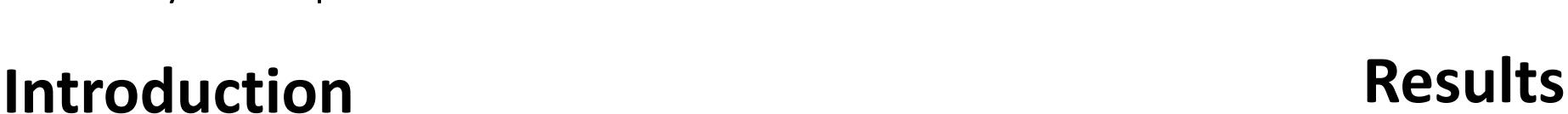
A qualitative assessment of the context and enabling environment for the control of *Taenia solium* infections in endemic settings

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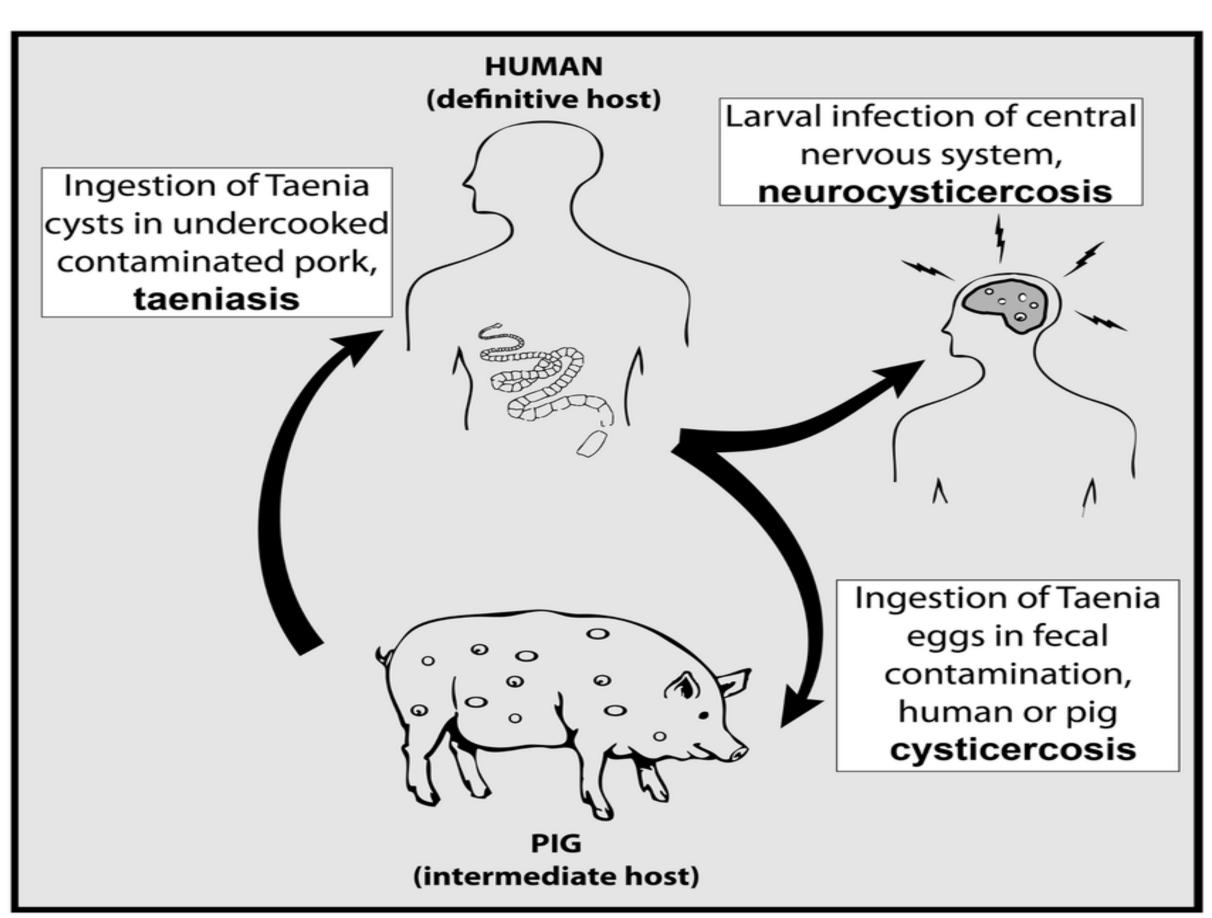
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Taenia solium, is a zoonotic parasite causing three diseases; taeniasis (in humans), neurocysticercosis (NCC, in humans) and porcine cysticercosis (PCC, in pigs). We hypothesized that the success or failure of the interventions may be attributed to the interaction between the intervention and factors present in the context.

T. Solium life cycle (Source O'Neal et al., 2014).



Objective

To identify the contextual factors and using examples to demonstrate how they may have interacted with interventions to influence their successful implementation and evaluation.

Methodology

1. A systematic literature review (SLR) - Field-based interventions between January 1950 and May 2019, PRISMA guidelines

2. Key informant interviews (KII) - KII with 11 researchers/implementers of the studies included in the SLR via

Skype

 An analytical framework developed to guide analysis based on Craig et al., 2018, Bardosh 2018 and Braae et al, 2019

Highlights from SLR

41 studies identified- Africa 15, Latin America 18, and Asia 8
 studies . 10 efficacy , 28 effectiveness and 3 scale up studies

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Contextual factor	Specific examples from the studies
Epidemiological	Baseline prevalence studies, baseline
	anthropological studies, loss to follow up and how to
	overcome, diagnostic methods
Social, economic and	Believes, attitudes and practices may maintain T.
cultural	solium transmission within a community and may be
	hard to change. Baseline knowledge can affect
	delivery and evaluation; motivation to rear pigs and
	importance of pigs in the community, language,
	cultural norms and taboos
Geographical and	Natural and built environment e.g., lack of roads,
environmental	lack of sample handling and storage facilities;
	seasonality of rainfall and cropping season.
Service and	Local capacities of staff and institutions; stakeholder
organizational	involvement and sensitization; incentives to ministry
	staff involvement in implementation.
Policy and strategies on <i>T.</i>	country laws on licensing of the drugs and ethical
solium control	approvals; control of <i>T. solium</i> should be embedded
	within target country disease control; integration of
	T. solium control with existing disease control
	programs.
Historical	Past involvement of target community and their
	experiences about other projects.
Political	Power dynamics among stakeholders; influence and
	power of local administrators.
Financial	Sources and mechanisms for funding for the
Conclusion	intervention; costs versus the benefits.

Conclusion

- Success or failure of the interventions may be attributed to the
 interaction between the intervention and factors present in the context
- Contextual factors should be consistently evaluated at the planning,
 implementation and evaluation stages and documented.
- Article available at

https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.000









