

Japan & Kenya develop biometric-based vaccination management system for newborns

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KEMRI and NEC announce trials on biometric-based vaccination management system for newborn children in Kenya



Kenya Medical Research Institute (KEMRI), NEC Corporation (NEC) and Nagasaki University, Japan, have developed a digital biometric-based vaccination management system for newborn children in Kenya. Validation of this system is taking place through KEMRI with a clinical trial that began in September 2022 at the Kinango Sub-County Hospital in Kwale and initial results are very encouraging.

The digital system being provided by NEC, a leader in the integration of IT and network technologies, and KEMRI, one of Africa's leading research Institutions, will effectively and seamlessly manage vaccination history and scheduling using fingerprint identification for newborn children and voice recognition for caregivers.

This technology marks the first time that biometric identification is being used at a hospital to identify newborn children at the time of vaccination, including those immediately after delivery. As of November 2022, data from more than 300 caregivers and newborns had been registered, including the vaccination histories of more than 150 newborns.

The new technology combines fingerprint identification for children and voice recognition for caregivers to confirm not only their identity, but also to reliably manage vaccination histories and schedules, thereby promoting the implementation of appropriate vaccinations for newborns and children during the first 24 months of life.

Going forward, demonstration tests that network among multiple hospitals will begin, aiming for full-scale introduction throughout Kenya by the end of 2023, and more international deployment in the future.