

# 2<sup>nd</sup> Biomedical Engineering Conference and Expo

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## Malaria-Typhoid Duo-Strip

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The malaria-typhoid duo-strip is a single strip designed to detect both malaria and typhoid parasites simultaneously using the same blood sample. This strip works on the same principles as standard pregnancy test kits and consist of lateral diffusion of a solution containing lysed blood and colloidal gold- labelled antibodies down a strip holding another for detecting for an antigen produced by the plasmodium and anti-Salmonella antibodies which indicates the presence of *S. Typhi* Antigen in the specimen. Positive results for either condition are represented separately for ease in interpretation and show both results for a single infection of coinfection. The strip is able to isolate specific antigens for the case of malaria and antibodies for salmonella typhoid and independently represent them for medical interpretation. It is especially designed for home use thus very easy to use. The strip is designed to improve accuracy compared with the current RDTs for both illnesses and the antigens and antibodies used are chosen and used carefully such that one test does not interfere in the results of the other.

The malaria-Typhoid Duo-strip will not only save millions of lives, but also significantly increase productivity and save Africans a lot of money spent on mitigating the direct impacts of Malaria and Typhoid.

### Biography

Nakato Shadia is presently making her studies in Bachelor of Science in Biomedical Engineering from Makerere University. She completed her schooling at Kawempe Muslimss.

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