



Food and Agriculture  
Organization of the  
United Nations

FMM/RAS/298: Strengthening capacities, policies and national action plans on  
prudent and responsible use of antimicrobials in fisheries Workshop 2  
in cooperation with Malaysia Department of Fisheries and INFOFISH

7-9 August 2017, Kuala Lumpur, Malaysia

# MALAYSIA: Progress report on the aquaculture component of country NAPs on AMR



# Contents:

1. General activities
2. AMU survey
3. AMR surveillance
4. Awareness and Education
5. Promotion of Best Practices



# PARTNERS



Department of Veterinary Services,  
Malaysia



MINISTRY OF HEALTH  
MALAYSIA



Food and Agriculture Organization  
of the United Nations



# 1. Progress on the NAP on AMR (AQUACULTURE)- GENERAL ACTIVITIES

ACTIVITY/MONTH	2017									
	4	5	6	7	8	9	10	11	12	
1. Establishment of AMR (AQ) Working Group	x									
2. AMR (AQ) Working Group Meeting	x		x				x			
3. Presented the NAP AMR (AQ) to the Department of Fisheries top management		x								
4. Updating, revising & formalizing National Action Plan (NAP) AMR (AQ)		x	x	x	x	x	x	x	x	x



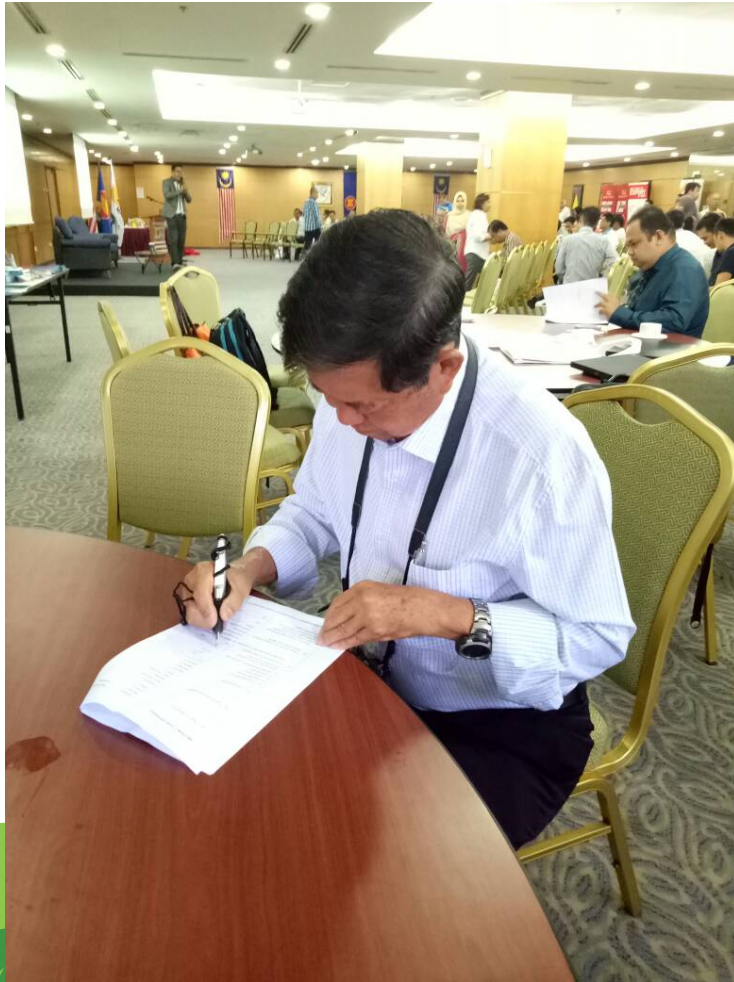
# Department of Fisheries (DOF) AMR Working Group

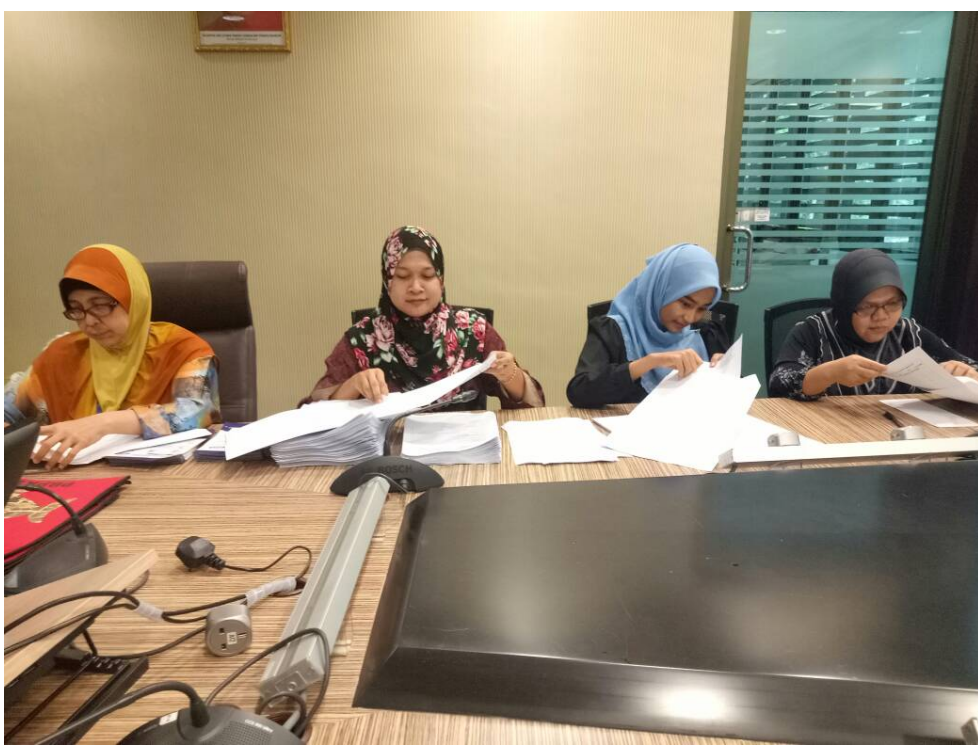
NAME	POSITION	OFFICE
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## 2. AMU SURVEY

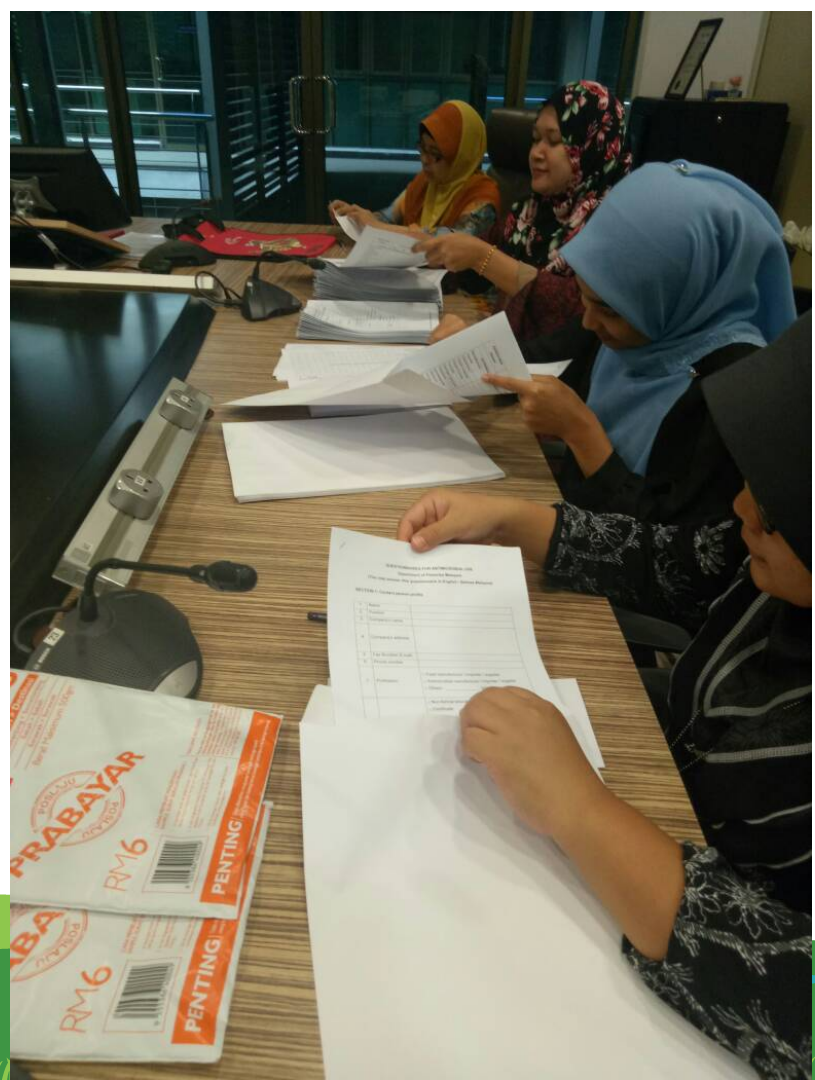
ACTIVITY/MONTH	3	4	5	6	7	8	9	10	11	12
<b>a. Training/Workshop</b>										
i. MyOHUN National AMR Workshop, Putrajaya (6-9/3/17)	x									
ii. FAO Workshop 1, Mangalore, India (10-13/4/17)		x								
iii. FAO Workshop 2, Kuala Lumpur, Malaysia 7-9/8/17)						x				
<b>b. Preparation of questionnaires (FAO &amp; NACA)</b>				x	x					
<b>c. Preparation of list of respondent</b> (shrimp farmers, aquatic health professionals, antimicrobials dealer/manufacturer/supplier)				x	x					
<b>d. AMU survey- shrimp farmers</b>					x	x	x			
<b>e. AMU survey- aquatic health professionals</b>						x	x	x		
<b>f. AMU survey- antimicrobials dealer/manufacturer/supplier</b>						x	x	x		
<b>g. AMU data analysis and report writing</b>						x	x	x	x	

# AMU Survey-Shrimp Farmers





Preparation for posting of questionnaires





*Vibrio parahaemolyticus* collected for AMR testing (MAY -JULY 2017)

Sources of isolates	Samples	Number of isolates (N)	Sampling Location	Isolation /ID Methods	Storage
Active surveillance	Freshwater Prawn	3	Sarawak	APHA Method Key Biochemical test	TSA Slant, Room temperature, PBP Bintawa, Sarawak
	Seabass	1			
Active surveillance	Mussel	2			
	Clam	8			
R &D	Shrimp	16	Malaysia (Confidential)	API & Confirmed with PCR	TSA Slant at room temperature and Cryovial stock at -80°C at PBP Selangor, KLIA
R & D	Shrimp	20	Melaka Perak	Key Biochemical Test & API	Cryopreservation at -80°C at National Fish Health Centre, Pulau Pinang.
	<b>TOTAL</b>	<b>50</b>			

*Escherichia coli* collected for AMR testing (MAY - JULY 2017)

Sources of isolates	Sample	No. of isolates (N)	Sampling Location	Isolation /ID Methods	Storage
Active surveillance program	Catfish	8	Kedah	Petrifilm EC IMViC	TSA Slant, 4°C (Pusat Biosekuriti Perikanan, (PBP) Kuala Lumpur)
		3	Melaka		
	Catfish	4	Kelantan	Petrifilm EC IMViC	
	Oysters	2	Terengganu		
		2	Kelantan		
	Mussel	5	Johor		
	Mussel	5	Sarawak	Petrifilm EC IMViC	TSA Slant, 4°C, (PBP, Bintawa, Sarawak)
	Clam	5	Sarawak		
Cockles	10	Penang Perak	Petrifilm EC/ IMViC	TSA Slant, 4°C (PBP, Kuala Lumpur)	
Carpet clams	5	Kedah			
	<b>TOTAL</b>	<b>49</b>			

## List of antibiotics for AST

<b>Human</b>	<b>Aquaculture</b>
1. Colistin	Nitrofurantoin
2.Ampicilin	Amoxicillin/Ampicilin
3.Tetracycline	Oxytetracycline ,Doxycycline
4.Chloramphenicol	Chloramphenicol , Florfenicol
5.Ciprofloxacin	Enrofloxacin
6.SMZ-Trimethoprim	Trimethoprim/sulfamethoxazole
7.Streptomycin	Erythromycin
8.Gentamicin	Flumequine
9.Cefotaxime	Ormetoprim/sulfadimethoxine
10.Ceftiofur	Oxolinic acid





**A special slot on AMR during Asia Pacific Aquaculture (APA) Conference, 2017 (25<sup>th</sup> July, Farmers Day) for DOF personnel, farm operators, researchers**





**MyOHUN National Seminar and Workshop on (AMR), Putrajaya (6-9 Mar 2017)**





**A talk on AMR Fisheries Biosecurity Strengthening Course,  
DOF Putrajaya, 1-2 Ogos 2017**



SUPPORTING  
ASSOCIATION:



Unit  
Kementerian  
Perikanan  
Malaysia



IN COLLABORATION WITH:



World Health  
Organization



WORLD ORGANISATION  
FOR ANIMAL HEALTH

# ANTIMICROBIAL RESISTANCE (AMR)

4th August 2017

ORGANIZE BY MALAYSIA AQUACULTURE  
DEVELOPMENT ASSOCIATION (MADA)  
&  
DEPARTMENT OF FISHERIES MALAYSIA

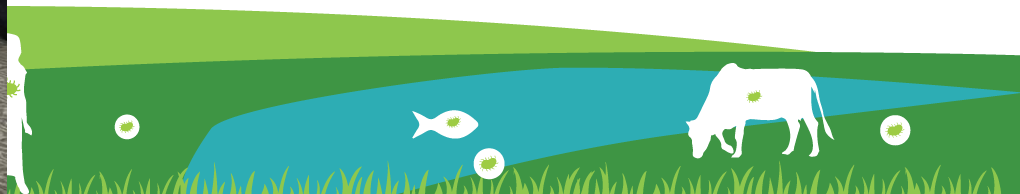




AMR Awareness and Stakeholders Consultation, Kuala Lumpur 4<sup>th</sup> Aug 2017



# AMR Awareness and Stakeholders Consultation, Kuala Lumpur 4th Aug 2017



## 5. Promotion of Best Practices for the use of Antimicrobials in aquaculture

- Best practices will be specific based on the AMU results.
- Focus on use of Antimicrobials in aquaculture.
- Suggested to be included in the myGAP and FQC certification criteria.
- To be discussed further in the 2<sup>nd</sup> workshop.



**THANK YOU FOR  
YOUR ATTENTION**

