**Assessment on National Laboratory System**

**for GHSA Meeting on “Step towards Regional Strategic Collaboration in Asia-Pacific on Workforce Development, National Laboratory System Strengthening & Antimicrobial Resistance Prevention to Respond Global Challenges”**

**6-8 May 2015, Bangkok, Thailand**

**for human health sector**

**Action package : Detect-1 National Laboratory System**

This questionnaire is intend to use to assist the participant to prepare the information for the GHSA meeting on May 6-8 only. It is not intended to substitute any assessment process. Each country should reply only 1 set of questionnaire.

Please read the action package provided and answer the questions.

1. **Background information**
   1. Country :
   2. Name of individual respondent :

Position :

Institute :

Ministry:

Address :

Phone : Fax : e-mail :

Affiliation: …….Public/Government

…….Private

…….University

…….Other …………………………

* 1. Name of the institute that oversight the laboratory in the country.

Address :

Contact person name :

e-mail :

* 1. Brief country profile

Area :

Population :

Top 5 burden diseases

1 2

3 4

5

Priority infectious diseases

1 2

3 4

5

1. **Policy and legislation**

Please answer y/n and provide information concerning the questions.

* 1. Is there a national policy for health laboratory services available?

…...Y/…..N

If yes, please provide details on goals and objectives.

* 1. Is there a policy to ensure the quality of laboratory diagnostic capacities (e.g. licensing, accreditation, etc.)?

…...Y/…..N

* 1. Are regulations, policies or strategies for laboratory biosafety/biosecurity available?

…...Y/…..N

* 1. Has your country fully implemented IHR 2005?

…...Y/…..N

If no, what are the problems?

* 1. Does your country have a legislative framework on health laboratory?

…...Y/…..N

* 1. Are national laboratory quality standards/guidelines available?

…...Y/…..N

1. **Laboratory capacity**
   1. Is an up-to-date and accessible inventory of public and private laboratories with relevant diagnostic capacity available?

…...Y/…..N

* 1. Can the laboratory in your country perform the following tests? If yes, please choose the appropriate answers (can be more than one) and fill in the table.

*According to the action package, the country should be able to perform 6 core tests. The remaining four tests should be selected by the country on the basis of major national public health concerns .*

1. hospital lab B. public health/ reference lab C. national lab

D. research lab E. other (specify)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Core test | Y/N | A | B | C | D | E(specify) |
| 1. polymerase chain reaction (PCR) testing for Influenza virus |  |  |  |  |  |  |
| 2. virus culture for poliovirus |  |  |  |  |  |  |
| 3. serology for HIV |  |  |  |  |  |  |
| 4. microscopy for *Mycobacterium tuberculosis* |  |  |  |  |  |  |
| 5. rapid diagnostic testing for *Plasmodium* spp. |  |  |  |  |  |  |
| 6. bacterial culture for *Salmonella* Typhi |  |  |  |  |  |  |
| 7. |  |  |  |  |  |  |
| 8. |  |  |  |  |  |  |
| 9. |  |  |  |  |  |  |
| 10. |  |  |  |  |  |  |

* 1. Have the national /reference laboratories got accreditation?

…...Y/…..N

* 1. Is the BSL-3 laboratory available in your country?

…...Y/…..N

* 1. Is the BSL-4 laboratory available in your country?

…...Y/…..N

1. **Networking**
   1. Are the laboratories organized in a tiered system with different levels of functions?

…...Y/…..N

* 1. Does the country have specimen referral system of infectious specimen to reference laboratories?

…...Y/…..N

* 1. Does your country have WHO designated reference laboratories for specific pathogens/diseases?

…...Y/…..N

If yes, please specify.

* 1. Does the country have the EID laboratory network?

…...Y/…..N

* 1. Does the country have the collaboration between human health and animal health laboratory networks?

…...Y/…..N

* 1. Does your country have access to networks of international laboratories to meet diagnostic and confirmatory laboratory requirements and support outbreak investigations for events specified in Annex 2 of IHR.2005

…...Y/…..N

1. **Please rank the priority of the following activities to fit your country needs.**

**Proposed Five-Year Action Items listed in the action package:**

| **Activities** | **Rank** | **The reason for the answer** |
| --- | --- | --- |
| 1. Evaluate capacity needed at national reference, provincial, and district laboratories and implement a five-year approach based on experience with Integrated Disease Surveillance and Response (IDSR) and other ongoing platforms to build capacity at each level. |  |  |
| 1. Integrate or increase collaboration among human and animal laboratory systems for a One Health approach. |  |  |
| 1. Field-test novel point-of-collection diagnostics appropriate for screening outbreak specimens. |  |  |
| 1. Train biomedical engineers in-country to certify biosafety cabinets and repair/maintain general laboratory equipment (centrifuges, fridges, freezers, incubators). |  |  |
| 1. Systematically submit microbial samples or isolates to the public health reference laboratory/ies at the regional or national level. |  |  |
| 1. Establish a laboratory information management system that links with the national disease reporting system. |  |  |
| 1. Provide infrastructure improvements, security enhancements, freezers, and a pathogen access control software system to archive and protect collections of dangerous pathogens. |  |  |
| 1. Implement step-wise improvement toward accreditation at the district and central levels. |  |  |
| 1. Implement basic microbiology training for district-level laboratory technicians, including modules on specimen collection, packaging, transport, and disposal. |  |  |
| 1. Identify mechanisms to integrate and sustain national and regional diagnostic capability, including acquisition of reagents and media and access |  |  |
| 1. Others …………………………………………………. |  |  |
|  |  |  |
|  |  |  |

1. **Summary**

From the above answers, is the five-year target of the action package detect-1 achievable for your country? (…..Y/…..N)

If no, please propose the suitable target for your country to achieve within five years?