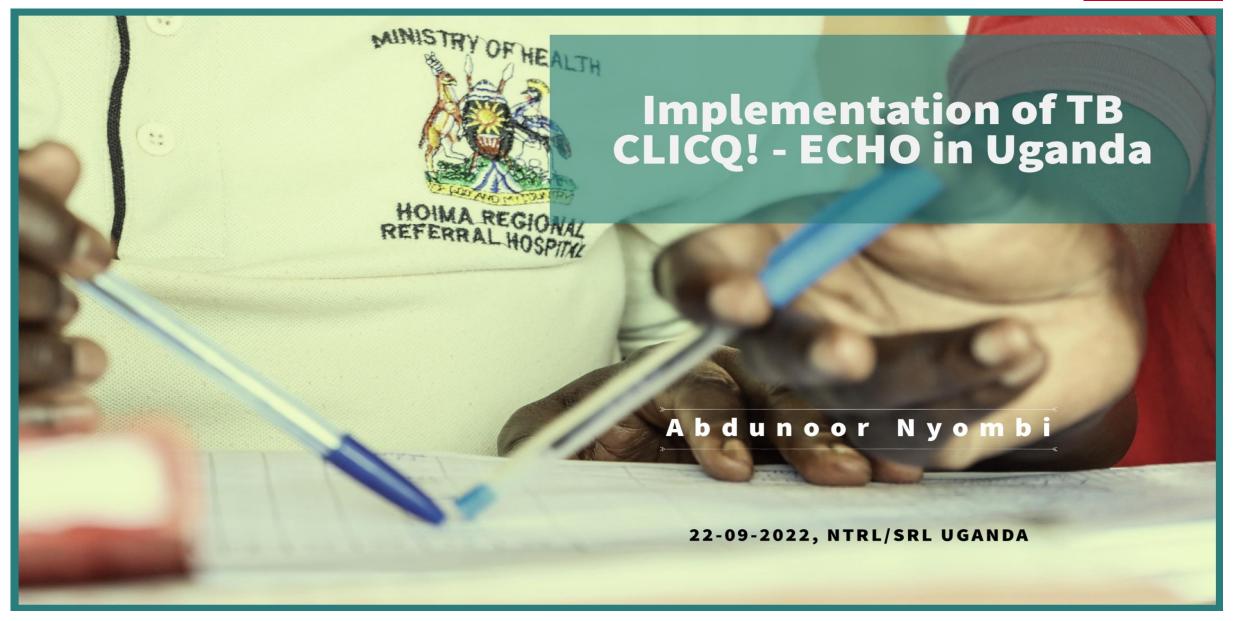




Project

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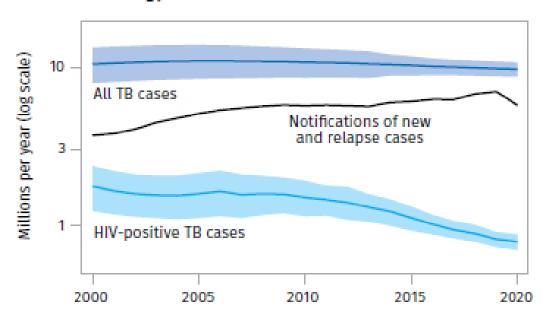


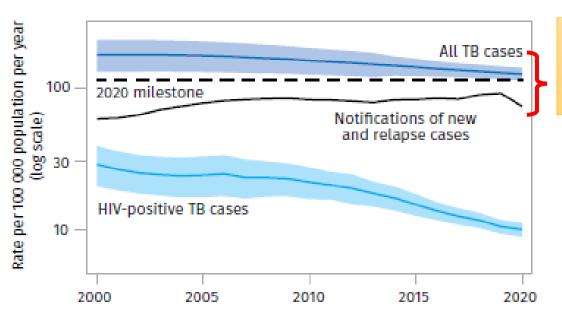




Global trends in the estimated number of incident TB cases (left) and the incidence rate (right), 2000–2020

Shaded areas represent uncertainty intervals. The horizontal dashed line shows the 2020 milestone of the End TB Strategy.





The missing TB patients



TB CLICQ-ECHO: Goals

Goals:

- (1) Improved TB case finding and appropriate treatment initiation among HIV-positive and HIV-negative persons with confirmed TB in Uganda
- (2) Improved time-to-TB diagnosis and time to TB treatment initiation among HIV-positive and HIV-negative persons with confirmed TB in Uganda.

CLICQ-ECHO: Objectives



Objectives:

- Increase the number and proportion of HIV-positive and HIV-negative persons with presumptive TB that receive TB laboratory services and/or accurate test results in a timely manner.
- Increase the number and proportion of HIV-positive and HIV-negative TB patients that initiate appropriate (drug-sensitive or drug-resistant) TB treatment.
- 3. Reduce turnaround times associated with TB laboratory receipt of specimens for testing, lab-confirmation of TB disease, return of TB laboratory test results and/or initiation of appropriate TB treatment.
- 4. Quantify the value of providing sites DiCE assessments alone versus providing sites DiCE assessments plus 2 learning sessions that are strengthened with weekly ECHO-based mentorships.



Program Design

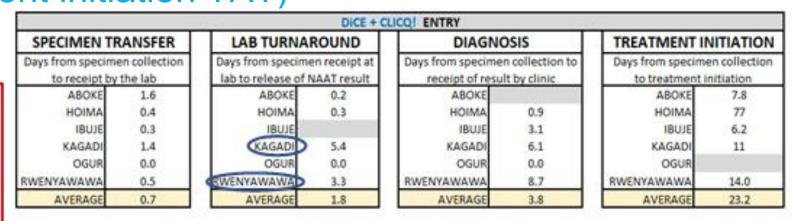


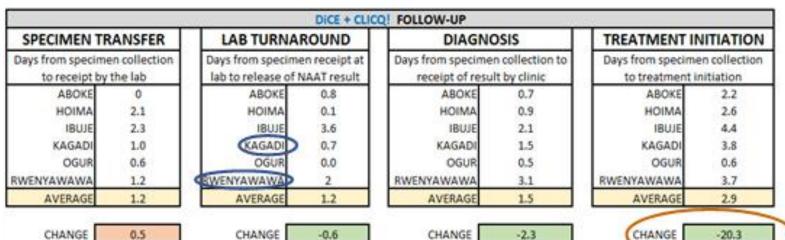
EVALUATION ACTIVITIES SUMMARY		
DiCE Assessments	DiCE + CLICQ! Participation	
Conduct DiCE entry assessments of all participating clinic-lab pairs to identify gaps in their TB/HIV diagnostic cascades of care (including a presentation of results with guidance and discussion to close identified gaps).		
	Conduct two guided <i>Learning Sessions</i> , focused on CQI practices, with healthcare workers and laboratory technicians to develop improvement projects to strengthen prioritized gaps	
	Conduct weekly ECHO sessions (and <i>ad hoc</i> WhatsApp consultations) to provide technical assistance and mentorship for evaluating improvement project progress.	
Conduct DiCE follow-up assessments of all participating gaps in their TB diagnostic cascade of care.	g clinic-lab pairs to identify improvements and remaining	

RESULTS

DiCE+ CLICQ Facilities: Decrease in TAT (Laboratory, diagnosis & treatment initiation TAT)

Rwenyawawa and Kagadi Improvement Projects:TAT for results return





facilities Some whose improvement projects were not on TAT also recorded a noticeable improvement in treatment initiation (spillover benefit of empowering health care workers in CQI)

> Reduced TAT Increased TAT

DiCE only facilities: No improvement in TAT (specimen transfer, laboratory & diagnosis TAT)



SPECIMEN	TRANSFER
Days from speci	men collection
to receipt	by the lab
APAC	0.7
BALA	0.3
KIGOROBYA	0.5
KISIITA	0
KYANGWALI	0
LIRA	0
AVERAGE	0.26

DICE ONLY ENTRY			
LAB TURN	IAROUND		ı
Days from speci	imen receipt at		Days from
lab to release of	of NAAT result		recei
APAC	0.6		
BALA			
KIGOROBYA	0.2		KIGOF
KISIITA	0.6		K
KYANGWALI	0		KYANG
LIRA	1.2		
AVERAGE	0.5		AV

DIAGNOSIS		TR
Days from specir	men collection to	Da
receipt of re	sult by clinic	
APAC	1.3	
BALA	0.8	
KIGOROBYA	0.5	
KISIITA	1	
KYANGWALI	0	
LIRA	1.3	
AVERAGE	0.8	

TREATMENT	INITIATION	
Days from specimen collection		
to treatmer	nt initiation	
APAC	8.3	
BALA	5	
KIGOROBYA	0	
KISIITA	26	
KYANGWALI	2.3	
LIRA	2.3	
AVERAGE	7.3	

There was however a slight improvement in treatment initiation TAT from 7.3 to 6.5 days

SPECIMEN TRANSFER		
Days from speci	men collection	
to receipt	by the lab	
APAC	0.5	
BALA	0.4	
KIGOROBYA	0.0	
KISIITA	2.7	
KYANGWALI	0.0	
LIRA	1.3	
AVERAGE	0.8	

	DICE ON	LY	FOLLOW-UP
LAB TURNAROUND			DIA
Days from speci	imen receipt at		Days from sp
lab to release	of NAAT result		receipt o
APAC	0		AP
BALA	7.8		BA
KIGOROBYA	1.8		KIGOROE
KISIITA			KISI
KYANGWALI	0.1		KYANGW
LIRA	0		LI
AVERAGE	1.9		AVERA

DIAGNOSIS		
Days from specimen collection to		
sult by clinic		
2.6		
2.5		
1		
3.8		
0.3		
2.7		
2.2		

TREATMENT	INITIATION		
Days from specimen collection			
to treatment initiation			
APAC 11.6			
BALA	14		
KIGOROBYA	0.3		
KISIITA	1.8		
KYANGWALI	2.3		
LIRA	8.9		
AVERAGE	6.5		

Reduced TAT
Increased TAT

CHANGE	0.6

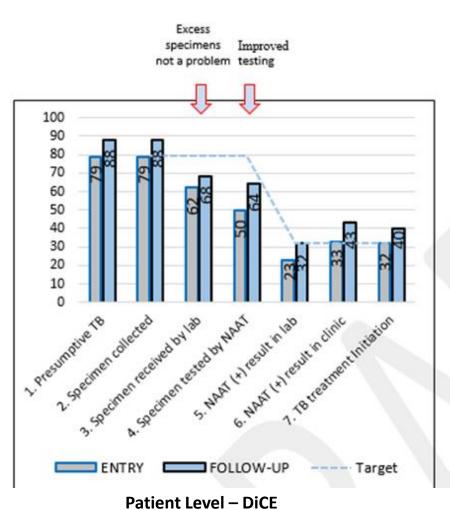
CHANGE	1.4
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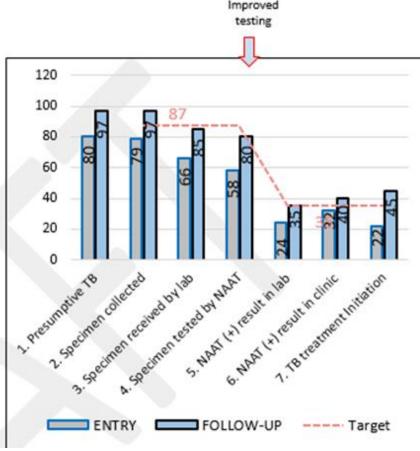
CHANGE	1.4

Increase the number of TB patients that initiate appropriate TB treatment in the DiCE+CLICQ facilities



DiCE RESULTS: Patient Level





Patient Level - DiCE + CLICQ!

DiCE+CLICQ! facilities

- At entry, only 69% (22/32) NAAT positive patients recorded in the clinic were initiated on treatment.
- At follow up, we observed more patients (45 NAAT positive) initiated on treatment than those recorded in the TB laboratory register (35 NAAT positive)
- Documentation gaps in the laboratory & the project could not ascertain the overall number of NAAT positive patients tested in the laboratory that missed being linked to treatment

Challenges

- Change management: e.g., when making changes in patient flow
- Incomplete data: -missing, partial or without right tools for collection
- Laboratorian industrial action: decline in TAT for GeneXpert from 100% to 0% for 2 consecutive weeks
- Staff transfer and attrition: one refugee facility had all the staff transferred to another facility.



Successes

- Improved working relationship between the Laboratory and clinical staff at facilities (team work)
- Improved facility adherence to NTLP recommended patient flow
- Improved TAT of Laboratory results
- Increased number of TB Positive patient initiated on TB treatment
- Improved TB treatment outcomes as result of facility weekly review meetings



Next steps & future plans

Next steps

- Partner dissemination meeting (s)
- Scale up CLICQ-ECHO to control sites (DiCE only)

Future plans

 Mainstream CLICQ-ECHO in NTLP CQI program implemented under the TB Active Case finding (ACF) Package









