

CONCEPT NOTE

Training on “Standardized and Harmonized Surveillance Methods for Antimicrobial Resistance in Food Animals in Southeast Asia“, 12-15 June 2017

and the

Consultative Meeting on the Regional AMR Surveillance in the Animal Health Sector of South-East Asia, 16 June 2017

Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand

Background:

In response to the increasing emergence of antimicrobial resistance (AMR) in bacteria, surveillance of AMR in pathogens and commensals should be established as a routine task of public veterinary services globally, including Southeast Asian region. Each country should have a national AMR surveillance program, which forms part of the global surveillance on AMR. However, differences in resources, knowledge and technology in different countries and world regions have become a major hindrance for the implementation of a global control and prevention action plan to combat AMR. In particular, the results of antimicrobial susceptibility test studies are often difficult to compare due to methodological differences and program incompatibility. This highlights the need for standardized and harmonised protocol for antimicrobial susceptibility testing and AMR surveillance.

The Food and Agriculture Organization of the United Nations (UN FAO) and Chulalongkorn University Veterinary AMR Cluster (CU VET AMR) have worked in close collaboration to i) assess and strengthen AMR laboratory capacities in the Southeast Asian countries and ii) develop regional guidelines on AMR testing and monitoring to reinforce national AMR action plans associated with food animals and their products of the countries in the region. The UN FAO and the CU VET AMR are now taking steps to address the above shortcomings. The four-day training will be organized with the aims to:

1. familiarize laboratory staff with standardized and well-defined methods for performing antimicrobial susceptibility testing.
2. share scientific and technical information on sampling design, sample collection and data management essential for the harmonized schemes of AMR surveillance in bacteria associated with food animals and their products.
3. strengthen collaboration for AMR testing and surveillance the Southeast Asian countries

The training series will comprise lecture and hand-on practice in microbiological and computer laboratory. The training will end with a discussion to offer an opportunity for participants to describe their concerns and express their idea.

This upcoming training is expected to bridge knowledge gaps between countries, to enhance understanding of AMR surveillance and to be a stage for sharing ideas and experiences to AMR testing and surveillance. This training is targeted at laboratory heads and personals involved in AST as part of their routine jobs in national laboratories. As follow up, a second training focusing on antimicrobial use will be organized.

Leveraging on this momentum, it will also be important at the outset to set-up a cohesive, harmonized, well-planned, and well-coordinated AMR surveillance in the region. It is envisioned that such collective force will (1) mutually strengthen national systems on AMR surveillance and continuously improve capacities; (2) provide timely exchange of information for national and regional policy decisions; and (3) will encourage political support to continued and sustained implementation that progressively improves over time. A consultative meeting of key decision-makers on national AMR surveillance of Veterinary Authorities in South-East Asia is thus being organized to discuss and deliberate the overarching AMR Surveillance in the region.

The Consultative Meeting aims to:

1. Provide a comprehensive technical overview on AMR surveillance and ongoing initiatives in the region to support this, including the planned Regional Framework for AMR Surveillance in the animal health sector of South-East Asia.
2. Discuss and deliberate the needs in setting-up and sustaining a harmonized AMR surveillance within countries and across the region.
3. Seek advice in the development process of a regional coordination mechanism that can support and reinforce the independent, but regionally cohesive, national AMR surveillance initiatives in South-East Asia.

Expected Participants:

Workshop 1: 30 participants (from ASEAN countries)

Workshop 2: 45 participants (30 from the training plus laboratory directors, ECTAD)

Training on “Standardized and Harmonized Surveillance Methods for Antimicrobial Resistance in Food Animals in Southeast Asia”
12-15 June 2017

Date/Time	8:30-10:00	10:30-12:00	Lunch	13:00-14.30	15.00-16.30	
12 June	08:15-09:00	Registration			Overview on Standard AST	Lab practice: AST <ul style="list-style-type: none"> Health and Safety in Laboratory (HSL) Multimedia: CLSI standard AST
	08:30-08:40	Opening remarks from FAO				Preparation for AST <ul style="list-style-type: none"> Disk diffusion tests Agar dilution method Broth microdilution method
	08:40-08:50	Welcome from CU				17:30-20:00 Welcome dinner (FAO/CU)
08:40-08:50	Group photo					
	08:50-09:00	Participant introduction				
	09:00-10:00	Towards regional AMR surveillance				
	10:30-12:00	Global guideline for AMR monitoring				
13 June	Sample collection	Isolation of target bacteria (<i>Salmonella</i> , <i>Escherichia coli</i> , <i>Campylobacters</i> , <i>Enterococcus spp.</i>)			Lab. practice: AST (practice) <ul style="list-style-type: none"> Disk diffusion susceptibility tests Agar dilution method Broth microdilution method 	
14 June	<ul style="list-style-type: none"> AST Data Interpretation: (QC, Clinical Breakpoints and Epidemiological Cut Off Values) How to use AST data? 	Lab. practice: AST <ul style="list-style-type: none"> Disk diffusion susceptibility tests; Agar dilution method Broth microdilution method -Read the results -Discussion		13:00-14:00 <ul style="list-style-type: none"> AST of Fastidious microorganisms Laboratory tips Troubleshooting and common mistakes made in AST 	14:30-16:30 Detection of ESBL-producing Enterobacteriaceae -Lecture and LAB Demonstration	
15 June	<ul style="list-style-type: none"> Statistics for AMR monitoring & surveillance Computer lab. practice: Statistics for AMR monitoring & surveillance 			Computer lab. Practice (cont.)	<ul style="list-style-type: none"> Certificate presentation Farewell FAO/CU 	
16 June	Consultative Meeting on the Regional AMR Surveillance in the Animal Health Sector of South-East Asia					

Note Coffee break at 10:00-10:30; 14:30-15:0

Consultative Meeting on the Regional AMR Surveillance in the Animal Health Sector of South-East Asia

June 16, 2017
Bangkok, Thailand

Provisional Agenda

Time	Activity	Speaker/ Resource person(s)
08:00 – 08:30	Registration	CU VET AMR
08:30 – 09:00	Opening Remarks	CU, FAO, ASEAN
09:00 – 10:00	Session 1: Technical overview on AMR Surveillance	
	Introduction to Harmonization of National AMR Surveillance Programs (30 mins)	
	Reinforcing AMR Surveillance Initiatives in South-East Asia (20 mins)	
	Video presentation: 2017 Regional Training (10 mins)	
10:00 – 10:30	Coffee Break	
10:30 – 12:00	Session 2: Moving forward with AMR Surveillance in South-East Asia	
	Understanding the AMR Surveillance needs in the region (20 mins)	
	<i>Regional Deliberation:</i> Setting-up and sustaining a harmonized AMR surveillance within countries and across the region (50 mins)	
	Recommendations (20 mins)	
12:00 – 13:00	Lunch Break	
13:00 – 14:30	Session 3: Developing a regional coordination mechanism on AMR Surveillance	
	Introduction to select coordination mechanism models on AMR (20 mins)	
	<i>Regional Deliberation:</i> Drafting of the coordination mechanism framework for AMR surveillance in South-East Asia (50 mins)	
	Recommendations (20 mins)	
14:30 – 15:00	Final Recommendations and Ways Forward	
15:00 – 15:30	Coffee Break	

Time	Activity	
15:30 – 16:00	Terms of Reference of the AMR Technical Advisory Group (AMR-TAG)	
16:00 – 16:45	Action points following the recommendations from the Consultative meeting	
16:45 – 17:00	Next steps for the AMR TAG	