

## Insights of vaccine production challenges in developing countries: Current status in Tanzania

Zachariah E Makondo, Stella Bitanyi, Andrew Chota and Richard Mwakapuja  
Tanzania Vaccine Institute, Tanzania

Vaccine production in developing countries is a challenging subject that requires attention. Tanzania is one of the developing countries in sub-Saharan Africa that strive to overcome the dilemma. These shortfalls lead to vaccine production under performance. Several issues were studied and analysed during development and production of veterinary vaccines in the Tanzania Vaccine Institute. Vaccine production, marketing and sales, research on vaccines and scientific innovation/technology development were critical issues in this subject. I-2 Newcastle vaccine, Anthrax and Black quarter vaccines were developed and produced in 2012/3. The lesson learnt from the production, distribution and usage of these vaccines countrywide could justify continued efforts to produce other vaccines locally in a stringent manner. Studies underway include Brucella vaccine - S19 and Contagious Bovine Pleuropneumonia (CBPP) vaccine development that will finally lead to production in local setting. Vaccines are of critical importance for the control of infectious diseases and valuable to majority poor individual farmers in Tanzania. Limited financial resource, private sector inappropriate and poor technological development hinders the initiatives towards implementation of the ongoing vaccine development projects.

### Biography

Zachariah E Makondo has completed his PhD from Sokoine University of Agriculture (SUA) and currently is a senior Veterinarian and Public Health specialist at the Tanzania Veterinary Laboratory Agency (TVLA)/Tanzania Veterinary Institute (TVI) under the Ministry of Livestock and Fisheries Development of the United Republic of Tanzania. He is the TVLA Head of Microbiology department and a Biorisk Officer. He has undertaken over five contracted scientific research projects, and consultancy services in the public health, environmental issues, and socio economic studies. He has been an External Examiner/Referee and reviewer for numerous institutes and universities, i.e., examinations moderator and academic staff referee/evaluator (e.g., candidates for professional positions).

[zmakondo@gmail.com](mailto:zmakondo@gmail.com)