TVA Newsletter

Issue 1. March 2020

ZOETIS AND THE BILL & MELINDA GATES FOUNDATION SUPPORTING THE ADVANCEMENT OF LIVESTOCK PRODUCTION IN TANZANIA THROUGH THE A.L.P.H.A. INITIATIVE

Zoetis is proud to support animal health in Tanzania through our partnership with the Tanzania Veterinary Association (TVA), and other associates, in conjunction with the African Livestock Productivity and Health Advancement (A.L.P.H.A.) initiative, which is supported by the Bill & Melinda Gates Foundation (BMGF).

The A.L.P.H.A. initiative aims to advance livestock health and productivity in Sub-Saharan Africa by increasing the availability of quality veterinary medicines and services, improving distribution, and implementing a livestock diagnostics infrastructure. The initiative also provides intensive training sessions to local veterinarians and farmers to expand and improve animal health knowledge. It was initially launched in Uganda and Nigeria in 2017, followed by Ethiopia in 2018, then Tanzania in 2019.

Sustainability is central to our grant activities, and as such, we see the funding from the BMGF as a 'booster' to elevate our previous activities in Tanzania with all our partners. It will allow us to support partners in building training modules, services, the diagnostics network, and a product portfolio that will succeed in years to come with or without requiring further grant funding.

The A.L.P.H.A. initiative has already

been active in Tanzania, including:

- Supplying key vaccines, medical products and diagnostics (Dx) kits through our new distributor, located in Dar Es Salaam
- Setting up partnerships with private and public organisations. There is currently one lab which is fully operational in Nasimz Veterinary care in Mwanza. Four labs are being set up and will open their doors to local communities (Arusha, Iringa, Dar Es Salaam, Morogoro regions) in Q2 2020.
- Facilitating several training courses:
 - o Poultry Health for vets Kilacha training centre, December 2019
 - o Poultry Health & Dx Iringa, December 2019
 - o Sampling and monitoring in poultry health – Iringa, 2019-2020
- Making the LabCards application available in February 2020, which allows veterinarians to easily collect veterinary sample data and send it to the local diagnostic laboratories through their mobile phones.

A pooled vaccination project is also being launched in the Dar Es Salaam region to support local veterinarians and poultry farmers with training/ education, support in vaccination and potentially collecting samples in future.

As the leading global animal health company, we believe that we have the capability to rise to the challenges in Tanzania, through investment into specific activities to support the veterinary and farming community, delivered in close collaboration with local partners.

We are proud to partner with the TVA to enable the launch of this inaugural newsletter, and we will support the TVA to increase the impact of future editions, as part of a wider collaboration to advance the veterinary sector. We will share regular progress updates about the A.L.P.H.A. initiative in Tanzania and other countries from the region in future issues.

I'd also like to introduce the A.L.P.H.A. initiative team in Tanzania: Bryan Kelly, Commercial Lead; Mwajuma Kudema, Diagnostics Manager; Riziki Ngogo, Field Vet Poultry; Nathan Edward, Field Vet Ruminant; and Magembe Ugassa, Senior Regulatory Affairs Associate.

If you would like to find out more about the A.L.P.H.A. initiative in Tanzania, please visit our website at: https://www. zoetis.co.tz/ or contact our team.

Yours sincerely,

Dr. Gabriel Varga

Regional Director Sub Saharan Africa



A publication of the Tanzania Veterinary Association





and deepening collaboration and cooperation, (II) formu of the National One Health Resource Mobilisation Strate; and a Monitoring and Evaluation framework, (iii) prioritis
Management Department of the Office of the Prime Min Through this framework, OH operations are now embedd in the operational framework of the National Disaster Management Act of 2015. Other achievements relate to (i) development of an inter sectoral Memorandum of Understanding needed in guid and deepening collaboration and cooperation, (ii) formu
Inerearter, stakenoiders in lanzania, through the suppor WHO, FAO and USAID and others, developed the Nation One Health Strategic Plan of 2010-2020, which was later on reviewed and made more responsive to the needs of country including risks related to AMR and plant health. revised Strategic Plan was launched by His Excellency, the Prime Minister of Tanzania, Kassim Majaliwa, MP in Febru 2018. Stakeholders also agreed to change the One Healt Coordination Unit into a more functional entity. The One Coordination Desk (OHCD) now operates through the Di
The first National One Health Strategic Plan mainly focus zoonoses. This was despite the then demonstrable gove commitment to the Global Health Security Agenda (GHS of 2012 and International Health Regulations (IHR) of 20 However, upon realisation of the expanded scope of risk implied within the operational framework of GHSA and I revised strategic plan was finally reconfigured and expar to include a wide spectrum of public health risks, includi anti-microbial resistance (AMR) and risks attributed to c agriculture.
Initially, the major focus of most OH consortia was to pro- collaboration and cooperation between animal, human a environmental health systems. The majority worked clos with the Ministry of Health, Community Development, Ge Elderly and Children, the Ministry of Livestock and Fishe Ministry of Natural Resources and Tourism and Vice Pres Office-Environment.
that have provided additional impetus to the agenda are NET, SAGWESA, and Biomed. All the alliances have one thing in common, the aim to influence policy, practice change and a desire to create a critical mass of researchers to overcome the lack of man available to carry out innovative disease surveillance.
development of OH approaches in human, domestic anir

From the Chairman's desk **ONE HEALTH ON THE MOVE IN TANZANIA**

Role of veterinarians and other animal health experts

One Health (OH) approaches are of utmost importance in dealing with public health threats with multiple sources. The ۵ ortia cerinary es and iсh õ ania imal, e CYST-The

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> Groups being critical organs as well as Platforms, with Technical Working capacity building training sessions strategies, (v) carrying out series of national anthrax and brucellosis contro priority threat, (iv) formulation of to bring aboard AMR as an additional of six zoonotic diseases and agreeing Virus Disease. capacities pertaining to RVF and Ebola (vii) testing of national preparedness organogram of the National One Health (vi) development of a responsive

Health Regulations of 2015 as per the exercise in line with the International a Joint External Evaluation (JEE) Tanzania's commitment remains Security Agenda of 2012 for which requirements of the Global Health Tanzania has also already conducted

> embarked on JEE exercise soon after among the first few countries that they were conceived. undisputable. In fact, Tanzania was

Working together

operations within and between systems compartmentalisation of their need to work towards dismantling delivery and research systems therefore Experts working in health service practices of health professionals. sectoral collaboration and cooperation effectiveness and efficiency of intercertainly shows that the envisaged information for mutual benefits. This specimens and data/all forms of use of expertise, laboratory resources, and mitigation while promoting shared underpinned by the different sectors squarely depend on operational working together in risk surveillance The collaborative approach for OH is

change in health systems given the take leadership in instilling practice animal health staff are duty bound to Veterinary professionals and other

and institutions.

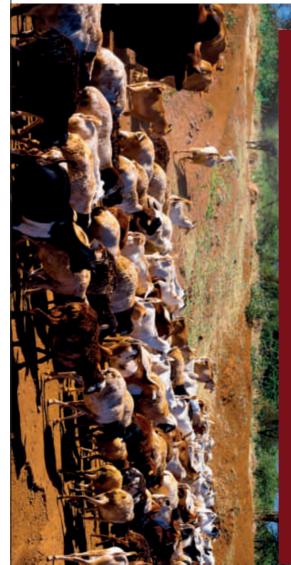
and animals. pesticides. Anti-microbial resistance from uncontrolled and excessive use animal husbandry practices, notably countries, are also threatened by farmers in Africa, and other developing in humans, such as the current Covid-19 and wildlife have served as main emanate from animals. Indeed, livestock uncontrolled use of drugs in humans risk emanating from excessive and (AMR) is another global public health risks emanating from poor crop and pandemic. In addition, resource poor sources of several infectious diseases fact that 60-80% of public health risks

with multiple sources. in dealing with public health risk events duplication and uncoordinated efforts national economy cannot accommodate spirit of the concept of controlling protect social wellbeing and resources. experts in allied health systems to to bolster working relationships with Veterinarians are therefore expected further justified given that our growing health risks at source. This call is This also means working within the

TVA TEAMS UP WITH OHCD TO ORGANISE FIRST ONE HEALTH CONFERENCE

The TVA and OHCD jointly staged the first One Health conference on the 27th to 29th November 2019 in Arusha. The three-day conference aimed to garner increased political support, enhance sectoral standing

and accountability, and bolster animal health experts' participation in collaborative undertakings when dealing with public health risks with multiple sources. The OHCD plans to organise similar conferences every two years



Dr Esther G. Kimaro VESTIGATING THE EXPERIENCES OF PASTORA MMUNITIES IN NORTHERN TANZANIA IMATE CHANGE AND CATTLE VECTOR-BORNE DISEASES:

climate and climate change. trypanosomiasis (AAT) – along with borne diseases of cattle – East Coast epidemiology of two major vectorand observations regarding the indigenous knowledge, experiences northern Tanzania, to better understand pastoralists of Monduli District, methods were used with Maasai participatory epidemiological (PE) such diseases in livestock. Therefore little is known about the impact of diseases (VBDs) in humans, however, increase incidence of vector-borne Climate change is predicted to ever (ECF) and African animal

villages of Monduli. Using ranking groups in ten randomly selected We collected data in gender segregated

> practices. ecological situations and management the diseases. This could be related to highlights the need to strengthen pastoral communities and the research cause major health problems in cattle in diseases studied. Cattle VBDs still prioritized amongst the top five cattle PE technique, ECF and AAT were in the incidence and/or severity of villages, possibly reflecting variation scores for the two VBDs varied across regular surveillance. The ranking management practices including

and professional veterinary knowledge the diseases of interest. We also on clinical signs and vectors for A standardised matrix scoring tool was used to triangulate indigenous

> between specific cattle diseases, clinical understanding of the association our knowledge of participants signs and disease vectors. used matrix scoring to improve

Clinical symptoms

clinical signs with cattle diseases. clinical symptom. Findings indicate that in veterinary textbooks, it is a known is in veterinary literature. AAT was ECF was swollen lymph nodes, as i primary clinical sign associated with clinical signs with ECF and AAT. The of agreement when associating specific Both gender groups had a strong level women were able to associate specific hair. While this is not commonly noted primarily associated with loss of tail Therefore, they can be good sources of

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PE activities with men group-Esilalei Village, Monduli District

Inventioods ilvestock productivity and household the inclusion of women to improve livestock projects and research promote production. It is essential that future to cattle health management and and management, and contribute information regarding cattle diseases

and experiences of seasonal patterns of ECF and AAT occurrence and the area for endemic stability of ECF in the study Africa. This could indicate the potential ECF, throughout the year has been appendiculatus, a competent tick for study. The presence of Rhipicephalus with findings from another part of our season and cool dry season; consistent more cases occurred in the long rainy pastoralists indicated that relatively Although ECF was reported to be present throughout the year, abundance of competent vectors reported elsewhere in tropical eastern

in cattle management activities. abundance between gender groups may reflect their different involvement inconsistent observations for tick and development of the ticks. The practices which could favour surviva ecological factors and management agreement across study villages in I here were generally low levels of I his may relate to variations in terms of peak tick abundance timing

The unpronounced seasonality characteristics of R. appendiculatus poor agreement across groups. the year; potentially contributing to the nymphs and adults ticks throughout cattle may be infested with larvae, in much of Eastern Africa means that

Increased mobility

increase exposure rates and vector/host supervision of male pastoralists) may mobility of cattle (predominantly under dry season which aligns with highest tsetse fly activity in that season. Men It could be explained by increased elsewhere in pastoral communities. administered in the same district - anc cattle owners – in a questionnaire a finding confirmed by individual more frequently in the long dry season reported. AAT was reported to occur AAI occurrence. The increased reported more tsetse fly in the long Year round ccurrence of AAT was also

> disease. Other possible reasons for AA to nutrient deprivation and starvation contacts. Furthermore, poor quality and possible parasite resistance. the use of insecticides, trypanocides and among pastoralists. These include management practices across seasons variations relate to differences in vector in animals and can trigger clinical pastures during the dry season lead

Lower rainfall

We explored pastoralists' observations

of ECF and AAT. Studies on tick and apundance population dynamics and seasonal climate parameters influencing vector rainfall and temperature are the main tsetse fly ecology likewise show that were important for the occurrence such as rainfall and temperature They observed that climate parameters amongst livestock in northern Tanzania associated with emaciation and death reduced pasture and water availability data, as well as published accounts of with conventional meteorological Pastoralists' observations align well droughts, since previous research. pasture, as well as increases in severe rainfall, vegetation cover and quality reported observing declines Participant groups consistently

access and availability of effective drugs and acaricides, as well as some adoption of ECF immunisation and and 2014 may be linked to increased climate changes and the occurrence in resource-poor areas. Consequently intensive, which may prove challenging disease outcomes is complex and dataclimate parameters interact to influence transmission. Understanding how survival and ultimately disease which in turn alter vector development influence of arthropod ecosystems that climate plays a major role in the Nonetheless, scientific studies confirm improved understanding of the disease in ECF occurrence between 1984 occurrence. For instance, changes multifactorial nature of disease of ECF and AAT likely reflects the The lack of a clear relationship with

Mapping the data this area lacks comprehensive studies

were also depicted on maps for rainfall. Seasonal livestock movements in recent years mainly due to lack of revealed grazing areas had diminished Participatory mapping in all villages

> greater distances. forced some larger herds to be moved the frequent and longer droughts have a considerable problem. Furthermore, Inadequate pasture and water became season, starting around August, when mostly practiced during the long dry away from the home village was each village. Movement of cattle

Pastoralists revealed that the frequency of interaction was greater during areas of undisturbed vegetation. Areas with savannah shrubs/trees, and where population. also associated with high tsetse fly cattle-wildlife interactions occur, are national parks where there are large reported in areas close to wildlife especially in the long rainy seasor pastures with good grass growth this included gullies, lake banks, and high vector populations. For ticks areas. They identified areas that had many species to seek suitable grazin and water were inadequate, causing Tsetse flies were more commonly

Setting a baseline

highlight the district's vulnerability, with increased drought periods and reduced rainfall noted. Given that VBDs were cattle diseases, improved strategies for of worsening projections for climate ECF and AAT epidemiology in the face and implemented. their management need to be identified agreed to be among the most important change. Furthermore, our results provides a useful baseline regarding The indigenous knowledge generated

cattle VBDs. This can be achieved of the effects of climate change on to obtain a better understanding climate, vectors, pathogens and disease climatologists, vector biologists and involving epidemiologists, veterinarians through a multi-professional approach consistent and systematic monitoring of This study also suggests the need for

ecologists.

component of the Maasai culture cattle production remains the primary potential interventions. This is critical as data will improve prediction models and source of income, and a fundamental change on VBDs and assist in evaluating understanding of the impacts of climate The collection of such rich, high quality

Attendees at the conference

Professor Hezron Nonga - DVS (Director of Veterinary Services Tanzania)









regulations, only require formulation of institutional arrangements and Current gaps pertaining to technical party to staff recruitment, deployment regulations that enable MLF to be implied in the various legislation and answerability of professionals as Director is the disciplinary authority for regulations of 2003 spell out that the

standing of our profession. pertaining to professional answerability In a nutshell, all veterinarians are duty

ensure that the ethics code of conduct moral, ethical and legal obligations bound to take cognisance of their to MLF, in an effort to improve the

disciplinary proceedings. training, performance evaluation and sector laws and policies were aligned to implementation. This is why livestock to be key players in agenda setting and resources to communities, they are able

D by D.

include: (MoU) signed by the parties in 2000, the Memorandum of Understanding accordance with the requirements of of Livestock and Fisheries (MLF), in and LGAs. Key mandates of the Ministry Governments, Regional Secretariats for Regional Administration and Local ministries, the Ministry responsible configured mandate between sector The system operates on a properly

- Ξ formulation of policies and implementation and adherence legislation, and ensuring
- € ensuring that staff in LGAs are technically empowered and
- enabled, including making required resources available

staff in LGAs.

- ensuring that staff establishments
- (iv)working towards ensuring that the are filled
- adhered to code of ethics and conduct is
- 3 providing overall guidance to

2006 further articulates the mandates (Miscellaneous Amendments) Act of The Local Government Laws sectoral development.

of MLF. The Act's implied mandates include MLF being (i) expected to

> resources; and (v) making resources responsible for mobilising financial recruited and trained, (iv) primarily (iii) responsible for ensuring staff are performance evaluation of staff in LGAs (ii) required to carry out technical is adhered to by all professionals;

on the requirements of the national

The Decentralisation by Devolution (D

From the Chairman's desk

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the D by D system, including gross inadequacy of accountability of all Government Laws (Miscellaneous enunciated in the MoU and the Local parties, this mandate framework as Despite the pitfalls we have with available to staff in LGAs.

By passing powers, mandates and

proper guidance of Local Government and their social wellbeing through their destiny in terms of development at empowering communities to define constitution of 1977 and policies aimed by D) system in Tanzania is premised

Authorities (LGAs).

of Veterinary Services. that professionals be accountable to MLF, including being professionally and Amendments) Act of 2006, requires

appointed by the Minister of Livestock the Public Service Act of 2002 and its 16 of 2003, etc. This is despite the fact No 17 of 2003, the Veterinary Act No requirements of the Animal Disease Act to fulfil their mandates in line with the administratively and legally required and inspectors are technically, and Fisheries to serve as District This also implies that veterinarians Veterinary Officers, Assistant Registrar:

THE TVA ANNUAL CONFERENCE 2019



Prof. Dominic M. Kambarage, TVA Chairman addresses the conference





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TANZANIA ADOPTS NEW APPROACH TO VECTOR-BORNE DISEASE CONTROL From the Chairman's desk

Tick-borne diseases (TBD) now account for almost 75% of cattle losses in Tanzania. However, they were very much under control from the 1960s to the mid-1980s, when dipping costs were shouldered by central government. Then public services were withdrawn in a bid to involve private sector actors in national development. These economic structural adjustment policies, however, led to gross inadequacy of extension agents, as well as limitations in financial resources and drug/vaccine supply, notably in rural areas. Crucial physical resources, including dip tanks, were neglected or abandoned. Generally, animal health services crumbled, leading to the collapse of dipping and coordinated disease vaccination programs, among other setbacks.

With TBDs continuing to cause immense losses, the Ministry responsible for livestock development embarked on an improvement scheme in the late 2000s. It was designed to renovate dips, provide subsidised acaricides and promote community management of dip tanks through formation of management committees. However, despite massive government investment – executed in partnership between the Ministry of Livestock and Fisheries and the Ministry responsible for Regional Administration and Local Governments – coupled with animal keepers being rallied to manage the dip tanks for own benefit, dipping rates did not improve much. TBDs continued to be a menace.

In December 2018, the Ministry of Livestock and Fisheries introduced a new form of acaricide subsidy that works on the basis of free provision for two annual cycles of dip tank refilling, with animal keepers being urged to procure the acaricides needed for routine replenishment purposes. Again, animal keepers were expected to form management committees and charge a nominal fee to enable them to purchase acaricides for dip replenishment.

The ministry is also formulating relevant regulations to compel animal

keepers to use dips. Combined with the subsidy, this legislation is expected to revolutionise TBD control. Nevertheless, this new scheme requires monitoring and evaluation to identify and fix any cracks in the system. This is extremely important given the financial resources being committed and the need to transform the animal industry in line with the goals of the National Livestock Development Policy of 2006, but more precisely with those of the Five Year Development Plan (FYDP) for 2015-2020.

Attaining an industrialised economy, middle-income country status and bolstering employment opportunities as envisaged by FYDP certainly hinge on several undertakings in the animal industry. These include effective control of major livestock diseases – such as TBDs – which have been singled out as key constraints for the animal industry.

Will the acaricide subsidy and compulsory dipping be game changers? We wait with interest to find out.



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