

Participant Handbook

The External Quality Assessment Schemes in Clinical Laboratory Faculty of Medical Technology, Mahidol University



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[1] Introduction

The External Quality Assessment Schemes in Clinical Laboratory,
Faculty of Medical Technology, Mahidol University, was established
in 1985 by the late Professor Dr. Vikul Viranuvatti
the Founding Dean and a pioneer in Thailand's medical technology profession.
This program was the first external assessment initiative for medical laboratories
in Thailand and continues to play a vital role in ensuring laboratory standards
both nationally and internationally. At present, the program encompasses
13 schemes spanning 5 major areas.



1. Clinical Chemistry

- 1.1 The External Quality Assessment Scheme in Clinical Chemistry (EQAC)
- 1.2 The External Quality Assessment Scheme in Cardiac Markers (EQACM)
- 1.3 The External Quality Assessment Scheme in Hormones (EQAH)
- 1.4 The External Quality Assessment Scheme in Tumor Markers (EQAT)

2. Clinical Microscopy

- 2.1 The External Quality Assessment Scheme in Clinical Microscopy: Complete Blood Count (B-EQAM)
- 2.2 The External Quality Assessment Scheme in Clinical Microscopy: Blood Film Examination (H-EQAM)
- 2.3 The External Quality Assessment Scheme in Clinical Microscopy: Virtual Blood Film Examination (VH-EQAM)
- 2.4 The External Quality Assessment Scheme in Clinical Microscopy: Urine - Cytohematology Proficiency Test (UC-EQAM)

3. Parasitology

3.1 The External Quality Assessment Scheme in Parasitology (EQAP)

4. Immunology

4.1 The External Quality Assessment Scheme in Clinical Immunology: Syphilis Serology (EQAI: Syphilis)*

4.2 The External Quality Assessment Scheme in Clinical Immunology:

Hepatitis B Virus serology (EQAI: HBV)

4.3 The External Quality Assessment Scheme in Clinical Immunology:

Hepatitis C Virus Serology (EQAI: HCV)

5. Bacteriology

The External Quality Assessment Scheme in Bacteriology (EQAB)

- Gram stain (EQAB: GRAM)*
- Acid fast bacilli stain (EQAB: AFB)*
- Bacterial identification and susceptibility testing (EQAB: IDEN & AST)*

[2] Objectives

- 2.1 Provide external quality assessment schemes in comply with the requirement of ISO/IEC 17043.
- 2.2 Conduct the service with impartiality and transparency.
- 2.3 Respect and safeguard the customer's rights and privacy.
- 2.4 Maintain and improve the quality of service.

[3] Departments and Responsibilities

Departments	Responsibilities
Center for Standardization	Customer communication
and Product Validation	Enrollment Management
	EQAS MUMT e-Service and database management
	Coordinate between scheme providers and participants
	EQAC and EQACM provider
Clinical Chemistry	EQAH and EQAT provider
Community Medical Technology	EQAP provider
Clinical Microscopy	B-EQAM, H-EQAM, VH-EQAM and UC-EQAM provider
Clinical Microbiology and Applied	EQAI: Syphilis, EQAI: HBV, EQAI: HCV and EQAB
Technology	provider

^{*}The schemes accredited by ISO/IEC 17043:2010.

[4] Fees and General Information

Enrollment: July 1, 2024 – November 1, 2024

Membership period: January 1 – December 31, 2025

No.	Program	Fee (THB)**	Maximum number of Participants	Payment Due Date
1.	EQAC	3,000		
2.	EQACM	5,000	Unlimited	
3.	EQAH	4,500	Orimnited	
4.	EQAT	4,500		
5.	EQAP*	2,000	200	
6.	B-EQAM	3,500	500	
7.	H-EQAM	3,500	250	
8.	VH-EQAM	3,000		
9.	UC-EQAM	1,500		November 1,
10.	EQAI: Syphilis	2,200		2024
11.	EQAI: HBV	2,200		2021
12	EQAI: HCV	2,200		
	EQAB: All	3,000	Unlimited	
	1) GRAM		Oriminited	
	2) AFB			
13.	3) IDEN & AST			
	EQAB: GRAM	1,000		
	EQAB: AFB	1,000		
	EQAB: IDEN & AST	1,200		

^{*} Note: EQAP: enrollment options

¹⁾ Both examination and digital specimen

²⁾ Fecal examination only

³⁾ Digital specimen only

^{***}Does not include international logistic fee for international participants.

[5] Requirements for Partipation

- 1. Medical laboratories. Laboratories outside Thailand are accepted but must cover additional logistic and custom clearance expenses.
- 2. For an oversea applicant, please send a request to egamtmu@gmail.com.
- 3. Making payment within the deadline.
- 4. To comply with the confidentiality policy, all correspondence must be done by the applicants themselves.
- 5. For any questions or suggestions, please contact:

Center for Standardization and Product Validation

Faculty of Medical Technology, Mahidol University

999 Phutthamonthon Sai 4 Road

Salaya, Puthamonthon

Nakhon Pathom 73170 Thailand

Telephone +66 2441 4376 ext 2512

Mobile +66 6 3895 1287

E-mail eqamtmu@gmail.com

Line Official @eqasmumt

Line OpenChat EQAS MUMT CONNECT

[6] Enrollment Process

6.1 Website https://eqamt.mahidol.ac.th

6.2 Payment Methods Internation Bank Transfer

Name of beneficiary Project the External Quality Assessment Schemes in Clinical Laboratory,

Faculty of Medical Technology,

Mahidol University

Address of beneficiary 999 Phutthamonthon Sai 4 Rd, Salaya, Puthamonthon, Nakhon

Pathom 73170 Thailand

Telephone +66 2 441 4376 ext. 2512

E-mail address egamtmu@gmail.com

Beneficiary account no. 016 452491 2

Beneficiary's bank Siam Commercial Bank Public Company Limited

Bank code (SWIFT code) SICOTHBK

Branch and address Siriraj Branch,

No. 2 Phran Nok Rd., Siriraj, Bangkok Noi, Bangkok, Thailand

6.3 Proof of payment

After making payment, please upload the proof of payment to EQAS MUMT e-Service via https://eqamt.mahidol.ac.th under the "Payment" menu or send it via email to eqamtmu@gmail.com.

6.4 Receipt

The receipt will be sent by E-mail within 30 days after the payment date. If the receipt is missing, please contact eqamtmu@gmail.com

6.5 Cancellation and refund policy

A request for refund may be made under the following circumstances:

- 1. Overpayment
- 2. Request for cancellation before November 1, 2022.

If you are an oversea applicant, please send a request for cancellation to egamtmu@gmail.com.

^{*}Note. All beneficiary bank's fee, charges / expenses shall be collected from applicant.

[7] Request for a copy of Report

7.1 Report

According to our policy, reports are issued in PDF format (Portable Document Format) via the EQAS MUMT e-Service and are available for download for 12 months. After this period, participants must submit a request through the website (https://eqamt.mahidol.ac.th) under the "Request" menu by selecting "Document Duplicate Request."

[8] Certificates

e-Certificates will be awarded to participants who fulfill the requirements of each scheme. These certificates will be issued online by the end of the round. Participants are encouraged to complete the satisfaction survey as part of the process.

[9] Confidentiality

The identity of participants is regarded as strictly confidential and is disclosed solely to individuals directly involved in the administration of the scheme, except in cases where the participant has explicitly waived their right to confidentiality. When necessary, only the unique participant ID assigned by the scheme will be utilized to ensure anonymity.

Any external parties – participant's sponsors, requesting a copy of the report must first obtain written authorization from the participant and provide a completed verification form. The program coordinator will subsequently contact the participant directly to confirm and validate the authorization.

In instances where a regulatory authority requires access to the participant's assessment results, the scheme will issue an official written notification to the participant in advance.

[10] Complain and Appeals

If a participant disagrees with the evaluation following steps may be taken:

- 1. Initial Discussion: Contact the scheme to discuss and find an appropriate solution that complies with relevant standards and technical grounds.
- 2. Formal Appeal: If the initial discussion does not reach a satisfactory conclusion, participant have the right to file a formal appeal within 30 days. The appeal must be submitted in writing and include:

Laboratory name

Address

Detailed assessment results

Results of the initial review

Signature of either the laboratory head or supervising administrator

The formal appeal should be submitted to:

Division of Legal Affairs,

Office of President, Mahidol University

999 Phutthamonthon Sai 4 Road

Salaya, Phuthamonthon, Nakhon Pathom 73170

Thailand

[11] Schemes Information

EQAC | Clinical Chemistry

The External Quality Assessment Scheme in Clinical Chemistry

Provider	Center for Standardization and Product Validation			
	Faculty of Medical Technology			
	999 Phutth	999 Phutthamonthon Sai 4 Road		
	Salaya, Put	thamonthon, Nakh	on Pathom 73170	
Sample	Human sei	rum (lyophilized, n	egative for HBsAg, anti	-HCV, anti-HIV, HIV antigen
	and syphili	s antibody)		
Test(s)	1.	Albumin	9. Chloride	17. LDL-Cholesterol
	2.	ALP	10. Cholesterol	18. Magnesium
	3.	ALT (SGPT)	11. CK, Total	19. Phosphorus, Inorganic
	4.	Amylase, Total	12. Creatinine	20. Potassium
	5.	AST (SGOT)	13. GGT	21. Protein, Total
	6.	BUN	14. Glucose	22. Sodium
	7.	Bilirubin, Total	15. HDL-Cholesterol	23. Triglycerides
	8.	Calcium, Total	16. LDH	24. Uric acid
Frequency	12 trials/ye	ar (dispatch in eve	ery first week of the mo	nth)
Number of	1 comple			
sample(s) / trial	i sample	1 sample		
Performance	Z-score ca	Z-score calculated from robust mean and robust SD		
Evaluation	Acceptable criteria: Z-score of less than ± 3.0			
Subcontractor	Medical Di	agnostic Laborato	ry Unit,	
	Holistic He	alth and Medical D	Diagnostic Center, Facu	ulty of Medical Technology
	2 Wanglan	g Road Bangkok-I	Noi, Bangkok 10700	
	Activity: Ho	mogeneity and sta	ability tests	
Contact person	Ms. Prapa	Ms. Prapapon Thanaootarakul, Ms. Chonnipa Pantakrud		
Phone	+66 2 441 4376 Ext. 2524 and +66 98 216 6571			
E-mail	eqacmumt	@gmail.com		
L				

EQACM | Cardiac Marker

The External Quality Assessment Scheme in Cardiac Marker

Provider	Center for Standardization and Product Validation
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, negative for HBsAg,
	anti-HCV, anti-HIV, HIV antigen and syphilis antibody)
Test(s)	Test Hormones:
	1) hsTroponin I
	2) hsTroponin T
	3) NT-pro BNP
Frequency	6 trials/year
	(dispatch on every 15 th day of February, April, June, August, October and
	December)
Number of	2 samples
sample(s) / trial	
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than ± 3.0
Subcontractor	International Center for Medical and Radiological Technology,
	Faculty of Medical Technology, Mahidol University
	No. 888 Golden Jubilee Medical Center, Moo. 6 Salaya, Phutthamonthon,
	Nakhon Pathom 73170
	Activity: Homogeneity and stability tests
Contact person	Ms. Chonnipa Pantakrud
Phone	+66 2 441 4376 Ext. 2524 and +66 98 216 6571
E-mail	cardiac.eqamumt@gmail.com

EQAH I Thyroid Hormones

The External Quality Assessment Scheme in Hormones

Provider	Department of Clinical Chemistry
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, negative for HBsAg,
	anti-HCV, anti-HIV, HIV antigen and syphilis antibody
Test(s)	Test Hormones:
	1) Total T3
	2) Free-T3 (FT3)
	3) Total T4
	4) Free-T4 (FT4)
	5) TSH
Frequency	6 trials/year
	(dispatch in the second week of February, April, June, August, October and
	December)
Number of	2 samples
sample(s) / trial	
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than ± 3.0
Subcontractor	Medical Diagnostic Laboratory Unit,
	Holistic Health and Medical Diagnostic Center, Faculty of Medical Technology
	2 Wanglang Road Bangkok-Noi, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Nongkanok Khanarat
Phone	+66 2 441 4376 Ext. 2521 and +66 82 172 2663
E-mail	eqahmumt@gmail.com

EQAT | Tumor Markers

The External Quality Assessment Scheme in Tumor Markers

Provider	Department of Clinical Chemistry
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, negative for HBsAg, anti-HCV,
	anti-HIV, HIV antigen and syphilis antibody)
Test(s)	1) Alpha-fetoprotein (AFP)
	2) Carcinoembryonic antigen (CEA)
	3) Prostate specific antigen (PSA)
	4) Beta-human chorionic gonadotropin (beta-HCG)
	5) CA 125
	6) CA 19-9
	7) CA 15-3
Frequency	6 trials/year
	(dispatch in the first week of January, March, May, July, September, and
	November)
Number of	2 samples
sample(s) / trial	
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than ± 3.0
Subcontractor	Medical Diagnostic Laboratory Unit,
	Holistic Health and Medical Diagnostic Center, Faculty of Medical Technology
	2 Wanglang Road Bangkok-Noi, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Nongkanok Khanarat
Phone	+66 2 441 4376 Ext. 2521 and +66 82 172 2663
E-mail	eqatmumt@gmail.com

EQAP | Parasitology

The External Quality Assessment Scheme in Parasitology

Provider	Department of Community Medical Technology
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	1) Stool
	2) Digital specimen
Test(s)	1) Fecal examination
	2) Digital samples
Frequency	4 trials/year (dispatch in the first week of February, May, August, and
	November)
Number of	3 samples (stool 2 samples and digital samples 1 sample) *
sample(s) / trial	o samples (stool 2 samples and digital samples 1 sample)
Performance	Consensus values from referee
Evaluation	Acceptable criteria: Exact match
Subcontractor	None
Contact person	Ms. Parichat Wijanphon
Phone	+66 2 441 4376 ext. 2832 and +66 97 079 9379
E-mail	eqap.mahidol@gmail.com

^{*}Note: Participants may submit a request to evaluate a specific test during the enrollment.

B-EQAM | Complete Blood Count

The External Quality Assessment Scheme in Clinical Microscopy

Complete Blood Count

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Partially stabilized whole blood
Test(s)	Complete Blood Count; CBC
	1. WBC 6. MCH
	2. RBC 7. MCHC
	3. Hb 8. RDW
	4. Hct 9. Plt
	5. MCV
Frequency	4 Trial/year (dispatch in the second week of February, May, August and
	November)
Number of	1 sample
sample(s) / trial	
Performance	Standard Deviation Index (SDI) calculated from group mean
Evaluation	and group SD
	Acceptable criteria: SDI of less than ± 2.0
Subcontractor	Medical Diagnostic Laboratory Unit,
	Holistic Health and Medical Diagnostic Center, Faculty of Medical Technology
	2 Wanglang Road Bangkok-Noi, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Sirilak Wiriyaukaradecha
Phone	+66 2 411 2258 Ext. 171
E-mail	eqammtmu@gmail.com

H-EQAM | Blood Film Examination

The External Quality Assessment Scheme in Clinical Microscopy Blood Film Examination

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Blood smear (Wright-Giemsa stain)
Test(s)	Blood film examination
Frequency	4 trials/year (dispatch in the second week of February, May, August and
	November)
Number of	1 sample
sample(s) / trial	
Performance	Consensus from participant and referee
Evaluation	Acceptable criterial: Exact match for qualitative
	parameters and consensus median for semi-quantitative and quantitative
	parameters
Subcontractor	None
Contact person	Ms. Sirilak Wiriyaukaradecha
Phone	+66 2 411 2258 Ext. 171 and +66 82 212 2557
E-mail	eqammtmu@gmail.com

VH-EQAM | Virtual Blood Film Examination

The External Quality Assessment Scheme in Clinical Microscopy Virtual Blood Film Examination

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Digital blood smear (Wright-Giemsa stain)
Test(s)	Virtual blood film examination
Frequency	3 trials/year
Number of	2 samples
sample(s) / trial	
Performance	Consensus from participant and referee
Evaluation	Acceptable criterial: Exact match for qualitative
	parameters and consensus median for semi-quantitative and quantitative
	parameters
Subcontractor	None
Contact person	Asst. Prof. Dr.Chutipong Sukkanon
Phone	+66 2 411 2258 Ext. 171 and +66 82 212 2557
E-mail	eqammtmu@gmail.com

UC-EQAM | Urine - Cytohematology Proficiency

The External Quality Assessment Scheme in Clinical Microscopy

Urine - Cytohematology Proficiency

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Urine and blood smear photo
Test(s)	Urine sediment analysis
	Blood cell analysis
Frequency	4 trials/year (dispatch in the second week of February, May, August and
	November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from assigned values by
Evaluation	referee or participants consensus (80%)
	Acceptable criteria: MIS > 2.5
Subcontractor	None
Contact person	Mr. Noppawat Tankanin
Phone	+66 2 411 2258 Ext. 171 and +66 65 242 2660
E-mail	eqammtmu@gmail.com

EQAI: Syphilis serology

The External Quality Assessment Scheme in Clinical Immunology: Syphilis serology

Provider	Department of Clinical Microbiology and Applied
	Technology, Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (negative for HBsAg, Anti HCV, HIV-Ag, Anti-HIV, NAT
	(HIV/HCV) and inactivated at 56°C for 30 minutes)
Test(s)	1) Non-Treponemal Test
	2) Treponemal Test
Frequency	4 trial/year (dispatch in the first week of February, May, August and
	November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from 80% consensus of
Evaluation	participant response
	Acceptable criteria: MIS > 1
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and stability tests
Contact person	Mr. Suthee Woranuch
Phone	+66 2 441 4376 Ext. 2528 and +66 80 982 5570
E-mail	eqai.mahidol@gmail.com

EQAI: HBV serology

The External Quality Assessment Scheme in Clinical Immunology: HBV serology

Provider	Department of Clinical Microbiology and Applied Technology, Faculty of
	Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Phutthamonthon, Nakhon Pathom 73170
Sample	Human serum (Negative for Treponemal Ab, Anti HCV, HIV-Ag, Anti-HIV and
	inactivated at 56°C for 30 minutes
Test(s)	1) Hepatitis B surface antigen (HBsAg)
	2) Hepatitis B surface antibody (anti-HBs)
	3) Total Hepatitis B core antibody (anti-HBc)
	4) Hepatitis B e antigen (HBeAg)
	5) Hepatitis B e antibody (anti-HBe)
Frequency	4 trials/year (dispatch in the first week of February, May, August and
	November)
Number of	4 samples
sample(s) / trial	
Performance	Qualitative:
Evaluation	Misdentification index score calculated from participants consensus of at
	least 80%
	Acceptable criteria: MIS > 1
	Semi-quantitative:
	Z-score calculated from group median and normalized IQR
	Acceptable criteria: IZ scorel of less than 2
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and stability tests
Contact person	Ms. Warisara Pratibaram
Phone	+66 2 441 4376 Ext. 2529
E-mail	eqai.mahidol@gmail.com

EQAI: HCV serology

The External Quality Assessment Scheme in Clinical Immunology: HCV serology

Provider	Department of Clinical Microbiology and Applied Technology,
	Faculty of Medical Technology
	999 Phutthmonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (Negative for Treponemal Ab, HIV-Ag, Anti-HIV,
	HBs-Ag and inactivated at 56°C for 30 minutes
Test(s)	1) Anti-HCV antibody (anti-HCV)
	2) HCV antigen (HCV-Ag)
Frequency	4 trials/year (dispatch in the third week of February, May, August
	and November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from 80%
Evaluation	consensus of participant response
	Acceptable criteria: MIS > 1
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and stability tests
Contact person	Ms. Warisara Pratibaram
Phone	+66 2 441 4376 Ext. 2529
E-mail	eqaihcv.mtmu@gmail.com

EQAB

The External Quality Assessment Scheme in Bacteriology

Provider	Department of Clinical Microbiology and Applied Technology, Faculty of
	Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	1) Smear fpr gram stain
	2) Sputum smear acid fast bacilli stain
	3) Inoculated semi-solid agar for bacterial identification and susceptibility
	testing
Test(s)	1) Gram stain
	2) Acid fast bacilli stain
	3) Bacterial identification and susceptibility testing
Frequency	3 trials/year (dispatch in the third week of February, June and October)
Number of	2 samples
sample(s) / trial	
Performance	P-score calculated from the assigned values
Evaluation	Acceptable criteria: P < 1.96
Subcontractor	Bacteria Laboratory, 3 rd Floor Microbiology Building
	Siriraj Hospital, 2 Wanglang Road Bangkok, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Peerada Phuechpisut
Phone	+66 61 174 7884
E-mail	eqab.mtmu@gmail.com

List of Contributors

Board of Director

Asst. Prof. Dr. Chotiros Plabplueng Dean

Lecturer Dr. Lertyot Treeratanapiboon Deputy Dean

Asst. Prof. Dr. Prasong Khaenam Assistant Dean for Academic Services

Acting Head of Center for Standardization and

Product Validation

Asst. Prof. Dr. Theerawut Chanmee Head of the Department of Clinical Chemistry

Lecturer Dr. Prasit Mandi Head of the Department of

Community Medical Technology

Assoc. Prof. Dr. Aungkura Supokawej Head of the Department of

Clinical Microscopy

Asst. Prof. Dr. Rungrot Cherdtrakulkiat Head of the Department of Clinical

Microbiology and Applied Technology

Quality Advisor

Ms. Vanna Pengruangrojanachai

Center for Standardization and Product Validation

Asst. Prof. Dr. Prasong Khaenam Quality Manager

Statistic and IT Manager

Lecturer Dr. Mayuree Chanasakulniyom Lecturer

Mr. Parkbhum Kumjad Medical Scientist

Deputy Quality Manager

Ms. Chonnipa Pantakrud Scientist

Mr. Thitiwat Lohaphithak General Administration Officer

EQAC

Lecturer Dr. Mayuree Chanasakulniyom Coordinator

Mr. Jareanpon Julchoo Technical Manager

Ms. Prapaporn Thanaootarakul Medical Technologist

Ms. Chonnipa Pantakrud Scientist
Ms. Nongkanok Khanarat Scientist

Assoc. Prof. Dr. Sureerut Porntadavity Technical Advisor

EQACM

Dr. Mayuree Chanasakulniyom Coordinator

Mr. Jareanpon Julchoo Technical Manager

Ms. Chonnipa Pantakrud Scientist

Assoc. Prof. Dr. Sureerut Porntadavity Technical Advisor

EQAH

Mr. Jareanpon Julchoo Coordinator

Asst. Prof. Dr. Napat Songtawee Technical Manager

Asst. Prof. Dr. Thummaruk Suksrichavalit Operator
Asst. Prof. Dr. Theerawut Chanmee Operator
Ms. Nongkanok Khanarat Scientist

Assoc. Prof. Dr. Sureerut Porntadavity Technical Advisor

EQAT

Mr. Jareanpon Julchoo Coordinator

Asst. Prof. Dr. Thitikan Sitiwed Technical Manager

Asst. Prof. Dr. Theerawut Chanmee Operator

Ms. Nongkanok Khanarat Scientist

Assoc. Prof. Dr. Sureerut Porntadavity Technical Advisor

EQAP

Lecturer Dr. Prasit Mandi Coordinator

Asst. Prof. Dr. Rapeeporn Yaicharoen Technical Manager

Lecturer Dr.Chuleeporn Phanus-umporn Operator

Ms. Parichat Wijanphon Medical Technologist

Asst. Prof. Dr. Apilak Worachartcheewan Operator
Asst. Prof. Dr. Somchai Boonpangrak Operator
Asst. Prof. Dr. Likit Preeyanon Operator
Asst. Prof. Dr. Prasong Khaenam Operator
Asst. Prof. Dr.Pawared Ontong Operator
Lecturer Dr.Lertyot Treeratanapiboon Operator

Ms. Suparat Yencham

General Administration Officer

Mr. Akharawat Onsodtaweechai

General Administration Officer

Asst. Prof. Dr. Chumanee Lamom Technical Advisor

B-EQAM

Asst. Prof. Dr. Moltira Promkan Coordinator

Asst. Prof. Dr. Sumana Dakeng Technical Manager
Ms. Sirilak Wiriyaukaradecha Medical Technologist
Asst. Prof. Dr. Sumana Mas-Oodi Technical Advisor

H-EQAM

Assoc. Prof. Dr. Dalina Tanyong Coordinator

Asst. Prof. Dr. Sumana Dakeng Technical Manager

Ms. Sirilak Wiriyaukaradecha Medical Technologist

Assoc. Prof. Dr. Aungkura Supokawej Operator Asst. Prof. Dr. Moltira Promkan Operator Asst. Prof. Dr. Vichanan Yamkamon Operator Asst. Prof. Dr.Jitrada Phetfong Operator Asst. Prof. Dr. Chutipong Sukkanon Operator Lecturer Dr.Podchanart Wanitchakool Operator Lecturer Dr. Wasinee Kheansaard Operator Lecturer Dr. Piamsiri Jiramornimit Operator Ms. Varapon Malison Operator

Asst. Prof. Dr. Sumana Mas-Oodi Technical Advisor

VH-EQAM

Asst. Prof. Dr. Jitrada Phetfong Coordinator

Asst. Prof. Dr. Chutipong Sukkanon Technical Manager

Assoc. Prof. Dr. Aungkura Supokawej

Assoc. Prof. Dr. Dalina Tanyong

Operator

Asst. Prof. Dr. Sumana Dakeng

Operator

Asst. Prof. Dr. Vichanan Yamkamon

Asst. Prof. Dr. Moltira Promkan

Coperator

Lecturer Dr.Podchanart Wanitchakool

Decator

Coperator

Operator

Operator

Operator

Ms. Wrattya Aroontanee Medical Technologist
Ms. Varat Laohaunya Medical Technologist
Asst. Prof. Dr. Sumana Mas-Oodi Technical Advisor
Asst. Prof. Dr. Prasong Khaenam Statistical Advisor

UC-EQAM

Asst. Prof. Dr. Vichanan Yamkamon Coordinator

Asst. Prof. Dr. Moltura Promkan Technical Manager

Asst. Prof. Dr. Chutipong Sukkanon Operator

Mr. Noppawat Tankanjn Medical Scientist
Asst. Prof. Dr. Sumana Mas-Oodi Technical Advisor

EQAI: Syphilis

Assoc. Prof. Dr. Patchanee Chootong Coordinator

Asst. Prof. Dr. Donporn Riyapa Technical Manager
Mr. Suthee Woranuch Medical Technologist
Assoc. Prof. Dr. Chaniya Leepiyasakulchai Technical Advisor

EQAI: HBV

Assoc. Prof. Dr. Chaniya Leepiyasakulchai Coordinator

Asst. Prof. Dr. Somying Loharungsikul Technical Manager
Ms. Warisara Pratibaram Medical Scientist

EQAI: HCV

Assoc. Prof. Dr. Chaniya Leepiyasakulchai Coordinator

Lecturer Dr. Witchayapon Kamprom Technical Manager

Ms. Warisara Pratibaram Medical Scientist

EQAB

Asst. Prof. Dr. Rungrot Cherdtrakulkiat Coordinator

Assoc. Prof. Dr. Theeraphon Piacham

Assoc. Prof. Dr. Wijit Wonglumsom

Asst. Prof. Dr. Rungrot Cherdtrakulkiat

Technical Manager (EQAB: AFB)

Technical Manager (EQAB: AFB)

Asst. Prof. Dr. Kanokwan Kittiniyom Technical Manager (EQAB: Identification)

Assoc. Prof. Dr. Warawan Eiamphungporn

Technical Manager (EQAB: AST)

Assoc. Prof. Dr. Sakda Yainoy

Technical Manager (EQAB: AST)

Ms. Peerada Phuechpisut Medical Technologist

Ms. Thitaree Sakdachansawat Scientist