

Annual Workshop on External Quality Assessment Schemes in Cambodia

PRESIDENT HOTEL, BATTAMBANG PROVINCE

03-04 DECEMBER, 2018

How to enroll to join in EQA programs



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Table of Contents

1. Introduction
2. Role of NIPH
3. EQA Program in 2018
4. Introduction to EQA participants of National lab, Provincial labs, NGO labs and Private Lab
5. Characteristics of EQAS Panels
6. How to submit the result of 1WA?

Introduction

What is External Quality Assurance (EQA)?

A system for objectively checking the performance of a laboratory using an external agency

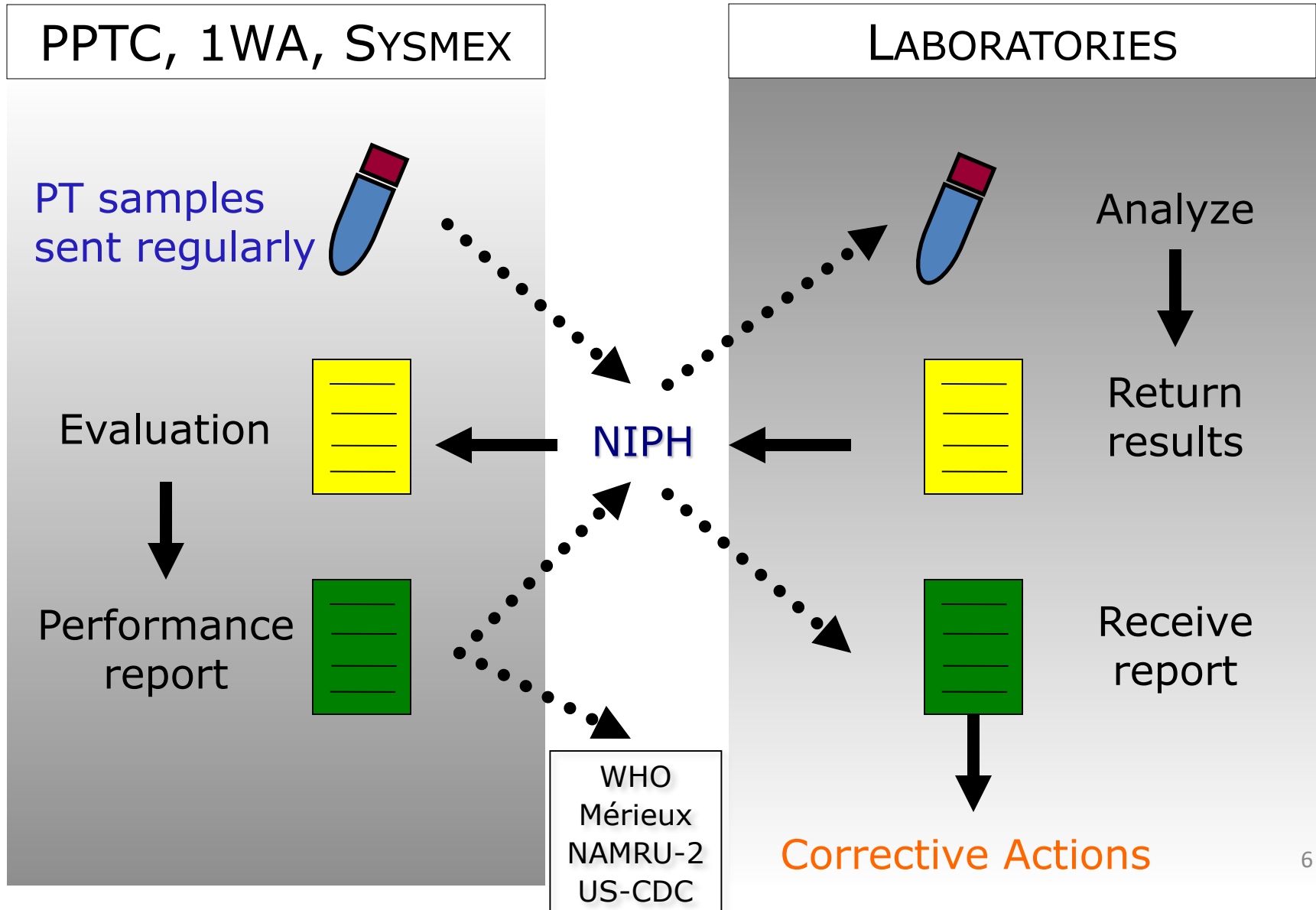
What are the benefits of an EQA program?

- Objective measure of lab performance
- Independent evidence of testing quality
- Increases credibility of lab results
- Early warning for systemic problems
- Identify areas that need improvement
- Determine training needs

What are the responsibilities of laboratories?

- Follow EQA (PT) instructions carefully
- Treat EQA (PT) samples as patient samples
- Do **not** communicate with other labs
- Do **not** refer samples to other labs
- Complete all paper work accurately
- Submit results before deadline
- Record and store EQA (PT) results
- Investigate problems
- Implement corrective actions
- Learn from mistakes
- Communicate outcomes

How is Proficiency Testing done in Cambodia?



Role of NIPH

Collaboration between provider and Cambodia lab participants.

- ✚ NIPH receives EQA (PT) panels from provider
- ✚ NIPH distributes EQA (PT) panels to all participants
- ✚ NIPH collects results from all participants, consolidates and submits results to provider
- ✚ NIPH distributes reports from provider to all participants
- ✚ NIPH keeps all data

EQA Provider and Participants of National lab, Provincial labs, NGO labs and Private Lab in 2018

Providers	Unit and Participations
PPTC	<ul style="list-style-type: none">• Microbiology 14 labs• Serology 32 labs• Blood Bank 05 labs
1WA	<ul style="list-style-type: none">• Biochemistry 43 labs• Hematology 1 labs
Sysmex	<ul style="list-style-type: none">• Hematology 61 labs

EQA participants of National lab, Provincial labs, NGO labs and Private Lab

- National Laboratory**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
1	NIPH	Yes	Yes	No	Yes	Yes	Yes
2	Calmette	Yes	Yes	No	No	Yes	Yes
3	NPH	Yes	Yes	No	No	Yes	Yes
4	PKH	Yes	Yes	No	No	Yes	Yes
5	Presh Angdoun	No	Yes	No	No	Yes	Yes
6	MCH	No	Yes	No	No	Yes	Yes
7	KSF(Khmer Soviet)	Yes	Yes	No	No	Yes	Yes
8	NBTC	No	Yes	Yes	No	No	Yes
9	Preah ket Mealea	Yes	No	No	No	No	No
10	Sra Em Military	No	No	No	No	Yes	Yes

- Provincial Laboratory**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
1	Takeo	Yes	Yes	No	No	Yes	Yes
2	Kg Cham	Yes	Yes	Yes	No	Yes	Yes
3	Battambang	Yes	Yes	Yes	No	Yes	Yes
4	Svay Rieng	Yes	Yes	No	No	Yes	Yes
5	Kampot	Yes	Yes	No	No	Yes	Yes
6	Siem Reap	Yes	Yes	Yes	No	Yes	Yes
7	Chey Chomneash	No	Yes	No	No	Yes	Yes
8	Preash Vihear	No	Yes	No	No	Yes	Yes
9	Kampong Chhnang	No	Yes	No	No	Yes	Yes
10	Sihanouk	No	Yes	No	No	Yes	Yes
11	Kampong Speu	No	Yes	No	No	Yes	Yes

- Provincial Laboratory**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
12	Monkulborie	No	Yes	No	No	Yes	Yes
13	Sereysophon	No	Yes	No	No	Yes	Yes
14	Poipet	No	Yes	No	No	Yes	Yes
15	Thmor Pouk	No	Yes	No	No	Yes	Yes
16	Mongrussey	No	Yes	No	No	Yes	Yes
17	Sompovlun	No	Yes	No	No	Yes	Yes
18	ThmorKul	No	Yes	No	No	Yes	Yes
19	Sompovmeas	No	Yes	No	No	Yes	Yes
20	Prey Veng	No	Yes	No	No	Yes	Yes
21	Kratie	No	Yes	No	No	Yes	Yes
22	Pailin	No	Yes	No	No	Yes	Yes
23	Ream Navy Base	No	No	No	No	Yes	Yes

- Provincial Laboratory (New)**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
24	Phnom Penh RH	No	No	No	No	No	Yes
25	Samdech Ov RH	No	No	No	No	No	Yes
26	Pochentong	No	No	No	No	No	Yes
27	Meanchey	No	No	No	No	No	Yes
28	Oddar Meanchey	No	No	No	No	No	Yes
29	Steung Treng	No	No	No	No	No	Yes
30	Ratanakiri	No	No	No	No	No	Yes
31	Kampong Thom	No	No	No	No	No	Yes
32	Memut Tboungkm	No	No	No	No	No	Yes
33	Koh Kong	No	No	No	No	No	Yes
34	Mondulkiri	No	No	No	No	No	Yes
35	Keb	No	No	No	No	No	Yes

- NGOs Laboratory**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
1	Angkor Hospital for Children	Yes	No	No	No	Yes	Yes
2	Center of Hope	No	No	No	No	Yes	Yes
3	Mercy Medical Center	No	No	No	No	Yes	Yes
4	UHS/JATA Medical Diagnostic Center	No	Yes	No	No	Yes	Yes
5	Patient Information Center	No	No	No	No	Yes	No
6	Namru-2 Phnom Penh	Yes	No	No	No	No	No

- Private Laboratory**

No	Participants	Micro (PPTC)	Sero (PPTC)	BB (PPTC)	Hem (1WA)	Bio (1WA)	Hem (Sysmex)
1	Biomed Phnom Penh	No	No	No	No	Yes	Yes
2	N Health Laboratory	No	No	Yes	No	No	Yes
3	Central Hospital Lab	No	No	No	No	Yes	Yes
4	Royal Angkor Inter.	No	No	No	No	Yes	Yes
5	Prolabo	No	No	No	No	Yes	Yes
6	Analab Laboratory	No	No	No	No	No	Yes
7	International Standard	No	Yes	No	No	No	Yes
8	Sunrise Japan Hospital	No	No	No	No	No	Yes
9	Paratech Laboratory	No	No	No	No	Yes	Yes
10	Samaki Medical Lab.	No	No	No	No	Yes	Yes
11	Saravoan Laboratory	No	No	No	No	No	Yes
12	Master Lab	No	No	No	No	Yes	Yes
13	BP Healthcare	No	No	No	No	No	Yes

EQAS from PPTC

- Microbiology
- Serology
- Blood Bank

Characteristic of Microbiology and Serology EQAS from PPTC

PPTC for Microbiology	PPTC for Serology	PPTC for Blood Bank
<p>3 Rounds/year</p> <ul style="list-style-type: none"> ■ Organism Identifications <ul style="list-style-type: none"> • Species level • Genus level ■ Anti susceptibility test 	<p>3 Rounds/year</p> <ul style="list-style-type: none"> ■ HIV screen ■ HIV supplementary ■ HBsAg ■ Anti-HCV ■ RPR ■ Syphilis TP ■ TPPA/TPHA ■ Dengue (IgG, IgM, NS1) 	<p>3 Rounds/year</p> <ul style="list-style-type: none"> ■ Blood Grouping <ul style="list-style-type: none"> • Patient • Donor ■ Cross-Matching ■ Clerical-Check

When should you report EQA results?

- Deadline from PPTC provider (for NIPH submission): appears in the EQA file. **Ex: 21-November-2018**
- Deadline for participants submit to NIPH: 3 working days **before the deadline from PPTC provider:**
Ex: 16-November-2018
- Alert Email: two working days **before the deadline for submission to NIPH:** **Ex: 14-November-2018**

Who should you report result to?

- Ph. Touch Sokha
 - Email: touchsokha@niph.org.kh
 - Tel: 012 87 35 87

- Ph.Hem Keodane
 - Email: ega-niph@niph.org.kh
 - Tel: 011 485 574

EQAS from oneworld Accuracy

Characteristics Of Hematology of EQAS Panels

1WA

- Complete Blood Count
 - 10 parameters (WBC, RBC, HGB, HCT, MCV, MCH, RWD, PLT, Granulocyte, Lymphocytes, Monocytes/Mids)
 - 5 samples (A,B,C,D,E)
 - Run 5 times consecutively

Characteristics of Biochemistry EQAS Panels

1WA

- 99 tests which participants can join
- There are 5 samples per round (A, B, C, D, E)
- Online submission
- Peer group of Instrument and Reagent

How to submit the result of 1WA?

- [Instruction](#) with result submission
- [Worksheet](#)
- Result Submission

EQAS from Sysmex

Characteristics of Hematology EQAS Panels

Sysmex

- 2 Rounds/year
- Complete Blood Count
 - 8 Parameters (WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT)
 - 2 samples + Fresh whole blood
 - Run 3 times consecutively
 - At most 3 analyzers can participate

How to perform Sysmex hematology?

- [Instruction](#)
- [Checklist](#)
- [Excel File](#)
- [Smart](#)

When should you report EQA results?

- Deadline from Sysmex provider (for NIPH submission): appears in the EQA file.

Ex: 15-August-2018

- Deadline for participants submit to NIPH: 3 working days before the deadline from Sysmex provider:

Ex: 10- August-2018

- Alert Email: two working days before the deadline for submission to NIPH: Ex: 08-August-2018

Who should you report result to?

- Ph. Touch Sokha
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- Ph.Hem Keodane
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Q&A
Thank you for
your attention

