

Effectiveness and cost efficiency of active community-based surveillance augmented by referral slips on reducing zero-dose and under-immunized children in pastoralist/ semi-pastoralist communities in Ethiopia.

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 SABIN
VACCINE INSTITUTE

 coregroup
Partners Project

 CCRDA
Consortium of Christian Relief &
Development Associations

 IHEA
INTERNATIONAL HEALTH
ECONOMICS ASSOCIATION

IMMUNIZATION
ECONOMICS.ORG

CCRDA-CGPP





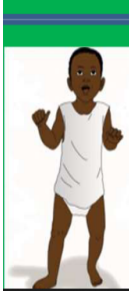

- The Consortium of Christian Relief and Development Associations (CCRDA) is the first legally registered Association of NGOs operating in Ethiopia.
- CCRDA envisions seeing poverty-free Ethiopia with vibrant civic society organizations and assured social justice.
- Hosted by CCRDA, CORE Group Partners Project (CGPP) Ethiopia has established a collaborative platform for local and international non-governmental organizations (NGOs) operating in hard-to-reach areas, specifically pastoralist and mobile communities along the country's western, eastern, and southern international borders of Ethiopia
- CGPP strives to envision that Ethiopian women and children are granted unrestricted access to essential primary healthcare services, thereby ensuring optimal child survival.

Community Volunteers



- Members of the community
- Selected by their wish to serve the community
- Expected to work two hours per day and two days per week
- Supported by the community for their work
- Relatively non-paid but received incentives
- ➔ Connecting the public and the health provider

Context of Referral Slip

	<p>CORE Group Partners Project <i>Pregnant mothers referral slip</i></p>	<p><i>Pregnant women must visit a health facility for antenatal care services.</i></p> 
	<p>CORE Group Partners Project <i>Newborns referral slip</i></p>	<p><i>Newborns should take Polio and BCG vaccines immediately after birth</i></p> 
	<p>CORE Group Partners Project <i>Vaccination defaulters referral slip</i></p>	<p><i>Unvaccinated and partially vaccinated children are exposed for disease, disability and death.</i></p> 

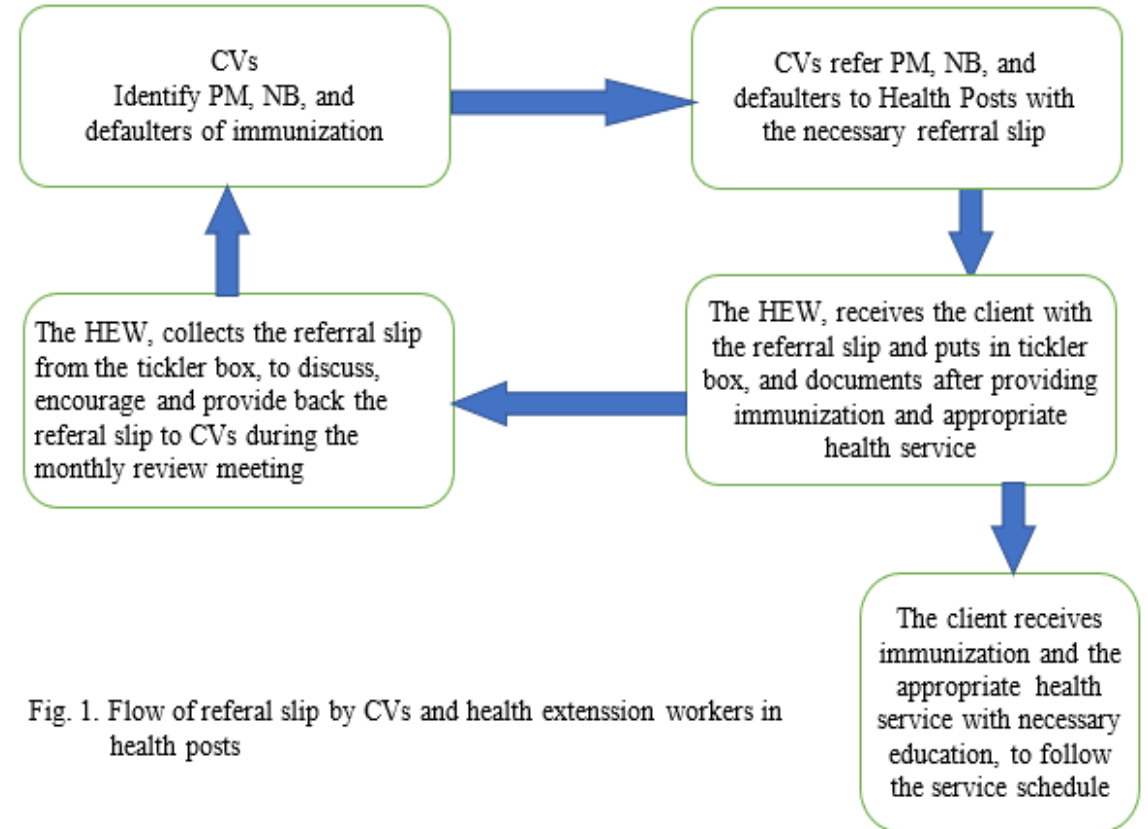


Fig. 1. Flow of referral slip by CVs and health extension workers in health posts

Objective

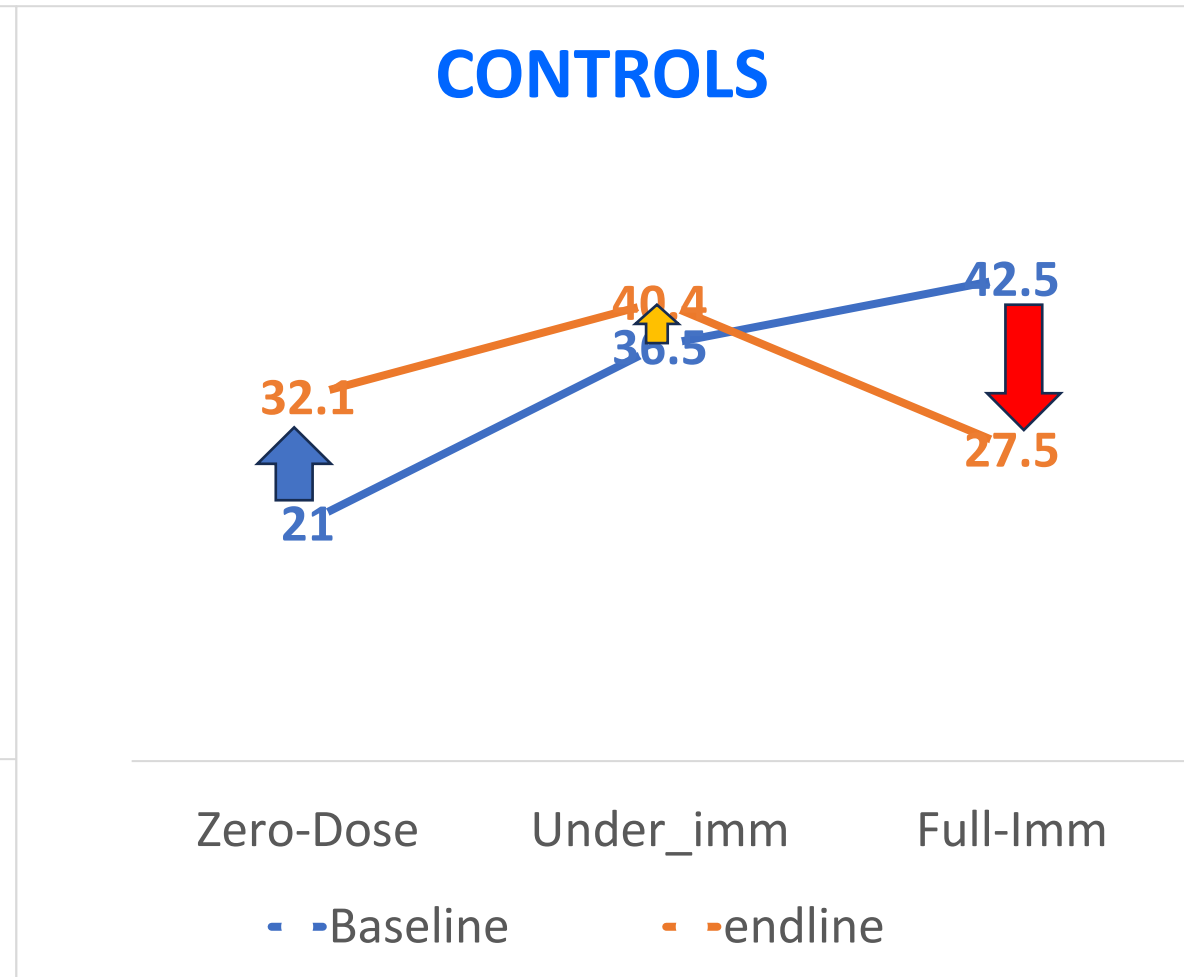
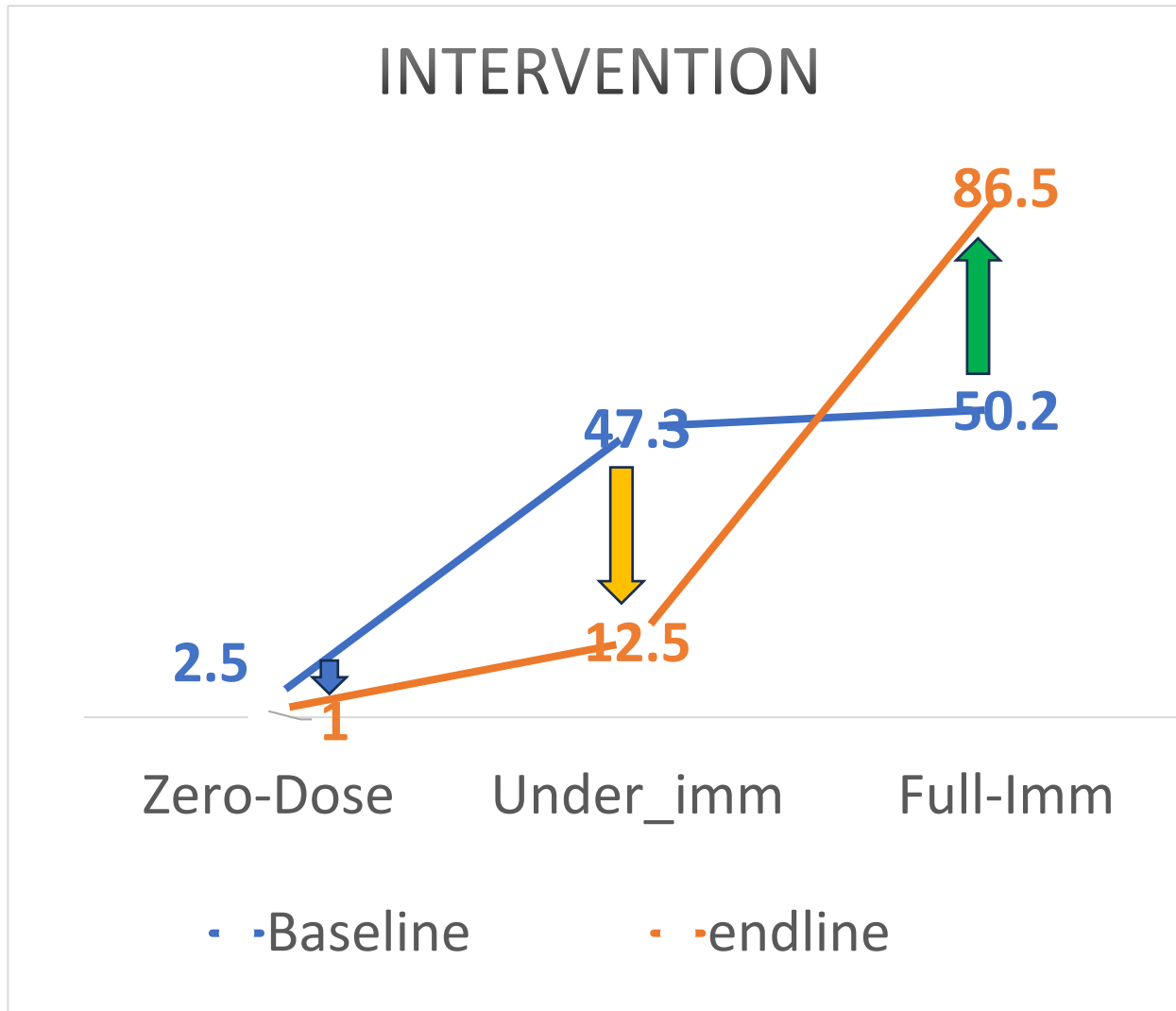
- To assess the effect of the CV in improving the full immunization coverage and reducing zero-dose and under-immunized children
- To assess the cost-effectiveness of the intervention by evaluating the program's performance.

Method

- A cluster-randomized controlled trial (cluster-RCT) in Ethiopia studied pastoralist communities.
- Twelve rural kebeles (480 children aged 12-23 months) were assigned to the **intervention group**, and 12 were assigned to the **control group**. In general, 960 caretakers participated.
- Data collected via ODK and analyzed in SPSS.
- Immunization coverage, zero-dose status, and under-immunization were compared
- Financial data were collected. Cost-effectiveness was analyzed only in the intervention areas.

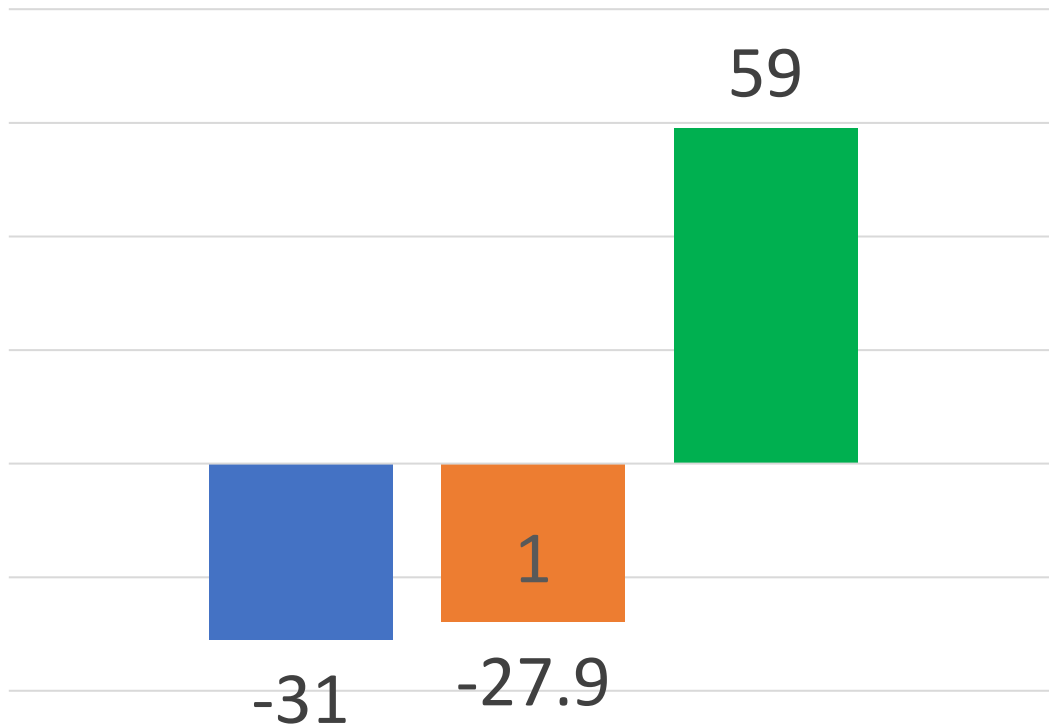
Results

Description of immunization at baseline and end-line survey

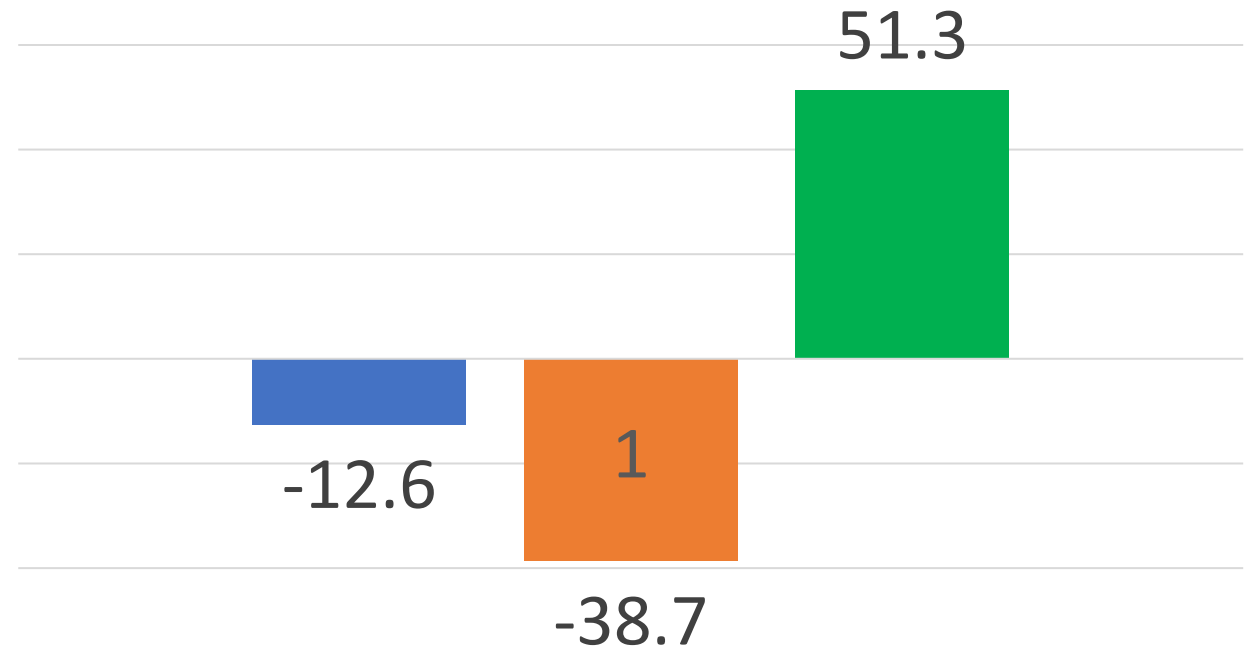


Effect Size

Direct effect

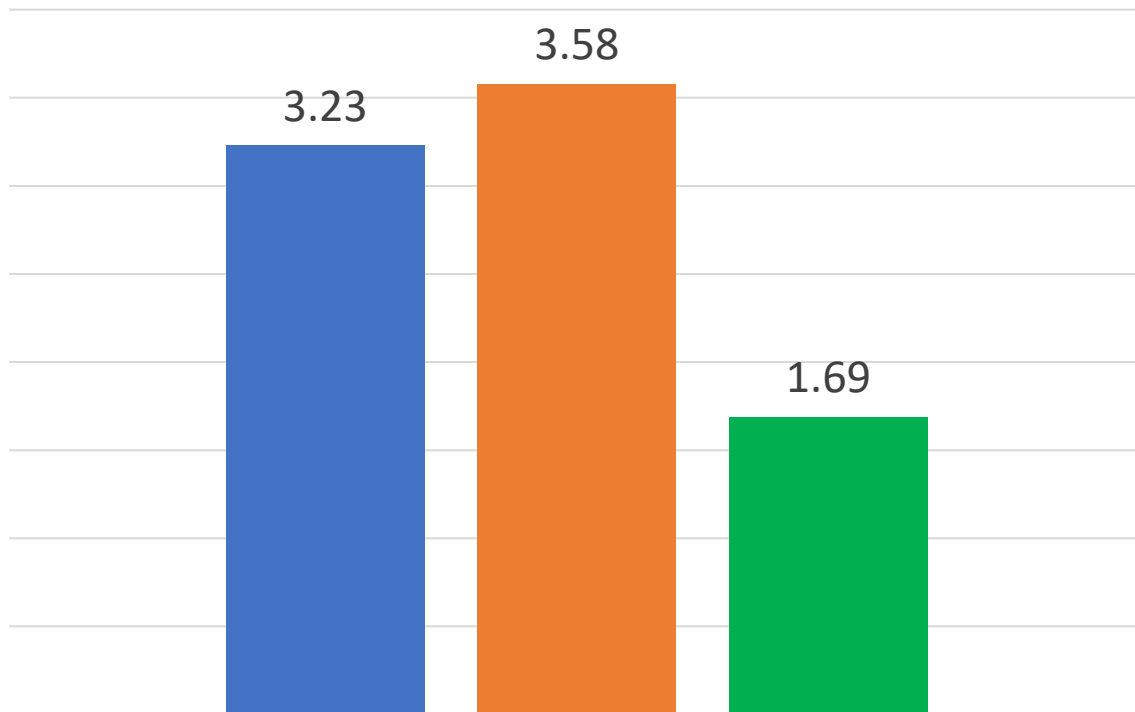


Difference in difference

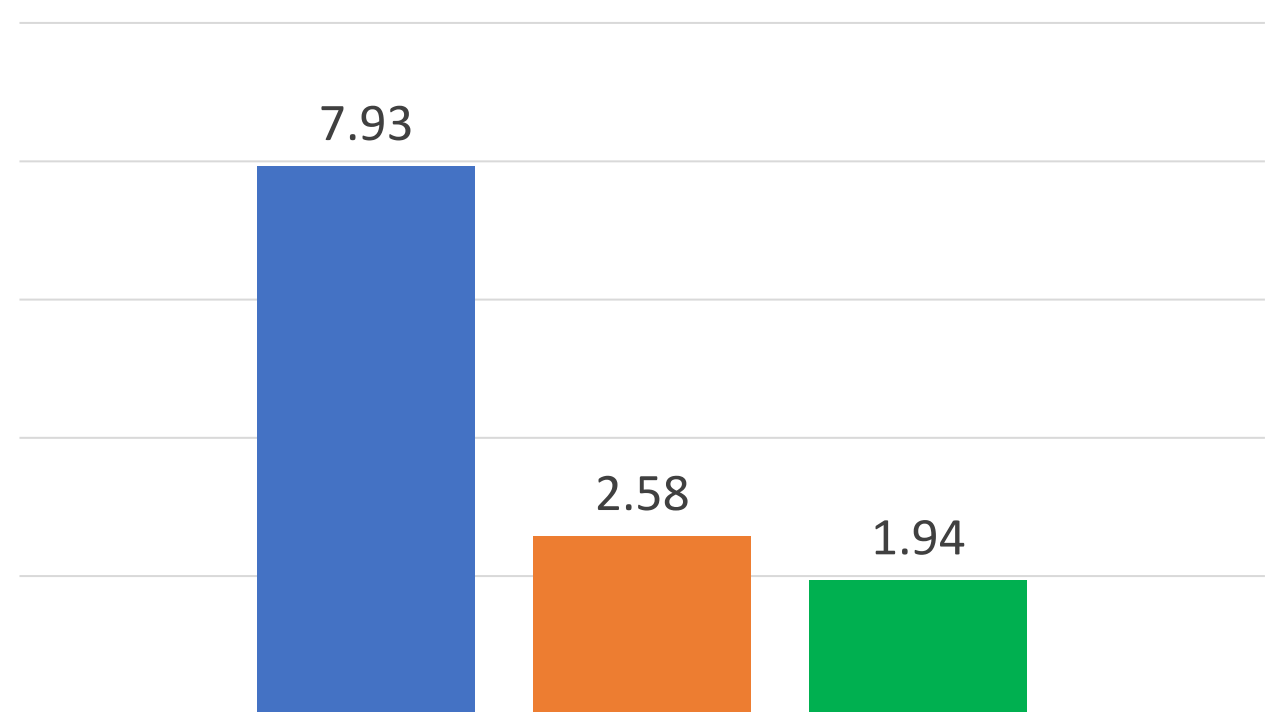


Number needed to reduce/ improve

Direct effect

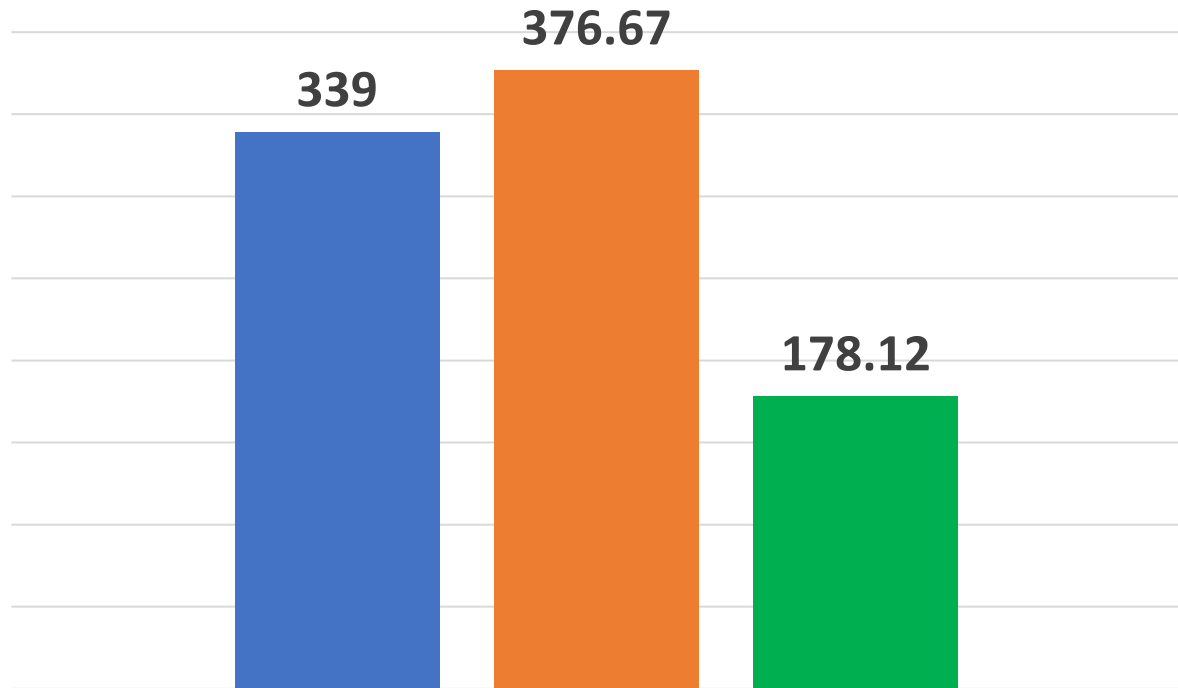


Difference in Difference method

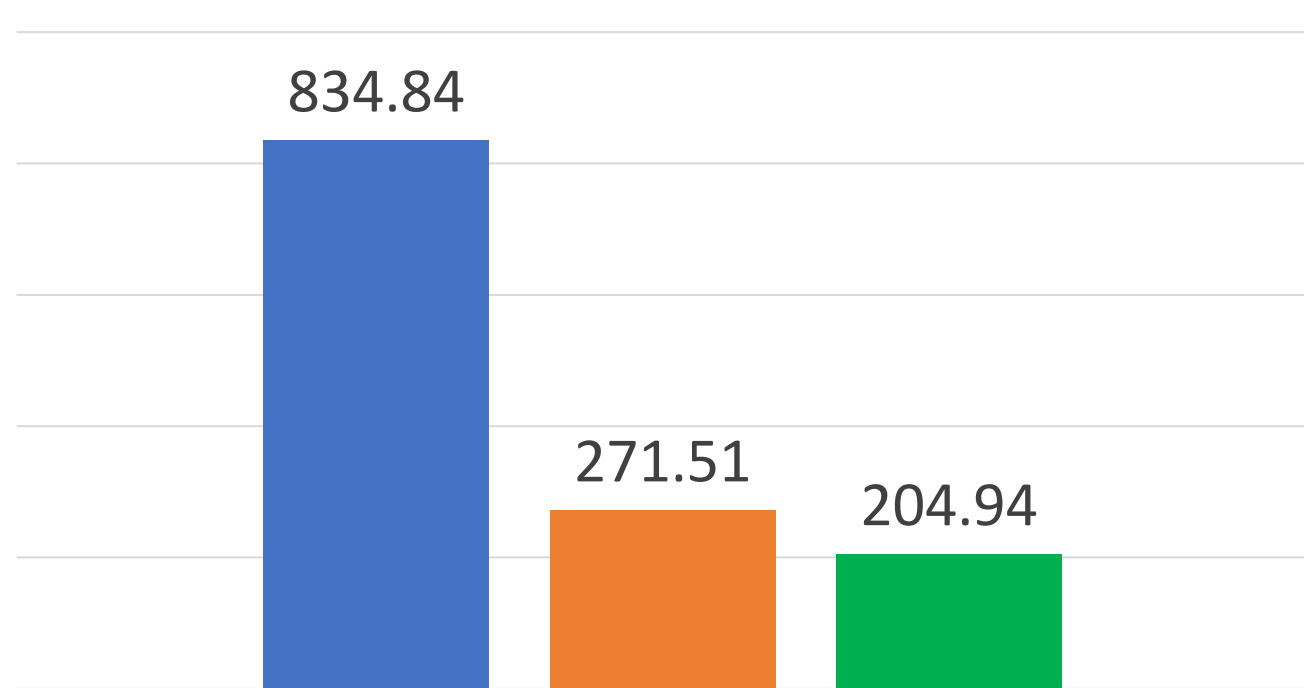


Cost needed (\$) to reduce/ improve by 1%

Direct method

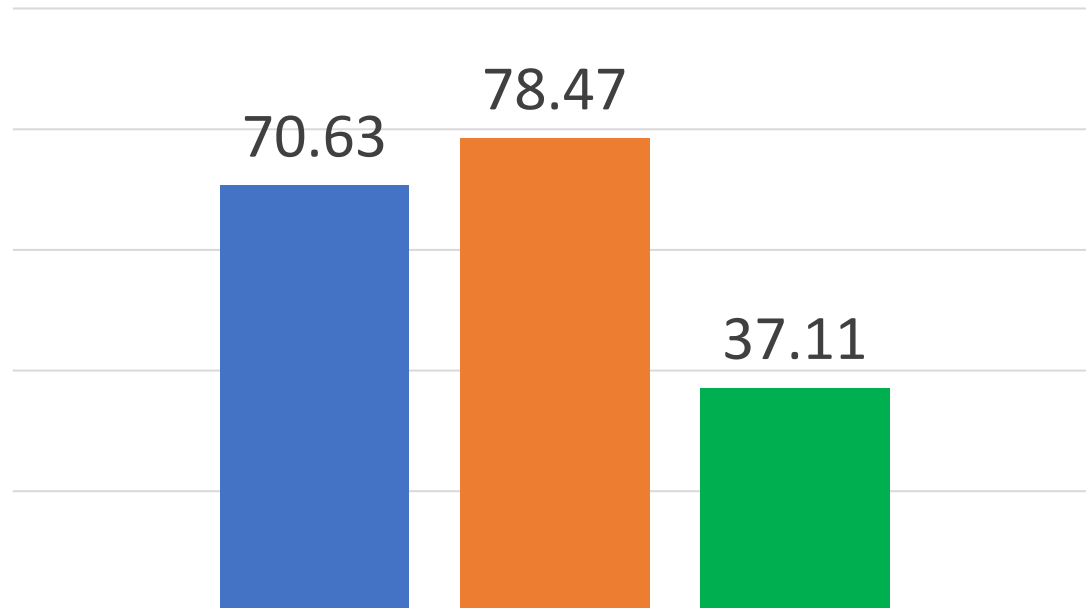


Difference in Difference Method

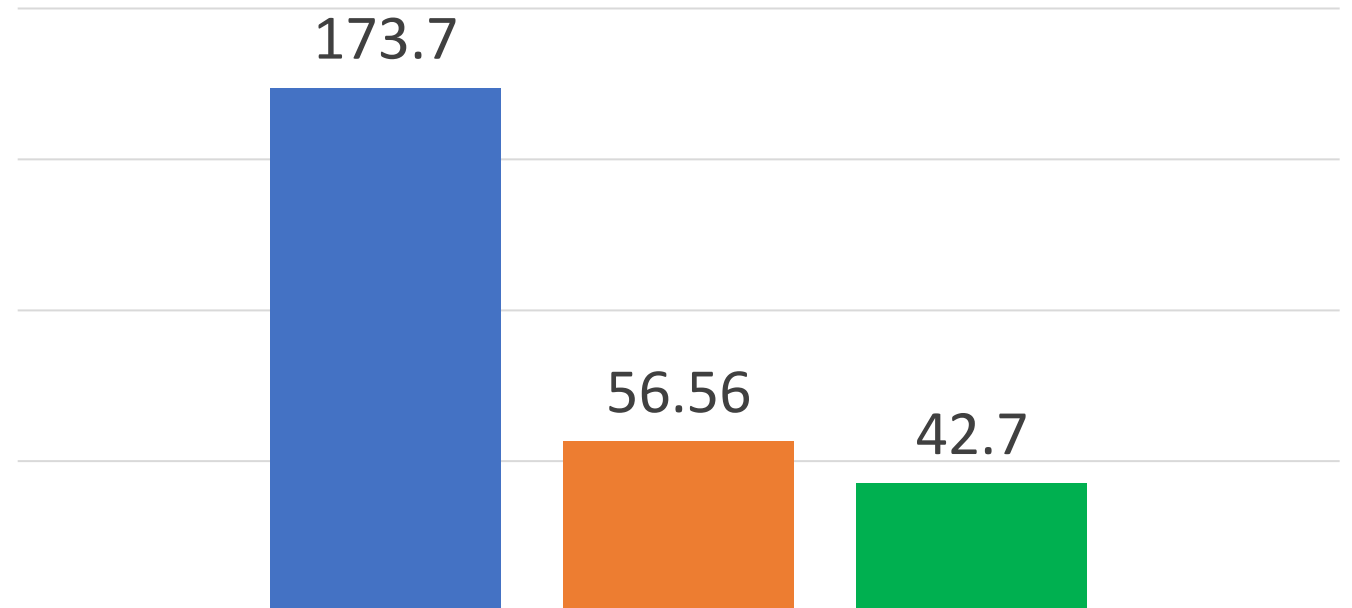


Cost needed (\$) per individual reduction/improvement

Direct methods



Difference in difference method



Recommendation

- Establishment of the system [Comm. Volunteers
- Adopt similar intervention strategies
- The need for further studies to replicate this approach in other settings
- Collaboration of policymakers and researchers to implement evidence-based strategies that reduce barriers to vaccination.

Thank you

Special thanks from the research group

- The Sabin Vaccine Institute for funding the project
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- CGPP Zonal Coordinators
- IHEA.
- Sincere gratitude for Professor. Negussie Deyesaa (the lead of the research).
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