FACULTY OF NEDICINE KING Mongkut's Institute of Technology Ladkrabang

ANNUAL REPORT - YEAR 2019

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Message from President

It is our time to shine and we do so with every step of the Faculty of Medicine at KMITL. As Thailand's only International Faculty of Medicine, KMITL is pushing the boundaries of distant dreams and turning them into reality within our grasp. Our focus is put mainly towards capitalizing on our young medical students, faculty staff and instructors to lead the way in developing medical innovations that will help alleviate the growing burden of a global aging society as well as a constantly changing landscape in healthcare. I am proud of the momentous steps that the leadership of the Faculty of Medicine, KMITL have taken towards not only medical education but research excellence as well.

I thank you for your enduring support of the Faculty of Medicine at KMITL and assure you all of the Faculty's ability to revolutionize our nation, the region and the world.

Prof. Dr. Suchatvee Suwansawat President King Mongkut's Institute of Technology Ladkrabang





Message from Dean

Now in our second year, we have worked extremely hard to bring our vision and goals to fruition. With the help of our dedicated instructors and staff, I am pleased to report that the foundations for developing 21st century global doctors have successfully been forged. Our Faculty takes pride in our international curriculum which highlights a 360° global outlook. From inviting experts in various fields including Women's Rights, AI, Pharmaceutics to Public Administration and many more, we have been able to introduce diverse and keen global perspectives to our young students with one thing in mind—humanity in today's highly competitive healthcare environment.

On an academic note, we have accelerated the most critical components of preclinical training to enhance students' knowledge and basic lab skills. This initiative to introduce the most relative and practical elements early on proves that medical education in Thailand can still be improved upon to match the global trends that drive the society into the future. Finally, our students' welfare is of the utmost of importance as we have a dedicated "house" system where our faculty and staff are assigned to five respective houses to nurture, support and guide their students throughout the entirety of their medical career here at the Faculty of Medicine, KMITL. The success we have achieved over the previous year has been the result of our commitment to academic, humanities, and innovation excellence. On behalf of the entire Faculty, we are looking forward to the year to come. We've got big plans and cannot wait for what all that is on the horizon.

Prof. Anan Srikiatkhachorn, M.D. Dean Faculty of Medicine, KMITL

Vision & Mision

Our vision at the Faculty of Medicine at KMITL is to be a global medical school focusing on technology and innovation in health care.

Our mission is then 1) to provide medical education of international standard and 2) to create technology and innovation for better health care of the nation.



Core Values

At the Faculty of Medicine, KMITL, our core values are simple — to develop the most global 21st century doctors as we can. We do this by utilizing our medical expertise with our K-M-I-T-L.

Through these 5 elements, we harness the power of our teaching staff and administrators to deliver the most comprehensive medical education there is in the nation. We pride ourselves on putting the students first and allowing each and every voice to be heard.

Knowledge — Morality — Innovation — Technology — Leadership



Educational Outcomes

Global standards set the trend for our global outcomes which are:

- 1. Professional competencies required for being physicians of the international standard.
- 2. 21st century skills and being medical inventors or innovators.
- 3. Critical thinkers and capable biomedical researchers.
- 4. Global doctors and world citizens.

Our educational outcomes are achieved through our innovative approach:

MD@ KMITL - THE APPROACH



Transformative Learning

fact memorization \rightarrow searching, analysis, and synthesis of information for decision making seeking professional credentials \rightarrow achieving competencies for effective teamwork in health systems non-critical adoption of educational models \rightarrow creative adaption of global resources to address local priorities



isolated \rightarrow harmonized education and health systems stand-alone institutions \rightarrow networks, alliances, and consortia inward-looking institutional preoccupations \rightarrow harnessing global flows of educational content, teaching resources, and innovations

Organizational Chart



Prof. Anan Srikiatkhachorn, MD Dean, Faculty of Medicine, KMITL



Assoc. Prof. Prasert Trivijitsilp Associate Dean Administrative Affairs



Assoc.Prof. Pornprot Limprasert, MD, PhD Assistant Dean Research Affairs



Asst. Prof. Thanyaphong Na Nakorn, MD, PhD Associate Dean Academic Affairs



Thipawan Ruangrit, MD Assistant Dean Student Affairs



Anawat Sermsawan, MD Associate Dean Health Services



Nada Pitabut, PhD Assistant Dean Student Affairs



Administration Medical services

Nurse and public health

Our diverse staff is comprised of medical doctors (MD), researchers (PhD) and a skilled set of experts and administrative professionals. We require our staff to have international training or working experience and encourage everyone to constantly develop their skills, both research and teaching, to ensure the highest output.

Staff Statistics and Staff Development



Research CLUSTERS

Research is one of our specialties and with 6 different research clusters, our staff and researchers aim to uncover the latest advances in a variety of medical fields.

Division of Clinical Investigation and Therapeutics

This cluster evaluates the benefits and risk of drugs, devices, biological substances in treatment to seek out the most effective medical products for our society.



From left to right:
 Prasert Trivijitsilp, MD, Associate Professor
 Weerachat Sompong, MT, PhD
 Wannisa Khamaikawin, PhD
 Pimsumon Jiamboonsri, PhD



Division of Cognitive Sciences and AI Medicine

Studying the mind, intelligence and behavior, this cluster examines AI and how transformation information can be applied to untap our mental abilities.

From left to right:1) Anan Srikiatkhachorn, MD, Professor2) Natte Raksadawan, MD, Assistant Professor

- 3) Poonnada Jiraanont, PhD
- 4) Ukkrit Jansri, MSc

Division of Genetics and Molecular Medicine

This cluster studies the advances in genetics and molecular medicine to identify genetic errors of diseases, in hopes of developing corrective molecular intervention.

From left to right:

- 1) Pornprot Limprasert, MD, PhD, Associate Professor
- 2) Wikrom Wongpaiboonwattana, PhD
- 3) Chaiyos Sirithanakorn, PhD
- 4) Veerayuth Kittichai, PhD
- 5) Piyapat Pin-on, PhD
- 6) Ratakorn Srisuttee, PhD



Division of Medical Device and Digital Health Care

Health care is turning towards a digital approach for more personalized and precise touch. This cluster pushes the boundaries of medicine and technology.



From left to right:
1) Anawat Sermsawan, MD
2) Thipawan Ruangrit, MD
3) Kriangsak Khownium, PhD
4) Paisal Puengpipattrakul, MD



From left to right:1) Subenya Injampa, DVM, PhD2) Prapaporn Boonma, PhD3) Yada Tansiri, PhD

Division of Microbiology and Immunology

The body's immune system is fragile and this cluster focuses its research on the microorganisms that causes deadly diseases to help find long lasting cures.

Division of Pathobiology and Laboratory Medicine

This integral cluster is aimed at enhancing laboratory testing services of tissue, fluid or other specimens to aid physicians' diagnostic and therapeutic capabilities.



From left to right:1) Thanyaphong Na Nakorn, MD, PhD, Assistant Professor2) Nada Pitabut, PhD

3) Nitchakarn Noranate, PhD

Quality Assuarance

We have made it our job to uphold the highest quality assurance levels to meet the national-level as well as international quality standards.



Major Academic Accomplishments and Strategic Partnerships

Over the past year, we have surpassed even our own expectations. Here is a shortlist of the many achievements the Faculty of Medicine at KMITL has accomplished.



STUDENT ENHANCEMENT

From summer courses in Chinese Traditional Medicine, short film festivals to international excursions our students have had many opportunities to grow outside their experience base. As we have signed an MOU with the National Yang-Ming University School of Medicine, Taiwan, our students have gotten to explore new cultures and engage in different medical knowledge exchanges. We have even brought our students on an outing to Angkor Wat in Cambodia as a part of their World Culture Course to understand ancient civilizations and how they have shaped our medical landscape as we know it. Our efforts to develop our students into global citizens also means to embrace our own local Thai traditions. As a result, the students organized and arranged a traditional Thai New Year (Songkran) celebration to pay respect to the instructors and showcase our Thai heritage for the world to see.



Songkran Festival

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SOFT CADAVER LABORATORY

Our 2nd year students began their human physiology studies and training this year. First, students were taught about the body and its anatomical features on our synthetic cadavers at the Faculty. Once having a solid grasp, we then prepared a special Soft Cadaver Laboratory held at the Chulalongkorn Cadaver Lab for the students to gain first hand human dissection skills on real cadavers. Normally, traditional programs will introduce this activity later on in the 3rd or 4th year of medical studies.

However, our international curriculum selects and introduces the most relevant and useful medical training activities for our students according to the most up-to-date medical trends. This is just one example of the accelerated and innovative teaching that occurs at MD@KMITL. Our goal is to offer our students the most valuable experiences along with developing the most essential clinical laboratory skills as possible to be one step ahead of the rest.



KMITL Clinic is running at full capacity

Our team has worked very hard to establish a more standardized order of operations in our KMITL Clinic. With the goal of serving all KMITL staff and supporting communities, we have turned our clinic into a hub for first-line medical treatment. Our highly qualified physicians and nurse practitioners are ready at the willing to improve quality of healthcare for our university.



MOU signing with National Yang-Ming University School of Medicine, Taiwan

We have partnered with this prestigious Taiwanese medical program to offer a two-way knowledge sharing opportunity to our students and staff. Our students attended a summer course in Traditional Chinese Medicine and gained a greater appreciation for the dynamic medical approaches that National Yang-Ming University School of Medicine had to offer.



MD@KMITL STUDENT EXCELLENCE COMES FIRST

Student Statistics & Continued Student Development

Our student body is made up of a diverse group of young and talented individuals from around the country and the world. Most students are accepted from high school level while others have completed their Bachelor's Degree and wish to pursue their medical doctor degree from our Faculty. We welcome the different academic and personal backgrounds and identify this eclectic mix of students as one of our many strengths.

To touch briefly on the 1st year curriculum, MD@KMITL emphasizes heavily on global skills including, English language and communication, medical professionalism, ethics, microbiology and other basic sciences. In the Introduction to Medical Profession course, we expose our freshmen to the different perspectives of the world of 21st century medicine.

2019 Total Number - 32 Students





For their final presentations, student groups are tasked to develop short films to represent a topic of interest. We hold an annual MD@KMITL Short Film Festival every year to showcase the concepts learned from the previous term but from the students' perspective. In addition, we also introduce scientific writing skills to our students in order for them to gain the basic knowledge of what is to be expected of them in the years to come as young medical researchers.

All in all, these many courses allow our students to share their thoughts and ideas with instructors and peers while forging a strong open-minded learning style to help them develop into well rounded and mindful students.



SHORT FILM FESTIVAL



mo ki ta

HEAR ME OUT

Ashwin Chawla Asci Jaruchanapongtorn Celine Johnsen Geoffery Whyte Pasiree Arunmanakul Ramita Tharincharoen Sireeton Kittijarukumjon Thunchanok Naowavathong The doctor-patient relationship has been and remains a keystone of care: the medium in which data are gathered, diagnoses and plans are made, compliance is accomplished, healing, patient activation, and support are provided. This film describes a patient with a rare and difficult to diagnose disease who has been seeking medical help. She experiences poor medical attention mainly due to the lack of good doctor-patient relationship. Her condition gets worse. Finally she finds a good doctor who is willing to listen and work with the patient.

MOKITA

Kamolchanok Panichsakul Kanisorn Thongpitukthavorn Nicha Asavapapol Nissara Meenatoree Shanya Watthanaphothithorn Sirin Riewluang Titee Jaruchanapongtorn An individual who faces challenges in accepting that one may need help is exposed to barriers to getting professional help. Money issues, worries about people's perception, and other external factors contribute to the frustration. With overbearing parents and their harsh words, the individual feels discouraged from following one's academic dreams which leads to a letting-go of all sense of worth and severe anxiety about how other people see them. Digging down into seclusion, we witness how good friends and true friendship can help the individual open up and share feelings which ultimately leads to a brighter outlook for all.



STEP THROUGH TIME

Chanyapat Pattansuk Chatchaya Lookhanumanjao Nimit Songtanin Pichaya Pichaironarongsongkram Putthipong Visaruthamrongkul Ramida Jantawat Thaanahthorn Meesaengtham Thaanaphorne Meesaengtham Medicine and technology develops hand in hand. Without the integration of innovative technology, the field of medicine will be at a standstill. Yet doctors are not limited to waiting for others to invent new things. Equipped with the necessary knowledge and skills of a 21st century doctor, we will make a difference. This film emphasizes the importance of technology in the field of medicine in improving the ability of medical professionals in treating patients. However, medical practitioners must also maintain a high degree of professionalism for medical practitioners to benefit from the integration of technology into the field of medicine.



FADED

Arvin Tantipornsin Bralee Somyarak Kantiya Wiwatwanont Korapin Phatanodom Natcha Thongplakao Parisa Sukheepod Patarakorn Chaidechaluk Vimonnat Purungrit The medical profession is a field which bears an excessive level of stress due to high responsibility as doctors who deal with the matter of life and death of human-beings. High demands, competitiveness, long hours of work, and the lack of sleep all contribute to the increasing risk of mental health deterioration. The number of physician suicides is more than twice that of the general population. This film uncovers the overlooked issues, as a medical doctor, whose job is to heal, also needs healing too.

SPECIAL LECTURES & SEMINAR

We believe in exposing our students and instructors to a wealth of external knowledge by inviting the world's top experts in their respective fields in medicine and beyond to help offer a more global perspective on current advancements and trends in our society.







RESEARCH TALK

Our ability to gather different industry leaders to share and synergize knowledge is an added value to the Faculty.

OPEN HOUSE

Our Open House is an annual event where the Faculty invites prospective students and their parents to live the life of a MD@KMITL student.

With an informative section and a faculty tour, visitors are able to connect with instructors and administrators for an exclusive experience.

Faculty of Medicine, King Mongkut's Institute of Technology Ladkrabang cordially invites you to join our

OPEN HOUSE

December 10, 2018

Venue: Faculty of Medicine, King Mongkut's institute of Technology Ladkrabang, 1 Chalongkrung Road, Ladkrabang, Bangkok 10520 Thalland

Time	Activity
08.30	Registration
09.30	Welcome #ddress • Anan Srikiatkhachorn, MD Dean for Academic Affairs, Faculty of Meaksine, KMITL
09.45	Teaching and learning at MD⊜KMITL • Thanyapong Na Nakorn, MD PhD Associate Dean for Academic Affairs, Faculty of Medicine, KMITL
10.15	MD@KMITL-BMA collaborative network • Prasent Trivijitsilp, MD Associate Dean for Administrative Affairs, Faculty of Medicine, KMITL • Yolchai Bongjinsair, MD Director, Skindharn Merpilal, Department of Medical Service, BMA
10.45	Student life in MDBXMITL • Students representatives
11.00	Campus tour FAUUEDICW
12.00	Adjourn



















FACULTY GOALS

For the immediate future, the Faculty of Medicine at KMITL continues along the pathway towards preparing our medical students for success in all they do. We also will take on a more integral role in our surrounding community with enhanced health care facilities at our KMITL Clinic along with improving our research capabilities with more interdisciplinary collaborations from other key faculties within our university along with industry partners.

FUTURE STUDENT DEVELOPMENT 2020-2021

Heading into Year 3, we are preparing our 3rd-year students for their first of three National License Examinations. We will continue to challenge and guide all of our students to a better understanding of their role as a future physician in Thailand and abroad as well as their impact they have in global 21st century healthcare.

Our strengths are only getting better and we look forward to the journey ahead.





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