Draft Concept Note
The First National Conference on Antimicrobial Resistance
Phnom Penh, Cambodia
28 May 2018

Background

The increasing incidence of antimicrobial resistant (AMR) pathogens, and the associated health and economic impact, stands as a defining 21st century challenge. In the absence of interventions, AMR-associated human mortality is projected to soar from a current rate of 700,000 to over 10 million annually by 2050. Asia is expected to account for half of this projected global mortality.

In response, the Ministry of Health (MOH) of the Cambodian Government developed and endorsed the National Policy (2014) and National Strategy for AMR (2015-2017). This was followed by the development of a Multi-Sectoral Action Plan (2018-2023), bringing together human health, agriculture, food and the environment, was started, carried out by the MOH and the Ministry of Agriculture, Forestry and Fisheries (MAFF) AMR Technical Working Groups (TWG), through support from Food and Agriculture Organization of the United Nations (FAO), World Health Organization (WHO) and the World Organisation for Animal Health (OIE).

To support the MSAP development and assess the progress of AMR efforts from the agriculture, food, human health and environment sectors, a situation analysis was completed in December 2017. Results of the Situation Analysis were presented during the High level AMR Meeting 29-30 November 2017 and the National Consultation on the MSAP 12-13 February 2018, where it was proposed to organize a National AMR Conference to present the Cambodia based AMR and AMU studies to the scientific and policy-making communities in Cambodia, including students, laboratory scientists, researchers, teachers, pharmacists, clinicians and professionals.

Objective of the conference

The aim of the conference is to create a science policy interface to foster a dialogue between the scientific and policy-making communities on AMR in Cambodia, to share information from the 2017/2018 National AMR situation and to sensitize and advocate stakeholders from human health, agriculture, food and the environment on neglected AMR issues.

Venue

The conference will be held on 28 May 2018 at the Royal University of Agriculture in Phnom Penh.
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic/Activity</th>
<th>Person Responsible</th>
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<tbody>
<tr>
<td><strong>28 May 2018</strong></td>
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<tr>
<td>8.00 – 8.30</td>
<td>Registration</td>
<td>FAO and MAFF Secretariat</td>
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<td>8.30 – 9.15</td>
<td>Opening by the Universities and the Ministry Tripartite</td>
<td>Royal University of Agriculture, University of Health Sciences, Ministry of Environment (MOE), Ministry of Health (MOH), Ministry of Agriculture, Forestry and Fisheries (MAFF)</td>
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<td><strong>9.15 – 9.45</strong></td>
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<td></td>
<td><strong>Group Photo and coffee break</strong></td>
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<td>9.45 – 10.15</td>
<td>Key Notes: How the environment is linked to antibiotic use in humans and agriculture</td>
<td>Dr. Rajeshwari Sinha, Centre for Science and Environment, India</td>
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<td>10.15 – 11.15</td>
<td>Presentation and Q&amp;A (see Annex)</td>
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<td>11.15 – 12.00</td>
<td>Poster presentations</td>
<td>4 minutes per poster using e-poster</td>
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<td><strong>12.00 – 13.00</strong></td>
<td>Lunch</td>
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<td>13.00 – 13.30</td>
<td>Key Notes: Antimicrobial consumption and resistance in humans</td>
<td>Prof Helena Legido-Quigley, Saw Swee Hock School of Public Health, Singapore</td>
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<td>13.30 – 14.30</td>
<td>Presentation and Q&amp;A</td>
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<td>14.30 – 14.45</td>
<td>Coffee break</td>
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<td>14.45 – 15.15</td>
<td>Key Notes: Antimicrobial consumption and resistance in Agriculture</td>
<td>Dr. Katsuaki Sugiura, University of Tokyo, Japan</td>
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<td>15.15 – 16.15</td>
<td>Presentation and Q&amp;A</td>
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<td>16.15 – 17.00</td>
<td>Plenary Discussion</td>
<td>Dr Sar Chetra, Dr Ly Sovann, Dr Rajeshwari Sinha, Prof Helena Legido-Quigley, Dr Katsuaki Sugiura</td>
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Participants
Around 200 participants are expected to attend the conference. The participants will include:

**Ministry representatives:**
- Ministry of Agriculture, Forestry and Fisheries
- Ministry of Environment
- Ministry of Health

**Director Generals or Directors:**
- Cambodia Communicable Disease Control Department (C-CDC)
- Department of Hospital Services (DHS)
- NCHADS (STD program)
- Department of Drug and Food (DDF)
- CENAT (TB)
- CNM (Malaria)
- National Institute of Public Health (NIPH)
- General Directorate of Animal Health and Production (GDAHP)
- General Directorate of Agriculture (GDA)
- Fisheries Administration (FiA)
- Departments within MOE

**The Tripartite**
- Regional representative from OIE
- Cambodia delegate for OIE
- Regional representative from WPRO
- Country representatives from WHO
- Regional representative from FAORAP
- Country representatives from FAO

**Development partners, hospital staff, academia and others:**
- UNAIDS
- UNICEF WASH initiative
- UNEP
- Institute Pasteur du Cambodge (IPC)
- Diagnostic Microbiology Development Program (DMDP)
- US-CDC
- Calmette Hospital
- National Maternal and Child Health Center
- National Pediatric Hospital
- Sihanouk Hospital Center of Hope
- Angkor Hospital for Children (AHC)
- University of Health Sciences
- Royal University of Agriculture
- USAID
- World Bank
### Annex: List of abstracts submitted for AMR National Conference, 28 May 2018

<table>
<thead>
<tr>
<th>No.</th>
<th>ORAL PRESENTATION</th>
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<tbody>
<tr>
<td><strong>Session 1</strong></td>
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</table>
| **Abstract 1** | High rates of drug resistance in *Escherichia coli* from a pilot Antimicrobial Resistance Surveillance System in Cambodia  
Vandarith NOV, Darapheak CHAU, Vuth ANN, Sidonn KRANG, Joanne LETCHFORD, Borann SAR, Sreng BUN |
| **Abstract 2** | Pilot Study On Antimicrobial Resistance in *Escherichia Coli* and *Salmonella Spp.* Isolated from Slaughter Houses In Cambodia  
Chea Rortana et al. |
| **Abstract 3** | Evidence for meat and fish as sources of community exposure to ESBL-producing *Escherichia coli* in Cambodia  
Maya Nadimpalli, Yith Vuthy, Agathe de Lauzanne, Laëtitia Fabre, Alexis Criscuolo, Malika Gouali, Bich-Tram Huynh, Thierry Naas, Thong Phe, Laurence Borand, Jan Jacobs, Alexandra Kerléguer, Patrice Piola, Didier Guillemtot, Simon Le Hello, and Elisabeth Delarocque-Astagneau |
| **Abstract 4** | Prevalence and Risk Factors for Early ESBL-Producing Enterobacteriaceae Fecal Colonization Among Newborns from Cambodian Community Settings. Preliminary Results of the Peec Nic Study  
De Lauzanne Agathe, Bernabeu Sandrine, Gouali Malika, Borand Laurence, Huynh Bich-Tram, Delarocque-Astagneau Elisabeth, Naas Thierry |
| **Session 2** | |
| **Abstract 5** | Antimicrobial resistance in invasive bacterial pathogens in hospitalized Cambodian children, 2007-2016  
Andrew Fox-Lewis, Junko Takata, Thyl Miliya, Yoel Lubel, Sona Soeng, Poda Sar, Kolhida Rith, Gregor mckellar, Vanaporn Wuthiekanun, Erin mcgonagle, Nicole Stoesser, Catrin E Moore, Christopher M Parry, Claudia Turner, Nicholas PJ Day, Ben S Cooper, Paul Turner |
| **Abstract 6** | Bloodstream Infections Detected from Patients Admitted to Battambang Provincial Referral Hospital between 2014 and 2017  
S. Chiek, J. Letchford |
| **Abstract 7** | Methicillin Resistance *Staphylococcus Aureus* (MRSA) in Takeo Provincial Hospital-Cambodia, 2015-2017  
Sosorphea SEANG, Chanthou CHAK, Samnang KHUTSORN, Samath HY, Puthey EK |
| **Abstract 8** | Methicillin-Resistant *Staphylococcus aureus* (MRSA) detected in Kampong Cham Provincial Hospital, 2015-2017  
S Nhem, J Letchford |
| **Session 3** | |
| **Abstract 9** | Antimicrobial use and resistance in small-scale peri-urban pig farming in Cambodia  
Gunilla Ström, Sofia Boqvist, Ann Albinh, Lise-Lotte Fernström, Agnes Andersson Djurfeldt, Seng Sokerya, Tum Sothyra, Ulf Magnusson |
| **Abstract 10** | Strengthening the Antimicrobial Resistance (AMR) Surveillance System in Cambodia  
Sidonn KRANG, Sovann LY, Kimsan OU, Rattana OUCH, Vandarith NOV, Darapheak CHAU, Vanra IENG, Joanne LETCHFORD, Borann SAR, Sreng BUN |
| Abstract 11 | **Implementation of Antibiotic Susceptibility Testing for resistance tracking using Clinical and Laboratory Standards Institute M100 and M02 Performance Standards in government laboratories in Cambodia**  
|            | S. Oeng1, B. Chaing1, J. Letchford1 |

| Abstract 12 | **Antimicrobial Resistance in *Streptococcus pneumoniae* before and after the introduction of PCV-13 in Cambodia**  
|             | Ly Sokeng¹, Sar Poda¹, Soeng Sona¹, Leab Phana¹, Suy Kuong¹, Miliya Thy¹, Nicholas Day²,³, Ngoun Chanpheaktra¹, Claudia Turner¹,³, **Paul Turner¹,³** |