

**Publication bias - a cross-sectional study of
randomised trials in Sub- Saharan Africa:
Ongoing challenges of research waste**

Item Type	Presentation
Authors	Hohlfeld, A;Kredo, T;Clarke, M
Download date	2025-05-14 21:53:56
Link to Item	https://hdl.handle.net/11288/597588

Publication bias - a cross-sectional study of randomised trials in sub-Saharan Africa: ongoing challenges of research waste

Ameer Steven-Jorg Hohlfeld

Health Systems Research Unit, South African Medical Research
Council

Supervisors

Mike Clarke and Tamara Kredo



The South African Medical Research Council
recognizes the catastrophic and persisting consequences of colonialism and
apartheid, including land dispossession and the intentional imposition of
educational and health inequities.

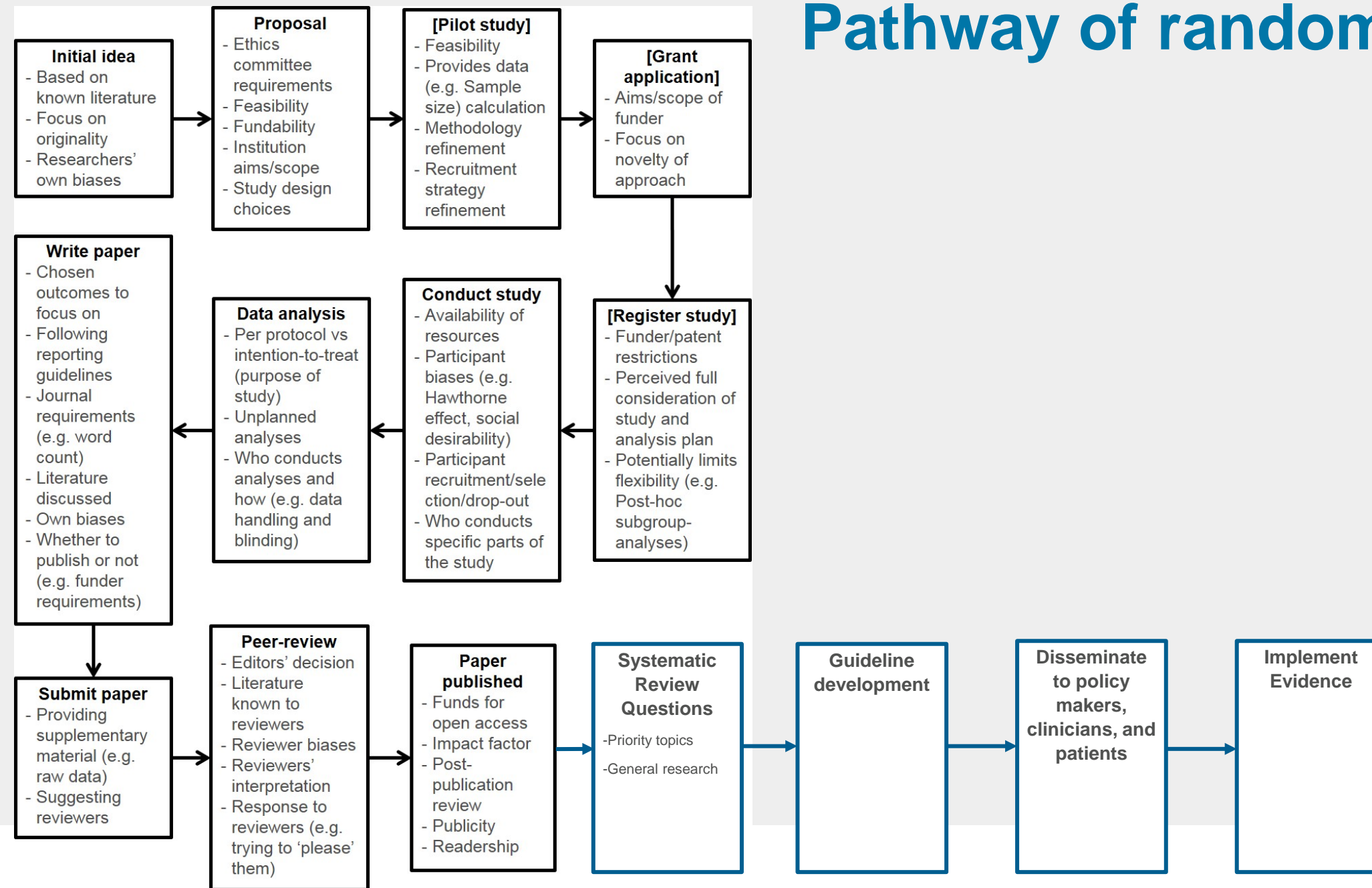
Acknowledging the SAMRC's historical role and silence during apartheid,
we commit our capacities and resources to the continued promotion of justice and
dignity in health research in South Africa.



Personal Declaration

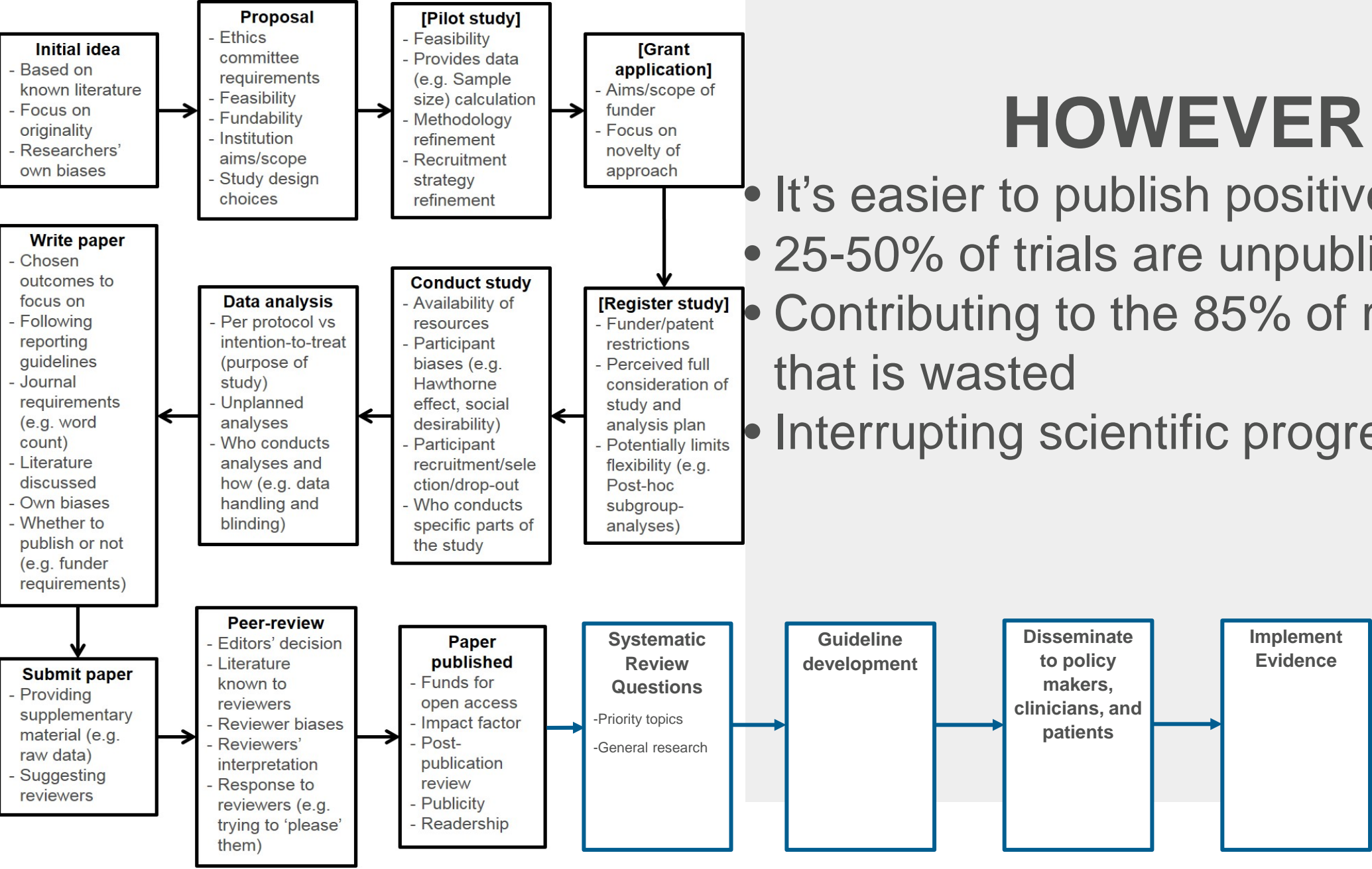
- I have no actual or potential conflict of interest in relation to this presentation.

Pathway of randomized trials



HOWEVER!

- It's easier to publish positive findings
- 25-50% of trials are unpublished
- Contributing to the 85% of research that is wasted
- Interrupting scientific progress



Questions

- What is the extent of publication bias of RCTs conducted in sub-Saharan Africa (SSA) countries?
- What is the time taken to publish completed trials?

Methods

Data source

- WHO-ICTRP

Inclusion criteria:

- RCTs, registered from 1 January 2010
- At least one sub-Saharan African site
- Results reported by February 2020

Search methods for identifying RCTs in WHO-ICTRP:

- Comprehensive search
- Filters: RCTs and Africa

Methods

Sample and sampling approach:

- All records meeting inclusion criteria

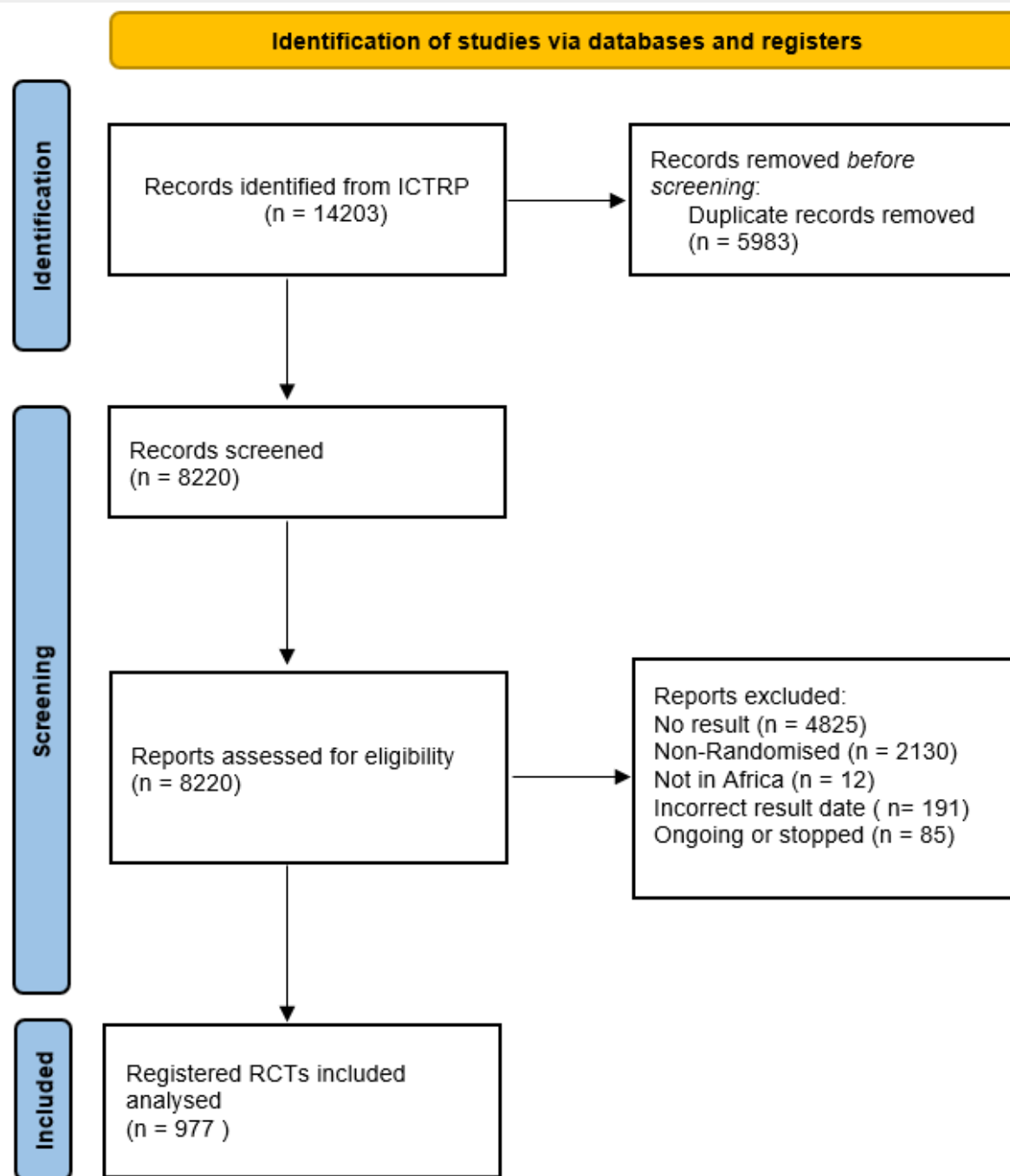
Time to publication analysis:

- Determined the time for publication using ICTRP's "results date completion"
- Searched for publications and their dates in PubMed and Google Scholar using the trial ID

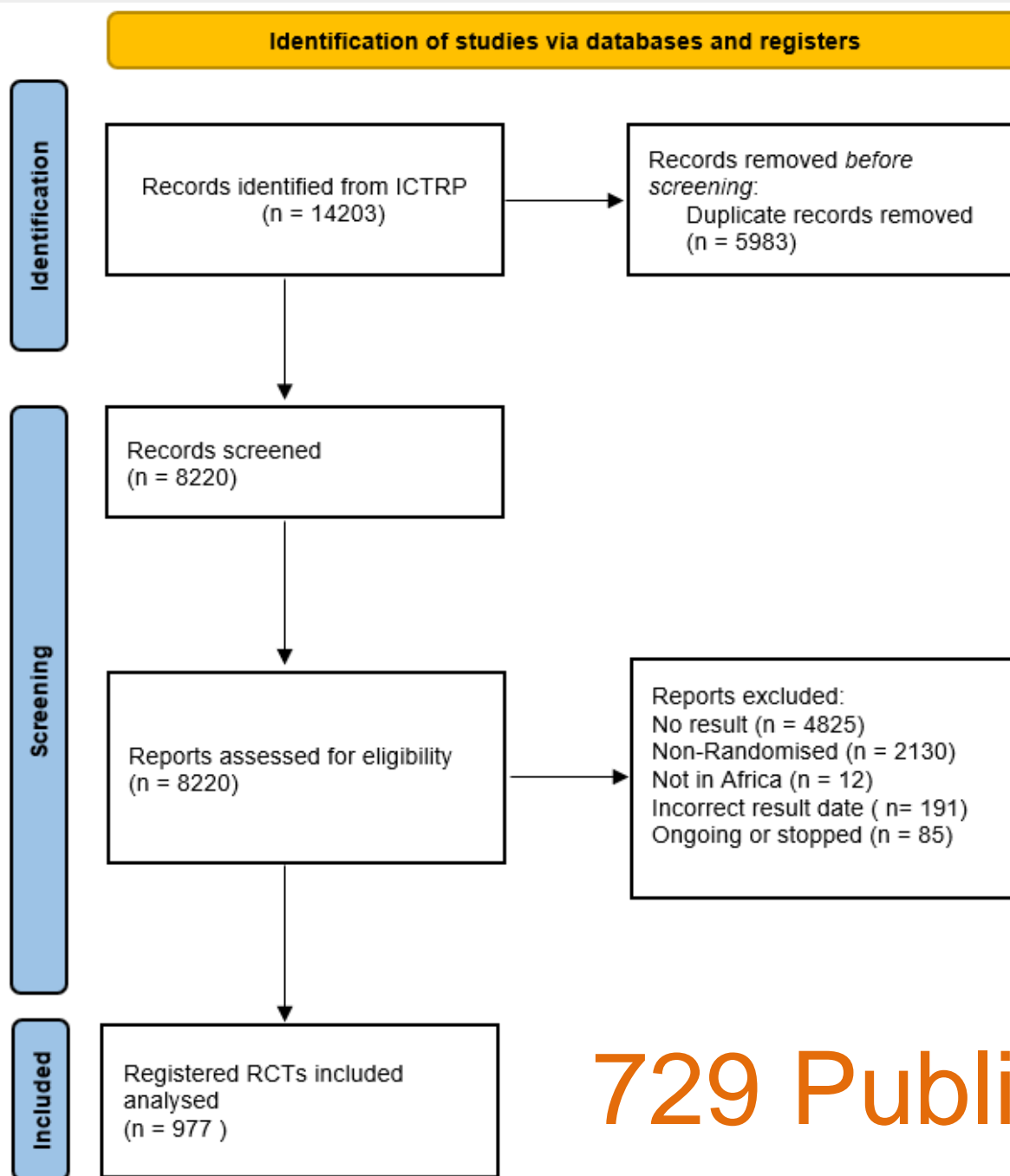
Statistical analysis

- Kaplan-Meier for time to publication

Results

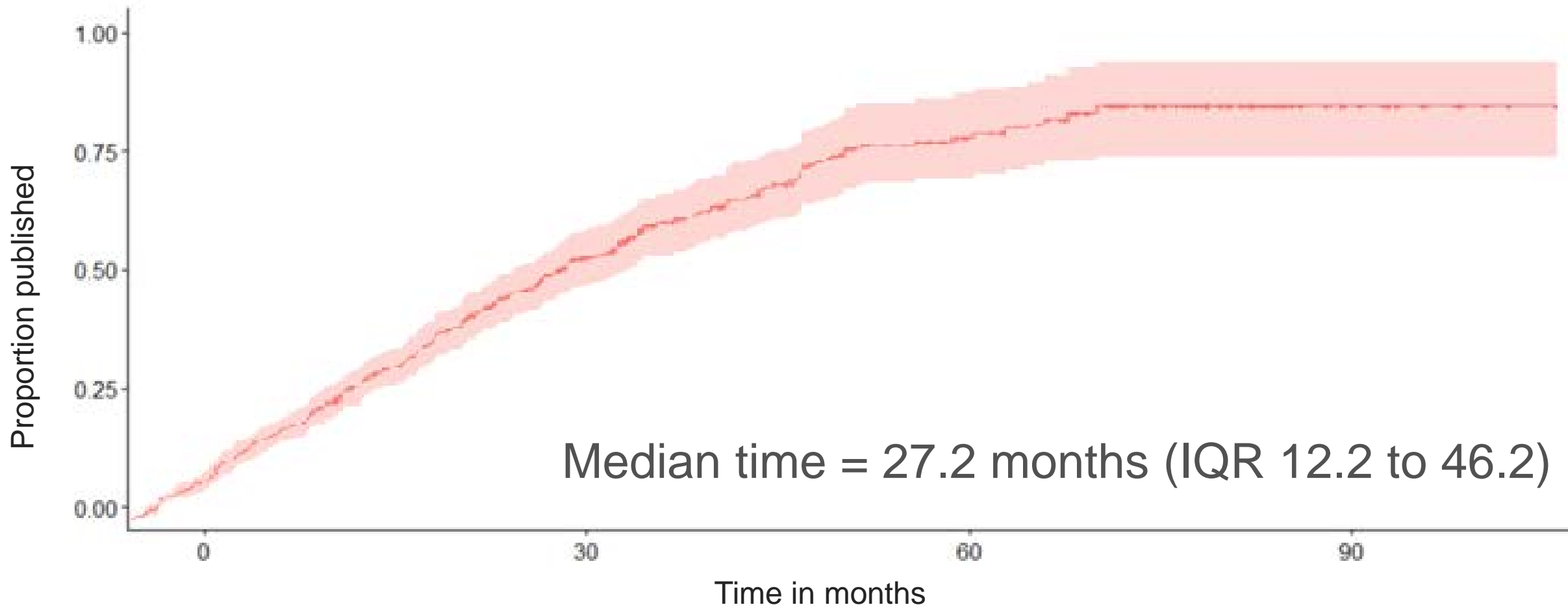


Results



729 Published

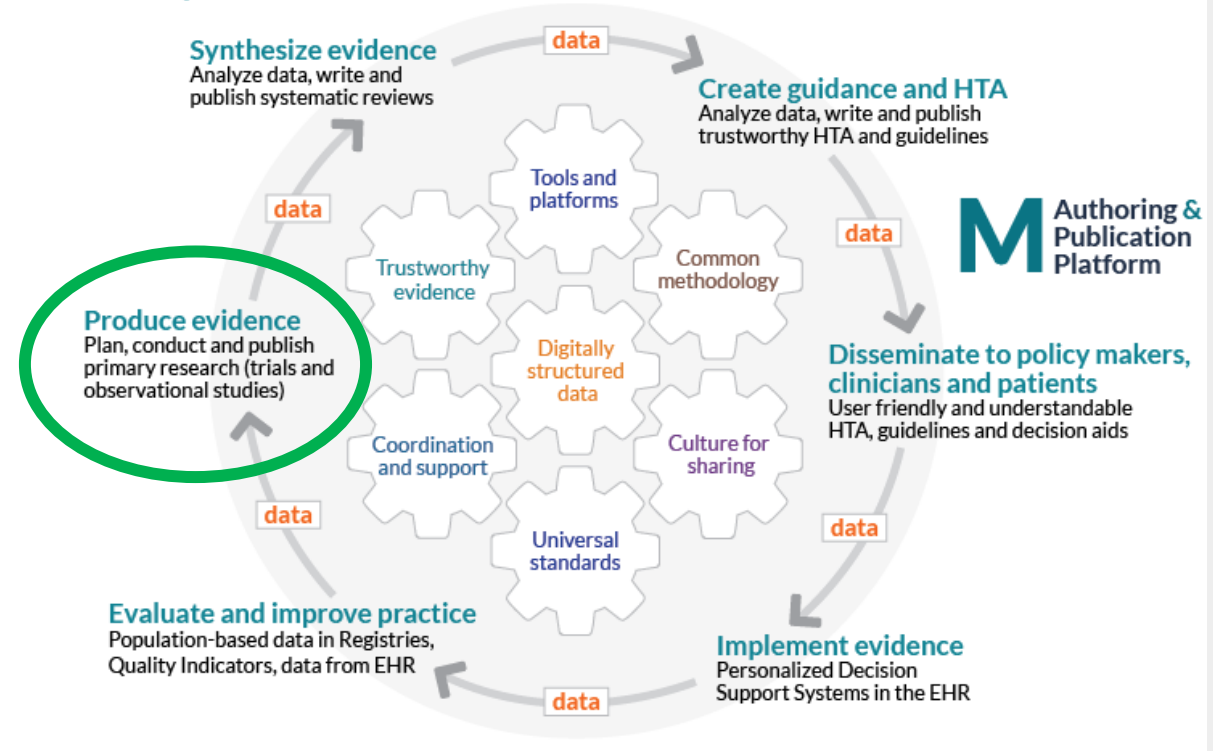
Time to publication from results completion



Consequences

- Failure to follow the main pathway to convey findings
- Limits access to evidence
- “Missing trials”
- Overestimates treatment effects
- Introduction of less (or in-) effective interventions to health and social care
- Damage to patient care & health costs

The Digital and Trustworthy Evidence Ecosystem



Vandvik et al. Future of Evidence Ecosystem Series: Evidence ecosystems and learning health systems: why bother? Journal of clinical epidemiology. 2020; 123:166-70

Key findings

- Timely public dissemination is needed
- Sponsors and investigators need to prioritise the publication process
- The RCTs included here are not necessarily representative of African researchers

How does this study differ from other studies of publication bias and time to publication?

- Larger sample size
- Limited to RCTs
- First study of this nature to include ICTRP rather than specific trial registers
- Broad topic focus, i.e. any Condition/Topic area included
- Continent/Regional focus

Thank You!