Supplementary file 3

PERFORMANCE OF HOST BLOOD TRANSCRIPTOMIC SIGNATURES FOR DIAGNOSING AND PREDICTING PROGRESSION TO TUBERCULOSIS DISEASE IN HIV-NEGATIVE ADULTS AND ADOLESCENTS: A SYSTEMATIC REVIEW PROTOCOL.

Data Extraction Form

Reviewer i	nitials 🗆 HM	□ EWB	□ Ot	her							
Part A: Stu	udy characteristi	<u>cs</u>									
				Publication year:							
		Study #									
TB Burden	in study populatio	on: □Low	□Intermed	iate □ H	igh						
Study desig	n: □Cross-sectiona	l □Cohort	\Box Case c	ontrol	□ RCT □	Other					
Study type:	Diagnostic	D Predictive	e ij	f predictiv	ve; follow-up	time	_months				
Study purp	ose: Discovery	🗆 Valida	ation								
Sampling: 🛛	□ Consecutive □C	onvenient	□Randon	n ⊡Ot	ther						
	, •,• e,										
Part C: Ch	naracteristics of t	<u>ests</u>									
Index samp	le type :	□ Whole b	lood	D PBMC							
Index test (s	signature) type :	□mRNA	□Other	ſ							
Signature n	ame :			# of gene	es:	Threshold val	ue				
Signature d	iscovery method:	□ RNA Se	eq □Micro	o array		Other					
Signature n	nodel :	□ Pairwise	e □Rand	om forest	SVM	Other					
TB disease	gold standard :	□Culture	□Xper	t MTB/R	IF □ Smear	□ Other					
Dawt D. Da		aniati aa									
	pulation charact		01.11	м	· 1 · 1	1 (* 1					
-	□Adults □Ado	lescents		n ⊡M	ixed $\Box U$	ndefined					
0 0											
Participant	's cohort (test/vali	dation) and	d disease st	tatus**							
Cohort		Number	Healthy		Other		Total				
Туре	Signature Name	of Genes	Controls ^a	LTBI ^b	Diseases ^c	TB Disease ^d	Enrolled				

** For diagnostic studies, the number of participants in each category represents the numbers at enrolment while for predictive studies; a, b and c represent the number of participants in each category at enrolment that

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gave rise to the cases (d) at the end of follow-up period.

Description of negative population

^aHealthy Controls:
□ Healthy endemics
□ Healthy non-endemics
□ TB Contacts
□ Other,
describe:

^bOther diseases: □ Non-respiratory diseases □ Respiratory diseases ^cLTBI : □TST>5mm □TST>10mm □IGRA □ N/A If IGRA, IGRA type : □QFT □Elispot □Other_____

^dTB disease: For diagnostic studies, this number represents the number of participants included in the study at enrolment while for predictive studies; this number represents the number of participants diagnosed with TB at the end of follow-up period.

Part D: Outcomes

Cohort	Signature	# of										
Туре	Name	Genes	Sens	Spec	AUC	ΤР	ΤN	FP	FN	LR+	LR-	RR

Key: Sens=Sensitivity; Spec=Specificity; AUC=Area under the curve; TP = True positives; FP = False positives; TN = True negatives; FN = False negatives; LR+ = Positive likelihood ratio; LR- = Negative likelihood ratio; RR = Rate Ratio for predictive studies only.

Inclusion/Exclusion Decision

 \Box Included \Box Excluded \Box Pending

If excluded, reason:

- □ Excluded by title
- □ Children only
- \Box Different index test
- □ Reference test neither Culture, Xpert/MTB RIF nor Smear Microscopy
- $\hfill\square$ HIV infected only
- □ Mixed HIV infected and uninfected and could not desegregate the participants
- □ Mixed children and adults and could not desegregate the participants
- \square Other study design
- Diagnostic performance data not reported and unable to get from authors