



Evaluating Adoption Rates in Public Health Surveillance Systems Through Randomized Field Trials in South Africa: A Methodological Assessment

Sipho Malinga^{1,2}, Makgoba Tshabalala^{3,4}, Ntokozo Nkabinde^{1,5}, Thabo Makubo⁵

¹ Council for Scientific and Industrial Research (CSIR)

² Vaal University of Technology (VUT)

³ Department of Epidemiology, Vaal University of Technology (VUT)

⁴ University of KwaZulu-Natal

⁵ Department of Pediatrics, Vaal University of Technology (VUT)

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Correspondence: smalinga@yahoo.com

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Author notes

Sipho Malinga is affiliated with Council for Scientific and Industrial Research (CSIR) and focuses on Medicine research in Africa.

Makgoba Tshabalala is affiliated with Department of Epidemiology, Vaal University of Technology (VUT) and focuses on Medicine research in Africa.

Ntokozo Nkabinde is affiliated with Department of Pediatrics, Vaal University of Technology (VUT) and focuses on Medicine research in Africa.

Thabo Makubo is affiliated with Department of Pediatrics, Vaal University of Technology (VUT) and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems in South Africa are critical for monitoring diseases and managing outbreaks effectively. A randomized controlled trial (RCT) was conducted across three provinces in South Africa to assess the uptake and integration of these tools into routine healthcare practices. The study employed statistical models to analyse data from surveys and observational studies.

$$ext \{ Adoption Rate \} = rac \{ ext \{ Number of Adopters \} \} \{ ext \{ Total Number of Eligible Participants \} \}$$

The findings suggest a moderate adoption rate for the new surveillance tools, with some variability depending on regional healthcare infrastructure and resource availability. Based on these results, recommendations are made to improve training protocols and support mechanisms for health workers in adopting and using the new surveillance systems effectively. Public Health Surveillance, Randomized Field Trials, Adoption Rates, South Africa

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