



EXPERIENCES ON QUALITY OF VETERINARY MEDICINES PRODUCTS IN TANZANIA

**English Speaking Africa Training Seminar for National
Veterinary Products Focal Points –Malawi
05 - 07 September 2023**

Ministry of Livestock and Fisheries

DODOMA – TANZANIA

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INTRODUCTION

Tanzania is among of top 2 countries with large number of animals



36.6mil.Cattle



3.7mi. pigs



26.6mil. goats



657,389 donkey



9.1mil. sheep



55.2mil. exotic



4.0 mil - dogs



42.7mil. local



CONTROL OF QUALITY OF VMPs



Legislations that backing Control of VMPs in Tanzania: 1/4

i). Tanzania food, drugs and cosmetics act (TFDCA) cap. 219

Tanzania Medicine and Medical device Authority (TMDA) is mandated on;

- Human and Veterinary medicines
- Medical devices
- Laboratory equipment
- Diagnostics

ii). Animal Diseases Act 2003; and its regulations (import and export)

Under DVS and mandated on;

- Control all the requirement veterinary inputs;
- Coordinates proper use of veterinary inputs;



CONTROL OF QUALITY OF VMPs



Legislations that backing Control of VMPs in Tanzania: 2/4

iii). The Veterinary Act 2003 and its regulation;

Tanzania Veterinary Council (VCT) and mandated on:

- Supervision of veterinary ethics during practice;
- Supervision of lower and small veterinary medicine outlets;
- Coordinating Vet, Paravet and Vet ass. in the country;

iv). Grazing Land and Animal Feed Resources Act 2010;

Under DGLF and mandated on;

- Control of Animal feeds including veterinary inputs in animal feeds and additives;



CONTROL OF QUALITY OF VMPs



Legislations that backing Control of VMPs in Tanzania: 3/4

v). The Veterinary Laboratory Agency 2010;

Tanzania Veterinary Lab. Agency (TVLA) and mandated on:

- Surveillance of animal diseases;
- Control of acaricides (importation and field tests);
- Veterinary Vaccines production;

➤ The Code of Professional Conduct Regulations for Veterinary Paraprofessionals, 2005

➤ The Code of Professional Conduct for Veterinarians and Specialists Regulations, 2005

➤ The Fisheries Act, 2003

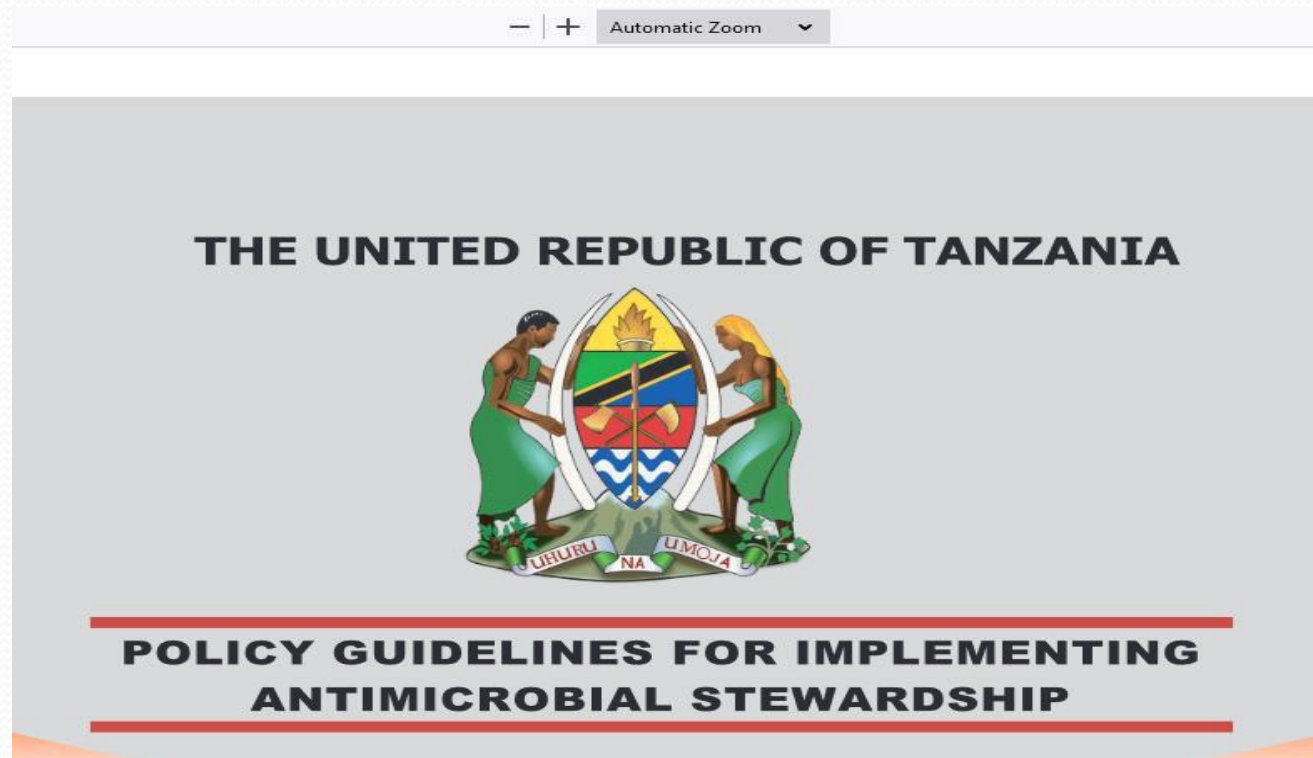


CONTROL OF QUALITY OF VMPs



Legislations that backing Control of VMPs in Tanzania: 4/4

vi). Policy guidelines for implementing Antimicrobial Stewardship;





POST MARKETING SURVEILLANCE (PMS)

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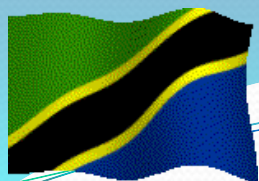
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POST MARKETING SURVEILLANCE (PMS)

Doc. No. TMDA/DMC/CTPV/PMS/R/005

TANZANIA MEDICINES AND MEDICAL DEVICES AUTHORITY



Tanzania Medicines & Medical Devices Authority

ANNUAL POST MARKETING SURVEILLANCE (PMS) REPORT FOR SELECTED HUMAN AND VETERINARY MEDICINES CIRCULATING IN TANZANIA

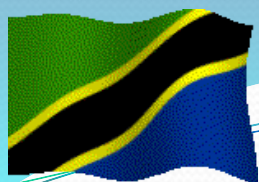
2019/2020



POST MARKETING SURVEILLANCE (PMS)

Table 1: Parameters investigated during confirmatory testing of selected samples

Medicine Category	Product	Parameter	Analytical Method
Human Medicines	Amoxicillin	Identification	USP 43 NF 38
		Assay	USP 43 NF 38
		Dissolution	USP 43 NF 38
		Related substance	USP 43 NF 38
	Ciprofloxacin	Identification	BP 2020
		Assay	BP 2020
		Dissolution	BP 2020
		Related substance	USP 43 NF 38
	Furosemide	Identification	BP 2020
		Assay	BP 2020
		Dissolution	BP 2020
		Uniformity	USP 43 NF 38
	Oxytocin Inj	Identification	USP 43 NF 38
Assay		USP 43 NF 38	
Sterility		USP 43 NF 38	
Veterinary Medicines	Diminezinediacetate tetrahydrate	Identification	OIE monograph for Trypanosidal drugs Quality Control_ version
		Assay	OIE _monograph for Trypanosidal drugs Quality Control
	Albendazole 2.5 & 10%	Identification	B.P 2020
		Assav	B.P 2020



POST MARKETING SURVEILLANCE (PMS)

Table 6: Confirmatory testing

Summary	Dosage	Monograph	Screening Test	Qty Received	Qty Screened			Confirmatory			Remark
					Qty Screened	Pass	Fail	Qty selected	Pass	Fail	
Ciprofloxacin	Tablets	BP	Appearance, Identification TLC and Disintegration	119	119	119	0	7	7	0	
Amoxicillin Trihydrate	Tablets	BP	Appearance, Identification TLC and Disintegration	65	65	65	0	2	2	0	
Furosemide	Tablets	BP	Appearance, Identification UV and Disintegration	72	72	72	0	10	10	0	
Albendazole Solution	Solution	USP	Appearance, Identification UV	80	80	79	1	10	9	1	
Oxytocin	Injection	BP	Appearance, Identification TLC	9	9	9	0	9	9	0	
Diminazen diacetate	Injection	IOC	Appearance, Identification UV	14	0	0	0	14	14	0	Not subject to screening
Total				359	345	344	1	53	51	1	

Antibiotics in Tanzania by Veterinarians during 2010 - 2017



Antibiotic	QTY (Kg)	%
Tetracycline	8,090,798	66.6
Sulfonamides & trimethoprim	3,057,240	25.16
Combination	841,822	6.93
Beta-lactam	86,636	0.71
Aminoglycoside	10,897	0.09
Microlides, lincosamides & Streptogramins	7,847	0.07
Total	12,147,491	100



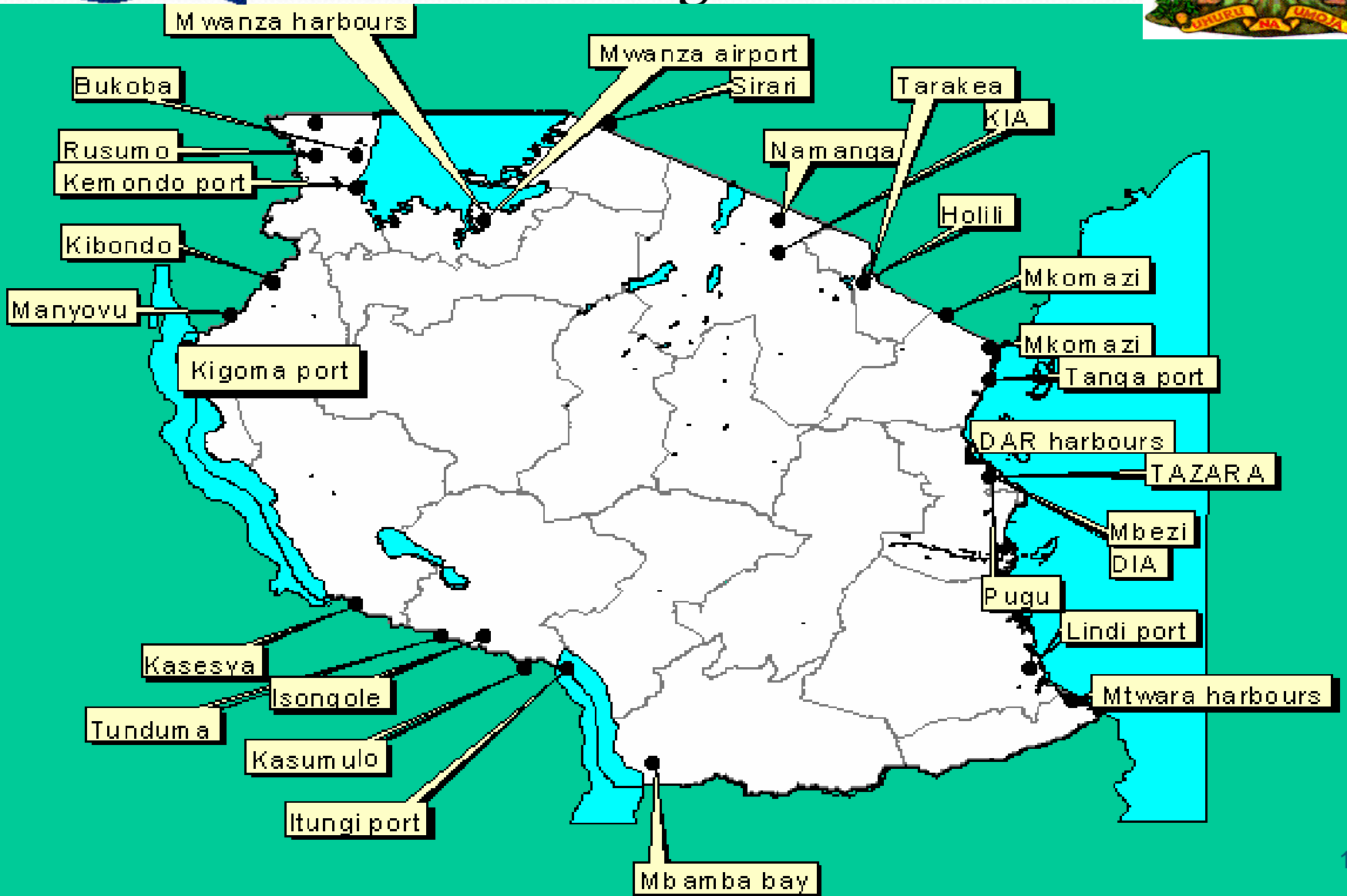
Challenges



- i. Inadquate knowledge among of stakelholders;
- ii. Compliance to legislations (all stakelholders);
- iii. Porous borders;
- iv. High cost of drug treceability activities esp. Post market;



MAP OF TZ Challenge





WAYFOWARD



i. More effort on awareness creation

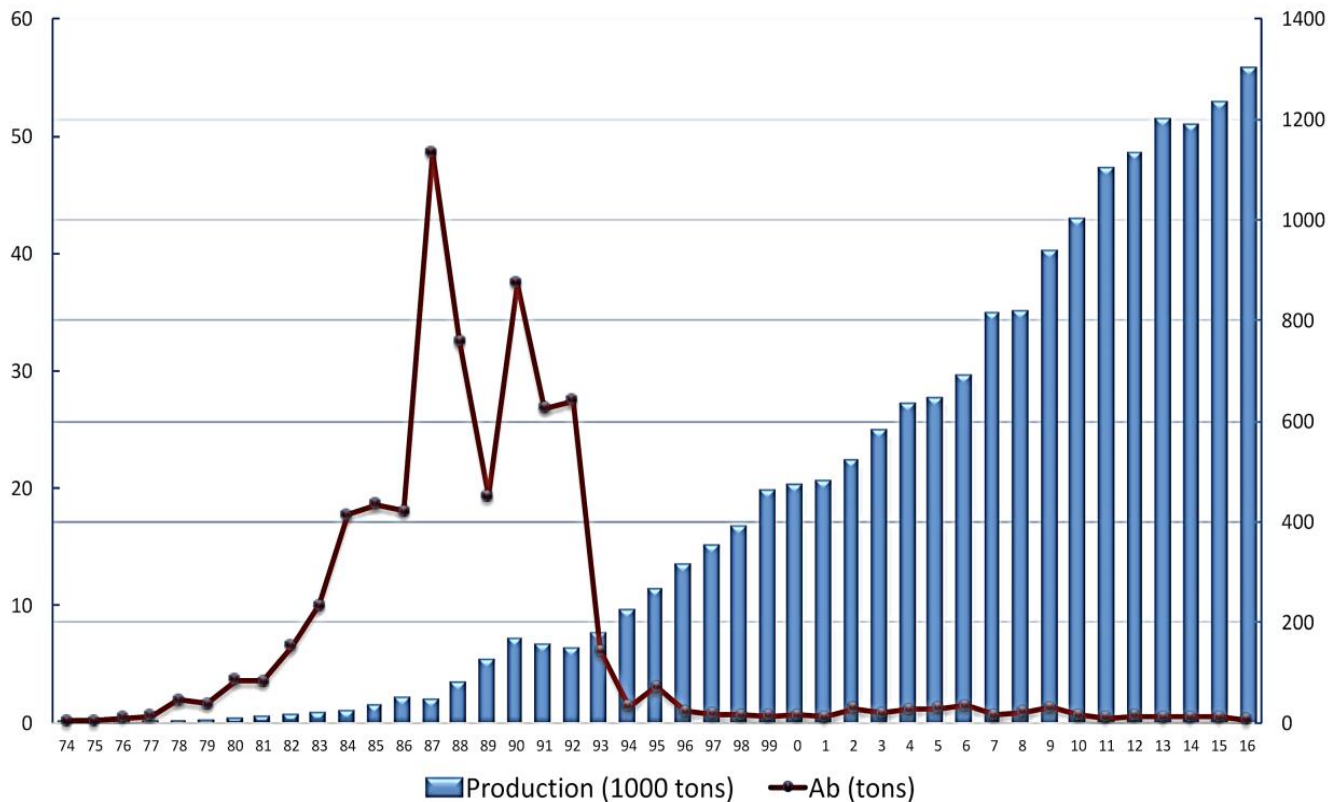
ii. Law enforcements;



iii. Focus into IPC, (Biosecurity and vaccination);



VALUE OF VACCINATION FOR CONTAINMENT OF OVERUSE OF VMP



- Salmon farming in Norway was sustained by antibiotics usage in the 80s
- Introduction of vaccines led to the decline of antibiotics and increased production

Use of antibiotics (line) and production volume (bars) of Atlantic salmon in Norway between 1980 and 2016 (Aly and Albutti, 2014)



THANK YOU FOR LISTENING

