



FAO Project FMM/RAS/298/MUL
FAO Project “Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries: Final Workshop”
Concorde Hotel, Singapore
12-14 December 2017

PROSPECTUS

Background

The FAO Aquatic AMR Project (FMM/RAS/298): Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries, has the objective of providing technical assistance to selected countries (China, Malaysia, the Philippines and Viet Nam) in strengthening capacities, policies and national actions plans on prudent and responsible use of antimicrobials in the aquaculture sector. This will be achieved through the following: (i) documentation of antimicrobial use (AMU) in aquaculture through AMU and possibly antimicrobial resistance (AMR) surveillance and other relevant informal survey; (ii) enhancing capacities on prudent use of antimicrobials and good biosecurity and husbandry best practices; and (iii) promoting advocacy, communication and education activities. These actions could lead to policy support towards AMR prevention.

At the end of project implementation, it is expected that knowledge, skills and capacity will be enhanced and implementation of policies and development of national action plans on prudent and responsible use of antimicrobials of Competent Authorities (fisheries and aquaculture, animal health) will be in place. The aquaculture component of the National Action Plan (NAP) on AMR will be initiated within the context of the FAO Global Action Plan on AMR and the One Health approach and coherent with AMR Tripartite (FAO/OIE/WHO) arrangements.

AMR in aquaculture was highlighted during the 8th session of the Sub-Committee on Aquaculture (SCA8) of FAO’s Committee on Fisheries (COFI); it is a new area of work emphasis of the Aquaculture Branch of FAO’s Department of Fisheries and Aquaculture. During the COFI SubCommittee on Aquaculture Ninth Session, a side event on AMR was organized to raise awareness and share information about AMR to delegates representing the Fisheries and Aquaculture Competent Authorities attending COFI/SCA 9.

All relevant documents pertaining to the AMR side event can be found in the link below:

<http://www.fao.org/cofi/aq/90408/en/>

Workshop 1: 10-12 April 2017

The first workshop was successfully held in Mangalore, India from 10 to 12 April 2017 and hosted by Nitte University. The four workshop sessions tackled the following:

Session 1: history, background and current focussed attention on AMR, principles and concepts, past and ongoing efforts, as basis for better understanding of AMU and AMR

Session 2: country information on aquaculture health, AMU and AMR and status of AMR National Action Plans

Session 3: AMU and AMR surveillance country experiences, model example, information requirements and limitations and guidance in the development of NAP on AMR

Session 4: Working Group discussions on:

- Development of the aquaculture component of the NAP on AMR
- AMU/AMR surveillance
- AMR monitoring
- Guidance on Best Practice in Aquaculture

Workshop 1 achieved its objectives of enhancing and better understanding of AMU and AMR in the aquatic sector and country-specific situations as basis for developing the sector-specific design of AMU survey and AMR monitoring and surveillance mechanisms and guidance in the development of the aquatic component of the NAP on AMR. Intersessional activities being done by countries include AMU/AMR surveillance and further development of the NAP on AMR in consultation with relevant national authorities.

Workshop 2: 7-9 August 2017

The second workshop was successfully held in Putrajaya, Malaysia, from 7-9 August 2017 and hosted by Malaysia's Department of Fisheries and Infofish. Workshop 2 achieved the following objectives:

1. provided updates on the progress of AMU and AMR surveys and status of National Action Plans on AMR
2. gained further knowledge on best practices in diagnostics, AMU and other good aquaculture biosecurity practices at different levels and continuing education on AMU/AMR
3. discussed best practices on good aquaculture and biosecurity (carps, tilapia and shrimp) and prudent use of antimicrobials for stakeholders
4. developed guidance on antimicrobial susceptibility testing for selected species (e.g. carps, tilapia, shrimp)

The relevant documents pertaining to Workshops 1 and 2 can be found below:

<http://www.fao.org/fishery/nems/40953/en>

<http://www.fao.org/fishery/nems/40956/en>

Workshop 3: 12-14 December 2017

The Final Workshop of this project will be held from 12-14 December 2017 in Singapore to be hosted by the Agri-Food and Veterinary Authority of Singapore (AVA) and in collaboration with Infofish.

Purpose: The objectives of Workshop 3 are to:

- gain further knowledge on best practices in diagnostics, AMU and other good aquaculture and biosecurity practices at different levels and continuing education on AMU/AMR
- present the outcomes and experiences of three related projects on AMR
 - Aquaculture biosecurity component of FAO Aquatic AMR Project (FMM/RAS/298): Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries
 - Food safety component of FAO Aquatic AMR Project (FMM/RAS/298): Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries
 - FAO project (OSRO/RAS/502/USA): Addressing Antimicrobial Usage in Asia's Livestock, Aquaculture and Crop Production Systems, subproject: Documentation and characterizing antimicrobial use in the aquaculture sector being implemented by NACA
- discuss capacity building requirements for implementation of the NAP on AMR and build consensus on the way forward

Participation: For Workshop 3, the following are the expected delegates:

- Aquaculture biosecurity component: 8: two delegates from participating countries (i.e. China, Malaysia, the Philippines, Viet Nam)
- Proponents of the FAO project (OSRO/RAS/502/USA): Addressing Antimicrobial Usage in Asia's Livestock, Aquaculture and Crop Production Systems: 10 delegates from (Indonesia, Myanmar, the Philippines, Thailand, Viet Nam)
- AVA: 15
- Other: 1 (City University of Hong Kong); MSD Singapore
- FAO Resource Experts: 7 (Croatia, India, Ireland, the Philippines, Netherlands, Sri Lanka, USA)
- FAORAP (Bangkok): 1 officer
- FAO (HQ, Rome): 4 officers (FIAA, FIAM)

Process: There will be Opening and Closing sessions, seven technical sessions and a field trip as follows:

Day 1:

- Opening
- Session 1: Governance
- Session 2: Awareness
- Session 3: Evidence

Day 2:

- Session 4: Best practice
- Session 5: Country presentations
- Session 6: Discussions on capacity building requirements and the Way Forward

Day 3:

- Session 6: Discussions on capacity building requirements and the Way Forward
- Session 7: Conclusions and Closing
- Field trip

FAO HQ contact persons:

Melba B. Reantaso: Melba.Reantaso@fao.org (FIAA)

Elena Irde: Elena.Irde@fao.org (FIAA)

AVA Contact Persons:

Kelvin Lim: Kelvin_LIM@ava.gov.sg

Yueh Nuo Lin: LIN_Yueh_Nuo@ava.gov.sg

Edmund Choo: Edmund_CHOO@ava.gov.sg

Shawn Ting: Shawn_TING@ava.gov.sg

INFOFISH:

Shirlene Maria Anthonyamy: shirlene@infofish.org

Tentative Programme

Date/time	Activity
11 December 2017	Arrival of participants
Day 1: 12 December	
08:15-08:45	Registration
08:45-09:40	Opening Session
	Welcome Remarks (Dr Chang Siow Foong, Group Director/ Agri Establishment Regulatory Group, Agri-Food & Veterinary Authority of Singapore).
	Introduction to objectives and expected outcomes of the workshop (Dr Melba Reantaso, FAO)
	Self-introduction of participants
	Group photo
09:40-10:00	Coffee
10:00-	Session 1: Governance
10:00-10:10	Progress report on Aquaculture Component of FAO Project FMM/RAS/298/MUL “Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries” (Ms Elena Irde, FAO)
10:10-10:20	Progress report on Food Safety Component of FAO Project FMM/RAS/298/MUL “Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries” (Ms Esther GarridoGamarro, FAO)
10:20-10:40	AMR, Aquaculture and One Health (Dr Melba Reantaso, FAO)
10:40-11:00	Codex Alimentarius as food safety standard, relationship with AMR and country responsibilities (Dr Iddya Karunasagar, India)
10:40-11:15	EU Action on Plan on AMR and implications for trading partners with two examples of NAP: Croatia (Drs Snježana Zrnčić, Croatia)
11:15-11:30	Example of NAP: Netherlands (Dr D. Ceccarelli, presented by Dr Olga Haenen, Netherlands)
11:39-11:45	Example of NAP: Singapore (Dr Kelvin Lim, Singapore)
11:45-12:00	Example of NAP: USA (Dr Larry Hanson, USA)
12:00-13:20	Lunch
13:20-13:40	Current status of NAP on AMR (WHO website) (Dr Melba Reantaso, FAO)
13:40-15:00	Discussions
13:30-	Session 2: Awareness
13:30-13:50	Critical analysis of available data on use of antibiotics in aquaculture (Dr Peter Smith, Ireland)
13:50-14:10	Review of AMR in aquaculture work in China (Dr Li Aihua, China)
14:10-14:30	Global ornamental fish trade as a risk of AMR development and transfer (Dr Olga Haenen, Netherlands)
14:30-14:50	Discussions
14:50-15:10	Coffee
15:10-	Session 3: Evidence
15:10-15:30	Mechanisms and pathways of AMR in the environment (Dr Iddya Karunasagar, India)
15:30-15:50	Global overview on fishery products rejections due to residues of antimicrobials (Ms Esther GarridoGamarro, FAO)
15:50-16:10	Assessing antibiotic treatment failure in salmon aquaculture (Dr Sophie St. Hilaire, Hong Kong)
16:10-16:30	Discussion
16:30-17:00	Wrap-up and Day 2 schedule

Day 2: 13 December	Session 4: Best practice
08:15-08:20	Tasks for Day 2
08:20-08:40	Diagnostics and antimicrobial administration (Dr Snježana Zrnčić, Croatia)
08:40-09:00	Practical management of bacterial diseases in finfish aquaculture to minimize AMR (Dr Larry Hanson, USA)
09:00-09:20	Best practice in carp aquaculture (Dr Rohana Subasinghe, UK/Sri Lanka)
09:20-09:40	Best practice in shrimp aquaculture (Dr Celia Lavilla-Pitogo, Philippines)
09:40-10:00	Best practice in tilapia aquaculture (Dr Rohana Subasinghe, UK/Sri Lanka)
10:00-10:20	Coffee
10:20-10:40	Future of vaccination in Asian aquaculture (Mr Lee Yeng Sheng, Singapore).
10:40-11:00	Fish Waste Management: Turning fish waste into healthy feed (Mr Omar Riego Penarubia, FAO)
11:00-11:20	Discussions
11:20-	Session 5: Country presentations
11:20-11:50	China (Dr Aihua Li)
11:50-12:20	Malaysia (Ms Wan Norhana Bt Md Noordin and Mr Gerald Misol Jr.)
12:20-13:30	Lunch
13:30-14:00	Philippines (Drs Simeona E. Regidor and Sonia Somga)
14:00-14:30	Viet Nam (Dr Dang Thi Lua and Ms Thi Han Huong Nguyen)
14:30-15:00	Progress Report: Documentation and Characterization of AMU in the Aquaculture Sector: Thailand, Vietnam, Myanmar and Indonesia (FAO project OSRO/RAS/502/USA implemented by NACA) (Dr Eduardo Leano, presented by Dr Rolando Pakingking, Jr.)
15:00-15:20	Discussions
15:20-15:40	Coffee
15:40-	Session 6: Discussions on capacity building requirements and the Way Forward
15:40-16:00	Aquaculture production and trade trends: carp, tilapia, shrimp and ornamental fish (Mr Miao Weimin, FAO)
16:00-16:15	Introduction to Working Group discussions: each of the 4 Working Group will discuss on the 4 pillars: governance, awareness, evidence, best practice (Dr Melba Reantaso, FAO)
16:15-17:15	Working Group Discussions
19:00-21:00	Networking dinner at Concorde Hotel sponsored by AVA Singapore
Day 3: 14 December	Session 6: Discussions on capacity building requirements and the Way Forward
08:15-08:20	Tasks for Day 3
08:20-09:20	Continue working group discussion and preparation for WG presentations
09:20-09:40	Coffee
09:40-11:20	WG presentations
09:40-10:00	WG 1 (WG Chairperson/Rapporteur)
10:00-10:20	WG 2 (WG Chairperson/Rapporteur)
10:20-10:40	WG 3 (WG Chairperson/Rapporteur)
10:40-11:00	WG 4 (WG Chairperson/Rapporteur)
11:00-11:30	Discussions
11:30-	Session 7: Conclusions and Closing
11:30-12:00	Conclusions
12:00-12:30	Distribution of certificates
12:30-13:30	Lunch
13:30-18:30	Field trip hosted by AVA Singapore (laboratory facilities and ornamental fish facility)