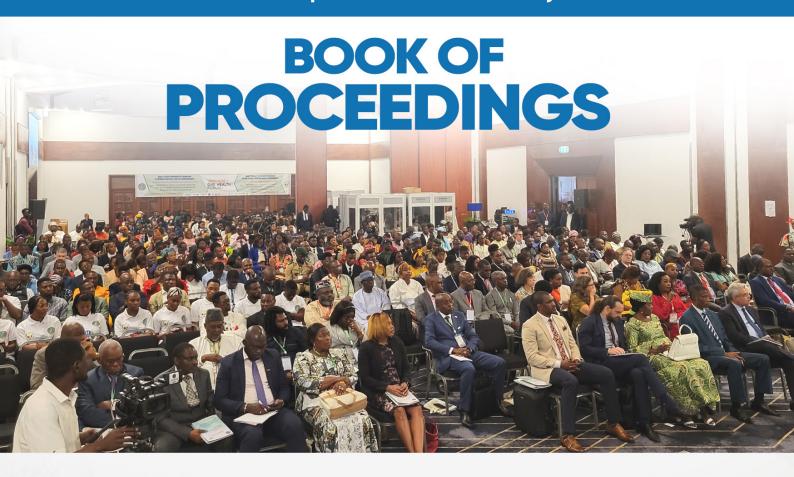
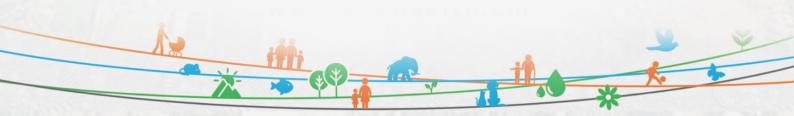


"A Decade of One Health Implementation in Sub-Saharan Africa: Achievements, Challenges, and Prospects for Health Security"





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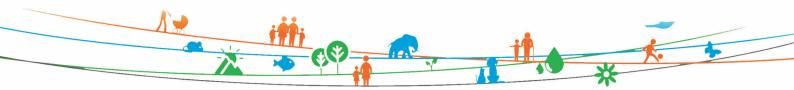
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AFRICA CDC	Centers for Disease Control and Prevention
AFRICAM	Africa Cambodia
AFROHUN	Africa One Health University Network
CIRAD	Centre for International Cooperation in Agricultural Research for Development
COVID-19	Corona Virus 2019
CPC	Centre Pasteur du Cameroun
CRC	Cameroon Red Cross
CREMER	Centre for Research on Emerging and Re-emerging Diseases
CRESAR	Research Centre for Army Health
CRF	French Red Cross
DLMEP	Department for the Fight against Diseases, Epidemics and Pandemics
DRSP	Regional Delegation for Public Health
DSCE	Growth and Employment Strategy Paper
DSV	Department of Veterinary Services
DTRA	Defense Threats Reduction Agency
FAO	Food and Agriculture Organization
IFRC	International Federation of the Red Cross and Red Crescent
GIZ PPOH	Global Program Pandemic Prevention and Response, One Health GIZ
IDDS	Infectious Disease Detection and Surveillance
IFORD	Institute for Demographic Training and Research
IMPM	Institute of Medical Research and Studies of Medicinal Plants
IRD	Research Development Institute
LANAVET	National Veterinary Laboratory
MINADER	Ministry of Agriculture and Rural Development
MINAT	Ministry of Territorial Administration
MINCOM	Ministry of Telecommunications
MINDEF	Ministry of Defence
MINEPAT	Ministry of Territorial Planning and Development
MINEPDED	Ministry of the Environment, Nature Conservation and Sustainable Development
	Development
MINEPIA	Ministry of Livestock, Fisheries and Animal Industries
MINESUP	Ministry of Higher Education
MINFI	Ministry of Finance
MINFOF	Ministry of Forestry and Wildlife
MINMIDT	Ministry of Mines, Industry and Technological Development
MINRESI	Ministry of Scientific Research and Innovation

MINSANTE	Ministry of Public Health
MINTOUL	Ministry of Tourism
MTaPS	Medicine, Technologies and Pharmaceuticals Services
PNPLZER	National Program for the Prevention and Fight against Emerging and Re-emerging Zoonoses
SPM	Prime Minister's Office
TFP	Technical and Financial Partners
UCAC	Catholic University of Central Africa
UDM	Université des Montagnes
WHO	World Health Organization
USAID	United States Agency for International Development
WWF	World Wildlife Fund
YOHF	Yaounde One Health Forum



YOHF, faces behind its organization



Mr SALI BALLO, Coordinator of the Technical Committee, PNPLZER, Supervisor



Mr LEKEALEM Joseph, DFAP/MINFOF, President of the Organization Committee



Mr ETOUNDI Alain, DLMEP/MINSANTE, Member



Mr GARGA Gonne, DSV/MINEPIA, Member



Mr ADAMA Saidou, DPDD/MINEPDED, Member



Mr NJAYOU NGAPAGNA Arouna, University of Ngaoundere, Member



Mr NZIETCHUENG Serge, Université de Liège, Member



Mr SAHADIO Gilber, SPM, Member



Mr Conrad NTOH NKUO, PS PNPLZER, Member



Mme DIBONGUE Elisabeth, President of the Technical Secretariat



Mme DJNEY NGANDO, CelSui/MINCOM, President of Communication Committee



Mme AMINA DJOULDE, DCOOP/MINRESI, President of External Relations Committee



Mr MFOUAPON Alassa, DPT/MINTOUL, President of Cultural Committee



Mr NWOBEGAHAY Julius, DIR CRESAR/MINDEF, President of the Health-Security Committee



Mr MOUICHE Moctar, US-AID-IDDS, President of Scientific Committee



Mr ONANA Thaddee, CSAL CCOUSP/MINSANTE, President of Logistics



Mr NGALLA Allen, President of Finance Committee

FOREWORD

he maiden edition of Yaounde One Health Forum convened on November 2-3. 2023, in Yaounde, under the distinguished patronage of His Excellency Chief Dr. Dion Ngute, the esteemed Prime Minister and head of government. This seminal event, with the theme "A Decade of One Health Implementation in Sub-Saharan Africa: Achievements, Challenges, and Future Prospects for Health Security," marked the celebration of World One Health Day 2023. Orchestrated by the Cameroon One Health Platform, alongside valued Technical and Financial Partners, the forum attracted unprecedented engagement.

Over 700 delegates from 18 nations – (Senegal, Togo, Nigeria, Benin, Liberia, Kenya, Rwanda, Gambia, Zambia, Democratic Republic of Congo, Tanzania,

Gabon, Switzerland, Belgium, Canada, France, United States of America and Cameroon). and touching on every corner of expertise, including policymaker's, representatives of line ministries, academics, researchers, technical and financial partners, the private sector and civil society activists - convened to tackle the urgent global health security agenda. The Yaounde One Health Forum served as an essential platform to appraise progress, pinpoint hurdles, exchange knowledge, and propagate best practices.

Structured as a hybrid event with both in-person and virtual segments, the forum featured six symposia, three plenary gatherings, and four supplementary events, attracting recognized experts. Participants engaged in a rich mix of four oral communication sessions,

ten panels, and three working groups, fostering a collaborative spirit energized by dynamic dialogue and shared insights.

The discourse at the forum aligned with the African Union's Agenda 2063 ambitions, culminating in a collective reaffirmation to further the One Health approach across sub-Saharan Africa. The attendees recognized the imperative of bolstering cross-sector cooperation, invigorating research, and enacting robust policies and programs.

The culmination of the forum was a set of strategic recommendations, laying a ground-work poised to propel the One Health Joint Plan of Action of the Quadripartite into its next phase.











In the shadow of a global health crisis, the world is ever more cognizant of how pandemics wreak havoc beyond the immediate toll on human health. The cascade of consequences affects economies, societal structures, and molds the very bedrock of communities. Tackling this multifaceted beast requires a sophisticated arsenal—one composed of proactive disease prevention, astute surveillance, and agile, multidisciplinary responses. The cornerstone is anticipation over reaction, preparedness over improvisation.

Amidst such complexity, the One Health concept has emerged as a beacon of holistic strategy. It acknowledges the inseparability of human, animal, and environmental health, welding them into a united front against global health threats. To witness its ideology in action, one can look to Cameroon, pioneering in its adoption of a National «One Health» Strategy. This vision transcends zoonoses to envelop issues like non-communicable diseases, antimicrobial resistance, and food safety. It promises an orchestration of concerted efforts, reifying the cross-sectoral synergies mandated in Cameroon's Growth and Employment Strategy Paper and, by extension, fortifying health security.

For the traction of One Health to be sustained, it rests upon robust legal frameworks, dedicated institutions, equipped teams, and unwavering national financial investment. Enter the Yaounde One Health Forum (YOHF), a critical

confluence in the global health security campaign, that set out to retrospectively analyze a decade of One Health's endeavors. Held on November 2 and 3, 2023, the forum convened under a theme that encapsulates a decade's journey and peers into the health security of the future.

The YOHF sought to:

- Review achievements: reflect on the accomplishments and the impact of more than a decade of implementing the One Health approach in sub-Saharan Africa, particularly in Cameroon;
- Identify challenges: examine the challenges and obstacles encountered in integrating human, animal, and environmental health, and discuss strategies for overcoming them;
- Advance Sustainability: Engage attendees in a dialogue on the long-term viability and advancement of the One Health framework.
- Exchange Knowledge: Establish a forum for the dissemination of research, proven methodologies, and insights related to One Health.
- Build Networks: Enhance partnerships among a diverse group, including policymakers, healthcare workers, educators, and community members to drive One Health initiatives.
- Showcase Innovative Practices: Present cutting-edge solutions that embody One Health principles to address looming health threats.

- Enhance Capability Development: Advocate for the transmission of expertise and effective practices to bolster the preparedness of health systems and communities for potential health emergencies.

The inaugural YOHF featured six focus themes:

- 1. Strategies for policy and sustainable implementation of One Health.
- 2. Collaborative disease monitoring.
- 3. Conservation and environmental fortitude.
- 4. Community engagement through behavioral change.
- 5. Strengthening One Health research and training.
- 6. Utilizing One Health data for informed health management and creativity.

This event, blending in-person and virtual participation, showcased three main sessions with noted experts, held ten panel discussions, involved participants in three strategic working groups, and included 37 oral and 52 poster presentations. Additionally, four secondary events were run by various organizations (Breakthrough ACTION, ROOHCAM, the RACE project and CREMER).

More than 700 national and international actors, both public and private, from Senegal, Togo, Nigeria, Benin, Liberia, Kenya, Rwanda, Gambia, Zambia, Democratic Republic of Congo, Tanzania, Gabon, Switzerland, Belgium, Canada, France, USA, and Cameroon took part in this important event. The participants came from various administrations, structures and organizations, including the National Program for the Prevention and Fight against Emerging and Re-emergentes Zoonoses (NPPFERZ), the Ministries in charge of livestock, public health, forestry and wildlife, the environment,... MINEPIA, MINSANTE, MINFOF, MINEPDED, MINADER, MINCOM, MINRESI, MINESUP, MINDEF, MINTOUL, MINAT, MINDDEVEL, MINMIDT, MINEPAT, MINFI, Cameroonian training schools and universities (Université des Montagnes, University of Yaounde I, University of Yaounde II, University of Dochang, University of Douala, University of Buea, University of Bamenda, University of Ngaoundere, University of Garoua, Université Catholique d'Afrique Centrale), the universities of Corse/France, York/Canada, Geneva, Liège, Johns Hopkins, Dakar Veterinary School), the private sector, civil society (ROOHCAM, ESPV), technical and financial partners (DTRA, Africa CDC, USAID, FAO, IDDS-USAID, Breakthrough ACTION, WHO, AFROHUN, IFRC, CRC, CRF, GIZ PPOH, AfriCAM, TRAFFIC, OMSA, Projet RACE, MTaPS).







OPENING CEREMONY

The Yaounde One Health Forum marked a significant day as it commenced with the gathering of over 700 participants in the illustrious setting of the Yaounde Hilton Hotel. The initiation of the forum on November 02, 2023, highlighted the congregational efforts of the Cameroon One Health Platform, coming to fruition under the watchful eye of Pr Njock Richard representing the Minister of Health.

Pr Richard, in his keynote, wove a narrative stressing the indispensability of a transdisciplinary approach to unraveling the knots of complex public health challenges. It is the harmonization of varied disciplines and sectors that the Secretary-General prescribed as the antidote to major health ailments faced by society.

Alongside Pr Richard, the space was enriched with the vision and guidance of the Organizing Committee's Chairman and the voice of the United States' diplomatic representation in Cameroon. Their speeches not only set the tone for the event but also anticipated the rich dialogue to follow.

The ceremony unfolded further into the institutional realm with Senator Madame Ouli Ndongo Monique delivering a reflective inaugural lecture

on Cameroon's decade-long journey of implementing the One Health approach. Her erudition invited the audience to ponder over the accrued wisdom and upcoming vistas.

Adding to this rich exchange of expertise, Professor Philemon Wambura chronicled the parallel narrative across sub-Saharan Africa. His insight into the region's challenges and achievements framed a roadmap for fortifying health security against looming threats.

However, it was not just speeches that captivated the audience. The spirit of One Health was melodically brought to life by the enthusiastic performances of students from the One Health clubs of the universities of Buea, Montagnes, and Ngaoundere. Their song reverberated with the essence of unity and highlighted the vigor of youth committed to a healthier planet.

Thus, with its blend of official addresses, intellectual discourses, and cultural exhibition, the opening ceremony of the Yaoundé One Health Forum laid down a remarkable blueprint for the vital collaborative efforts necessary to safeguard global health.



«This first edition of the Yaoundé One Health Forum, which is anchored in the celebration of World One Health Day, is a unique opportunity to discuss key achievements and define the way forward to fully implement One Health strategies in countries. This day embodies the realization of a dream, the dream of the One Health platform of our beautiful country to gather here in Yaounde, people from different backgrounds, disciplines, sectors or fields around the same table to discuss the common issue of health».

Mr LEKEALEM Joseph, Director of Wildlife and Protected Areas, MINFOF, President of the YOHF Organizing Committee.



«Today we celebrate the magnificent bilateral cooperation between Cameroon and the United States, particularly in the context of the Global Health Agenda, the response to epidemics and public health emergencies. I would like to reassure the Cameroonian people that we will support and accompany Cameroon in the challenges that lie ahead».

Mme Mary DASCHBACH,

Representative of H.E. the U.S. Ambassador to Cameroon.



«The bleak picture of emerging and re-emerging diseases highlights the urgent need to put in place robust preparedness and response systems, based on integrated strategies for coordination, communication, collaboration and capacity building. It is with this in mind that the One Health approach takes on its full meaning, becoming over the years the effective benchmark for promoting health security.»

Pr NJOCK Richard, Secretary General of the Ministry of Public Health, Representative of the Prime Minister, Head of Government



«The Cameroon One Health strategy anticipated the expansion of One Health implementation beyond zoonotic diseases. The added value of the One Health approach extends economically...»

Madame Ouli Ndongo Monique, Senator, Keynote Speaker.



«The One Health approach in sub-Saharan Africa has made significant progress over the past decade. Enhanced collaboration between the public, veterinary and environmental health sectors has strengthened responses to health threats, fostering partnerships between governments, NGOs and international organizations, and national and regional One Health Platforms»

Professor Philemon Wambura (Chairman of the Board of the African Universities One Health Network, AFROHUN, keynote speaker)





SYMPOSIUM 1

Policy, governance, implementation, and sustainability of the One Health approach

PLENARY SESSION: «POLICY, GOVERNANCE, IMPLEMENTATION AND SUSTAINABILITY OF THE ONE-HEALTH APPROACH



Facilitators



Pr. Julius AWAH NDUKUMUniversity of Bamenda-Cameroon

Dr Henri Rene ZAMBOUESPV / EQUAVET Group, Cameroun

ORAL PRESENTATIONS Despite a decade of promoting the One Health approach in Cameroon and discernible national progress, the effective and efficient management of health issues still necessitates a multi-sectoral coordination framework capable of advocacy and ensuring proper governance. Success hinges on achieving cohesive collaboration, coordination, and communication among all parties at both national and sub-national tiers, coupled with harmonized cooperation with technical partners and benefactors. To secure the One Health approach's enduring viability, foundational measures including institutional, organizational, programmatic, and operational adjustments are essential for the proficient functioning of the National One Health platform.

During this session, experts shared four insightful presentations on «Policy, governance, implementation, and sustainability of the One Health approach.» These talks highlighted significant challenges in current practices. Notably, the application of the integrated health strategy lacks proactivity and inclusivity, often only mobilizing in response to health crises, and is hampered by a workforce deficient in capacity and intersectoral collaboration. Within the research domain, there is an absence of unifying concepts to promote interdisciplinary work and a dearth of a strategic scientific leadership for researchers. Furthermore, funds dedicated to the One Health approach are frequently insufficient. Nevertheless, cost-benefit analyses emphasize the inherent value in resource consolidation at all levels, as exemplified by the efficient handling of Cameroon's 2016 highly pathogenic avian influenza outbreak.

MODERATORS:

Pr. Julius AWAH NDUKUM, University of Bamenda-Cameroon **Dr Henri Rene ZAMBOU**, ESPV / EQUAVET Group, Cameroon **RAPPORTEURS: Dr Crystella CHA-AH NGONG,** PNPLZER- Cameroon

Mme Michelle MVODO, MINCOM-Cameroon

PRESENTATIONS

- 1. The integrated approach to health in relation to public health in an agricultural research institution: **Dr Ludovic TEMPLE**, CIRAD FRANCE
- 2. Barriers to the implementation of One Health strategies in developing countries: **Dr Danièle Sandra YOPA**, MINSANTE CAMEROON
- 3. The added value of the One Health approach through a cost-benefit analysis: **Dr FEUSSOM Jean Marc**, RESCAM-MINEPIA CAMEROON
- 4. How CDC supports the implementation of the One Health approach: **Dr Colins BASLER**, CDC USA

RECOMMENDATION AND CONCLUSION:

To foster scientific innovation, it is crucial to encourage interdisciplinarity in research by adopting integrative concepts and developing leadership strategies for researchers. Currently, many researchers operate in silos, with few opportunities for cross-disciplinary collaboration. Establishing concepts that bridge various disciplines is necessary to incentivize and guide interdisciplinarity. Additionally, constructing a networked community of researchers equipped with robust scientific leadership skills will enable more profound and collaborative research endeavors. Furthermore, research findings are often underutilized in the realms of decision-making and policy formulation. By actively disseminating and interpreting these results for policy and advocacy, we can ensure that scientific insights inform practical applications and societal advancement.

In essence, the establishment of a well-synergized research community is paramount. Such a community, built on the pillars of dynamic strategies and unifying concepts, can effectively advance interdisciplinarity. This effort will not only enhance the collaboration among scientists but also ensure that research outcomes are aptly converted into valuable tools for advocacy and policy-making. By doing so, we can pave the way for scientific research to have a more significant and tangible impact on our world.

« One Health tackles common health threats by looking at them from all angles» **Colin Basler**







PARALLEL SESSION

PANEL DISCUSSION ON "THE CHALLENGES AND ISSUES OF GOVERNANCE AND FINANCING FOR SUSTAINABLE IMPLEMENTATION OF THE ONE-HEALTH APPROACH IN AFRICA".

Effective governance and financial support are crucial for the long-term adoption of the One Health approach. A look at Cameroon—where this strategy has been in place for a decade—raises important questions about these aspects and their associated challenges. A panel discussion was held featuring experts from the West African Economic and Monetary Union (UEMOA), the Economic Community of Central African States (ECCAS), GOPA Consultants, Centers for Disease Control and Prevention (CDC), the Emergency Centre for Transboundary Animal Diseases (FAO-ECTAD),

and the Cameroon One Health Platform. The panel discussed «Governance and Financing Challenges for the Sustainable Implementation of the One Health Approach in Africa.» It was highlighted that One Health is particularly effective when tailored to specific incidents, as it does not necessitate additional health system resources but rather facilitates the smarter organization of existing ones. The UEMOA Regional Centre for Surveillance and Disease Control recommends fostering multi-sectoral collaboration and forging partnerships with local communities and the private sector.

PRESENTER: Dr Virgil KOUASSI LOKOUSSI, RCSDC, UEMOA NIGERIA

PANELISTS:

- Pr Nadège NGOMBA KABAMBA, One Health Platform DRC
- Dr Conrad NTOH NKUO, PNPLZER, CAMEROON
- **Dr OUATTARA LASSINA,** FAO-ECTAD CAMEROON
- **Dr LOUL Severin,** CEEAC, GABON
- Dr TIMOTHY WESONGA, GOPA health and Social Development, KENYA
- Mme CHINENYE, Representative of Africa CDC, ETHIOPIA
- Dr Virgil KOUASSI LOKOUSSI, RCSDC, UEMOA NIGERIA

MODERATORS:

- Dr Serge NZIETCHUENG, Université de Liège BELGIQUE
- Dr Donatien NTAKARUTIMANA, USAID CAMEROON

RAPPORTEURS: Dr Crystella CHA-AH NGONG, PNPLZER CAMEROON

Mme Michelle MVODO, MINCOM CAMEROON

RECOMMENDATIONS AND CONCLUSION

- Finalising the revision of the institutional framework of the One Health platform. In Cameroon, the PNPLZER is the multi-sectoral structure that facilitates the promotion and implementation of the One Health approach. It is important and urgent that the regulatory text reorganizing the PNPLZER to enable it fully play its role as the National One Health Platform be signed and published.
- Facilitate budgeting and financing of joint intersectoral activities. The activities of the National One Health platform are financed by the State budget at 55% and the rest by technical and financial partners (TFP). However, the budgeting and financing mechanisms for joint multi-sectoral activities in the different sectors are not clearly defined and codified.
- Finalize the National One Health Action Plan and integrate the One Health approach into health policies, strategies, and legislation. In Cameroon, the National One Health Strategy was drawn up in 2012 and focused more on zoonoses. There is an urgent need to finalize the national One Health Action Plan in line with One health Joint Plan of Action of the Quadripartite. The analysis of sectoral legislation and health strategies shows that the One Health approach is not considered. This is an obstacle to the budgeting and implementation of joint multi-sectoral activities in Cameroon. A revision of the texts integrating intersectorality into health strategies is an important step for the sustainability of the implementation of the One Health (OH) approach in Cameroon.
- Accelerate the process of decentralizing the National One Health Platform and deconcentrating One Health activities to facilitate the coordination of multisectoral activities at the local and community level, and to create synergies between different actors.
- Draw up an advocacy plan for the OH approach aimed at politicians and stakeholders, including communities. To facilitate the political integration of the OH approach and its inclusion in development strategy documents, it is urgent to build the capacities of stakeholders in advocacy, and to draw up an advocacy plan.
- Communicating lessons learned from health event management. For the sustainability of the implementation of the One Health approach, the panelists also noted the need for platforms and stakeholders to communicate on lessons learned from the management of health events, which would enable good preparation and avoid the same mistakes.





At the end of this panel discussion, it was clear that, to ensure the sustainability of the OH approach in Cameroon, it was necessary to finalize the institutionalization of the national OH platform and link it to the decentralization process. There is also an urgent need to finalize the National OH Action plan, which has been drawn up in line with the One health Joint Plan of Action of the Quadripartite. Sectors should work together to identify joint activities and priorities, budget for them and pool skills and resources. Finally, advocacy is essential to ensure that the approach is integrated into health policies and strategies.



«One Health works well when applied to an event; it does not add additional resources to health systems, but allows for a more rational organization of existing resources» Virgil Lokossou kuassi; ECOWAS Abuja

Virgil Lokossou kuassi ; ECOWAS Abuja









SYMPOSIUM 2 2

Integrated/multisectoral disease surveillance and detection

PANEL DISCUSSION ON NEW APPROACHES TO IMPROVE COMMUNITY SURVEILLANCE

Dr Jean Marc Feussom,

Deputy Director of Health Protection and Epidemiosurveillance (DDHPE), MINEPIA, Cameroon

Facilitators:



Pr Félicité Djuikwo,

Head of Cooperation Department, Université des Montagnes (UdM), Cameroon



Dr Chanceline Bilounga Ndongo,

Chief of Service Epidemiological Surveillance (CSES), MINSANTE, Cameroon

Surveillance plays a pivotal role in the timely detection and management of endemic, emerging, and re-emerging zoonotic diseases. It serves as a cornerstone in safeguarding human and animal populations by identifying public health threats and facilitating swift and appropriate reactions. The advantages of efficient surveillance are substantial. It yields vital information crucial data for fulfilling health requirements and informing decision-making

and policy development. Various themes about community-based surveillance were discussed through oral presentations. These included particular tools and web applications designed for surveillance purposes, the incorporation of the One Health concept in early detection strategies, instances of successful practical applications in the field, mapping of zoonotic diseases, and a case study on community-based surveillance of a zoonotic disease.







MODERATORS:

- Dr Georges Alain Etoundi Mballa, Director of Disease Control, Epidemics and Pandemics (DLMEP), MINSANTE, Cameroon
- Dr. Els Mathieu, Director of Division of Global Health Protection (DGHP) CDC, Cameroon,

RAPPORTEURS:

- Dr Nestor Atangana Onana, MINSANTE, Cameroon
- Dr Clémentine Ngoudzo, MINSANTE, Cameroon
- Dr Alvine Amawota, Programme Zoonoses (PNPLZER), Cameroon

PANELISTS:

- Dr. Jean Marc Feussom, Deputy Director of Health Protection and Epidemiosurveillance
- Dr Linda Esso, Director of Epidemic and Pandemic Control (SDLEP), MINSANTE, Cameroon
- **Dr Protais Cyriaque Etene**, Divisional Delegate of Livestock, Fisheries and Animal Industries of Lom-et-Djérem, DREPIA EAST, Cameroon
- M. Jules Christian Ndomo Tsala, Chef d'unité d'inspection de l'air et de l'Atmosphère, MINEPDED, Cameroun
- **Mme Marcelline Ekom** Head of the Community and Participatory Management Department, One Health Focal Point, MINFOF, Cameroon)
- Dr Aimé Gilbert Mbonda Noula, Dr Aimé Gilbert MBONDA NOULA, Health & Care Coordinator at International Federation of Red Cross and Red Crescent Societies - IFRC, Cameroon
- Dr Haddison Epossi, District Medical Officer, Sa'a Health District, Cameroon

RECOMMENDATIONS AND CONCLUSION

- Develop and promote community-based surveillance strategies utilizing the One Health concept. Existing tools that reflect diverse sector experiences should be revised and applied under this inclusive approach. We need to enhance these tools' precision and engagement, particularly in wildlife and environmental contexts, while addressing critical diseases.
- Reinforce the legal mechanisms to facilitate community reporting. While pilot surveillance systems that unify different sectors exist, we must solidify the legal underpinnings to bolster these systems. This involves establishing dedicated surveillance networks for zoonotic diseases emanating from wildlife and fostering community participation.
- Augment training for all parties involved in epidemiological surveillance, encompassing community members. Targeted training for community figures, veterinary and health professionals, and local administrative bodies is essential. Collaboration should be intensified. Additionally, retaining Community Health Workers across all sectors, enhancing local practitioners' surveillance proficiency, and escalating diagnostic capabilities, including for aquatic diseases, are critical steps.

The overarching conclusion emphasizes the essential role of community engagement in surveil-lance efforts, advocating for a nuanced, integrative, and risk-oriented methodology. By refining surveillance tools and leveraging successful pilot initiatives, we aim to fortify the surveillance infrastructure and enhance early detection capabilities.



«Health security must be placed on the same level as military security»

Dr Georges Alain Etoundi Mballa,

Director of Disease Control, Epidemics and Pandemics (DLMEP), MINSANTE, Cameroon



«In our context, training and research results improve the skills and knowledge of health personnel, veterinary services to carry out activities necessary for disease surveillance for an efficient early detection system»

Pr. Justin Ayayi Akakpo,

Ecole Inter-Etats des Sciences et Médecine Vétérinaires (EISMV) de Dakar, Sénégal



«The community must be at the center of the surveillance system and participate in the co-construction of animal health emergency notification tools»

Dr. Jean Marc Feussom,

Deputy Director of Health Protection and Epidemiosurveillance l'Epidémiosurveillance (DDHPE), MINEPIA, Cameroon



ORAL PRESENTATIONS ON INTEGRATED, MULTI-SECTORAL DISEASE SURVEILLANCE AND DETECTION

The advantages of effective surveillance are substantial. It yields vital information crucial for fulfilling health requirements and informing decision-making and policy development. Various themes about community-based surveillance were discussed through oral presentations. These included particular tools and web applications designed for surveillance purposes, the incorporation of the One Health concept in early detection strategies, instances of successful practical applications in the field, mapping of zoonotic diseases, and a case study on community-based surveillance of a zoonotic disease.

MODERATORS:

- Pr. Justin Ayayi Akakpo, Ecole Inter-Etats des Sciences et Médecine Vétérinaires (EISMV) de Dakar, Sénégal,
- Pr. Jules Owona Manga, Head of Public Health Department, University of Douala, Cameroon

RAPPORTEURS:

- **Dr Nestor Atangana Onana**, MINSANTE, Cameroon
- Dr Clémentine Ngoudzo, MINSANTE, Cameroon
- **Dr Alvine Amawota**, Programme Zoonoses (PNPLZER), Cameroon

PRESENTATIONS:

- Revolutionizing Epidemiological Surveillance in Cameroon: The 'Nyss' Platform for Prompt and Affordable Reporting." Dr. Aimé Gilbert MBONDA NOULA, Health & Care Coordinator at the International Federation of Red Cross and Red Crescent Societies - IFRC, discusses the pilot phase launched in the North Cameroon region.
- Community based Surveillance via the One Health Approach: Insights from the Pilot Stage in Cameroon's Sa'a Health District." Presented by Dr. Haddison Epossi, the District Medical Officer at the Sa'a Health District.
- Enhancing Disease and Health Risk Monitoring in Resource-Limited Settings through the 'One Health' Perspective." Dr. Akara Essona Matatom, Prefectural Director of Health for Moyen Mono, Ministry of Health, Togo, shares experiences from the 2021-2023 period in the Moyen Mono district of Togo.
- Identifying Key Zoonotic Diseases in the BSB Yamoussa Complex of Northern Cameroon."
 Dr. Serge Alexis Kamgang, a Lecturer-Researcher at the Garoua Wildlife School, presents findings.
- Evaluating Cross-Transmission of Ascaris Species Between Humans and Pigs, with Implications for Ascariasis Management in Cameroon." Pr. Gustave Simo, who leads the Molecular Parasitology & Entomology Unit (MPEU) at the Department of Biochemistry, Faculty of Science, University of Dschang, shares his insights. "There is an urgent need to prioritize research focused on surveillance and management of ascariasis".

RECOMMENDATION AND CONCLUSION:

Enhancements in multidisciplinary research for early detection are essential. Case studies and research outcomes underscore the necessity for empirical support to augment surveillance and early detection systems. It is critical to fortify research and gather substantial proof of priority diseases aligned with the One Health approach.



«ICT tools play a key role in disease surveillance in Africa, thanks to their ease of implementation and adaptability to socio-economic diversity. By reinforcing the One Health approach, these digital solutions foster interdisciplinary collaboration and strengthen resilience against health threats.»

Dr Aimé Gilbert MBONDA NOULA,

Health & Care Coordinator at International Federation of Red Cross and Red Crescent Societies - IFRC, Cameroon



«For many diseases with zoonotic potential, investigations at local and regional level are essential to provide evidence and data that will enable advocacy for the development and implementation of new control strategies based on the One Health approach».

Pr. Gustave Simo,

Head, Molecular Parasitology & Entomology Unit (MPEU) Department of Biochemestry Faculty of Science, University of Dschang, Cameroon













PANEL DISCUSSION ON THE INTEGRATED SAMPLE TRANSPORT SYSTEM

The crucial role of the laboratory in disease surveillance and control cannot be understated, as the accuracy of analytical results—which are pivotal for informed decision—making—hinges on the quality of the samples analyzed. It is vitally important that samples are meticulously collected, appropriately stored, and expediently transported to the laboratory under the correct conditions. Developing an efficient sample transport system is therefore a priority.

During a comprehensive review of case studies, participants examined the specific difficulties encountered in the transport of samples for diseases with epidemic potential within Cameroon. Panelists drawn from diverse sectors such as animal and human health, laboratory management, transport logistics, and technical and financial support engaged in a rigorous discourse.

The discussions were centered around various factors that need to be considered in the establishment of a national integrated sample transport system. The goal is to streamline processes and decrease the time required to confirm disease cases.

MODERATORS:

- Dr Rina Estelle Djoukwe, Deputy Director of Laboratories and Blood Transfusion (SDLTS), MINSANTE, Cameroon
- Dr Jean Marc Feussom, Deputy Director of Health Protection and Epidemiosurveillance (SDPSE), MINEPIA, Cameroon

RAPPORTEURS:

- **Dr Nestor Atangana Onana**, MINSANTE, Cameroon
- **Dr Clémentine Ngoudzo**, MINSANTE, Cameroon
- Dr Alvine Amawota, Programme Zoonoses (PNPLZER), Cameroon

PANELISTS

- **Dr Abel Wade**, Director General, Laboratoire National Vétérinaire (LANAVET), Cameroon
- **Dr Linda Esso**, Deputy Director of Epidemic and Pandemic Control (SDLEP), MINSANTE, Cameroon
- Dr Marie Claire Endzengue, Head of Polio and Measles Laboratories, Centre Pasteur du Cameroun (CPC), Laboratoire National De Référence Et De Santé Publique LNSP), Cameroon
- Pr Moctar Mouiche, Coordinator of Infectious Disease Detection and Surveillance Project (USAID-IDDS), Cameroon
- **Dr Marlise Dontsop Djoumetio**, National Surveillance Adviser, WHO, Cameroon.
- Mr Mohamadou Awal Abbo, Deputy General Manager of Touristique Logistique, Cameroon

RECOMMENDATIONS AND CONCLUSION:

- Establish a Comprehensive Framework for Sample Transport: Leverage existing expertise
 from vertical programs in human and animal health. Form a technical working group to assess Cameroon's current sample transport scenario and devise national guidelines or policies.
 Ensure the inclusion of diverse stakeholders, from the private sector to government entities, in
 this process.
- Secure Sustainable Funding for Sample Transport: It's evident that funding exists for individual programs. Therefore, introduce a «basket fund» to consolidate financial resources from various partners, and actively engage with national policymakers to secure their enduring support for sample transport initiatives.
- Enhance Quality and Training in Sample Handling: Update and refine transport system strategies, procedures, and tools by drawing on the lessons learned from vertical program trials. Establish a certification protocol for quality assurance and conduct training sessions for transport staff, emphasizing the significance of their role in maintaining sample integrity. Additionally, focus on comprehensive capacity building for all participants in the sample lifecycle—from collection and storage to transport and analysis—and upgrade laboratory technical capabilities.



«Training national-level sample transporters in biosafety is crucial for maintaining sample quality and integrity prior to laboratory analysis,»

Dr Abel Wade,

Director General of the National Veterinary Laboratory (LANAVET), Cameroon.



«Combine resources and leverage the effective, nationwide system used for transporting samples of EPI diseases under surveillance, including inherited polio control,»

Dr Marlise Dontsop Djoumetio,

National Surveillance Adviser at WHO, Cameroon.

SYMPOSIUM 3/3

Capacity building and research priorities in One Health

DISCUSSION PANEL 1: CAPACITY BUILDING IN ONE HEALTH



Dr Denis ZOFOU, University of Buea



Dr Priscilla ANYA AMVELA, Surveillance specialist, IDDS Cameroon

CONTEXT

In the pursuit of cohesive public health strategies, the significance of education and research stands out, particularly for the practical implementation of the One Health concept—a unified approach to health that encompasses humans, animals, and ecosystems. Training healthcare professionals within this conceptual framework shapes their readiness to address the multifaceted challenges they encounter. Consequently, integrating the One Health approach into both preliminary and ongoing professional development programs has become essential. This integration aims to cultivate a new cohort of professionals who are more adaptable, interdisciplinary, and predisposed to collaborate effectively.

Remarkable strides have been taken to advance this goal. These include the creation of a national One Health network connecting universities across Cameroon and the incorporation of One Health modules within select educational programs; not to mention the progressive professional development workshops designed to enhance interdisciplinary One Health competencies.

During a recent panel, oral presentations surveyed One Health integration strategies at various Cameroonian higher learning institutions. Distinctive approaches for embedding One Health expertise were demonstrated via case studies such as the «One Health Water Africa - OHWA» International Field School and the Field Epidemiology Training Program (FETP).

The panel also underscored various tactics to incorporate the One Health paradigm into Cameroon's foundational education—spanning both university and vocational settings—as well as within continuous training schemes. Presenters shared experiences from Cameroonian universities and lifelong learning programs, noting that integrating the One Health approach, while viable, hinges on sincere dedication from all involved parties for it to be fully actualized. Discussions also revealed a notable underrepresentation of the environmental and wildlife sectors in adopting this approach, suggesting that capacity-building in these areas should be a focal point moving forward.

MODERATORS

- Pr Clautilde Teugwa Mofor, Dean, University of Dschang
- Dr Arouna Njayou Ngapagna, Country Manager, Africa One Health University Network,
 Cameroun

RAPPORTEURS

- Dr Gaelle Mongkuo, IDDS
- Mme Fride Jouegouo, PNPLZER

ORAL PRESENTATIONS

- «Exploring Strategies for Incorporating One Health in Cameroonian Universities» Prof. Jean Baptiste Ngodo Melingui (University of Yaounde I, Cameroon) discussed how several universities in Cameroon are integrating One Health into their curricula.
- «Implementing One Health in Academic Curriculum and Research: Insights from OHWA Field School» - Dr. Alessandra Fachi (University of Corsica, France) shared experiences from the International Field School «One Health Water Africa - OHWA» as a case study for including One Health in university training and research.
- «Integration of One Health into the Field Epidemiology Training Program (FETP)"; Dr. Marta Guerra (CDC-Atlanta, USA) examined the interconnection between One Health principles and the Field Epidemiology Training Program.
- «Strengthening Biosafety and Biosecurity in Cameroon: AFROHUN's Training Efforts» Prof.
 Pascal Manfo Tsague (University of Buea, Cameroon) provided an update on the initiatives undertaken by AFROHUN to enhance biosafety and biosecurity training in Cameroon.
- «The Imperative for One Health Capacity Building Among Conservation Staff» Dr. Samuel
 Christian Tsakem (Wildlife School of Garoua, Cameroon) argued for increased One Health
 competency among those working in protected wildlife areas.

PANELISTS

- Dr. Gaelle Nathalie Tinak; Head of Education and Training Unit/ MINEPIA, Cameroon
- **Dr Adama Ndir**; Advisor CAFETP/CDC, Cameroon
- **Dr Marc Cyrille Eloundou ;** Expert Une Seule Santé/WHO, Cameroon
- Col Peter Mbonji; Director ISPMM, Cameroon

RECOMMENDATIONS AND CONCLUSION

- To further enhance the incorporation of One Health concepts into educational programs, it is critical to establish a comprehensive collaborative framework. Although significant strides have been made by embedding One Health components into select curricula and by incorporating interdisciplinary competencies through ongoing training efforts, the current lack of synergistic engagement among participants within these initiatives presents a barrier to the optimal application of the One Health ethos. Thus, it is essential to devise and implement collaborative strategies aimed at fortifying the structure supporting One Health's educational capacity. This will involve reinvigorating the One Health University Network of Cameroon and securing active participation from all sectors integral to the One Health discourse.

The insights gained from the symposium pivotally highlight the need for bolstered intersectoral cooperation to embed One Health competences in both foundational and continuous educational structures, thereby facilitating the creation of harmonized and uniform instructional frameworks across the board.



«It is important to integrate all sectors in One Health capacity building to ensure the same level of understanding»

Dr Eloundou Marc-Cyrille, One Health Expert, WHO



«The main challenge of the One Health approach remains its operationalization, bringing together all disciplines to help manage health problems. To address this challenge, we need to build staff capacity. This includes the identification of personnel to be trained, the training of identified personnel, the deployment of such personnel as required, and the maintenance and retention of deployed personnel».

Dr Adama Ndir, Resident Advisor, CDC, Cameroon







DISCUSSION PANEL 2: RESEARCH PRIORITIES IN ONE HEALTH

OVERVIEW

Acknowledging the multifaceted One Health approach, which connects human, animal, and environmental health, Cameroon's current research ecosystem requires a strategic shift to enhance collaboration, communication, and application of findings. The panel discussion underscored significant gaps that must be bridged.

Firstly, prioritization of research areas is essential. Identifying and focusing on issues pertinent to Cameroon—be they emerging zoonotic diseases, antimicrobial resistance, or ecosystem degradation—is crucial. Coordination between institutes could enable a concerted effort, avoiding duplication and promoting shared goals.

Secondly, communication is a cornerstone. It's imperative to establish a platform for regular exchange between researchers, policymakers, and the community. Simplifying and translating complex research findings into practical information can encourage their implementation, thereby fostering scientific innovation.

Thirdly, resource mobilization points to the dire need for funding. Investment in research is not merely an expense but a long-term benefit. Strategies to attract national and international funding, encouraging public-private partnerships and fostering a culture that sees the value in research will impact sustainability.

Lastly, stakeholder commitment is essential for the One Health approach to thrive. This includes governmental buy-in, ensuring that policies and legislation are informed by research; educational institutions embedding One Health in curricula; and researchers themselves, cultivating inter-disciplinary cooperation.

By addressing these concerns collaboratively, Cameroon can advance its One Health research to safeguard the well-being of all its inhabitants and the environment they share.

MODERATOR:

Pr Essame Oyono, Director, Institute for Medical Research and Medicinal Plant Studies (IMPM),
 MINRESI

RAPPORTEURS:

- Dr Gaelle Mongkuo, IDDS
- Mme Fride Jouegouo, PNPLZER

ORAL PRESENTATION

 One Health Research in Cameroon and collaborative efforts to advance research;
 Pr Véronique Penlap, Head of the Laboratory for Tuberculosis Research and Pharmacology CANTAM/EDCTP project, Yaounde I University, Cameroon

PANELISTS

- Pr. Véronique Penlap; Head of the Laboratory for Tuberculosis Research and Pharmacology CANTAM/EDCTP project, Yaounde I University, Cameroon
- **Pr. Jean-Pierre Mvondo-Awono**; Dean, Faculty of Agriculture and Veterinary Medicine Buea University, Cameroon
- **Dr. Lucia Nkengazong**; Senior Research Officer, IMPM, MINRESI, Cameroon
- **Dr. Serge Alexis Kamgang**; Wildlife School of Garoua, Cameroon
- **Dr. Ahidjo Ayouba**; Scientific and Technical Co-Coordinator, CREMER, Cameroon
- Dr. Arouna Njayou Ngapagna; Country Manager, Africa One Health University Network, Cameroon
- **Cpt Pharmacien Jean Jacques Tchouani Kouemo** ; Laboratory Supervisor, CRESAR, Cameroon

RECOMENDATIONS AND CONCLUSION

- Develop a funding mechanism for research activities in Cameroon: Numerous research initiatives are being carried out in our country, often without dedicated funding. It is vital to include research-related budget lines in the various sectoral administrations and ensure ongoing monitoring.
- Promote interdisciplinarity in research with integrating concepts and strategies for scientific leadership of researchers: Researchers work in a vacuum and there are no mechanisms for multidisciplinary research. It is therefore important to find integrating concepts to encourage interdisciplinarity in research, to create a community of researchers with scientific leadership strategies. Research findings, which are rarely used as decision-making or policy advocacy tools, deserve to be popularized and translated into advocacy elements.
- Strengthen research based on vaccination, the environment, health safety and sustainable food production: very little research is being carried out in these areas, which are nevertheless of real concern. It is recommended that the various sectors and research institutes should step up research in these key areas and ensure that it is disseminated and used for scientific innovation.

The conclusions drawn from this symposium emphasize the need to reconsider the aspects of research in our context through the development of a funding mechanism and the strengthening of communication and collaboration between the entities involved in research.



« Many things are being done in Cameroon through research but the results from those researches are hardly used to innovate. This should change ».

Pr. Jean-Pierre Mvondo-Awono,

Dean, Faculty of Agriculture and Veterinary Medicine Buea University, Cameroon



«It's important to work in collaboration with our administrations at ministerial level to develop research infrastructures..., attract funding and build research centers that could produce quality research».

Pr Véronique Penlap,

Head of the Laboratory for Tuberculosis Research and Pharmacology CANTAM/ EDCTP project, Yaounde I University, Cameroon













SYMPOSIUM 4/

Social and behavioral change for effective community participation

PARALLEL SESSION: ORAL COMMUNICATIONS



Mme Manuela Ngo Bakale Global Health Security Project Coordinator - Breakthrough ACTION

Facilitators



Pr. Hilaire Macaire Womeni Coordonnateur Scientifique Adjoint Dschang School of Science and Technology University of Dschang

This symposium emphasized the importance of understanding and addressing social determinants to enhance preparedness, prevention, and response to health emergencies, such as COVID-19 and zoonoses. The session underscored the low awareness levels among various community members and professionals about zoonotic risks, signifying an urgent need to foster social and behavioral change, especially in the One Health domains.

It showcased research and activities focusing on the social mechanics involved in health crises and the most effective communication channels. Discovering the numerous factors that influence both individual and community behaviors—including ingrained habits like vaccine avoidance or consuming unsafe products—is critical.

The discussion made it crucially clear that behavioral change cannot be executed without an in-depth analysis of local behavior motivations and the specific contexts of the targeted communities. Determining the optimal locales for studies, defining the exact behaviors to be addressed, and understanding the community's self-constructed health risk narratives was considered pivotal.

Points of special interest included:

- Selection of study sites needs careful consideration to be representative and insightful.
- Behaviors are influenced by underlying motivations and social determinities that require thorough analysis.
- Desired behavior changes should be clearly defined for accurate targeting and effective communication.
- Determinants of behavior change, such as cultural norms and educational levels, must be considered.
- Effective risk communication and community engagement strategies need to factor in local social dynamics and resistance to external messaging.

Research and discussions on these subjects are expected to contribute to more successful strategies for promoting social and behavioral change, facilitating better outcomes in health crisis management and One Health initiatives. This involves not just the communication of risks or the promotion of health-enhancing behaviors, but also a genuine engagement with the community to understand and collaborate on their terms.

MODERATORS:

- Pr Hilaire Macaire Womeni, Deputy Scientific Coordonator, Dschang School of Science and Technology University of Dschang
- **Dr Yannick Kamga**, Technical Officer for Readiness –WHO Cameroon

PRESENTATIONS:

- Exploring Sociocultural and Individual Factors Influencing Risk Behavior for Priority Zoonotic Diseases in Cameroon: **Dr. Crystella Cha-ah**, Monitoring and Evaluation Officer, PNPLZER, Cameroon.
- Risk communication challenges and community engagement in emergency situations in Cameroon, **Dr Bertrand Bitomol**, University of Douala, Cameroon
- "Assessment of Behavior Risks and Prevention Strategies for Zoonotic Diseases Among Participants in the Bushmeat Supply Chain Around Dja Reserve and Boumba Bek National Park, Southern Cameroon" by **M. Joseph Mbane**, CIFOR, Cameroon.
- "Evaluating the Impact of a Health Education Program on the Awareness and Efficacy of Snakebite First-Aid in the Touboro Health District, Cameroon (June 2022 February 2023)" by **M. Elvis Nekehforba**, MINSANTE, Cameroon.

<u>RAPPORTEURS</u>: Mme Monique Assiene, Public Health Emergency Operations Coordination Centre

Mme Raissa Azekeng PNPLZER, Cameroon

RECOMENDATIONS AND CONCLUSION

- Enhance Social Behavior Change (SBC) Approaches*: To affect substantial health improvements, a robust SBC approach is vital. This should involve thorough behavioral studies to identify target behaviors and effective change strategies. The use of a multi-sectoral and interdisciplinary framework can ensure that interventions are comprehensive and sensitive to the complex factors that influence behavior.
- Increase Capacity for Risk Communication and Community Engagement: Training for stakeholders in risk communication and community engagement is essential to fortify community trust and participation. Special focus should be on empowering community organizations and networks of religious and traditional authorities to effectively communicate risks and engage with the community. Such training ensures that messaging is clear, culturally congruent, and capable of motivating positive behavior change.

The discourse reaffirms that changing social behaviors is a complex process, transcending

beyond the mere circulation of health messages. It calls for a detailed analysis of the specific behaviors to be targeted, understanding the reasons behind current practices, and crafting methods for socially integrating and accepting new behaviors. Effective social behavior change not only compels individuals to act but also ensures these actions are sustained by aligning them with social and cultural norms. By employing interdisciplinary and multi-sectoral collaboration, health programs can be designed to resonate well with the intended audience, leading to enduring positive outcomes.



"Understanding the societal, cultural, and personal factors that shape risk behaviors is foundational for crafting targeted communication content and messages to effect enduring social and behavior change".

Dr Crystella Cha-ah, Monitoring and Evaluation Officer PNPLZER, Cameroon



«Integrating behavioral sciences with various disciplines is crucial in crafting risk mitigation strategies across all tiers.»

Dr Yannick Kamga, Technical Officer for Readiness –WHO Cameroon













PARALLEL SESSION: CO-CONSTRUCTION FOR SUSTAINABLE ENGAGE-MENT AT LOCAL LEVEL: CHALLENGES AND SOLUTIONS.

This parallel session tackled the theme of sustainable community engagement at a local level, weaving through the multifaceted challenges and potential solutions. The discourse was framed around integrating community efforts in preempting emerging epidemics through the One Health lens.

Key highlights from the presentations pointed to the indispensable role of civil society organizations and community groups—youth, women, men, and traditional leaders—in raising awareness and managing misinformation, hallmarks of strong community involvement. Participation isn't just beneficial; it's imperative, and the principle of accountability necessitates local people's inclusion from inception stages.

Discussions unearthed the conflation of One Health's broad implications with institutional segmentation—realms that operationally seem disjunct yet are intrinsically linked. Food safety emerged as a case study, spotlighting the dire need for education on risky practices, such as haphazard pesticide use.

Central to the conversation was the need to refine existing preparedness systems to resonate with and serve actual community needs, thereby bolstering resilience. Emergency communication also surfaced as a critical sphere, requiring enhancement to better serve its purpose.

The One Health platform was emphasized as a vital structure for effective multi-level actor integration, promoting engagement essential to foster behavioral transformation. This symposium served as a conglomerate of experiences and expertise, culminating in a consensus on the leverage and value of co-construction for lasting community engagement and the vital cultivation of locally-grounded solutions to global challenges.

MODÉRATORS:

- Pr. Jeannette Wogaing Fotso University of Douala,
- M. Patrick Mbia Chief of Party Breakthrough ACTION Cameroun

PRESENTATIONS:

- Key Players in Fostering Community Engagement: M. Mérime Tchakoute, Health Sector
 Technical Advisor / Wood Industry Group, Cameroon
- Obstacles to Community Engagement and Bottlenecks in COVID-19 Response in Cameroon: **Ms. Yvonne Guemeni,** Ministry of Public Health, Cameroon
- Engaging Communities in Preventing Upcoming Epidemics: **Dr. Stéphanie Teguia**, CP3 Program Manager, International Red Cross Federation, Cameroon
- Stratified Communication Tactics to Engage Essential Stakeholders: **Ms. Suzanne Zogo**, Director, Ministry of Communication, Cameroon
- Strategy for improving the nutritional situation: Sharing experience in PADFA II (MINADER): **Mr. Christian KOUEBOOU**, Post-Harvest Technology and Nutrition Expert, Agricultural Sector Development Support Project Phase II (PADFA II)

<u>PANELISTS:</u> Dr Stephen Wazeh: Global Health Security Program Support Specialist. USAID - Cameroon

M. Patrice Kuitekam, Head of Fertiliser Department/National Laboratory for Diagnostic Analysis of Agricultural Products and Inputs/MINADER

M. Yacouba Mboutwouo: National Risk Observatory Focal Point, South Cameroon

Dr Stéphane Abah Abah : Sub-Director of the fight against HIV AIDS, STIs and Tuberculosis Ministry of Public Health of Cameroon

<u>RAPPORTEURS</u>: Mme Monique Assiene, Public Health Emergency Operations Coordination Centre, Cameroon

Mme Raissa Azekeng PNPLZER, Cameroon

RECOMMENDATIONS AND CONCLUSION

- Implement Community Engagement and Accountability (CEA) as a core component within programs, ensuring incorporation of at-risk and impacted communities from the outset. Involve community members in planning, delivery, surveillance, evaluation, and ongoing dialogue with policymakers.
- Use both traditional and digital tools for early warning and rumor control, empowering local leaders and youth in the process.
- Strengthen Risk Communication and Community Engagement (RCCE) through Regional One Health platforms, which entails:
 - Establishing regional RCCE Task Forces that gather various stakeholders.
 - Mapping out activities designed to enhance cross-sector collaboration.
 - Pooling resources across the spectrum-human, material, and financial.
 - Facilitating coordination and fostering synergies for the effective alignment of partner actions.

The insights gained from this session dictate that strategic coordination and the efficient utilization of existing frameworks can bolster community resilience and active engagement in response to public health emergencies.

CONCLUSION

At the end of this session, it was clear that the proper coordination of actions and the judicious use of existing mechanisms make it easier to increase people's resilience and participation in the event of a public health threat.



«A lot of resistance in the community would be non-existent if programmes were accountable from the start»

Dr. Stéphanie Teguia,

CP3 Program Manager International Federation of the Red Cross Cameroon



«Strengthening resources and coordination around Risk Communication and Community Engagement upstream, would promote more serene management of health emergencies».

Mrs Zogo Suzanne Director of Internal Public Communication.



"Building on a One Health approach that is operational at all levels will enable integrated community engagement activities to be implemented effectively"

Dr Stephen Wazeh: Global Health Security Program Support Specialist. USAID- Cameroon



"Coordination is an important element! If a system has no strong coordination, resources are wasted and the efforts made seem pointless"

M. Patrick Mbia Chief of Party Breakthrough ACTION Cameroun

PARALLEL SESSION: SKILLS / BUILDING RESILIENCE, SYSTEMIC DESIGN: A KEY TO BEHAVIOUR CHANGE

The session conducted by Mme Ngo Bakale Manuela illuminated the intricacies of systemic design and its application to building resilience, particularly within the context of the One Health approach. The exercise with the ball of wool ingeniously encapsulated the core message: every domain—be it water, energy, or finance—is interconnected. This tangible demonstration preluded the video on the Borleo cats, fostering an understanding that linear solutions often fall short when tackling complex issues.

Through everyday anecdotes, research, and medical parallels, participants were shown that people's solutions are frequently a byproduct of their perceptions, pointing to the importance of mindset in problem-solving. This was particularly significant when applying these concepts to crisis management and the One Health approach, where the inadequacy of siloed management was likened to a vulnerable colossus—stable until a crisis exposes its fragility.

The Covid-19 pandemic and cholera were used to illustrate that health crises are not me-

rely medical issues but multifaceted challenges requiring comprehensive, intersectoral strategies. The approach insists that every angle—coordination, monitoring, evaluation, and intersectorality—requires a systemic perspective to create robust, encompassing solutions.

Key discussion topics emerged, particularly the scarcity of personnel trained in design thinking, essential for this systemic approach. The group deliberated on creating mechanisms to foster a sense of involvement across various sectors when addressing emergencies. Moreover, identifying the necessary resources for implementing an integrated approach was pivotal.

In essence, the session highlighted the need to transcend traditional methodologies in favor of a holistic, interconnected framework, acknowledging that resilience in health—and by extension, in society—demands an awareness of the complex tapestry of factors influencing outcomes. This discussion on systemic design as a pathway to behavior change marks a step forward in confronting global health challenges with innovation and inclusivity.





<u>MODERATOR</u>: <u>Mme Elizabeth Serlemitsos</u>, Project Director Breakthrough ACTION – Center for Communication Programs Johns HOPKINS

SPEAKER: M. Yannick Nkoumou, Expert en Design Thinking, CEO Cameroun

<u>RAPPORTEURS</u>: Mme Monique Assiene, Public Health Emergency Operations Coordination Centre,

Mme Raissa Azekeng PNPLZER, Cameroon

RECOMMANDATIONS AND CONCLUSION

Employ design thinking methodologies in developing policies and strategies that advance the One Health initiative. Training stakeholders in design thinking will enhance the assimilation and widespread implementation of this holistic health approach.

To encapsulate the session findings, behavior reflects a multifaceted interplay of diverse elements, and altering this behavior requires interventions across every layer of society, inclusive of all fields. By weaving design thinking into the fabric of One Health strategies and policies, we can introduce a layer of creativity and profound understanding. This innovative angle holds promise for transcending barriers between disciplines and institutions through its rich toolkit of methodological resources.



"I really appreciated everything that happened, the One Health message; it's a multi-sector, multi-disciplinary approach, and that's the most important thing... the need to respect the relationship and coordination"

Mme Elizabeth SERLEMITSOS
Project Director – Breakthrough
ACTION / Johns Hopkins Center for
Communication Programs



«The decisions we make today shape the challenges we face tomorrow; understanding this is crucial as we determine our course of action.»

M. Yannick Nkoumou
Expert Design Thinking CEO
Cameroun

SYMPOSIUM 5/5

Environmental resilience and biodiversity conservation

PLENARY SESSION: BIODIVERSITY CONSERVATION ISSUES AND HEALTH RISKS



Facilitators



Dr Flaubert Auguste Mba Djondzo,

National Coordonnator Prezode-AfriCAM, Cameroon

Mme Marceline Ekom Ango, One Health Focal Point, MIN-FOF, Cameroon

This session delved into the intersection of environmental resilience and public health, emphasizing the alarmingly direct connection between human activity and the degradation of biodiversity. This relationship is particularly vital in the context of zoonotic diseases, which can leap from animals to humans, where bushmeat consumption stands as a poignant example.

As humanity encroaches on wild spaces, the risk of zoonoses escalates. The session underscored that hunting, handling, and consumption of bushmeat, while an integral part of traditional diets and a source of income in many communities, could be a passage for pathogens jumping species barriers. The implication is that sustaining livelihoods and cultural practices is becoming increasingly perilous under the shadow of potential health crises. This is a matter of concern not only to consumers but also to health professionals who face exposure risks.

During the panel, experts stressed the immediate requirement for a more incisive look at health risks stemming from the interaction between humans and wildlife. This reveals a gap in current conservation strategies, where wildlife monitoring, particularly in protected areas, tends to be undervalued. The lack of robust surveillance and research on the health impacts of interacting with wilidlife can lead to inadequate preparedness and response to wildlife emergencies.

The session ultimately highlighted the intricate dance between conservation and public health. It urged for the strengthening of policies with dual goals: to preserve the rich tapestry of global biodiversity and to shield human communities from emergent health threats. Ensuring the maintenance of biodiversity is not only a duty to our planet's life-support systems but also a non-negotiable aspect of our public health infrastructure.

MODERATORS:

- Pr Félix Meutchieye, Head of the Zootechnics Department at the Faculty of Agronomy and Agricultural Sciences (FASA), University of Dschang, Cameroon;
- M. Joseph Lekealem, Director of Wildlife and Protected Areas, MINFOF, Cameroon;
- **Mme Geneviève Fomo**; Deputy Director of Wildlife and Protected Areas, MINFOF, Cameroon.

PRESENTATIONS:

- "Environmental Sanitation and Disease Development: Analyzing the Stress on Human Health Near Domestic Waste Collection Points in Cameroon" by **Dr. Lucia Nkengazong**, University of Yaoundé I
- "A decade of Non-Invasive Health Monitoring of Western Lowland Gorillas in Habituation at Campo Ma'an National Park, Cameroon" by **Dr. Michael Viyof Kuwong**, WWF, Cameroon
- "Characteristics of Bushmeat Trade and Its Potential Health Risks in the Mbam-et-Inoubou Region, Cameroon" by **Pr. Felix Meutchieye**, University of Dschang

PANELISTS:

- M. Denis Mahonghol, Director of the TRAFFIC International Programme Office for Central Africa, Cameroon;
- Mme Thérèse Eloundou Mbarga, Technical Adviser No. 1, MINEPDED, Cameroon;
- Norbert Sonne, Country Director African Wildlife Foundation, Cameroon;
- Pr Télesphore Sime Ngando, Regional Representative, Institute of Research for Development (IRD), Cameroon;
- Dr Gaelle Nathalie Tinak, Head of the Zootechnical, Veterinary and Fisheries Education and Training Unit, MINEPIA, Cameroon;
- Dr Serge Alexis Kamgang, GIZ BSB Yamoussa Zoonoses Focal Point, Garoua Wildlife School, Cameroon;
- Dr Samuel Christian Tsakem, Deputy Director, Garoua Wildlife School, Cameroon;
- M. Matthew LeBreton, Director Mosiac, Cameroon.

RAPPORTEURS:

- Dr Steve Wilfried Fouogue Sonna, PNPLZER, Cameroon
- **M. Ulrich Deutou Ngankam**, MINEPDED, Cameroon.

RECOMMENDATIONS AND CONCLUSION:

Enhance Wildlife Disease Surveillance Systems: It is imperative to bring the wildlife surveillance sub-network up to standard with existing legislative and regulatory directives. The focus should be on crafting and circulating specialized tools that adhere to data sharing protocols, ensuring harmonization across all wildlife data systems. The implementation must be thorough, encompassing all protected areas, including marine ecosystems.

Capacity Building and Training: There is a need for integrated One Health (OH) priorities within biodiversity conservation projects. This involves comprehensive training for community members, wildlife personnel, veterinarians, academic experts, researchers, and local governance structures. Training modules on zoonoses, wildlife monitoring, and health risks associated with the bushmeat trade should be integrated into educational programs for wildlife professionals.

The efforts undertaken by the Cameroonian government, while commendable, fall short of addressing the persistent threats to wildlife health and ecosystem integrity. The plenary session's discourse suggests a crucial link between the preservation of natural habitats and the diminution of zoonotic disease risks. To alter the trajectory of Cameroon's wildlife heritage towards a healthier future, it is paramount to confront the challenges unveiled. The prompt adoption of these recommendations is key to preventing future wildlife health crises and ensuring the vitality of Cameroon's biodiversity. The essence of the conclusion is to provide an impetus to decisively respond to these exigent challenges.



"Conservation has gone from being a concern to a priority"

Norbert Sonne, Country Director African Wildlife Foundation, Cameroun



«To mitigate transmission risks, we must activate the wildlife disease surveillance system, which includes community-level monitoring. It's critical to heighten awareness among stakeholders within the supply chain and bolster the expertise of frontline workers.»

Dr Gaelle Nathalie Tinak,Chef de cellule de l'enseignement et de la formation,
MINEPIA, Cameroun



"it is time for political decisions to take account of the most recent scientific research findings, particularly with regard to the management of our environment and associated health issues".

Pr Télesphore Sime Ngando, Représentant régional de l'Institut de Recherche pour le Développement (IRD), Cameroun.

Plenary session: Constraints to the institutionalisation and operationalisation of the environmental component of the «One Health» approach in Cameroon

Under the resonant slogan of the WHO-»Today's environment, tomorrow's health»—the plenary session addressed the vital linkage between human health and ecosystem health. Current development trajectories are causing significant social, health, and environmental impacts. Notably, 24% of global diseases are linked to environmental factors, with a staggering 70% being zoonotic, primarily originating from wildlife. This connection underscores the critical role the environment plays as a host for various pathogens.

The panel discussion succeeded the initial presentations and served to underscore the challenges faced in institutionalizing and operationalizing the environmental component within the One Health framework in Cameroon. Contributions from panelists, who were experts and professionals from the environmental sector, delved into strategies for embedding environmental concerns within health sector strategies. Additionally, the discussions highlighted the importance of incorporating climate considerations into existing disease surveillance and forecasting systems. Through robust dialogue, this session aimed to pave the way for more resilient health systems that acknowledge and integrate the environmental determinants of health.

Another aspect of the discussions focused on incorporating environmental health into broader health strategies. Health does not exist in a vacuum, and sectoral strategies will likely benefit from integrating environmental health indicators and climate variables. This integration is essential for predicting disease outbreaks and implementing timely interventions.

One of the biggest constraints may be the gap between acknowledging the importance of the environmental component and acting upon it. This includes mobilizing adequate resources, enhancing cross-sectoral collaborations, developing robust data collection and analysis systems, and building capacities at all levels to recognize and respond to environmental health threats.

Ultimately, the session appears tailored to not only highlight these issues but also to propose a roadmap for the institutional adoption and practical application of the One Health approach. Success would mean that policies reflect the integrated nature of health and environment, surveillance systems incorporate climatic data, training programs prepare workers across sectors to handle these challenges, and that all of this operates within a framework supported by adequate funding and political will.

In a nutshell, the plenary session not only rings a warning bell on the consequences of environmental mismanagement but also serves as a call to arms for a coordinated response that upholds the principles of One Health, ensuring a sustainable approach to human, animal, and environmental welfare.

MODERATORS:

- M. Adama Saidou, Director of Promotion and Sustainable Development, MINEPDED Cameroon;
- **Pr Télesphore Benoît Nguelefack**, University of Dschang, Cameroon

PANELISTS:

- M. Yacinthe Mboh, Director of Standards and Control, MINEPDED, Cameroon;
- Pr Joseph Armathée Amougou, Director General, National Observatory on Climate Change (ONACC), Cameroon;
- Dr Ramses Meyong, Assistant Research Officer No. 1 in the Climatological Services, Monitoring and Alerts Production Department, ONACC, Cameroon;
- Dr Lucia Nkengazong, Director of the Centre for Health and Priority Pathologies (CRSPP),
 MINRESI, Cameroon;
- Pr Marc Kouam, University of Dschang, Cameroon;
- Pr Tsague Faustin Manfo, University of Buea, Cameroon;
- Pr Chegaing Fodouop Simon Pierre, University of Ngaoundéré, Cameroon;
- Pr Pascal Chuisseu Djamen, AFROHUN (Africa One Health University Network) Dean for Université des Montagnes (UdM), Cameroon.

RAPPORTEURS:

- Dr Steve Wilfried Fouogue Sonna, Programme zoonose, Cameroon;
- M. Ulrich Deutou Ngakam, MINEPDED, Cameroon.

RECOMMANDATIONS AND CONCLUSIONS:

- Enhance Health-Environment Indicator Monitoring and Expedite Information Sharing: A critical step is to reassess health-linked environmental indicators and expand their accumulation at the national scale. Establishing a real-time data and information exchange framework is crucial; this cross-communication between animal, human, and environmental health sectors will bolster decision-making processes.
- Prioritize Environmental Health Research: Research institutions, technical bodies, and financial partners should give precedence to exploring environmental determinants and risk factors that contribute to public health emergencies.
- Advance Hygiene Practices for Disease Prevention: Revise waste management Standard Operating Procedures (SOPs) and national strategies, particularly during health crises. Councils should facilitate the adoption of effective waste disposal practices by designating dedicated sites and establishing regulated collection schedules.

To conclude, the imperative to integrate environmental considerations into our disease surveillance infrastructure was made abundantly clear. Addressing environmental health issues stands as a priority for a more comprehensive One Health approach.



"Climatological services, a tool for better monitoring of climate-sensitive diseases, in a context more than ever marked by a resurgence of emerging diseases, exacerbated by climate change".

Dr Ramses Meyong,

Assistant Project Manager N°1 in the Department of Production of Climatological, Monitoring and Alert Services, ONACC, Cameroon



"Humanity's survival depends on safeguarding nature"

Mr. Adama Saidou,

Director of Promotion and Sustainable Development, MINEPDED, Cameroon











SYMPOSIUM 6/6

Leveraging One Health data for evidence-based health management and innovation

PLENARY SESSION: ADVANCEMENTS IN ONE HEALTH DIGITAL DATA TOOLS



Pr Georges Nguefack-Tsague, University of Yaounde 1, Cameroon



Dr Danièle Sandra Yopa, Ministry of Public Health, Cameroon

Inhanced data sharing and analysis foster collaboration, resource optimization, and improve responses to zoonotic diseases. Discussions explored the implications of data quality on health policies and the review of cutting-edge developments in data management technologies was conducted by experts from academia and industry, alongside students.

Panelists discussed the integrated analysis of multi-sourced databases and emphasized strengthening community-level surveillance systems. Also covered was the importance of developing tools that empower local communities as pivotal data contributors within the One Health context. The session showcased PNPLZER's rumour management initiative, which targets misinformation and aids in ground-level surveillance. Notable tools like Georgetown University's digital tool and the EIOS platform were mentioned for their roles in monitoring local and international media and social networks for early public health threat detection.

MODERATORS:

- **Dr Georges Mveng**, Technical Adviser Number 2, Ministry of Livestock, Fisheries and Animal Industries (MINEPIA), Cameroon
- Dr Marc Cyrille Eloundou, One Health Expert, World Health Organization (WHO),
 Cameroon

RAPPORTEURS:

- **Dr Hilary Lonla**, University of Yaounde I, Cameroon
- Mme Manuella Efemba, Ministry of Public Health, Cameroon
- M. Aurelien Fotso, PNPLZER, Cameroon

PRESENTATIONS

- Extension of the Community-Based Surveillance tool: role for the One Health approach, **Dr Elise Ikoula**, Health Information Unit (CIS), Cameroon
- Data Science and One Health innovation, **M. Bedes Ngem**, University of Georgestown, Cameroon.
- A multi-sectoral approach to rumour management, **Dr Thierry Belinga**, National Program for the Prevention and Fight against Emerging and Re-emerging Zoonoses, (PNPLZER), Cameroon
- One Health data for evidence-based health management and innovation: Epidemic Intelligence from Open Sources (EIOS), **Dr Nicole Fouda Mbarga**, WHO, Cameroon
- Development of One Health surveillance Toolkit for Global Use with DHIS-2, **Dr Stefan Williams**, Center for Diseases Control and Prevention (CDC), Atlanta.

RECOMMENDATIONS AND CONCLUSION

- Strengthen Community-based Surveillance Tools:
- Training Initiatives: Develop comprehensive training programs for health workers, environmental specialists, and community leaders on the use of surveillance tools to ensure widespread adaptability and effective utilization.
- Community Engagement: Introduce educational campaigns to inform community members of their critical role in detecting early signs of disease, reporting unusual events, and the subsequent management of health risks, thereby enabling communities to become active participants in the surveillance system.
- Interoperable Digital Data Management System and Resource Mobilization:
- Interoperability Design: Draft a blueprint for an interoperable digital data management system that integrates data from human health, veterinary services, and environmental monitoring to facilitate seamless data exchange and holistic disease tracking.

 Resource Mobilization Plan: Prepare a strategic plan to mobilize the necessary financial and technical resources. This may involve engaging government bodies, international partners, NGOs, and the private sector to invest in the health infrastructure and the proposed data management system.

The conclusions assert that an informed and engaged community, equipped with the right tools and knowledge, becomes a first line of defense against disease outbreaks. Meanwhile, a robust, interoperable data management system acts as the backbone for an effective One Health approach. Both strategies are critical in fortifying Cameroon's public health infrastructure against emerging and re-emerging zoonoses.



"Collaboration between stakeholders, optimization of resources and capacity building are important for the dissemination of Community-Based Surveillance tools, which must be integrated, complementary and interoperable in line with the One Health approach»

Dr Elise Ikoula, Health Information Unit (CIS), Cameroon



"Rumours can have an impact on behaviour that has a negative effect on the response to a public health emergency"

Dr Thierry Belinga,
National Programme for the Prevention and Fight against Emerging and Re-emerging Zoonoses (PNPLZER),
Cameroon.







Parallel Session: Leveraging Technology and Innovation for One Health Data Management in Cameroon

This session explored the transformative influence of technology on public health surveillance and response through a One Health lens in Cameroon. Participants examined the utilization of digital tools and artificial intelligence (AI) to enhance data collection and analysis, particularly regarding zoonotic diseases. The discussion underscored ongoing projects by university academics to develop AI-powered applications for forecasting and managing outbreaks of novel and recurring infections. One significant highlight was the introduction of the WHONET software, a WHO initiative, to track antimicrobial resistance within the human and animal health sectors in Cameroon.

The session also facilitated collaborative group work where diverse areas of expertise converged to forge actionable strategies for establishing a cohesive digital data management system. Central to these deliberations was clarifying roles, defining stakeholder responsibilities, and addressing the nuances of executing an integrated data management framework, tailored to the One Health approach.

MODERATORS:

- Dr Georges Mveng, Technical Adviser Number 2, Ministry of Livestock, Fisheries and Animal Industries (MINEPIA), Cameroon
- Dr Marc Cyrille Eloundou, One Health Expert, World Health Organization (WHO), Cameroon

RAPPORTEURS:

- **Dr Hilary Lonla**, University of Yaoundé I, Cameroon
- Mme Manuella Efemba, Ministry of Public Health, Cameroon
- M. Aurelien Fotso, PNPLZER, Cameroon

PRESENTATIONS:

- WHONET tool and One Health approach in the fight against AMR: experience sharing, Dr
 Dorine Tseuko, AMR Focal Point, National Public Health Laboratory (LNSP), Cameroon
- Testing a health information system management platform in a One Health approach: the case of DHIS2, Mr Paul Yvan Deffo, Director, DPY consulting, Cameroon
- Data governance in the One Health approach, Dr Christelle Dongmo, Ministry of Public Health, Cameroon
- Artificial Intelligence Applications to Support Epidemic and Pandemic Prevention, Preparedness and Response (AI4PEP); controlling Re-emerging and emerging Infectious diseases using a digital One Health approach in Cameroon, Pr Dickson Shey Nsagha, Vice-Dean for Studies and Students' Affairs, University of Buea, Cameroon

RECOMMANDATIONS AND CONCLUSION:

Regulatory and Institutional Framework:

- Legislation must be established to govern the management of multi-sectoral data.
- Form a national and decentralized data coordination office respecting One Health's diverse sectors.
- Create strategic planning and interoperable data guides for various sectors.
- Establish a clear system for data collection and sharing across sectors and administrative levels.

Consensual Data Management Procedures:

- Assess existing data system interoperability to improve integration.
- Engage experts to establish roles and responsibilities associated with data management to maintain data security.
- Define indicators for data quality monitoring and establish data dissemination mechanisms.

Integration of Artificial Intelligence:

- Encourage partnerships between academia and One Health sectors to harness AI for enhanced data surveillance.
- Al can assist in the early detection and swift response to disease outbreaks.



« We will be making a positive contribution towards levelling the playing field with respect to access to health care and health information using artificial intelligence and the One Health concept »

Pr Dickson Shey Nsagha, Vice-Dean for Studies and Students' Affairs, Université de Buea





Programme Zoonoses Cmr
@CmrZoonoses

ACHIEVEMENTS TOWARDS ENHANGING COUNTRY PREPAREDNESS AND RESPONSE CAPACITIES (2012-2023) DECADE OF IMPLEMENTATION OF ONE HEALTH IN CAMEROON



www.onehealth.cm

Surveillance and National Laboratory System

Vision: Establish and strengthen multi-sectoral and inter-sectoral coordination, collaboration, and communication to effectively prevent and control threats in the One Health domains at national and local levels.

HPAI HSN1 fund common project Prime Minister 2006

One Health Institutionalization

Ad hoc committee to establish the Zoonoses Program 2008

299

PARTY SERVICE SERVICE

ernational n Wildlife 2005

untrax outbreak in great apes 2004

2014 Establishment of Zoonoses Program Prime Minister

Mission: Create a flourishing Cameroonian nation, where optimal health is enjoyed by humans, animals, plants, and the environment, thanks to collaborative efforts from various stakeholders at the local, national, regional, and global levels by the year 2035.

Enhancing International Health regulation and Performance of veterinary Services core capacities **Keys Achievements**





Andrews W Patrician PROGRAMM OF PRINCIPOS TO AUTHOROUGH LE DODONIES DELECTOR DE PRESENTATION DELECTOR DE PRESENTATION





04 Multisector investigations per year

Ouarterly One Health bulletins and Yearly One Health Magazine per year

One Health networks formed (One Health University network and One Health Cut Society Organizations network, ROOHCAM).

03

2

2

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Health protify domains
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leandership, surveillance)

10
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One Health Operationalization



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Risk Comunication and Community Engagement (RCCE)









Collaborative training and research for workforce development of future One Health in-sen/ice, pre-workforce training, FETP, ISAVET One Health workforce development manual.



Food Safety and Antimicrobial Resistance





SESSION 1: 1:

Empowering Civil Society Organizations for Enhanced Community Engagement

Facilitator



Mme Manuela Ngo Bakale

Global Health Security Project Coordinator - Break through ACTION

Ley to readying communities for health threats is fortifying the capacity of local stakeholders. Sharing triumphs and trials, as well as applicable solutions and insights, is crucial for enabling them to play an effective role. This is an essential element in the groundwork for health preparedness that cannot be overlooked.

The spotlight shone on members of the One Health Civil Society Organizations Network in Cameroon (ROOHCAM) during this invigorating session. Kicking off with a dynamic tabletop simulation, participants tackled an avian flu outbreak scenario. The exercise homed in on three pivotal areas: implementing measures for risk communication and community engagement, managing rumors efficiently, and determining impactful communication tactics.

A diverse and knowledgeable discussion panel took the stage, comprising public emergency management specialists, project strategists, strategic leadership authorities, journalists, human rights defenders, and behavioural science professionals. A recurring theme surfaced: Cameroon's emergency management is notably plagued by a lack of cohesive coordi-

nation and a dearth of widespread local knowledge.

Ignoring intrinsic traditions, practices, and beliefs when crafting strategies for public health preparedness and response often results in resistance within communities. Thorough dissemination of Risk Communication and Community Engagement processes can prime communities for different crisis stages. Harmonizing voices for more effective emergency management emerged as a crucial takeaway message.

The session culminated in the showcase of the Operational Procedures and Standards manual—a beacon for risk communication and community engagement. This invaluable guide, centered on principles of integration, trust, coalition, prompt action, teamwork, and resource sustainability, delineates actions for practitioners. The manual addresses three core areas: Health Emergency Management System, Risk Communication, and Community Involvement, ensuring communities are not just involved but engaged at every step.





MODERATORS:

- Mr Patrick Mbia Chief of Party Breakthrough ACTION Cameroon
- Mme Andrée Gaelle Issola: Public Information Officer Covid-19 / Public Health Emergency Operations Coordination Centre

Speakers:

- Mme Elizabeth SERLEMITSOS Project Director Breakthrough ACTION / Johns Hopkins Center for Communication Programs
- Mme Carlene Romance NGUELLE: Programme officer Breakthrough ACTION-Cameroun
- Prof. Jeannette WOGAING: University of Douala
- Mme Gaelle KOPLONG Journalist specialist in Civil Protection and Communication for Development
- Mme Marie Helene EBIELINE President of ROOHCAM, Consumers Rights expert

Rapporteurs:

- Mme MOAFFO Anne, PNPLZER, Cameroon
- Mme Raissa AZEKENG, PNPLZER Cameroon

RECOMMENDATIONS:

- Enhance coordination among stakeholders at all levels by developing a contingency plan aimed at effective emergency management. This should include fostering stronger collaborations between civil society organizations, decision-makers, and operational-level personnel to ensure efficient community mobilization. Additionally, resilience building for decentralised local authorities (CTDs) and private-sector participants in emergency response is critical.
- Improve the competencies of local actors by facilitating access to resources such as standard operating procedure (SOP) manuals, strategic communication plans, and emergency guidelines. Furthermore, establish information-sharing mechanisms with the media, leveraging influencers and content creators to enhance communication strategies for rumor management.

CONCLUSION:

Overall, the session provided an opportunity for participants to exchange valuable experiences and insights on preparing for health emergencies. The SOP Manual stands out as a critical tool to streamline the acknowledgment of various stakeholders' roles and responsibilities within the CREC, ensuring effective coordination throughout the public health event management process in Cameroon.



«...be based on what communities already have by respecting their beliefs in the design and implementation of interventions. interventions».

> **Professor Wogaing Jeannette,** University of Douala











SESSION 2: 2:

Enhancing Access to Post-Exposure Prophylaxis (PEP) and Surveillance for a Rabies-Free Cameroon

Organizers: Centre Pasteur du Cameroun (CPC)

uring the Side Event session titled «Enhancing Access to Post-Exposure Prophylaxis (PEP) and Surveillance for a Rabies-Free Cameroon,» the pressing challenges Cameroon faces in controlling and eliminating this significant zoonotic disease were underlined. Audience members, comprising animal and human health stakeholders, biologists, students, and even members of civil society, learned about the «Rabies Control and Elimination in Cameroon (RACE)» project. The project is currently active in Cameroon with the goal of realizing the Integrated Strategic Plan for the Elimination of Human Rabies of Canine Origin. The Centre Pasteur du Cameroun (CPC), the Directorate of Veterinary Services, and other sectors are collaborating within the «One Health» framework.

The project focuses on three principal activities: (i) surveillance, (ii) dog vaccination, and (iii) provision of care for bitten individuals (PEP). Throughout the discussions, the presenters suggested guidelines for improving our surveillance system. They also recommended free mass vaccination campaigns for dogs and other pets to prevent rabies.

Nevertheless, a significant challenge persists regarding the availability and access to human rabies vaccines. These vaccines come at a cost, which patients themselves currently have to bear, making it a considerable expense for our population.

MODERATORS

- Mme Elisabeth DIBONGUE: Deputy Permanent Secretary of the PNPLZER /One Health Platform

- Dr Mathurin TEJIOKEM: Head of Epidemiology and Public Health Department, Centre Pasteur du Cameroun;

SPEAKERS:

- **Dr. FEUSSOM KAMENI Jean Marc:** Permanent Secretary of the Réseau d'Epidémio surveillance des Maladies Animales du Cameroun (RESCAM) :
- **Dr Arouna NJAYOU:** Research Lecturer at the University of Ngaoundéré, Coor donnateur National AFROHUN;
- **Dr. Marcel LIKENG:** Head of the Antirabies Centre at the Centre Pasteur in Cameroun;
- **Dr. Katherine WORSLEY-TONKS:** Lyssavirus Unit, Epidemiology and Neuropathology Institut Pasteur;
- **Dr Rodrigue POUEME:** National Coordinator of the RACE Project (Rabies Control and Elimination in Cameroon). and Elimination in Cameroon).

RECOMMENDATIONS AND CONCLUSION:

During the session, the audience made the following recommendations:

- Expand the activities of the RACE project to all regions of Cameroon to ensure uniform coverage of rabies control measures.
- Identify individuals at high risk of rabies exposure, such as veterinary service staff and veterinary students, to enhance local awareness and provide necessary pre-exposure prophylaxis.
- Increase the involvement of private-sector veterinarians in rabies surveillance and offer them capacity-building support through the RACE project.

- Rehabilitate all non-functional rabies centers to strengthen the healthcare infrastructure.
- Encourage the government to take advantage of the opportunity presented by GAVI for access to free human rabies vaccines, which is of immediate concern.

The panelists concluded by highlighting the critical role of multi-sectoral collaboration in the fight against rabies. They pointed out the importance of partnerships between the government, public and private institutions, and health programs and projects. The panelists stressed the collective responsibility to negotiate reductions in vaccine prices, guarantee their accessibility to everyone, and to ensure that post-exposure prophylaxis is offered at no cost in Cameroon.



YOHF AWARDS... 2023



BEST ORAL PRESENTATION PLATINUM CATEGORY YOHF 2023



Pr Meutchieye Felix,

University of Dschang, Cameroun: « Bushmeat trade Characteristics and the Potential associated Health Risks in Mbam and Inoubou Division of Cameroon

Best oral presentation Platinum category:



Dr Daniele Sandra Yopa,

Ministry of Public Health Cameroon: « Barriers to the implementation of one health strategies in developing countries

Best oral presentation
Gold category:



MmeTeke Efeti Mary,

University of Buea: « In-silico Design and Preliminary Serological Validation of Multiepitope Antigens for Humans Monkeypox Virus Surveillance

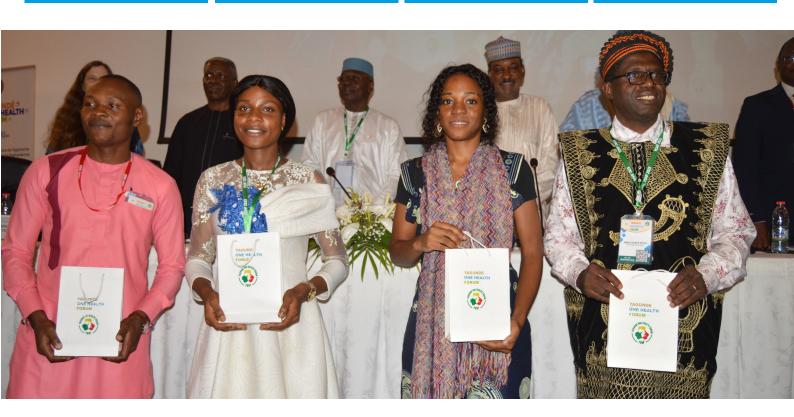
Best poster presentation in the Platinum category:



Dr Hervé Gael Nkondje Ndallé,

Ministry of Livestock, Fisheries and Animal Industries: « Brucellosis Knowledge, Attitudes and Practices among Healthcare and Animal Health Professionals: Yaoundé and Douala, September 2023, Cameroon

Best poster presentation Gold category:



ONE HEALTH CHAMPIONS 2023

During YOFH 2023, 21 personalities from various political, administrative, associative and academic backgrounds received awards for their contribution to the operationalization and promotion of One Health in Cameroon.

The posthumous honors for Prof Lazare Kaptue, Prof Gervais Andze, and Dr Mpoudi Ngole acknowledged their significant contributions to curbing infectious diseases and advancing the One Health Approach in Cameroon.

FULL NAMES	INSTITUTIONS
1. Dr TAIGA	Ministry of Livestock, Fisheries and Animal Industries
2. Mme Monique OULI NDONGO	Senator
3. Mr Adrian NGO'O BITOMO	University of Douala
4. Mr Sali BALLO	Services of the Prime Minister
5. Mr Joseph LEKEALEM	Ministry of Forestry and Wildlife
6. Dr Georges ETOUNDI	Ministry of Public Health
7. Dr Vitalis CHEPNDA	Ministry of Livestock, Fisheries and Animal Industries
8. Mr Gilbert SAHADIO	Services of the Prime Minister
9. Pr Gervais ANDZE	Posthumously
10. Pr Lazare KAPTUE	Posthumously
11. Pr Ambroise KOM	Université des Montagnes
12. Dr Col. Eitel MPOUDI NGOLE	Posthumously
13. Dr Jean Paul KOMON	Ministry of Higher Education
14. Dr Abel WADE	National Veterinary Laboratory
15. Dr Severin LOUL	Economic Community of Central African States
16. Dr Henri ZAMBOU	Veterinary Epidemiology and Public Health Association /EQUAVET Group
17. Dr Serge NZIETCHUENG	Université de Liège
18. Pr Arouna NJAYOU	University of Ngaoundere
19. Dr Conrad Nkuo	National Program for the Prevention and Fight against Emerging And Re-Emerging Zoonoses
20. Mme Elisabeth DIBONGUE	National Program for the Prevention and Fight against Emerging And Re-Emerging Zoonoses
21. Dr Gaston DJONWE	Food and agriculture organization -Emergency Center for Transboundary Animal Diseases





Posthumously, Wife of **Pr Lazare KAPTUE**



Dr Henri ZAMBOU, ESPV/EQUAVET Group



Dr Conrad NKUO, Permanent Secretary PNPLZER



Mme Elisabeth DIBONGUE, Deputy Permanent Secretary PNPLZER



Pr Arouna NJAYOU, University of Ngaoundéré



Mr Gilbert SAHADIO, Prime Minister Service



Dr Serge NZIETCHUENG, Liège University



Dr Gaston DJONWE, FAO ECTAD



Dr Severin LOUL, ECCAS



Dr Jean Paul KOMON, MINESUP



Dr Col. Eitel MPOUDI NGOLE,Posthumously



Mr Sali BALLO, SPM



Mme Monique OULI NDONGO, Senat Cameroon



SUMMARY OF COMMUNICATION ACTIVITIES

The communication strategies for the Yaounde One Health Forum (YOHF) were instrumental in promoting its presence on both national and international stages. Utilizing a blend of traditional and contemporary channels, YOHF harnessed the power of radio and TV to propagate the One Health approach. Experts appeared on national broadcasts, advocating the initiative and detailing the forum's objectives. Coverage wasn't limited to public airwaves; private media outlets also spotlighted the event. In the digital realm, a comprehensive campaign spanned the period before, during, and after the forum, ensuring sustained engagement and awareness.

Traditional media

Radio, television, the press, and the web were well mobilized to relay information about the YOHF. They were represented by some fifteen media professionals, all of whom were present at least at the opening and closing ceremonies. Twenty or so reports were recorded in all media, broadcast, and published nationwide in English and French.

Digital communication

The strategy implemented for the YOHF digital communication campaign was focused and collaborative, leveraging both social media platforms and the influential role of bloggers and content creators. Here's a breakdown of the approach:

Use of Social Media:

- 1. Hashtag Campaign: The (#YOHF2023) hashtag was used for the campaign to streamline discussions and increase visibility.
- 2. Platforms: Facebook and X (Twitter) were the

primary channels used, capitalizing on their expansive user bases.

Influencer Engagement:

- 1. Collaboration: Engaging bloggers and content creators from the Association of Bloggers in Cameroon brought onboard voices that are trusted by their followers, likely enhancing credibility and reach.
- 2. Production of Content: These influencers were provided with information and graphics to help create authentic content that promoted YOHF, helping in personalizing the message to their respective audiences.

Content Distribution:

- 1. Before, During, After: There was a timeline in place for content roll-out, ensuring sustained interest and coverage of the YOHF.
- 2. Original Blog Posts: These posts helped in providing more detailed information and personal insights into the forum, supplementing the more concise social media posts.

Support from Official Channels:

- 1. National One Health Platform: The involvement of official accounts ensured that accurate and authoritative information was disseminated.
- 2. Documentation Relay: All relevant information regarding the presentation, preparation, and progress of YOHF was shared, maintaining transparency and accessibility.

From this campaign description, there was an emphasis on a comprehensive digital strategy that combined the strengths of social media's broad reach and the influence of individual content creators to amplify the YOHF's visibility and impact.

+ de 1K

tweets made with the hashtag #YOHF2023.

+ 657K

impressions (total number of views of tweets featuring the hashtag)

+ 79K

reach (number of X accounts that saw at least one tweet with the hashtaa)

+ de 1,8M

impressions (number of times a publication featuring the hashtag #YOHF2023 appeared on screen)

+ 850K

views (number of people who have seen a publication with the hashtag #YOHF2023 at least once)

SCREENSHOT PUBLICATIONS











Santé publique

Rideau sur le Yaoundé One Health Forum

La rencontre tenue du 2 au 3 novembre a réuni plus de 500 experts d'une quinzaine de pays.



Mutations n° 5947 Mardi 07 novembre 2023



MOUNDS ONE HEALTH FORUM

Du 02 au 03 novembre 2023, s'est tenu au Hilton Hotel, le Ya

Organisée par le Programme Zoonoses, plateforme Une Seule Santé Su Cameroun, cette tière édition avait pour thême "Décennie de miss m oeuvre de l'approche Une Seule Santé en Afrique Subsaharienne: Malisations, défis et perspectives en vue d'améliorer la préparation e a réponse aux prochaînes menaces à la sécurité sanitaire"... En voir phys



Dr Abel Wade

Nous avons profité de la marche pour sensibiliser le public Le director général de Laboration national rélationair présente la plan value de la marche opartine qui actifiant, sommé 4 novembre démire, les activités de commémoration de la journée mondaite «Ore rélatifie.



Par Guy Martial Tchinds

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d'holine, le Togo, entre autres.



Mutations n° 5948 Mercredi 08 novembre 2023



Programme Zoonoses Cameroun obre 2023 - 🚱

★ Yaoundé One Health Forum (YOHF) Vous vous demandez certainement...

- Qu'est ce que le YOHF ?
- Quelles sont les activités phares du YOHF ?
- A qui s'adresse le YOHF ?
- Pourquoi participer au YOHF ?

Mme DIBONGUE Elisabeth, Secrétaire Permanent Adjoint du Programme Zoonoses, plateforme Une Seule Santé du Cameroi vous parle de ce grand événement qui a eu lieu à Yaoundé, ces 02 et 03 novembre.

#YOHF2023







The Yaoundé One Health Forum (YOHF) culminated with a closing ceremony, led by the Secretary General of MINEPIA. The ceremony opened with a summary of the forum's outcomes, delivered by the President of the Scientific Commission. During this presentation, key insights and the significant recommendations made during the forum were highlighted.

In a touching segment of the ceremony, individuals dedicated to implementing the One Health approach in Cameroon were honored with the YOHF Awards 2023, bestowed by the Prime Minister Head of Government, recognizing their outstanding contributions.

Addressing the assembly, the Secretary General of MINEPIA focused on the importance of nurturing human capital, the necessity of community involvement in health preparedness and response, and the urgency of creating interoperable surveillance systems.



«It is my duty to pass on the participants' recommendations to the Prime Minister, Head of Government, in particular the one relating to the institutionalization of the Yaoundé One Health Forum initiative. In closing, I call upon all parties to diligently apply the collective resolutions and innovative concepts discussed herein to enhance the welfare of flora, fauna, and humankind.»

Monsieur El HADJ MANU JAJI GIDADO, Secretary General of the Ministry of Fisheries, Livestock, and Animal Industries



«The inaugural YOHF facilitated a dynamic dialogue on One Health, drawing over 700 attendees from 18 nations. This diverse crowd included representatives engaged in the One Health initiative, quadripartite members, allies supporting One Health strategies, civil society voices, regional bodies, academic circles, and specialists. The forum served as a pivotal stage to propose and contemplate viable strategies, propelling the One Health mission forward in Cameroon and across sub-Saharan Africa.»

Professeur Mouiche Moctar, Head of the YOHF Scientific Committee.

GENERAL RECOMMANDATIONS OF THE YOHF

TO THE QUADRIPARTITE AND OTHER TECHNICAL AND FINANCIAL PARTNERS

- 1) Harmonise the interventions of technical and financial partners and support One Health platforms in member countries
- 2) Increase the mobilisation of resources needed to implement joint One Health activities;
- 3) Develop and disseminate harmonised guidelines/tools for the implementation of One Health activities in member countries
- 4) Provide technical and financial support for the implementation of One Health activities in member countries.

REGIONAL AND SUB-REGIONAL ORGANISATIONS

- 1) Coordinate and strengthen collaboration between member countries through regional and sub-regional One Health platforms.
- 2) Institutionalise the YOHF initiative as the African platform for reflection, exchange and sharing on the One Health approach.
- 3) Advocate for the mobilisation of the resources needed to implement One Health activities in member countries.
- 4) Create a network for the One Health platforms of the member countries
- 5) Set up a system for sharing surveillance data and health data from member countries
- 6) Strengthen cross-border collaboration for the prevention, detection and response to health situations.

TO THE GOVERNMENT OF CAMEROON

- 1) Finalise the revision of the institutional and legal framework of the National One Health platform.
- 2) Boost budgetary allocations for One Health endeavors.
- 3) Institutionalize One health at the Sub-National Level

TO THE NATIONAL ONE HEALTH PLATFORM

- 1. Engage with policymakers and all societal sectors, including local communities, to champion the One Health concept.
- 2. Expedite the decentralization of the One Health Platform, along with sectoral activities, fostering local and community-level multi-sector coordination and sector synergies.
- 3. Revitalize the One Health network of Cameroon's universities
- 4. Advocate for the introduction of One Health into the curricula of continuing education programs.
- 5. Intensify multi-sector surveillance efforts at the interphase of human, animal, and environmental health.
- 6. Deepen community involvement and engage the private sector and civil society in the adoption of the One Health Approach.
- 7. Mobilise resources for the implementation of One Health activities in Cameroon, including research,
- 8. Develop and implement a One Health Information System.

TO THE SECTORS

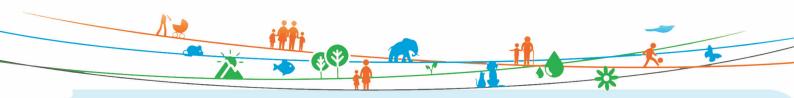
- 1. Tailor interventions to align with the National One Health Strategy, ensuring support for One Health initiatives is coordinated and strategic.
- 2. Bolster community-based surveillance by training key participants in the application of surveillance technologies, aimed at enhancing the timeliness and accuracy of detecting public health events.
- 3. Amplify the risk management capabilities of all stakeholders with a focus on Risk Communication and Community Engagement (RCCE), building resilience and readiness.
- 4. Intensify implementation of behavioral change communication strategies across health promotion programs, facilitating sustainable health practices.
- 5. Consolidate the network for disease surveillance in wildlife, with special emphasis on wetland habitats and conservation areas, to mitigate spillover risks.
- 6. Encourage an interdisciplinary approach in research, fostering integration of diverse concepts and nurturing scientific leadership among researchers.
- 7. Advocate for a legal framework that mandates the reporting of notifiable diseases and potential public health emergencies by community members to nurture proactive public health vigilance.
- 8. Ensure that community engagement and transparency are fundamental and consistent elements of healthcare programs.
- 9. Embed health considerations into the fabric of policies, strategies, and projects to ensure a health-in-all approach.

TO THE PRIVATE SECTOR

1) Direct corporate social responsibility (CSR) initiatives toward supporting the One Health approach through active engagement in public-private partnerships.







General coordination

Names Structures Sali Ballo

Prime Minister's Office (SPM) Lekealem Joseph Ministry of Forestry and Wildlife (MINFOF)

Garga Gonne Ministry of Livestock, Fisheries and Animal Industries (MINEPIA)

Etoundi Alain Ministry of Public Health (MINSANTE)

Adama Saidou Ministry for the Environment, Protection of Nature and Sustainable Development (MINEPDED)

Ntoh Nkuo Conrad National Program for the Prevention and Fight against Emerging and Re-emerging Zoonoses (PNPLZER)

Njayou Arouna University of Naaoundere Serge Nzietchueng Université de Liège

SPM Sahadio Gilbert

Secrétariat technique

Dibongue Elisabeth PNPLZER

Mvodo Stéphanie University of Buea

Belinga Daniel PNPLZEŔ Amawota Alvine Aurelle **PNPLZER** Essoh Aurélie MINSANTE Ekom Marceline MINFOF Kenne Sandrine Private sector Azekeng Raïssa PNPLZER Fotso Aurélien **PNPLZER** Makoutsing Anne **PNPLZER** Kuh Blessing **PNPLZER** Ndtoungou Schouame A. **MINSANTE**

Scientific Committee

Mouiche Moctar USAID-Infectious Disease Detection and Surveillance (IDDS)

Esso Linda **MINSANTE** University of Buea Zofou Denis Bilounga Chanceline Adama Ndir MINSANTE CDC Mongkuo Yvonne Gaelle USAID-IDDS

Kom Yagou Késia Andreas **HDDS** Ngo Bakale Manuela Breakthrough ACTION Womeni Hilaire Macaire University of Dschang University of Douala Wogaing Fotso Jeannette CREMER/IRD

Mba Djondzo Flaubert Nguefack-Tsague University of Yaoundé 1 Yopa Sandra MINSANŤE

Feussom Kameni Jean-Marc MINEPIA French Red Cross Djeri Amani Molamba Félicité Flore Djuikwo Université des Mountains University of Bamenda Awah Ndukum University of Buea Sophie Etomes Zambou Henri

Cha-ah Crystella Ngong **PNPLZER** Anya Priscilla **USAID-IDDS**

Communication Committee

Djeny Ngando Ministry of Communication Olinga Yacinthe Cameroon Red Cross

MINFPIA Ayi Amougui Emily Kuicheu Thierry Nnang Santana **PNPLZER**

Cameroon Red Cross

ROOHCAM Mpondo Prince Wokam Kamdem Klove D. HDDS Alene Boaben Carole MINCOM Andela Claude Landry MINCOM Anya Simi Anyta MINCOM

Logistics Committee

Onana Thaddee MINSANTE

Abogane Na Joël Public Health Emergency Operation Centre (CCOUSP)

Limnyuy Gladys Numvi Collins PNPI 7FR **PNPLZER** Soulay Abdoulaye **CCOUSP**

Ministry of Agriculture and Mezukam Tamo Nathalie Rural Development (MINADER)

Bingono Vince Steve MINEPDED

Public Relations Committee

Ministry of Scientific Research and Amina Djouldé Christelle

Innovation (MINERSI)

Bouba Bello Ministry of Tourism and Leisure (MINTOUL)

Atongapai Diana **MINSANTE**

Cultural Activities Committee

MINTOUL Mfouapon Alassa Manasse Adoueme ROOHCAM Ebieline Marie Hélène ROOHCAM Abomo Afana Bertin

Health and Safety Committee

Nwobegahay Julius Ministry of Defence (MINDEF) Teguia Stephanie International Federation of Red Cross

and Red Crescent Societies Atangana Nestor **MINSANTE**

Cameroon Red Cross Ewoudou Auguste

MINDEF Tchouani Kouemo Jean J.

Finance Committee

Ngala Allen **PNPLZER**

Ngo Mpan Clémence **PNPLZER**

LIST OF POSTERS

TITLE OF POSTERS	NAME AND SURNAME	INSTITUTIONS
Strengthening biosafety and biosecurity (BSS) legal aspect in Cameroon: a contribution	Chuisseu Djamen D. Pascal	Faculty of Health Sciences, Université des Montagnes, Cameroon
from AFROHUN network	Chuisseu Djamen D. Pascal	Faculty of Health Sciences, Université des Montagnes, Cameroon
Nanobiofungicide based on Cymbopogom citratus essential oil: Alternative to chemically synthesized pesticides used in the fight against peanut and bean pests.	Davy Moussango Victor	Institut Universitaire de Technologie, Université de Douala, cameroun
Gestion des déchets bio-medicaux dans les cli- niques vétérinaires du département du Mfoundi et du Laboratoire National Vétérinaire (LANAVET) an- tenne de Yaoundé.	Fouogue Sonna Steve Wilfred	Programme Zoonoses (PNPLZER) - Cameroun
Performances du filtre horizontal planté de Crinum jagus en épuration des eaux usées domestiques dans les Hautes Terres de l'Ouest Cameroun	Dadjie Waguia Carole Mo- nique	Unité de Recherche de Botanique Ap- pliquée, Université de Dschang - Cam- eroun
Effet de la covid-19 dans l'approvisionnement en eau, l'assainissement et l'hygiene dans les formations sanitaires de la region de l'extreme-nord du cameroun	Giequel Corniche Noumbissi Massop	Nkondjock, Hôpital de District - Cameroun
Rapid evolution of insecticide resistance and patterns of pesticides usage in agriculture in the city of Yaoundé, Cameroon	Nadège Sonhafouo-Chiana	Organisation de Coordination pour la lutte Contre les Endémies en Afrique Centrale (OCEAC), Cameroun
In-silico Design and Preliminary Serological Validation of Multiepitope Antigens for Human Monkey-pox Virus Serosurveillance	Teke Efeti Mary	Institut Universitaire de Technologie, Université de Douala - Cameroun
Investigation des foyers historiques de rage canine d'origine animale dans la région du Centre de 2020 à 2022 et analyse comportementale des risques	Alvine Aurelle Amawota-Foud- jin	Programme Zoonoses (PNPLZER) - Cameroun
A One Health Approach for an Epidemiological Study of Potential Zoonotic Emerging Infectious Diseases: Focus on the Centre Region of Cameroon and Akonolinga Health District	Thirion Laurence	Nkondjock, Hôpital de District - Cam- eroun
	Unité Des Virus Émergents (UVE: Aix-Marseille Université - IRD 190 - Inserm 1207), Mar- seille, France	International Federation of Red Cross and Red Crescent Societies, Cameroon
First Outbreak of Human Monkeypox in South-Cameroon, 2022	Ngongla Ngongla Firmin Néhémie	Nkondjock, Hôpital de District - Cam- eroun
Prévenir et répondre aux épidémies d'origines an- imales grâce au programme de préparation des communautés (CP3): cas des épizooties de variole caprine et de peste des petits ruminants dans la région de l'Est Cameroun	Mbonda Noula Aime Gilbert	International Federation of Red Cross and Red Crescent Societies, Cameroon
Evaluation of Human Mpox Surveillance System in Kumba Health Districts, South-West Cameroon, August 2022 to May 2023.	Ndongmo Njukeng Tarcisius	Université d'Abomey-Calavi, Benin
An Investigation of the Escherichia Coli and Total Coliform Occurrences in Rural Drinking Water at Source and Household Point-of-use in the Akonol- inga Health District, Cameroon	Muafor Gregoire Chinda	Faculty of Agriculture and Veterinary Medicine, University of Buea, South West Region, Cameroon
Assessment of the use of biocides in livestock, crops production and animal human health risk exposure in the Northern region of Cameroon	Frédéric Moffo	Université de Ngaoundere, Cameroun
Serological Evidence of Henipa-like Paramyxovirus in Seasonal Synanthropic Fruit Bat Populations in the Centre and North Regions of Cameroon	Cyrille Mbanwi Mbu'u	University of Yaoundé 1 (UY1), Department of Microbiology, Faculty of Science, Cameroon

Impact d'un programme de surveillance commu- nautaire sur l'épidémie de choléra au Cameroun : cas de l'épidémie de choléra en 2019 dans la ré- gion du Nord Cameroun.	Mbonda Noula Aime Gilbert	International Federation of Red Cross and Red Crescent Societies, Cameroon
Hybridization and persistence of infectious disease transmission dynamics at the human-animal interface: The case of Schistosomoses	Félicité Flore Djuikwo-Teukeng	Université des Montagnes, Cameroun
Multidrug-resistant and Extended spectrum -la- catamase producing Klebsiella pneumoniae iso- lated from medical devices, hospital environments and surgical patients in West Cameroon	Therese Espoir Ngo Mbog	Faculty of Medicine and Pharmaceutical Sciences, University of Dschang, Cameroon;
ONE HEALTH »: an opportunity for prevention and control of zoonotic diseases and antimicrobial resistance in Cameroon?	Henri René Zambou	Association Epidémiologie-Santé Pub- lique-Véterinaire (ESPV) - Cameroun
Assessing the Effectiveness of Rabies Control, Prevention, and Response Measures in Central Africa	Tene Kenne Sandrine	Clinique privé Douala -Cameroun
A neglected disease (brucellosis) as a veterinary and public health risk on cattle farms in Nde Division, Cameroon: a prospective study	Marc Kouam	Faculty of Agronomy and Agricultural Sciences, University of Dschang - Cameroon
Investigating microbial infectious agents resistant forms development and impact on population health around domestic waste collection points in Cameroon	Djim-Adjim-Ngana Karyom	Institute of Medical Research and Medicinal Plants Studies, Yaounde,
Prevalence of nasal carriage of meticillin-resistant Staphylococcus aureus among pig farmers in the Cameroon coastal region	Dorine Ekeu Ngatcheu	École doctorale de Douala - Camer- oun
Élevage de porcs à Bangangté : Modèle, Utilisa- tion d'antibiotiques et Impacts sur la Santé Hu- maine, Animale et Environnementale	Nsangou Paul Eric	Université des Montagnes, Cameroon
Case competition avec les organisations de la societe civile	Ikoum Dalida	TRAFFIC - Cameroun
Leveraging data and technology to address health challenges in Cameroon	Denis Nkweteyim	Faculty of Science, University of Buea - Cameroon
Integration of Home Health Care and Artificial Intelligence in the Prevention and Management of Emerging and Reemerging Diseases	Ginyu Innocentia Kwalar	University of Buea - Cameroon
Promotion de l'approche « une seule santé » : analyse du discours médiatique sur la lutte contre la rage à travers les reportages télévisuels sur les chenils en République du Congo	Séraphin Ngoma	Université Marien NGOUABI – Répu- blique du Congo
Intelligence artificielle dans les soins de santé : ange ou démon ?	Aghofack Nguemezi Daniela Beryl	University of Dschang, Faculty of Science, Cameroon
Les complexes locaux de sécurité sanitaire comme instruments de sécurité sanitaire en contexte d'exploitation minière dans le département de la Kadey	Henriette Jessica Ntono Nya- zoa	Université de Yaoundé II - Cameroun
Le volontariat comme élément clé pour prévenir les épidémies et les pandémies : Cas du pro- gramme de préparation des communautés aux épidémies et aux pandémies (CP3) au Cameroun	Mbonda Noula Aime Gilbert	International Federation of Red Cross and Red Crescent Societies, Cameroon
Projet de renforcement de la gouvernance locale dans la lutte contre les maladies tropicales négli- gées, la protection de l'environnement et la pré- servation de la santé animale	Mbenda Behalal Georges	PersPective (PP), Rue 5034, Quartier Titi Garage, derrière la Station d'essence NEPTUNE, B.P. 6842 Yaoundé, Camer- oun
Stratégies de modification des comportements et engagement communautaire à la prévention des pandémies suivant l'approche Une Seule Santé dans les zones à risque au Cameroun	Garaobe Salomon	RAPEAJ Ngaoundere -Cameroun
Le rôle des associations de la société civile locales dans la communication pour l'adoption des com- portements barrières face aux pandémies dans la ville de Ngaoundéré	Kaaga Jonas	RAPEAJ Ngaoundere -Cameroun
Stratégie nationale de communication sur les risques et engagement communautaire selon l'approche une seule sante 2023-2027	Ngo Mpan Berthe Clémence	Programme Zoonoses, cameroun

Assessment of cooking methods and freezing on health risks of heavy metals in four fish species consumed in Douala, Cameroon	Manz Koule Jules Christophe	Université de Douala, Faculté de sci- ences, Cameroun
An Innovative Model for Social and Behavioral Change: Strengthening Community Participation in Global Health Security Challenges and Pre- paredness	Fopet Bill Erickson	School of veterinary medicine and sciences, Ngaounderé, Cameroon
Socioeconomic and Behavioural Factors at-risk to Diarrhoea-Related Diseases in the Nyong River Plateau of Cameroon	Tchachue Yebchue Thierry Rostand	Faculty of Agriculture and Veterinary Medicine, University of Buea, South West Region Cameroon
Perception of COVID-19 and evaluation of anti- Sars-Cov2 vaccine hesitancy in a population of visually impaired people in the western region of Cameroon	Domngang Noche	Université des Montagnes, Cameroun
Détermination du taux de Co-infection malaria – Dengue chez des patients fébriles dans la ville de Bangangte – Cameroun	Domngang noche	Université des Montagnes - Cameroun
Qualité microbiologique des préparations médicamenteuses en solution aqueuse vendues dans les espaces marchands du département de la Vina	Pierre rené fotsing kwetche	Université des Montagnes
	Simeon-pierre chegaing fodouop,	University of Ngaoundéré – Cameroon
Epidemiology of hepatitis E virus, hyperendemicity and the need for a One Health approach	Lisandru capai	Universita di Corsica Pasquale Paoli, France
	Agueba Fofack Ronaldo	Université des Montagnes Bangangté, Cameroun
Pig breeding in Bangangté: model, antibiotic use and likely impact on human, animal and environmental health	Pierre rené fotsing kwetche	Université des Montagnes
Marburg virus disease outbreak preparedness and response in	Clément Ayang Ndouwe	HAC, Cameroun
the south region of Cameroon, February – April 2023	Mfonkou toumansie jacques delors	Délégation Régional de la Santé Pub- lique du Sud, Cameroun
La lutte contre les maladies émergentes et re-émergentes dans la commune d'arrondissement de douala iv : des actions non officielles aux actions officielles	Agofak Clarisse Viviane	Université de yaoundé 1
Epidémiologie prévention et contrôle du Mpox en Afrique de 2000-2023 : revue systématique	Agueba Fofack Ronaldo	Université des Montagnes Bangangté, Cameroun
Effects of water, sanitation and hygiene on the health of refugees in the camp of Minawao, far North Cameroon	Nana Wansi Pélagie Claire	Challenge Initiative Solutions, Yaoundé, Cameroon
Suivi sanitaire et facteurs de risque d'infection et de contamination des animaux sauvages du Jar- din Zoologique de Garoua	Clément Ayang Ndouwe	HAC, Cameroun
Brucellosis Knowledge, Attitudes and Practices among Healthcare and Animal Health Profession- als: Yaoundé and Douala, September 2023, Cam- eroon	Hervé Gaël Nkondje Ndallé	Cameroon Field Epidemiology Training Program, MOH, Cameroun
Parasites of Clarias gariepinus and Oreochromis niloticus in the Lake of Dang, Ngaoundere-Cameroon	Wikondi Jeanne	Université de Ngaoundéré, Cameroun

2023 - YAOUNDE ONE HEALTH FORUM - AGENDA

October 30th - November 1st, 2023 TRAINING OF REGIONAL ACTORS IN THE THE ONE HEALTH APPROACH

November 2nd, 2023,

YAOUNDE ONE HEALTH FORUM			
Time	Activities	Facilitators	
7:00 – 8:30	Arrival and registration of participants	Technical secretariat / Protocol	
8:30 – 10:00	PLENARY SESSION 1: Policy, governance, implementation and sustainability of the One Health approach	Prof. Moctar Mouiche (USAID-IDDS, Cameroon)	
	Hall: Bouma AB	-	
Time	Themes / Speakers	Moderators/Rappor- teurs	
	- How CDC supports the implementation of the One Health	Moderators	
	 approach (Collins Basler, CDC, USA) Approches intégrées de la santé en lien avec la santé publique dans une institution de recherche agronomique (Dr. Ludovic Temple, CIRAD, France) 	Prof. Julius Awah Ndukum (University of Bamenda, Cameroon)	
	- Analyse des dynamiques au sein du réseau d'acteurs en charge de la gouvernance One Health de la lutte contre la RAM au Sénégal (Mr. Moustapha Sow Mouhamadou, University of Gaston Berger, Senegal)	Dr. Henri René Zambou (ESPV/EQUAVET Group, Cameroon)	
	 Barriers to the implementation of one health strategies in developing countries (Dr. Sandra Daniele Yopa, MINSANTE, Cameroon) Demonstration of the added value of the One Health approach: One Health intervention cost-benefit analysis (Elisa- 	Rapporteurs: Dr. Crystella Cha-ah (PNPLZER, Cameroon)	
	beth Dibongué, One Health Platform, Cameroon)	Mrs. Michelle Mvodo (MINCOM, Cameroon)	
10:00 -	Coffee break		
10 :30			
10:30 - 12:00	OPENING CEREMONY	Technical secretariat / Protocol	
	Hall: Bouma AB		
	Arrival of administrative and diplomatic authorities Arrival of the Prime Minister Head of Covernment	Protocol	
	Arrival of the Prime Minister, Head of GovernmentSinging of the National Anthem		
	Welcome address from the Yaoundé City Council Mayor		
	Word from the Chair of the Organizing Committee Singing of the Organizing by the Student Organize		
	 Singing of the One Health Song by the Student One Health University Club 		
	Inaugural lecture: "Decade of implementation of One Health in Sub-Saharan Africa: Achievements, challenges and perspectives toward enhancing preparedness and response against the next health security threats" (Prof. Philemon		
	Wambura, AFROHUN, Tanzania); Senator Monique Ouli Ndongo (Cameroon)		
	Speech by H.E. the Ambassador of the United States of		
	AmericaOpening Speech by the Prime Minister, Head of Government		
	Visit of posters		
	Group photo		
	Interviews		

	PARALLEL SYMPOSIUM 1: Policy, governance, implementation and sustainability of the One Health approach Hall: Bouma AB	Prof. Julius Awah Ndu- kum (University of Bamenda, Cameroon)
	Trail : Bourna AB	Dr. Henri René Zambou (ESPV/EQUAVET Group, Cameroon)
Time	Themes /Speakers	Moderators/ Rapporteurs
12:00 -	Challenges and stakes of Governance and funding for a sus-	Moderators
14 :00	tainable implementation of OH in Africa (Dr. Virgil Kouassi Lokossou, West African Health Organization, Nigeria)	Dr. Serge Nzietchueng (University of Liege,
	Panel de discussion sur les conditions de durabilité de l'implé- mentation de l'approche Une Seule Santé	Belgium) Dr. Donatien Nta-
	- Dr. Conrad Ntoh Nkuo (National One Health Platform, Cameroon)	karutimana (USAID, Cameroon)
	 Senator Monique Ouli Ndongo (Cameroon) Dr. Virgil Kuassi Lokossou (West African Health Organization, 	Rapporteurs:
	Nigeria) - Dr. Timothy Wesonga (GOPA Health and Social Develop-	Dr. Crystella Cha-ah (PNPLZER, Cameroon)
	ment, Kenya)	Mrs. Michelle Mvodo
	- Dr. Alimi Yewande (Africa CDC, Ethiopia) - Dr. Severin Loul (ECCAS, Gabon)	(MINCOM, Cameroon)
	- Dr. Lassina Ouattara (FAO – ECTAD, Cameroon) - Dr. Traore Tieble (WHO AFRO, Senegal)	
	- Pr. Nadege Ngomba Kabamba (National One Health Plat- form, DRC)	
15h 30 -18h30	PARRALLEL SYMPOSIUM 2: Integrated / multi-sectoral disease surveillance and detection	Dr. Chanceline Bilounga Ndongo (DLMEP, MIN-
	Hall: Bouma C	SANTE) Dr. Jean-Marc Feussom (DSV, MINEPIA)
Time	Themes / Speakers	Moderators/ Rapporteurs
	Situational analysis of Integrated Disease Surveillance and Response (IDSR) in Cameroon (Dr. Linda Esso / Dr. Chanceline Bi-	Moderators
12 :00 – 14 :00	lounga Ndongo, MINSANTE, Cameroon)	Dr. Georges Etoundi Mballa G.A (MINSANTE,
	Panel discussion on novel approaches to improve community-based surveillance for early detection	Cameroun) Dr. Els Mathieu (CDC,
	- Dr. Jean-Marc Feussom (MINEPIA, Cameroon) - Dr. Linda Esso (DLMEP-MINSANTE, Cameroon)	Cameroon)
	- Dr. Eric Mboke (PEV-MINSANTE, Cameroon) - Dr. Céline Mairousgou (CERPLE Far-North, Cameroon)	Rapporteurs
	- Dr. Protais Etene (DREPIA-EAST, Cameroon) - Mr. Jules Ndomo Tsala (MINEPDED, Cameroon)	Dr. Nestor Atangana
	- Mrs. Marcelline Ekom (MINFOF, Cameroon) - Dr. Aimé Mbonda (Croix Rouge, Cameroon)	Onana (MINSANTE, Cameroon)
	- Dr. Hadisson Eposi (CDS Sa'a, Cameroon) - Dr Casimir Ndongo (Expert Animal Health, Cameroon)	Dr. Clémentine Ngoudzo, (MINSANTE, Cameroun)
		Dr. Alvine Amawota (PNPLZER, Cameroun)
	PARALLEL SYMPOSIUM 3: Capacity building and One Health research priorities	Dr. Denis Zofou (University of Buea)
	Hall : Bouma D	Dr. Priscilla Amvel- la Anya (USAID-IDDS, Cameroon)

Time	Themes /Speakers	Moderators/ Rapporteurs
12:00 - 14:00	 Enquête sur les stratégies d'intégration du One Health dans certains établissements universitaires du Cameroon (Prof. Jean-Baptiste Ngodo Melingui, University of Yaoundé I, Cameroon) Application du OH en formation et recherche universitaire: Expérience de l'École Internationale de terrain « One Health Water Africa-OHWA » (Dr. Alessandra Fachi, University of Corse, France) Integration of One Health into the Field Epidemiology Training Program (FETP) (Dr. Marta Guerra, CDC-Atlanta, USA) Building capacity in biosafety and biosecurity in Cameroon through training: updates on AFROHUN's contribution (Prof. Pascal Manfo Tsague, University of Buea, Cameroon) Concept One Health: nécessité de renforcer les capacités du personnel dans les aires protégées (Dr. Samuel Christian Tsakem, Wildlife School, Garoua, Cameroon) Panel discussion on One Health capacity building Dr. Gaelle Nathalie Tinak (MINEPIA, Cameroon) Prof. Eddie Gregory Halle-Ekane (University of Buea, Cameroon) Prof. Eddie Gregory Halle-Ekane (University of Yaounde I, Cameroon) Prof. Francesca Monebenimp (University of Yaounde I, Cameroon) Dr. Marc-Cyrille Eloundou (WHO, Cameroon) Col. Peter Mbonji (ISPMM, Cameroon) Prof. Albert Kamanyi (University of Dschang, Cameroon) 	Moderators Prof. Clautilde Teugwa Mofor (University of Dschang, Cameroon) Prof. Arouna Njayou Ngapagna (AFROHUN, Cameroon) Rapporteurs: Mrs. Fride Jouegouo, (PNPLZER, Cameroon) Dr. Gaelle Mongkuo, (USAID-IDDS, Cameroon)
Time	SIDE EVENTS Hall: Bete ABC	
12 :00 - 14 :00	Building Civil Society Organizations (CSOs) as actors of community engagement One Health Platform, Cameroon One Health Network of Civil Society Organizations of Cameroon (ROOHCAM) Breakthrough ACTION, Cameroon	
14:00 - 15:00	Lunch break	
15:00 - 15:30 -	Poster presentations	
15 :30 -18 :30	PARALLEL SYMPOSIUM 1: Policy, governance, implementation and sustainability of the One Health approach Hall: Bouma AB	Prof. Julius Awah Ndu- kum (University of Bamenda, Cameroon) Dr. Henri René Zambou (ESPV/EQUAVET Group, Cameroon)

Themes /Speakers	Moderators/ Rapporteurs
Group Work session	Facilitator
 One Health strategy, strategic plans, and Drivers Communication and advocacy Budgeting and funding One Health activities 	Prof. Julius Awah Ndu- kum (University of Bamenda, Cameroon)
Presentation results of group discussion	Dr. Henri René Zambou (ESPV/EQUAVET Group, Cameroon)
	Rapporteurs :
	Dr. Crystella Cha-ah (PNPLZER, Cameroon)
	Mrs. Michelle Mvodo, (MINCOM, Cameroon)
PARALLEL SYMPOSIUM 2: Integrated / Multi-sectoral Disease Surveillance and Detection Hall: Rouma C	Dr. Chanceline Bilounga Ndongo (MINSANTE, Cameroon)
Hair. Bourna C	Dr. Jean-Marc Feussom (MINEPIA, Cameroon)
Themes/Speakers	Moderators/Rapporteurs
 «Révolution de la Surveillance Epidémiologique au Cameroon: La Plateforme «Nyss» pour une Détection Précoce et une Notification à Coût Réduit. Phase pilote ans la Région du Nord Cameroun (Dr. Aimé Gilbert Mbonda Noula, Croix Rouge Cameroon) Community based surveillance using the one health approach: experiences from the pilot phase in the Sa'a health district of Cameroon (Dr. Haddison Eposi, Sa'a Health District, Cameroon) Amélioration de la performance du système de surveillance des maladies et risques en santé dans un contexte de ressources limitées en utilisant l'approche « One Health », district du Moyen Mono (Togo), 2021-2023 (Dr. Akara Essona Matatom, Ministère de la santé, Togo) Cartographie des zoonoses prioritaires dans le Complexe BSB Yamoussa au Nord Cameroon (Dr. Serge Alexis Kamgang, Ecole de la Faune de Garoua, Cameroon) Assessment of cross transmission Ascaris species in human and pigs and its implications for ascariasis control in Cameroon (Prof. Gustave Simo, University of Dschang, Cameroon) 	Pr Justin Ayayi Akakpo, (EISMV Dakar, Senegal) Prof. Jules Owona Manga (Université of Douala, Cameroon) Rapporteurs Dr. Nestor Atangana Onana, (MINSANTE, Cameroon) Dr. Clémentine Ngoudzo, (MINSANTE, Cameroon) Dr. Alvine Amawota
	Group Work session One Health strategy, strategic plans, and Drivers Communication and advocacy Budgeting and funding One Health activities Coordination and Governance Presentation results of group discussion Resolutions and recommendations PARALLEL SYMPOSIUM 2: Integrated / Multi-sectoral Disease Surveillance and Detection Hall: Bouma C Themes/Speakers «Révolution de la Surveillance Épidémiologique au Cameroon: La Plateforme «Nyss» pour une Détection Précoce et une Notification à Coût Réduit. Phase pilote ans la Région du Nord Cameroon (Dr. Aimé Gilbert Mbonda Noula, Croix Rouge Cameroon) Community based surveillance using the one health approach: experiences from the pilot phase in the Sa'a health district of Cameroon (Dr. Haddison Eposi, Sa'a Health District, Cameroon) Amélioration de la performance du système de surveillance des maladies et risques en santé dans un contexte de ressources limitées en utilisant l'approche « One Health », district du Moyen Mono (Togo), 2021-2023 (Dr. Akara Essona Matatom, Ministère de la santé, Togo) Cartographie des zoonoses prioritaires dans le Complexe BSB Yamoussa au Nord Cameroon (Dr. Serge Alexis Kamgang, Ecole de la Faune de Garoua, Cameroon) Assessment of cross transmission Ascaris species in human and pigs and its implications for ascariasis control in Cameron

	Panel discussion on integrated sample transportation system	Moderators:
	Case study on the issues of specimen transport: epidemic prone disease in the context of "One Health" (Dr. Blaise Akenji, LNSP; Mr. Thaddée ONANA, CCOUSP, Cameroon)	Dr Rina E Djubgang (DPML-MINSANTE, Cameroon)
	Panelists: - Dr. Jean-Marc Feussom (DSV-MINEPIA, Cameroon) - Dr. Abel Wade, (LANAVET, Cameroun) - Dr. Shalom Ndoulla/Dr. Mboke Eric (PEV-MINSANTE, Cameroon)	Prof. Marie-Claire Oko- mo (LNSP/MINSANTE, Cameroon)
	- Dr. Linda Esso (DLMEP-MINSANTE, Cameroon)	Rapporteurs
	 Dr. Sarah Eyango (CPC, Cameroon) Prof. Moctar Mouiche (USAID-IDDS, Cameroon) Dr. Marlyse Dontsop, (OMS, Cameroon) Representative Touristique Cameroon 	Dr. Nestor Atangana Onana, (MINSANTE, Cameroon)
	 Representative Poste Cameroon Representative Solex Cameroon Conclusion and main recommendations	Dr. Clémentine Ngoudzo, (MINSANTE, Cameroon)
	Conclusion and main recommendations	Dr. Alvine Amawota (PNPLZER, Cameroon)
15 :30 -18 :30	PARALLEL SYMPOSIUM 3: Capacity building and One Health research priorities Hall: Bouma D	Dr. Denis Zofou (University of Buea, Cameroon)
	ndii . Bodilid D	Dr. Priscilla Amvella Anya (USAID-IDDS, Cameroon)
Time	Themes/Speakers	Moderators/Rappor- teurs
	Group work on OH capacity building	
	 Integrating OH skills into training curricula in Cameroon: achievements, challenges and prospects Strategies for improving harmonized and integrated capacity-building systems for healthcare professionals: Needs, Challenges and Perspectives 	Dr. Priscilla Amvella
	Synthesis, Conclusions and Recommendations I, on strength- ening One Health's pre-employment and continuing training capacities	Anya (USAID-IDDS, Cameroon)

Panel discussion II on priority areas for One Health research in Cameroon and collaborative efforts to advance research.

Conceptual Framework for Institutional Convergence on One-Health Research in Congo Basin Countries (**Prof. Ernest L. Molua, University of Bamenda, Cameroon**)

Panelists:

- Prof. Richard Njouom (CPC, Cameroon)
- Prof. Veronique Penlap (University of Yaounde I, Cameroon)
- Prof. Wilfred F. Mbacham, (University of Yaounde I, Cameroon)
- Prof. Jean-Pierre Mvondo-Awono (University of Buea, Cameroon)
- Col. Julius Nwobegahay (CRESAR, Cameroon)
- Dr. Nkengazong Lucia (IMPM/MINRESI, Cameroon)
- Dr. Serge Alexis Kamgang (Wildlife School Garoua, Cameroon)
- Dr. Ahidjo Ayouba (CREMER, Cameroon)
- Dr. Laurence Thirion (IRD, France)
- Dr. Arouna Njayou Ngapagna (**AFROHUN, Cameroon**)

Group work on the implementation of the integrated approach to biomedical research and health: Effectiveness, Challenges and Priorities

- One Health Research priorities to address health security threats.
- Major challenges
- Perspectives

Conclusions and recommendations on OH research priorities

Time SIDE EVENTS Salle: Bete ABC 15:30 -18:30 Community awareness and education on zoonotic disease prevention and response, food safety and antimicrobial resistance. One Health Network of Civil Society Organizations of Cameroon (ROOHCAM) End of the day

Moderators:

Prof. Jean Louis
Essame Oyono (IMPM/
MINRESI, Cameroon)

Prof. Omer Njajou (**DAI, Cameroon**)

Rapporteurs:

Mrs. Fride Jouegouo (PNPLZER, Cameroon)

Dr. Gaelle Mongkuo (USAID-IDDS, Cameroon)

	November 3 rd , 2023, ONE HEALTH FORUM		
7 :30 <i>-</i> 9 :30	PLENARY SESSION 2: Use of Artificial Intelligence in One Health monitoring Hall: Bouma AB	Prof. Georges Nguefack-Tsague (University of Yaounde I, Cameroon)	
		Dr. Sandra Yopa (MINSANTE, Cameroon)	
Time	Themes/Speakers	Moderators/ Rapporteurs	
	 Development of OH Surveillance Toolkit for Global Use with DHIS2 (Dr. Stephen Williams, CDC, USA) Défis de l'application de l'IA dans l'approche «Une Seule Sante», (Prof. Roger Nkambou, UQAM, Canada) A gender-transformative, Al-enhanced, Community-oriented Early Warning, Alert and Response System for disease outbreaks (Prof. Jude Kong, York University, Canada) Vulgarisation de l'outil de Surveillance à Base Communautaire: rôle pour l'approche «Une Seule Sante» (Dr. Elise Ikoula, MINSANTE, Cameroon) One Health et outil digital (Mr. Bedes Ngem, Georgetown, Cameroon) Approche multisectorielle pour la gestion des rumeurs, (Dr. Thierry Belinga, PNPLZER, Cameroon) Apport d'EIOS dans l'approche «Une Seule Sante» (Dr. Moustapha Chandini, WHO, Cameroon) 	Moderators Dr. Georges Marc Mveng (MINEPIA, Cameroon) Dr. Marc- Cyrille Eloundou (OMS, Cameroon) Rapporteurs Mrs. Manuella Efemba (MINSANTE, Cameroon) Mr. Aurelien Fotso (PNPLZER, Cameroon) Dr. Hilary Lonla (University of Yaoundé I, Cameroon)	
9:30 -	Poster Presentations		
10h00			
10 :00 -	Coffee break		
10 :30			
10 :30 - 14 :30	PARALLEL SYMPOSIUM 4: Social and behavioral change for effective community participation Hall: Bouma AB	Mrs. Manuela Ngo Bakale (Breakthrough ACTION, Cameroon) Prof. Hilaire Micaire Womeni (University of Dschang, Cameroon)	

Time	Themes/Speakers	Moderators/ Rapporteurs
	 Exploring the social, cultural and individual determinants of risk behavior in relation to priority zoonoses in Cameroon (Dr. Crystella Cha-ah Ngong, PNPLZER, Cameroon) Using the One Health approach to educate the public about health risks associated with bushmeat (Mr. Jerry Aylmer, Limbe Wildlife Center, Cameroon) Défis de la Communication sur les risques et engagement communautaire dans les situations d'urgence au Cameroun (Dr. Bertrand Bitomol, University of Douala, Cameroon) Exploring zoonotic diseases Risk Behaviours and Mitigation Practices Among Wildmeat Food Chain Actors around the Dja Reserve and Boumba Bek National Park, Southern Cameroon (Dr. Joseph Mbane, CIFOR, Cameroon) Health education intervention to improve community's knowledge, attitudes and practices of snakebite first-aid methods in the Touboro Health District of Cameroon from June 2022 to February 2023 (Mr. Elvis Nekehforba, MIN-SANTE, Cameroon) 	Moderators Prof. Hilaire Macaire Womeni, (University of Dschang, Cameroon) Dr. Yannick kamga (WHO, Cameroon) Rapporteurs Mrs. Monique Assiene (CCOUSP, Cameroon) Mrs. Raissa Azekeng (PNPLZER, Cameroon)
	Panel discussion: Design for local sustainability challenges and solutions - Mr. Merime Tchakoute (GICAM, Cameroon) - Mr. Yvonne Guemeni (MINSANTE, Cameroon) - Mrs. Stéphanie Teguia (Croix Rouge, Cameroon) - Mrs. Zogo Suzanne (MINCOM, Cameroon) - Mr. Kouebou Christiant (PADFA II MINADER, Cameroon) - Dr. Stephen Wazeh Atanga (GHS Expert-USAID, Cameroon) - Dr. Edouard Nya (MINADER, Cameroon) - Mr. Mboutwouo Yacouba (Observatoire National des Risques pour le Sud, Cameroon) - Dr. Stephane Aristide Abah Abah (MINSANTE, Cameroon) - Mr. Etsil Simon (Governor Office, Centre Region, Cameroon)	Moderators Prof. Jeannette Wogaing Fotso (University of Douala, Cameroon) Mr. Patrick Mbia (Breakthrough ACTION, Cameroon) Rapporteurs Mrs. Monique Assiene (CCOUSP, Cameroon) Mrs. Raissa Azekeng (PNPLZER, Cameroon)
	Skills shots/Resilience building, systemic design: a key tool for behaviour change Working session: The contribution of systemic design and transdisciplinary approaches to One Health Mr. Yannick Nkoumou (Expert SBC, Cameroon) Recommendations and conclusion	Moderators Prof. Jeannette Wogaing Fotso (University of Douala, Cameroon) Mrs. Elizabeth Serlemitsos (CCP-Université Johns-Hopkins, USA)
10 :30 14 :30	PARALLEL SYMPOSIUM 5: Environmental resilience and biodiversity conservation Hall: Bouma C	Dr. Flaubert Auguste Mba Djondzo (CREMER) Mrs. Marceline Ekom (MINFOF)

Time	Themes/Speakers	Moderators/ Rapporteurs
	 Impact of environmental sanitation on the development of diseases infectious agents and human health stress around domestic waste collection points in Cameroon (Dr. Lucia Nkengazong, University of Yaounde I, Cameroon) A decade of non-invasive monitoring of the health of western lowland gorillas under habituation in the Campo Ma'an National Park, Cameroon (Dr. Michael Kuwong Viyof, WWF, Cameroon) Bushmeat trade features and potential risks associated in Mbam-et-Inoubou zone of Cameroon (Prof. Felix Meutchieye, University of Dschang, Cameroon Assessment and modeling of slaughterhouses waste sustainable management in West African cities: cases of main cities of Benin, Niger and Burkina Faso (Dr. Marthe Montcho, National University of Agriculture, Benin) 	Moderators: Prof. Sefirin Djiogue (University of Yaoundé 1, Cameroon) Mrs. Fomo Geneviève (MINFOF, Cameroon) Rapporteurs Dr. Wilfred Sonna (PNPLZER, Cameroon) Mr. Ulrich Deutou (MINEPDED, Cameroon)
	Panel discussion on biodiversity conservation and health risks: Implementing the wildlife emerging disease surveillance network: what vision for our protected areas? - Dr. Gaelle Nathalie Tinak (MINEPIA, Cameroon) - Mr. Denis Mahonghol (Traffic, Cameroon) - Dr. Roger Fotso (Wildlife Conservation Society, Camero	Moderators Mr. Joseph Lekealem (MINFOF, Cameroon) Prof. Felix Meutchieye (University of Dschang, Cameroon)
	 oon) M. Norbert Sonne (African Wildlife Foundation), Cameroon) Mr. Bernard Fosso (Wildlife Conservation Society, Cameroon) Mrs. Therese Eloundou (MINEPDED, Cameroon) Prof. Télesphore Sime NGANDO (IRD, Cameroon) Dr. Denis Depommier (CIRAD, Cameroon) Dr. Hans Klein, (GIZ, Cameroon) Dr. Samuel Christian Tsakem (Wildlife School Garoua, Cameroon) 	Rapporteurs Dr. Sonna Wilfred (PNPLZER, Cameroon) Mr. Ulrich Deutou (MINEPDED, Cameroon)
	Panel discussion on the constraints to the institutionalization and operationalization of the environmental component of the "One Health" approach in Cameroon - Mr. Mboh Yacinthe (MINEPDED, Cameroon) - Prof. Joseph Armathée Amougou (ONACC, Cameroon) - Dr. Ramses Meyong (ONACC, Cameroun) - Dr. Nkengazong Lucia (University of Yaoundé I, Cameroon) - Prof. Marc Kouam (University of Dschang, Cameroon) - Prof. Pascal Faustin Manfo Tsague (University of Buea, Cameroon) - Prof. Simon Pierre Chegaing Fodouop (University of Ngaoundere, Cameroon) - Prof. Pascal Djamen Chuisseu (Université des Montagnes, Cameroon)	Moderators Mr. Saidou Adama (MINEPDED, Cameroon) Prof. Telesphore Nguelefack University of Dschang, Cameroon) Rapporteurs Dr. Wilfred Sonna (PNPLZER, Cameroon) Mr. Ulrich Deutou
	Discussion of prospects and recommendations	(MINEPDED, Cameroon)
10 :30 - 14 :30	PARALLEL SYMPOSIUM 6: One Health data for evidence-based health management and innovation Salle: Bouma D	Prof. Georges Nguefack-Tsague (University of Yaounde 1),
		Dr. Sandra Yopa (DLMEP/ MINSANTE)

	Themes /Speakers	Moderators/ Rapporteurs
	 Artificial Intelligence and One Health to Control the Epidemic of Emerging and Re-emerging Diseases (Prof. Nsagha Dickson Shey, University of Buea, Cameroon) Gouvernance des données selon l'approche «Une Seule Sante» (Dr. Christelle Dongmo, MINSANTE, Cameroon) Essai d'une plateforme de gestion du système d'information sanitaire dans une approche «Une Seule Sante": Cas du DHIS 2- Pratique (Mr. Yvan Deffo, Global Fund, Cameroon) Leçons apprises avec l'outil WHONET (Dr. Dorine Tseuko, MINSANTE, Cameroon) 	Moderators Dr. Maurice Fezeu (MINSANTE, Cameroon) Dr. Bakkali Taoufik (ONUSIDA, Cameroon)
	Group discussion Considerations, prerequisites and framework, useful for setting up a "One Health" electronic platform (Dr. Elise Ikoula (CIS/MINSANTE, Cameroun) Brainstorming and choice of a pilot tool for "One Health" data management (Dr. Christelle Dongmo, MINSANTE, Cameroun) Roles, responsibilities, architecture and notification circuit in multi-sector data management (Dr. Jean-Marc Feussom, MINEPIA, Cameroun) Recommandations, summary and consolidation	Rapporteurs Mrs. Manuella Efemba, (DLMEP-MINSANTE) Mr. Aurelien Fotso (PNPLZER, Cameroon) Dr. Hilary Lonla (University of Yaoundé I)
10 :30 -	SIDE EVENTS	
14 :30	Hall: Bete ABC	
10 :30 - 12:30	Prise en charge de la prophylaxie Post-exposition au virus rabique des populations et amélioration de la surveillance pour un Cameroun sans rage.	
	Centre Pasteur, Cameroun	
12:30 - 14 :30	Un quart de siècle de recherches à l'interface faune sauvage-Homme-environnement par le Centre de Recherche sur les Maladies Emergentes et Reémergentes:	
14 :30 -	Centre de Recherche sur les Maladies Émergentes et Reémergentes, Cameroon Lunch	
15 :30		
15 :30 - 16 :00	Poster presentations	
16 :00 <i>-</i> 17 :00	PLENARY SESSION 3: Summary, resolutions and recommendations from the symposia	Dr. Linda ESSO (MINSANTE, Cameroon)
17 .00	Hall: Bouma AB	Prof. Moctar Mouiche (IDDS, Cameroon)
17 :00 -	CLOSING CEREMONY	Technical secretariat /
18 :00	Hall : Bouma AB	Protocol
	 Summary of the main points and lessons learned from the forum Announcement of next steps and actions to be taken Awards ceremony for the best posters and oral communications Presentation of the One Health Champions Awards Signing of the One Health Song by the Student University One Health Club Closing Remarks Chorus of the national anthem 	
18 :00	Cocktail	
	November 4 th , 2023 COMMEMORATIVE SPORTS WALK OF THE WORLD ONE HEALTH DAY	

On behalf of the Cameroon One Health Platform, we extend our heart-felt gratitude to all those who contributed in any way to the resounding success of the Yaoundé One Health Forum (YOHF), be they the dynamic organising team, all the stakeholders of the One Health Platform, the Technical and Financial Partners or the distinguished participants.

We are infinitely grateful for your devotion, collaboration and relentless pursuit of excellence, which are at the heart of our success. Your commitment and dedication to improving public health through the One Health initiative has been nothing short of inspiring. A Platform is only as strong as its members, and you are its pillar. The guidance and expertise you bring to our mission have proved beneficial. Your contributions and devotion to the cause have always been essential to our mission, shaping policy and fostering an environment where the One Health approach can flourish in Cameroon.

Regarding the organisation of the iconic YOHF, our infinite gratitude goes to the exceptional team and individuals who through meticulous planning, skilful coordination and flawless execution provided the perfect backbone for a productive and stimulating forum that will be remembered for its positive outcomes.

What's more, the participants in this ground-breaking event deserve a special mention. Everyone made a commitment to attend, to share their perspectives and to participate in critical discussions that are central to our goal of achieving optimal health outcomes for humans, animals, plants and our shared environment. This enthusiasm and intellectual curiosity were the sparks that enriched the different sessions of this 1st edition of the YOHF.

And, to the Technical and Financial Partners, we cannot emphasize enough the significance of the multi-faceted support we received to ensure the success of this event. The expertise provided has been a beacon of knowledge, enlightening our path towards practical and effective solutions. Similarly, the financial contributions have been the foundations of our undertakings. Without your generous support, the forum's ambitions would have remained unattainable.

Together, we have made the Yaoundé One Health Forum not just a meeting of minds, but a gathering of shared aspirations and an unwavering resolve to safeguard health for all. We look forward to continuing to nurture the partnerships and collaborations that have been strengthened or forged during this time. Thank you, once again, to everyone for making YOHF not only possible, but powerful. We are motivated more than ever to continue our work with renewed vigor, and to see the fruits of our labour blossom in the days ahead.

With heartfelt gratitude,



Dr. Conrad NTOH NKUOPermanent Secretary Cameroon One

Health Platform













































