

Protecting people and animals from disease threats





FAO Regional Activities on Antimicrobials Resistance Containment

"6th Cycle regional training seminar for OIE focal points for veterinary products (Africa)" Addis Ababa, 9-11 July, 2019





Outline

Background

FAO focus areas of support to countries

- Situation analyses and NAP development
- AMR Awareness raising
- AMR Surveillance and Evidences
- Good practices pilots: ET, KE, ZI, ZA, TA, GH, SU
- Governance

BACKGROUND

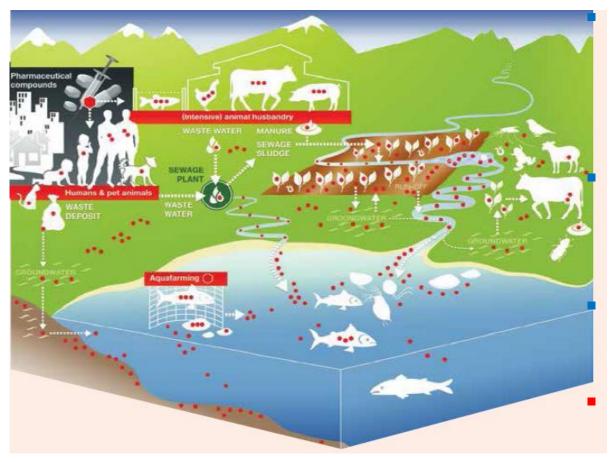
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Global Impacts of AMR to Livestock and the Economy

- "... Livestock production in low-income countries would **decline by 11%** due to AMR by 2050 ..." ¹
- Lower productivity & supply of livestock products & **increased prices** for major sources of protein, including milk, meat, eggs, and fish¹
- Additional number of people living in poverty will increase 8 to 24 million due to AMR¹
- AMR affecting **GDP**, 3.8% to 5.6% & may double by 2050¹
- "Without AMR Containment, the **SDGs** for 2030 such as ending poverty, ending hunger, ensuring healthy lives, reducing inequality, and revitalizing global development partnerships-are less likely to be achieved ... And undermine hard-won achievements under MDGs" ²
- **However**, investment of 1\$ on AMR containment will have 4-13 times return of the cost and Rate of Return of 31%¹

AMR Requires all of us to work together: One Health Approach



Widespread AMU & misuse in Humans, Animals, and Plants are the main factors associated with AMR

AMs **residues** in food & **contamination** of the environment give rise to AMR;

Environmental soil and water bacteria carry a pool of **AMR** genes

AMR genes transfer
between humans, animals and
the environment

Addressing threats of AMR holistically and in multi-sectoral One Health approach is necessary

FAO Action Plan on AMR



2015





- 1. Improve **awareness** and advocacy on AMR, AMU and related threats
- 2. Develop capacity for surveillance and monitoring of AMR and AMU in food and agriculture
- 3. Promote **good practices** in food and agricultural systems and the **prudent use** of antimicrobials
- 4. Strengthen **governance** related to AMU and AMR



Situational analysis and NAPs

Countries Situational analysis and NAPs

- Situational analysis (ET,KE, Sudan, Tanzania, Zim, Zam, Ghana, Lesotho)
- Strategy for AMR
 Prevention and
 Containment, 2011, 2015,
 2018 (ET)
- AMR policy (KE)
- AMR NAP (KE, Sudan, Tanzania, Zim, Zam, Ghana, Lesotho)





NATIONAL ACTION PLAN
ON PREVENTION AND
CONTAINMENT OF



ANTIMICROBIAL RESISTANCE



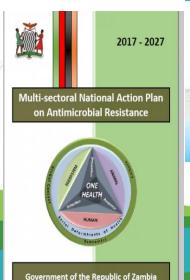
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2017 -2022

JUNE 2017



2017 - 2022







ZIMBABWE
ONE HEALTH ANTIMICROBIAL RESISTANCE
NATIONAL ACTION PLAN
2017-2021



syntheses of findings

Antimcirobials use, resistance and containment baseline survey

Ghana AMU and AMR Policy and NAP 2018-06-11





The president of Ghana, HE Akufo Addo, delivering his address at the launch of Ghana AMR policy and NAPn on AMR. Photo: Ministry of Health, Ghana.



Assessment workshops for francophone in West Africa, 4-5 March 2018, Ouagadougou Burkina Faso

- ECOWAS/WAHO, UEMOA, CILSS,

 ALG, 10 francophone countries in West

 Africa

 ECOWAS/WAHO, UEMOA, CILSS,

 Résistance aux antimicrobiens

 La FAO en quête d'antidotes

 Dans le mentale, anvioure 100 (100 personnes mounted chaques année à causer des maladiers libre à la résistance aux antimicrobiens

 Africa

 Un séricitation la reformation des représentants de plus antifers qui a maleille en maladier libre à la résistance aux antimicrobiens

 Africa

 ECOWAS/WAHO, UEMOA, CILSS,

 Résistance aux antimicrobiens

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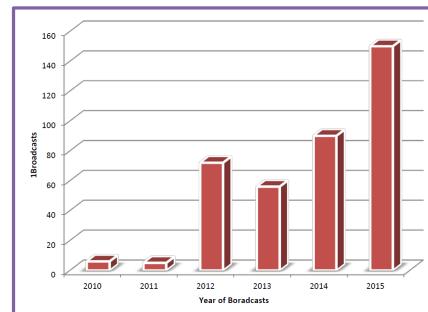
 Résistance
- 4 delegates/ country: ministries of health, animal health/livestock/fishery, agriculture and environment, OIE, WHO, ReAct Africa
- National TV coverage, news paper publications, radio interview in 3 languages
- Initiation of REC AMR task force
- Initiation of West African One health AMR platform



AMR Awareness Raising

Ethiopia AMR Containment Awareness Raising

- One-to-one treatment adherence counseling
- Face-to-face group education at waiting areas
- Social and behavioral change communications
- Mass media campaigns
- Mass walk programs
- Mass media (electronic & Print): more than 600 broadcasts in more than 10 languages





Awareness alone does not lead to behaviour change

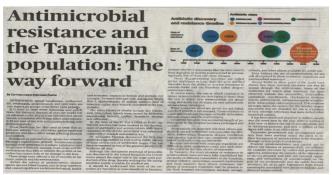
Kenya and Ethiopia WAAW 2018

Kenya video: https://www.youtube.com/watch?v=zepLLI0XSxA&t=142s



Joint activity of AMR stakeholders led by government & CSOs play key role, examples of INRUD and APUA

Tanzania AMR Awareness campaign













Zimbabwe AMR Awareness Raising

Zimbabwe: https://www.youtube.com/watch?v=m4SFzL3Hgtw

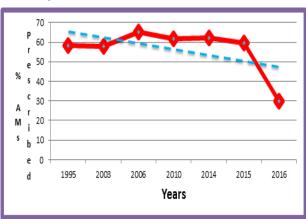




AMU and AMR Surveillance and ATLASS

AMR & AMU Surveillance and Evidence

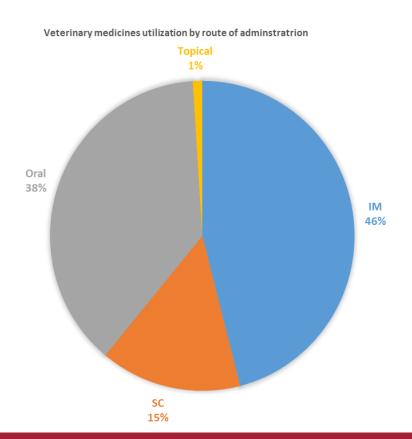
- 1. Antimicrobials Resistance Baseline assessment: AMU and AMR, 2008, 2018 (ET)
- 2. ATLASS Assessment and AMR surveillance system in Ethiopia, Kenya, Sudan, Tanzania, Zambia, Zimbabwe, Ghana
- 3. Integrated Antimicrobial Resistance and Residue Surveillance Plan 2016, 2019-ET
- 4. AMR surveillance Plan for the Agric-sector- *KE*,
- 5. Draft regional surveillance framework
- Regional AMR-OH lab trainings KEMRI
 (TZ, Zam, Zim, KE, ET, SU, UH, GH)
- 7. National trainings



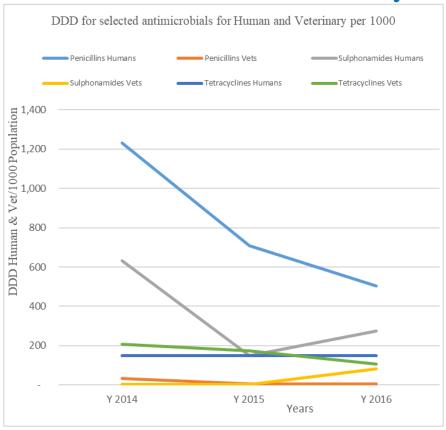
Ethiopia AMU over years examples

VCIA, VHIA, VIA, VUOA and AWaRe

Vet AMU by route of Admin



AMU DDD per 1000 population for humans and veterinary



Good Practices

Output 4: Good practices in the food and agriculture sector on AMU and AMR containment implemented

- Revised Ethiopia veterinary medicines list
- Drafted unfit for use veterinary medicines safe disposal guideline
- KAP of animal owners/farmers on AMU, AMs residue and good dairy farm practices
- Disseminations and interventions: mastitis prevention and prudent AMU: dissemination, audit and feedback, field experiences sharing, BCC guides
- S. aureus resistance to:
- ☐ Penicillin decline by 20% from 63%, 53%, to 43% in the first to second to third round measurements, respectively.
- ☐ Streptomycin declined by 30% from 94%, 89% to 64% in the first to second to third round measurements, respectively.



Promote good practices in food and agricultural systems

- Harmonized behaviour change interventions
 - Dairy ET & Sudan
 - Agrovets , vets Sudan
 - Poultry- KE, Ghana, Zim, Zam
 - Pastoralism Tanzania
- KAP studies
 - Design of interventions based on gaps identified
 - Implementation of interventions mixed approach Farmer Field
 Schools and others









Governance

Governance

- OH Legislations Review Relevant for Antimicrobial Use,
 Antimicrobial Resistance and Containment (ET, KE, TZ, Sudan)
- Regional VMP Regulation harmonization Guidelines (SADC) to regulatory systems in Southern African countries
- Mapping of the drug supply chain (KE)
- Updated the Ethiopian Veterinary Medicines-ET
- Safe disposal guideline for unfit for use veterinary medicines and animal feed (ET)
- Drafting a generic veterinary pharmaceuticals management and use training manual (ET)
- Updating the Ethiopian veterinary standard treatment guidelines for veterinary clinics (ET)

Strengthen governance: Legislation workshop for francophone West Africa, 6-7 March 2019, Burkina Faso

- Supporting the development of One Health National Action Plans (NAP)
- Supporting AMR and AMU regulatory framework assessment
- Legislation workshop in West Africa
 for francophone countries, 6-7 March 2019

Progressive Management Pathway tool

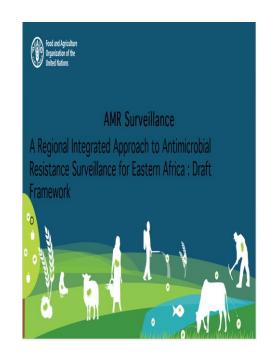
- First pilot exercise: Ghana in March
 2019, multi-sectoral panel
- Contribution of WHO, OIE and UNEP in the development of the tool





Regional strategies/activities

- O Southern Africa Development Community (SADC) member states have gathered to come up with an AMR Strategy, to be collectively implemented by the 15 countries. The SADC AMR Strategy is premised on One Health approach so as to realize synergies and opportunities within the human, animal, crop and environmental health sectors.
- Draft AMR surveillance strategy –EA
- Regional AMR network –EA
- AMR-OH institutionalization analysis- KE





Way forward

- Assist AMU and AMR containment situation analyses
- Assist countries to draft their OH AMR containment strategies
- ATLASS AMR surveillance & lab capacity assessment
- Capacitate for integrated AMR & AMU & Residues surveillance and post-marketing surveillance
- Support countries to integrate AMR containment in plans
- One Health legislation review
- Promoting good practices ands prudent use in countries on AMR
- AMU tool standardization: aggregate and granular
- Sharing experiences among the countries



Thank you

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