

New generation of typhoid vaccines rolled out across Malawi

September 12 2023



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A nationwide rollout of the latest typhoid vaccine for all children under 15 has begun in Malawi.

Following successful vaccine [trials](#) in Malawi, more than 7 million children in the country have received Typhoid Conjugate Vaccine

(TCV), in one of the largest immunization campaigns ever conducted in the country. The vaccine is now being included as routine for all children going forward.

The first major advance in typhoid vaccines in a generation, TCV can improve [immunological responses](#) and memory, and the trials have now proved that they offer increased efficacy over older vaccines, from around 55% to over 80%.

The clinical trials of TCV, led by the Malawi-Liverpool-Wellcome Program (MLW), were the first in Africa and showed that the vaccine was 84% effective to prevent episodes of typhoid, and also showed excellent safety and [cost-effectiveness](#). More than 28,000 children living in Malawi participated in the trial, which paved the way for national roll-outs in Malawi and other African countries.

MLW is a partnership between the Kamuzu University of Health Sciences, the University of Liverpool and the Liverpool School of Tropical Medicine.

The trial followed 10 years of work establishing the pattern and burden of rapidly-spreading Typhoid in Malawi. The need for the [vaccine](#) is particularly urgent because of recent increases in multi-drug antibiotic resistance across the continents of Africa and Asia.

The University of Liverpool's Professor Melita Gordon, head of the Salmonella research group at MLW and a UK NIHR Research Professor said, "I am immensely proud of what has been achieved with our local participants, our teams of health workers, our local scientists, and our longstanding partners in the Malawi Ministry of Health and Kamuzu University of Health Sciences. Our typhoid research over more than a decade is now making a real impact on Malawi's population health, preventing many illnesses, improving the lives of families, and saving

lives. We hope to soon see more countries introduce TCV and help save more lives."

Provided by University of Liverpool

Citation: New generation of typhoid vaccines rolled out across Malawi (2023, September 12)
retrieved 28 April 2024 from

<https://medicalxpress.com/news/2023-09-generation-typhoid-vaccines-malawi.html>

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