Supplementary Data 1. Supplementary materials

Methods of a rapid review

We used a rapid review approach, which refers to a streamlined systematic review within a compressed timeline. To conduct this review, we adopted the updated Preferred Reporting Items for Systematic reviews and Meta-Analyses (PRISMA) 2020 statement using the 27-item checklist [4] and were also informed by Cochrane Collaboration guidelines [Higgins]. As the PRISMA is intended for conduction of systematic reviews, this study also consulted separate guidelines exclusive for rapid reviews where PRISMA was not readily applicable [5, 6]. This review included both quantitative and qualitative studies and the PRISMA 2020 is applicable to such mixed research reviews. Nevertheless, a separate reporting guideline for presentation and synthesis of qualitative data, the Enhancing transparency in reporting the synthesis of qualitative research (ENTREQ) statement were also applied.

The rationale for the study was that there was much awareness of COVID-19 pandemic negatively impacting the effectiveness and outcome of existing TB services and interventions. Despite the widespread acknowledgment that COVID-19 is changing the dynamics of TB prevention and management, studies that review its impact on a full spectrum of TB prevention activities was little or non-existent.

Search protocol

[PubMED]

(("COVID-19"[Mesh] OR "SARS-CoV-2"[Text] OR "nCoV"[Text]) AND ("tuberculosis"[Mesh] OR "TB"[Text]) AND ("BCG"[Text] OR "tuberculosis case notification"[Text] OR "tuberculosis notification"[Text] OR "tuberculosis mortality"[Text] OR "tuberculosis death"[Text] OR "tuberculosis incidence"[Text] OR "burden"[Text] OR "latent tuberculosis"[Mesh] OR "latent tuberculosis"[Text] OR "incidence"[Mesh] OR "mortality"[Mesh] OR "registration"[Text] OR "contact tracing"[Mesh] OR "contact investigation"[Mesh] OR "contact screening"[Mesh] OR "screening"[Text] OR "screening programs"[Mesh] OR "screening programmes"[Text] OR "tuberculosis screening"[Text] OR "TB screening"[Text] OR "case finding"[Text] OR "TB/pc") NOT ("co-infection"[Text] OR "trial"[Text] OR "severity"[Text] OR "immuno*"[Text] OR "inflamma*"[Text] OR "antibody"[Text] OR "gastrointestinal tuberculosis"[Text] OR "case reports"[Mesh] OR "screening"[Text] OR "DNA"[Mesh] OR "RNA"[Mesh] OR "protease"[Text] OR "case reports"[Mesh] OR "sequelae"[Text] OR "case report"[Text]] OR "sequelae"[Text] OR "DNA"[Mesh] OR "screening"[Text] OR "mortality"[Text] OR "miliary tuberculosis"[Text] OR "DNA"[Mesh] OR "reports"[Mesh] OR "screening"[Text] OR "screening"[Text] OR "screening"[Text] OR "screening"[Text] OR "miliary tuberculosis"[Text] OR "case report"[Text]] OR "screening"[Text] OR "screening"[Te

[Embase]

('covid-19'/exp OR 'covid-19' OR 'sars-cov-2'/exp OR 'sars-cov-2' OR 'ncov') AND ('tuberculosis'/exp OR 'tuberculosis' OR 'tb'/exp OR 'tb') AND ('bcg'/exp OR 'bcg' OR 'tuberculosis case notification' OR 'tuberculosis notification' OR 'tuberculosis mortality'/exp OR 'tuberculosis mortality' OR 'tuberculosis death' OR 'tuberculosis incidence' OR 'latent tuberculosis'/exp OR 'latent tuberculosis' OR 'incidence'/exp OR 'incidence' OR 'mortality'/exp OR 'mortality' OR 'registration'/exp OR 'registration' OR 'contact examination'/exp OR 'contact examination' OR 'contact tracing'/exp OR 'contact tracing' OR 'screening'/exp OR 'screening' OR 'tb screening' OR 'contact screening' OR 'screening program'/exp OR 'screening program' OR 'contact investigation' OR 'case finding'/exp OR 'case finding') NOT ('coinfection/exp OR 'co-infection' OR 'coinfection'/exp OR 'coinfection' OR 'prognosis'/exp OR 'prognosis' OR 'clinical'/exp OR 'clinical' OR 'clinical trial'/exp OR 'clinical trial' OR 'trial'/exp OR 'trial' OR 'severity'/exp OR 'severity' OR 'immuno*' OR 'inflamma*' OR 'antibody'/exp OR 'antibody' OR 'gastrointestinal tuberculosis'/exp OR 'gastrointestinal tuberculosis' OR 'miliary tuberculosis'/exp OR 'miliary tuberculosis' OR 'dna'/exp OR 'dna' OR 'rna'/exp OR 'rna' OR 'protease'/exp OR 'protease' OR reports' OR 'sequelae' OR report'/exp OR report') 'case 'case 'case

Search strategy checklist

Peer Review of Electronic Search Strategies (PRESS) 2015 checklist search strategy checklist

	PRESS Checklist items	Application in the current review
Translation of	• Does the search strategy match the research question/PICO?	$\sqrt{\text{All PICO(SPICE)}}$ elements included in the search
the research	• Are the search concepts clear?	protocol
question	• Are there too many or too few PICO elements included?	$\sqrt{(E)}$ element included all outcome measures, which
	• Are the search concepts too narrow or too broad?	include BCG vaccination, management of latent TB,
	• Does the search retrieve too many or too few records?	TB surveillance, TB screening, TB case finding, and
	• Are unconventional or complex strategies explained?	TB contact tracing
Boolean and	Are Boolean or proximity operators used correctly?	$\sqrt{\text{Boolean operators AND, OR, NOT used correctly}}$
proximity	• Is the use of nesting with brackets appropriate and effective for the search?	\sqrt{Any} errors in the use of nesting brackets fixed
operators	• If NOT is used, is this likely to result in any unintended exclusions?	\sqrt{NOT} used for exclusion of studies agreed through
(these vary	• Could precision be improved by using proximity operators (e.g., adjacent, near,	initial exclusion criteria
based on	within) or phrase-searching instead of AND?	$\sqrt{1}$ proximity operators not used for the search results
search service)	• Is the width of proximity operators suitable (e.g., might adj5 pick up more	to be as broad as possible, taking into account the
	variants than adj2)?	nature of the study topic
Subject	• Are the subject headings relevant?	$\sqrt{\text{Subject headings were exploded where necessary}}$
headings	• Are any relevant subject headings missing; e.g., previous index terms?	$\sqrt{\text{Subject headings and terms in free text used}}$
(database-	• Are any subject headings too broad or too narrow?	together, when necessary
specific)	• Are subject headings exploded where necessary and vice versa?	$\sqrt{\text{Subheadings}}$ (subheading abbreviations) attached
	• Are major headings ("starring" or restrict to focus) used? If so, is there	to subject headings, when necessary
	adequate justification?	
	• Are subheadings missing?	
	• Are subheadings attached to subject headings? (Floating subheadings may be	

Limits and	• Are all limits and filters used appropriately and are they relevant given the	\sqrt{No} limits or filters were applied on year, region,
	statement)?	
	referred to in the final summation that could indicate an error in an AND or OR	
	• Are there incorrect line combinations or orphan lines (i.e., lines that are not	
numbers	a different search interface?	
syntax and line	• Are there any errors in system syntax; e.g., the use of a truncation symbol from	protocol syntax errors
Spelling,	• Are there any spelling errors?	$\sqrt{Authors}$ checked for any spelling errors and
	• Should any long strings be broken into several shorter search statements?	
	included or excluded (database-specific)?	
	fields (.tw.) or all fields (.af.) appropriate? Are there any other fields to be	
	• Have the appropriate fields been searched; e.g., is the choice of the text word	
	keywords used? Are stop words used?	
	• Are the keywords specific enough or too broad? Are too many or too few	
	material? Are the full terms also included?	
	• Are acronyms or abbreviations used appropriately? Do they capture irrelevant	appropriately
	• Is the truncation too broad or too narrow?	$\sqrt{\text{Truncation was used}}$ when necessary and
	place)?	$\sqrt{\text{Search included synonyms, when applicable}}$
	• Does the search capture relevant truncation (i.e., is truncation at the correct	search (e.g. TB and Tuberculosis)
text)	• Does the search include all synonyms or antonyms (e.g., opposites)?	\sqrt{Full} terms and abbreviations both used in the
searching (free	spelling)?	applicable (e.g. programs/programmes)
Text word	• Does the search include all spelling variants in free text (e.g., UK versus US	$\sqrt{\text{Search included US/UK spelling variants, when}}$
	• Are both subject headings and terms in free text used for each concept?	
	• Are floating subheadings relevant and used appropriately?	
	preferred.)	

filters	research question?	and population
	• Are all limits and filters used appropriately and are they relevant for the	$\sqrt{\text{Search terms were to be included in title or}}$
	database?	abstract, to optimize search results
	• Are any potentially helpful limits or filters missing? Are the limits or filters too	
	broad or too narrow? Can any limits or filters be added or taken away?	
	• Are sources cited for the filters used?	