Health Facility Data Analysis: The Key to Improving Local Health Services Monitoring

Moderator: Cheikh Faye

Time (EDT)	Presentation · Speaker
8:00	**Introduction: Health facility data analysis – the gaps** · Ties Boerma
8:15	**Data quality assessment and adjustment for coverage estimates: systematic approaches** Generating coverage estimates from health facility data in Sierra Leone · Abdoulaye Maïga Using health facility data to assess regional and district performance · Rornald Muhumuza Kananura A review of geospatial methods and their potential use in the estimation of reproductive, maternal, newborn, child and adolescent health service indicators at subnational levels · Kristine Nilsen Commentary · Benson Droti
8:40	**Innovative uses of routine health facility data** Is South Africa closing the health gaps between districts? · Candy Day The use of health facility data to generate maternal and child health statistics in conflict-affected settings · Espoir Bwenge Cause of death statistics from hospitals in Tanzania· Trust Nyondo
9:05	**Panel** Moderator: Agbessi Amouzou Panelists: Theresa Diaz, Peter Hansen, Peter Waiswa, Kaspar Wyss
9:25	**Closing remarks** Cheikh Faye

Moderator

Cheikh Mbacké Faye is a researcher-statistician and public health specialist who is the head of the APHRC Regional Office in West Africa, based in Dakar, Senegal. He leads APHRC's work on the Countdown 2030 Initiative for Women's, Children's and Adolescents' Health. He joined APHRC in 2010 as the country manager for the Measurement, Learning and Evaluation (MLE) project in Senegal. In 2014, he led the development of the APHRC Microdata Portal, an Open Data platform. He completed his doctoral research in public health from the University of Witwatersrand in South Africa, holds a master's degree in statistics (2001) from the Houari Boumediene University of Sciences and Technology in Algeria.

Presenters (in order of appearance)

Ties Boerma is director of the Countdown to 2030 for Women's, Children's and Adolescents' Health and a professor and Canada research chair for population and global health at the Institute for Global Public Health, Department of Community Health Sciences, University of Manitoba, Canada. He has more than 35 years of experience working in global public health and research programs, including 10 years at the national and district levels in Africa. He directed the World Health Organization's work on health information and evidence for 14 years, worked for bilateral donors, national governments, and research institutions, and published extensively on HIV/AIDS, maternal and child health, health information systems and statistics in epidemiological, demographic, and public health journals. A national of the Netherlands, he received his medical degree from the University of Groningen, and a PhD in medical demography from the University of Amsterdam.

Abdoulaye Maïga is an assistant scientist in the Department of International Health at Johns Hopkins Bloomberg School of Public Health, USA. He has an extensive experience in large scale evaluations of reproductive, maternal, newborn and child health & nutrition, analysis of mortality, population issues, using household and health facility surveys and health facility routine data. Low and middle income countries and sub-Saharan Africa specifically are the geographic focus of his research and projects.

Rornald Muhumuza Kananura has more than 9 years of experience in health implementation research in sub-Saharan Africa and in designing and implementing monitoring and evaluation systems. who is a research fellow at Makerere University School of Public Health's Maternal and Newborn Center of Excellence, Uganda, and a research team member of Countdown to 2030 for Women's, Children's and Adolescents' Health. He is also a third-year doctoral student in international development at the London School of Economics and Political Science, applying systems thinking and life-course perspectives to understand child survival pathways or mechanisms in Uganda.

Kristine Nilsen is a lecturer in global health at the University of Southampton, UK. She is a social statistician with more than 15 years' experience working with governments and the United Nations on measuring health indicators and tracking health inequalities in low- and middle-income countries. Her expertise is in the conceptualisation, design, and analysis of quantitative household surveys and in the application of generalised linear mixed effects models and model-based predictions, including small area estimation and geo-spatial modelling. She has published several papers on the accessibility and utilisation of maternal health services and on subnational spatial inequalities.

Benson Droti is a technical officer and team leader with the WHO, based at the regional office for Africa in Brazzaville, Republic of Congo. He is a medical doctor, an epidemiologist, and a public health expert with vast experience in health information systems. In the past seven years, he has been supporting countries in the African region to improve their national health information system and analyses and use health data to support health systems and policy development and implementation. He is inspired by new innovations in health information systems, including innovations in information technology.

Candy Day is a technical specialist in information dissemination at Health Systems Trust, South Africa, and has been seconded to the DG Murray Trust for 2021/22 to support the COVID-19 national vaccination program. A pharmacist with a masters degree in clinical pharmacology and subsequent training in medical informatics through the International Training in Medical Informatics fellowship and other courses, she has worked on developing information resources in the field of public health for the past 25 years, focusing on health indicators, monitoring and evaluation and health systems performance assessment. She is co-author of the annual chapter on Health and Related Indicators in the South African Health Review and co-editor of the District Health Barometer.

Espoir Bwenge Mwalembaka is a post-doctoral research fellow in the Department of Epidemiology at Johns Hopkins University, based in South Kivu, DR Congo. He graduated from the Université Catholique de Bukavu and worked as a physician in the Department of Paediatrics at the Bukavu Provincial Referral General Hospital for about one year. After receiving a master of public health training at the Makerere University, Uganda, he returned to Université Catholique de Bukavu in 2017 to participate in teaching and research. In the same year, Espoir

enrolled for a PhD degree at the University of Louvain (Belgium) while continuing to do research in the Kivu, thanks to a scholarship from the Belgian government.

Trust Nyondo is a monitoring and evaluation specialist, with 10 years of experience working with the Tanzania Ministry of Health, Community Development, Gender, Elderly and Children (MOHCGEC). She is the ministry's coordinator for the programs in civil registration and vital statistics and cancer registration and also takes a lead in proposal writing and grants making for monitoring & evaluation. She holds a master of arts in monitoring and evaluation from the Open University, Tanzania, and a bachelor's degree of arts in statistics from the University of Dar es Salaam.

Panelists (in alphabetical order)

Agbessi Amouzou is a demographer and an associate professor in the Department of International Health at JHU. His interests are on approaches for measuring and monitoring child mortality and coverage of high impact maternal, newborn and child health programs in low and middle income countries, and the evaluation of the effectiveness of large scale MNCH programs in LMIC. He is active in global public health practice and participates in key technical and accountability initiatives in MNCH, including Countdown to 2030 for Women's, Children's, and Adolescents' Health, and co-chairs the WHO's Mother and Newborn Information for Tracking Outcomes and Results. He currently leads the development and implementation of a countrywide sample registration system for mortality and cause of death measurement in Mozambique. For two and half years, he led the MNCH coverage data analysis for global and country monitoring at UNICEF Headquarters in New York.

Theresa Diaz is the unit chief of the Epidemiology and Monitoring and Evaluation team in the Maternal Newborn Child and Adolescent Health and Ageing Department at the WHO.

Previously she served as the lead of the Knowledge Management and Implementation Research Unit in the Health Section at UNICEF. She worked for CDC for 20 years, in roles that included the Global AIDS surveillance team leader, the branch chief of the Epidemiology and Strategic Information Branch of the Global AIDS Program. She holds an MD from Columbia College of Physicians and Surgeons and an MPH from the Columbia School of Public Health. She completed the Epidemic Intelligence Service (EIS) training at the Centers for Disease Control while working for the Puerto Rico Health Department.

Peter Hansen leads the Global Financing Facility's workstream on data and results measurement. Previously, he co-led Results for Development's health portfolio and served as director of the Health Systems Strengthening Accelerator. He also worked at the Global Fund to Fight AIDS, Tuberculosis and Malaria, where he led a department responsible for accelerating the introduction and scale up of innovations and ensuring scientific and technical quality of investments totaling nearly $4 billion per year in over 100 countries. He also worked at Gavi, the Vaccine Alliance, where he led the monitoring and evaluation function and investments in strengthening country data systems and capacities.

Peter Waiswa is an associate professor at Makerere University School of Public Health, College of Health Sciences, Uganda, and a visiting researcher at Karolinska Institutet, Sweden. A leading newborn and child health researcher in Africa, he is a founder and coordinator of the INDEPTH Network Maternal and Newborn Research Group in Accra, Ghana, and the Makerere University Maternal and Newborn Centre of Excellence, Uganda. He is a member of several global boards including the WHO Independent

Advisory Board for Maternal, Newborn, Child and Adolescent Health.

Kaspar Wyss is a professor at the University of Basel, Switzerland. He is deputy director of the Swiss Tropical and Public Health Institute and heads the Swiss Centre for International Health, managing transnational research and implementation projects in Africa and Eastern Europe. Since 2011 he has done comparative analysis work-package within PERFORM. Under Horizon 2020, he was granted funding for researching health systems and governance effects of the introduction of epidemiological surveillance system for the control of the coronavirus in Nepal and Côte d'Ivoire. He is trained in biology (MSc) and epidemiology (PhD) and holds a MPH and an MBA.