

A Cluster Randomized Trial to Measure the Impact of 3GIRS in Mozambique:

A summary of year 1 and future directions

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BMJ Global Health Combination of indoor residual spraying with long-lasting insecticidetreated nets for malaria control in Zambezia, Mozambique: a cluster randomised trial and cost-effectiveness study protocol

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Protocol

- 1. Aligning entomological and epidemiological impact
- 2. Costing & cost effectiveness methodologies
- 3. Preliminary costing considerations
- 4. General summary & Future directions
- 5. Questions & discussion



Aligning entomological and epidemiological impact

Preliminary Impact of 3GIRS in Mopeia - 2016 Spray Campaign



No IRS Incidence
IRS Incidence

Aligning entomological and epidemiological impact

Preliminary Impact of 3GIRS in Mopeia - 2016 Spray Campaign



No IRS Incidence IRS Incidence Non-IRS [CDCLT]

Work is ongoing to prospectively estimate

- (1) The cost of the 3GIRS campaigns in Mopeia
- (2) The cost of a case of u5 malaria from the societal prospective

Primary study outcomes include

- (1) The cost of 3GIRS per case averted in the u5 population at the community level
- (2) The cost of 3GIRS per case averted in the u5 population a the health facility level



RR of 0.81 ($CI_{95} 0.79 - 0.83$)





According to the 2015 MIS, in Zambezia 56.9% of all febrile children under 5 sought care at a formal health facility ¹



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Approximately \$54 per child (u5) protected Approximately \$8 per person protected

Preliminary Observations

- While the ACD data has not been analyzed we see a clear additional benefit in the u5 population
- The benefit for adult cases is less clear in both the cross-sectional and PCD data
- The background mosquito densities, while halved by IRS, continue to be high

- Epidemiology: full analysis of the ACD data
- Cost-Effectiveness: analyzing the cost to the health system and analyzing the societal cost
- Entomology: conducting molecular analysis and determining EIR
- LLIN distribution: conducting an analysis of the effect of the LLIN distribution

Thank you, Obrigado, Merci!







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