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A psychometric tool to measure AMR related knowledge, attitudes, and behavior

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Antimicrobial resistance (AMR) is an escalating global health crisis, with particularly devastating impacts on developing countries in the Global South. AMR development is largely driven by human behavior. To mitigate current trajectories of global AMR development, it is vital to understand the psychology underlying this behavior. Therefore, we developed a new measurement toolbox to assess individuals' knowledge, attitudes, and behavior regarding AMR. Item development was based on a Delphi study. We administered the initial item pool to a general-population sample of N = 502 German participants, evaluated psychometric criteria, and used them to select the best items. Next, we used the best items to assess AMR-related knowledge, attitudes, and behavior in Zanzibar. Items were professionally translated to Swahili. N = 1218 Zanzibari participated in a large field study. Finally, knowledge and behavior were criterion validated in a third study with Slovakian GPs (N = 121). Based on this data, we establish cross-cultural validity of our tool and identify knowledge gaps and the prevalence of problematic behaviors in relevant target groups. The tool is open source, and this study can serve as a blueprint for cross-cultural adaptation. Considering the psychometric quality of the tool and the flexibility of the large item pool, we recommend it as a standard tool for behavioral studies on AMR.

Keywords

AMR, KAP study, psychology, behavior, social sciences

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Professional Status of the Speaker

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Junior Scientist Status

No, I am not a Junior Scientist.

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