

ABSTRACTS OF

# TANZANIA HEALTH SUMMIT 2020

25th - 26th November 2020, DODOMA

Editors:

Eligius Francis Lyamuya & Omary Chillo



**THIS-2020**

Eligius Francis Lyamuya  
Omary Chillo  
(Editors)

*Abstracts of*  
***Tanzania Health Summit 2020***

*THS-2020 (25<sup>th</sup>–26<sup>th</sup> November 2020)*

*Organized by*

- Ministry of Health Community Development, Gender, Elderly and Children (MoHCDGEC)
- President Office Regional Administration and Local Government (PORALG)
- Ministry of Health, Social Welfare, Elderly, Gender and Children Zanzibar
  - Association of Private Health Facilities in Tanzania (APHFTA)
- National Muslim Council of Tanzania (BAKWATA); Christian Social Services Commission (CSSC)
  - Tindwa Medical and Health Services (TMHS).

*Published by*

AIJR Publisher, Dhaurahra, Balrampur, India 271604



Abstracts of Tanzania Health Summit 2020 (THS-2020)

25<sup>th</sup>–26<sup>th</sup> November 2020

*Editors*

**Prof. Eligius Francis Lyamuya**

Professor,

Department of Microbiology and Immunology,

Muhimbili University of Health and Allied Sciences (MUHAS)

**Dr. Omary Chillo**

Head,

Department of Physiology,

Muhimbili University of Health and Allied Sciences (MUHAS)

*Conference Organizers*

- Ministry of Health Community Development, Gender, Elderly and Children (MoHCDGEC)
- President Office Regional Administration and Local Government (PORALG)
- Ministry of Health, Social Welfare, Elderly, Gender and Children Zanzibar
- Association of Private Health Facilities in Tanzania (APHFTA)
- National Muslim Council of Tanzania (BAKWATA); Christian Social Services Commission (CSSC)
- Tindwa Medical and Health Services (TMHS)

*Conference Venue*

St. Gasper Hotel and Conference Centre in Dodoma, Tanzania

ISBN: 978-81-947843-9-5

DOI: <https://doi.org/10.21467/abstracts.116>

*Type*

Abstract Book

*Series*

AIJR Abstracts

*Published*

24 July 2021

*Number of Pages*

108

*Copyeditor*

Dr. Adam A Bahishti

*Imprint*

AIJR Books

© 2021 [Copyright](#) held by the author(s) of the individual abstract. Abstracts are not considered as pre-publication and hence author(s) are free for subsequent publications. Abstracting is permitted with credit to the source.

This is an open access book under Creative Commons Attribution-NonCommercial 4.0 International (CC BY-NC 4.0) license, which permits any non-commercial use, distribution, adaptation, and reproduction in any medium, as long as the original work is properly cited.

*Published by*



AIJR Publisher, Dhaurahra, Balrampur, India 271604

## **Disclaimer**

This abstract book has been produced using author-supplied copy via conference organizer. Editing has been restricted to some formatting and style where appropriate. No responsibility is assumed for any claims, instructions, methods, diagnosis, treatment, or policy contained in the abstracts: it is recommended that these shall be verified independently. No responsibility is assumed by the publisher or conference organizer for any claims, instructions, methods or policy contained in the articles: Further, the conference organizer & AIJR publisher both remain neutral with regard to jurisdictional claims in published maps and institutional affiliations.

**THS-2020**

## Table of Contents

Disclaimer .....	i
Foreword .....	viii
About the Summit .....	ix
About the Editors.....	x
Acknowledgement.....	xi
Use of On-the-job Training (OJT) to Cascade Antenatal Care (ANC) Guidelines to Health Care Workers (HCWs) in Improve Uptake of IPTP in Pregnancy: Case Study for Usaid Boresha Afya- Lake and Western Zone .....	1
I Wish to Continue Receiving the Reminder SMS: A Mixed Methods Study on the Acceptability of Digital Adherence Tools Among Adults on Antiretroviral Treatment .....	2
Strengthening the Health Supply Chain in Tanzania- MSD and Jazia PVS Joining Forces to Provide Population with Health Commodities .....	3
Selected Findings from Pilot Birth Companionship in Kigoma on the Contribution of Continuous Emotional Support Through Birth Companionship in Increasing Facility Delivery and Improving Maternal and Newborn Outcomes .....	4
Social Economic Inequalities and Adherence to MNCH Regimens; Can We Do More to Help the Poor .....	5
An Effective Approach for Remote Technical Assistance for the Private Healthcare Sector in Tanzania.....	6
Healthcare Technology Management (HTM): Transforming Lake Zone Patient Care by Establishing East Africa’s First Centre of Excellence in Biomedical Engineering at Bugando Medical Centre, Mwanza .....	7
Risk factors for loss to follow-up among HIV-infected adults attending health care facilities in Tanga region, Tanzania .....	8
The role of gender power relations on women’s health outcomes in Tanzania: evidence from a maternal health coverage survey in Simiyu, Tanzania.....	9
Repetitive Cancer Awareness Training for Health Care Providers in the Kilimanjaro Region, Tanzania .....	10
White Matter Integrity in Tanzanian Children with Sickle Cell Anemia: A Diffusion Tensor Imaging Study ....	11
A Qualitative Study on Awareness, Perceptions, Facilitators and Barriers to Physical Activity Among People Living with HIV in Mwanza, Tanzania .....	12
Prevalence, Factors, and Complications of Knee Osteoarthritis Among Adult Patients, Attending Orthopedic Clinic at Kilimanjaro Christian Medical Centre, Kilimanjaro .....	13
Integrated Hypertension and Diabetes Mellitus Type II Treatment and Care Among People Living with HIV/Aids Attending Care and Treatment Center in Dar Es Salaam, Tanzania in 2020: A Health Facility Based Project .....	14
Empowering Under-Served and First-Time Young Mothers to Establish Informal Networks and Social Supports: Experience from Moivo Health Facility in Arusha District Council.....	15
Prevalence and Factors Associated with Post-Partum Depression Among Women in Rural Tanzania: A Mixed Method Study.....	16

Implementation Bottlenecks of evriMED for Improving Adherence to Anti-Tuberculosis Drugs Among Tuberculosis Patients in Kilimanjaro .....	17
An Interactive E-Health Machine Learning Model to Combat Pandemic Diseases: A Case Study of Tanzania .	18
Integration of Malaria Case-based Surveillance (Coconut) and District Health Information Software (DHIS2) In Zanzibar to Improve Data use in Decision Making .....	19
Application of Digital Platform to Enhance Quality Improvement in Momcare Facilities in Manyara .....	20
Interactive Voice Response Calling for Increasing Knowledge and Access to Family Planning Methods Among Maasai: Participatory Action Research .....	21
Towards A Digitally-Enabled, Community-Based Responsive Health System in Tanzania: A Formative Study for the Afya-Tek Digitised Health Initiative .....	22
Effectiveness of a Digital Adherence Tools (DAT) on Adherence to Anti-Tuberculosis Treatment: Preliminary Results of an Implementation Study Among TB Patients in Kilimanjaro .....	23
Gender Differentials in Surgical Uptake: A Case Study on TT Outreach Surgery in Pwani and Mtwara Regions, Tanzania .....	24
Trachomatous Trichiasis Surgical Refusals in Mtwara, Tanzania .....	25
Assessment of Knowledge, Perception, and Practice on Sexual and Reproductive Health Among Adolescents with Disabilities at Ilala, Dar Es Salaam.....	26
Acceptability of A Complementing Medical Stores Department in Tanzania with A Prime Vendor - An Assessment of Perceptions Regarding Jazia PVS .....	27
Does Accountability Matter in Supply Chain Management? - The Role of Accountability in the Performance of Jazia Prime Vendor System in Tanzania .....	28
Cost and Cost Drivers Associated with Setting-up A Prime Vendor System to Complement the National Medicines Supply Chain in Tanzania .....	29
Nationalization of Community Health Volunteers into A Single Cadre System in Zanzibar.....	30
Accounts of Antimicrobial use Among Pastoralists, Veterinarians, and Drug-Sellers in Northern Tanzania: Implication for the Strengthening of Antimicrobial Resistance Awareness and Stewardship Campaigns .....	31
Service Availability and Health Care System Readiness in Integrating Dual Tuberculosis and Diabetes Mellitus Services in Tanzania: A Cross-Sectional Survey .....	32
Status of School Water, Sanitation and Hygiene Facilities in Addressing Gender Needs for Menstrual Hygiene Management and its Effect on Schoolgirls .....	33
Morphometric Study of the Proximal Dry Femur and its Potential Application in Prosthesis Designing in Tanzania .....	34
Intimate Partner Violence and Challenges Facing Women Living with HIV/Aids in Accessing Antiretroviral Treatment at Singida Regional Hospital, Central Tanzania .....	35
Patient Attendance at Post-Operative Follow-ups After TT Surgery: A Comparative Analysis of 1-10 Day and 3-6 Month Follow up Visits in Mtwara and Pwani, Tanzania.....	36
Trachoma Impact & Surveillance Survey (TIS and TSS) Failures in Tanzania: What Do Recent Investigations Reveal? .....	37



<b>Incidence of HIV Infection Among Children Aged Less Than 2 Years Born from HIV Infected Mothers Attending KCMC Hospital in Moshi Urban from January 2014 to December 2015 .....</b>	<b>38</b>
<b>Improving Malaria Data Quality for Programmatic Decision-Making: Findings from Data Quality Audits in Mainland Tanzania, 2019 .....</b>	<b>39</b>
<b>Surveillance of the Efficacy and Durability of LLINS Used for Malaria Control in Tanzania .....</b>	<b>40</b>
<b>Factors Influencing Exclusive Breastfeeding Among Lactating Mothers Infected with Human Immunodeficiency Virus and its Associated Infant Health Outcomes in Southern Highlands Regions-Tanzania: Analytical Cross-Sectional Study .....</b>	<b>41</b>
<b>Predictors of Unfavorable Tuberculosis Treatment Outcomes Among Mineworkers in Tanzania: A Case-Control Study .....</b>	<b>42</b>
<b>Effectiveness of DTG Based Regimens Towards Achieving 3rd 95 in HIV/Aids Services at Agpahi Supported Facilities.....</b>	<b>43</b>
<b>Use of Data to Improve Access to Maternal Health Services and Outcomes at Magugu Health Centre .....</b>	<b>44</b>
<b>Rapid Health System Adaptation During a Pandemic: A Case from Zanzibar CHV Program.....</b>	<b>45</b>
<b>Knowledge and Education Need on Puberty and Menstrual Health Among Adolescents' Boys and Girls from Selected Secondary Schools From Kibaha Town Council .....</b>	<b>46</b>
<b>Integrated Hypertension and Diabetes Mellitus Type II Treatment and Care Among People Living with HIV/Aids Attending Care and Treatment Center in Dar Es Salaam, Tanzania in 2020: A Health Facility-Based Project .....</b>	<b>47</b>
<b>Strategies Towards Meeting the Lymphatic Filariasis (LF) Elimination Goal in Tanzania .....</b>	<b>48</b>
<b>Index and Secondary Cases.....</b>	<b>49</b>
<b>Effect of Digital Adherence Tools on Adherence to Antiretroviral Treatment: Results from a Randomized Controlled Trial.....</b>	<b>50</b>
<b>Predictors of Unfavorable Tuberculosis Treatment Outcomes Among Mineworkers in Tanzania: A Case-Control Study .....</b>	<b>51</b>
<b>Project Extension for Community Healthcare Outcomes (Project ECHO) Improves Care and Treatment for Multidrug-resistant Tuberculosis Patients in Tanzania.....</b>	<b>52</b>
<b>Prevalence and predictors of HIV infection among exposed under five-year children in Muheza District, north-eastern Tanzania.....</b>	<b>53</b>
<b>Improving Access to Comprehensive Emergency Obstetric and Neonatal care Services in Underserved Rural Tanzania .....</b>	<b>54</b>
<b>The significant time lag is essential for surgical intervention programs to resume counseling for patients previously refusing TT surgery: Experiences of IMA World Health in Tanzania .....</b>	<b>55</b>
<b>Zanzibar Digital Health Strategy 2020/21-2024/25 – Overview and Steps Toward Implementation .....</b>	<b>56</b>
<b>Efficacy of Premarital Genotype Screening and Counseling on Knowledge and Attitude Toward Sickle Cell Disease Among University Students in Dodoma Tanzania: Uncontrolled Quasi-Experimental Study .....</b>	<b>57</b>
<b>Comparing Post-MDA Coverage Survey Data for Trachoma, Onchocerciasis and Lymphatic Filariasis with Reported Data Among 14 District Councils in Tanzania.....</b>	<b>58</b>

Evaluation of Window Screen Traps That Reduce the Mosquito Population in Insecticide Resistance Areas of North-Eastern Tanzania .....	59
Assessment of Knowledge, Perception, and Attitude Towards Screening for Breast Cancer Among Women in Tabata Kimanga Ward, Ilala District, Dar-Es-Salaam Region, Tanzania .....	60
Resistance Profile of <i>Anopheles Gambiae</i> Species Complex Against Common Pyrethroids from North-Eastern Tanzania .....	61
Molecular Characterization of Malaria Vectors in Gonja-Same District: The Impact of Insecticide-treated Net Interventions .....	62
Transforming Primary Health with Scalable Digital Referral System .....	63
Performance Reporting by Public Health Insurance Schemes (iCHF) .....	64
Gender and Health Education: Youths Familiarity on Sexual Transmitted Infections in Bagamoyo District, Tanzania .....	65
Access to Essential Maternal Health Commodities Key to Improving Quality and Adherence to Maternal Healthcare Regimes: Experience from a MomCare Project in Northern Tanzania .....	66
Factors Associated with Long-lasting Insecticidal Net use in Households with Detected Malaria Cases in Zanzibar, 2012-2019 .....	67
Knowledge and Practice of Wound Care and Their Influence on Surgical Site Infection Among Post Caesarean Section Women in Dodoma: A Cross-Sectional Analytical Study .....	68
Bringing about Behavior Change to Reduce Stunting Through Action-Oriented Support Group Negotiations	69
Acceptability and Satisfaction of Birth Companionship Among Health Providers and Clients in Rural Public Health Facilities in Kigoma, Western Tanzania .....	70
Improving Experience of Labour and Delivery Care Through Birth Companionship: Findings from A Qualitative Study on A Pilot Birth Companionship Project in Kigoma, Tanzania .....	71
Yes, My Husband Never Settled: Experience of Chagga Wives Living Separately from Their Husbands in Rural Kilimanjaro, Tanzania .....	72
Trends and Causes of Socioeconomic Inequalities in Maternal Healthcare Utilization in Tanzania .....	73
Innovative Approaches to Assess Preparedness of Health Facilities on Infection Prevention and Control of and Management of Emerging Infectious Diseases.....	74
Awareness About HIV Prevention and Control Act Among People Living with HIV in Northwestern Tanzania .....	75
The Prevalence of Breast Cancer Molecular Subtypes and Associated Risk Factors Among Women at a Tertiary Hospital in Dar Es Salaam, Tanzania .....	76
Assessing the Reliability of Surveillance Data Collected By District Malaria Surveillance Officers (DMSO) in Unguja, Zanzibar – 2019.....	77
Competence Among Fifth-Year Students Completing Surgery Rotation .....	78
Promoting Mental Health Among the Youth.....	79
Reviving School Health Program in Tanzania .....	80

<b>Male Engagement as a Strategy to Improve Household Health, Nutrition, and Parenting Practices in Mara, Tanzania .....</b>	<b>81</b>
<b>Prevalence of Vaccine-Preventable Diseases in Kilindi District, Tanga Region, Tanzania .....</b>	<b>82</b>
<b>Assessing the Knowledge, Attitude, and Prevalence of Pre-Eclampsia Among Women of Childbearing Age Admitted in Obstetric Ward at Morogoro Regional Hospital .....</b>	<b>83</b>
<b>Pattern of Femoral Fractures Associated with Road Traffic Accident in Patients Admitted at Muhimbili Orthopedic Institute .....</b>	<b>84</b>
<b>Towards Eradication of Female Genital Mutilation in Tanzania: Role of Community Leadership and Ownership .....</b>	<b>85</b>
<b>HIV/AIDS Fast Track Targets - Efforts to Address the 90% Among Men in Tanzania .....</b>	<b>86</b>
<b>Effects of eLearning on Knowledge Transfer, Knowledge Retention, and Quality of Healthcare Provision in Tanzania .....</b>	<b>87</b>
<b>Assessment of the Knowledge on Preventive Measures of Urinary Schistosomiasis Among Secondary Schools Students in Buchosa District, Mwanza, Tanzania .....</b>	<b>88</b>
<b>Mental Health Tanzania App for Service Users and Multidisciplinary Practitioners .....</b>	<b>89</b>
<b>Knowledge on Danger Sign in Pregnant Women and Health-Seeking Behaviour Among Pregnant Women at Temeke Referral Hospital .....</b>	<b>90</b>
<b>Assessment of Domestic Solid Waste Management In Itezi Ward Mbeya City, Tanzania, September 2019 ...</b>	<b>91</b>

## Foreword

The 7th Annual Tanzania Health Summit was held on 23-24 November 2020 at St. Gasper Hotel and Conference Centre in Dodoma. More than 560 health professionals from different health fields participated; including, representatives from the Government, NGOs, private sector etc.

The summit was officially opened by Permanent Secretary Ministry of Health Community Development, Gender, Elderly and Children who delivered a welcoming address. Within the two days, Tanzania Health Summit provided a wide range of discussions on health issues from 100 presenters of key note speeches, health forums and scientific paper presentation.

Experiences were exchanged with regards to summit central topics healthcare financing, Innovation and Technology in Health, Maternal and Child Health, Healthcare Data, Emerging Diseases and Health Policy.

This book presents the abstracts of the 7th Tanzania Health Summit derived from different sub-themes, communicable and non-communicable diseases, basic science research, implementation research, integrative medicine, health policy & economics, case reports, reproductive and child health, ICT in health and Gender. A total of 91 abstracts were presented by power point orally (12) and as electronic posters (79).

## **About the Summit**

The Tanzania Health Summit is the annual largest healthcare platform in Tanzania. Every October, the Tanzania Health Summit attracts more than 1000 participants, national and international experts, from policy makers, health researchers, public health professionals, health insurers, medical doctors, nurses, pharmacist, private health investors, supply chain experts and the civil society. During the three-day summit, stakeholders and decision-makers from every field in healthcare work together to find solutions to the country's and regional health challenges and set the agenda for a healthier future.

The Tanzania Health Summit was founded in 2014 to bring together the public and private sector for collective decision to foster the improvement of health service delivery in the country.

## About the Editors

**Prof. Eligius Lyamuya** is a registered Medical Doctor in Tanzania since 1988 and an academic member of staff (currently a Professor) of Microbiology and Immunology at the Muhimbili University of Health and Allied Sciences (MUHAS). Prof. Lyamuya completed his MD and MMed (Microbiology and Immunology) at the University of Dar es Salaam in 1985 and 1991, respectively, and a PhD in Infectious Disease Control from the Karolinska Institute in Stockholm, Sweden in 2000.

He is a Fellow of the Tanzania Academy of Sciences (FTAAS) since 2013, Fellow of the College of Pathologists of East, Central and Southern Africa (FCPath ECSA) since 2014, and a Fellow of the African Scientific Institute since 2015.

He has served in various administrative positions at MUHAS including Head of the Department of Microbiology and Immunology, Associate Dean for Postgraduate Studies and Research in the School of Medicine, Director of Research and Publications, and Deputy Vice Chancellor for Academic, Research and Consultancy affairs. He is currently an Editorial Consultant, Ethiopian Journal of Health Development; Editorial Advisory Board member, Tanzania Journal of Health Research, Tanzania Medical Journal and Dar es Salaam Students Medical Journal; and International Reviewer, Egyptian Journal of Immunology. He is the Chairman, Microbiological specifications for food Technical Committee (AFDC 8), Tanzania Bureau of Standards and Chairman, Tanzania National Task Force for Containment of Wild Poliovirus, since 2003.

Prof. Lyamuya is an active researcher, his research interests being largely in the area of HIV and other sexually transmitted infections; Molecular Epidemiology of bacterial pathogens; Antimicrobial chemotherapy; Immunology of infectious diseases; and promotion of research ethics. He has served as a PI in several research projects the latest being an EDCTP-funded multicenter HIV vaccine trial in Tanzania and Mozambique which ended in June 2015 where he was the Project Coordinator. He has published widely over 120 papers in peer-reviewed journals. He has attended several national and international scientific conferences and has actively participated in the organization of more than 10 National and Institutional Scientific Conferences.

**Dr. Omary Chillo** is a cardiovascular basic science researcher with a medical background. He is currently the Head of Department of Physiology at Muhimbili University of Health and Allied Sciences (MUHAS). His research focus on determination of risk factors in developing cardiovascular diseases with a specific expertise on molecular mechanism of vascular pathophysiology.

Dr. Chillo has also been involved in a developing several national guidelines and situational analysis reports including Global Action Plan on Physical Activity.

He also serves as a co-founder, President and chairman of the executive committee of Tanzania Health Summit since 2014, bringing more than three years of executive experience to lead the largest country's health forum. He established strong partnership with more than 50 health institutions in the country including the Ministry of Health (MoHCDGEC). He is also a co-founder of Tanzania Young Academy of Sciences inspiring young scientist to conduct problem solving researches in the country. Recently, he joined the national's public private health forum as an active board member. Dr. Chillo holds a medical degree and a PhD in cardiovascular science from Munich, German. He lives in Dar es Salaam, Tanzania. In his free time he goes cycling and sometimes swimming, enjoys reading books and spending time with family.

## **Acknowledgement**

The Chairman of the Organizing Committee of the 7th Tanzania Health Summit would like to acknowledge the excellent work of our conference organizing committee members. Gratitude is also extended our guest of honor Prof. Mabula Mchembe Permanent Secretary - MoHCDGEC, all of our distinguished keynote and plenary speakers and to our Session Chairs. We would also like to acknowledge the important contributions of all of our conference participants and in particular those who made presentations for sharing with us their personal insights and aspirations. Special thanks to Dr. Frank Arabi who coordinated the abstract submission and made necessary arrangement for the scientific program.

Tanzania Health Summit thanks and presents our heartfelt appreciation to all the organizations that in one way or another supported the summit and contribute to its success. Your kind support has helped to push the health agenda forwards and come-up with resolutions that will definitely impact positive changes to our healthcare delivery.

**THS-2020**





ABSTRACTS OF

# TANZANIA HEALTH SUMMIT 2020

25th - 26th November 2020, DODOMA

Editors:

Eligius Francis Lyamuya & Omary Chillo

To learn more about AIJR Publisher  
Please visit us at [www.aijr.org](http://www.aijr.org)

**AiJR**

ISBN 978-81-947843-9-5



9 788194 784395