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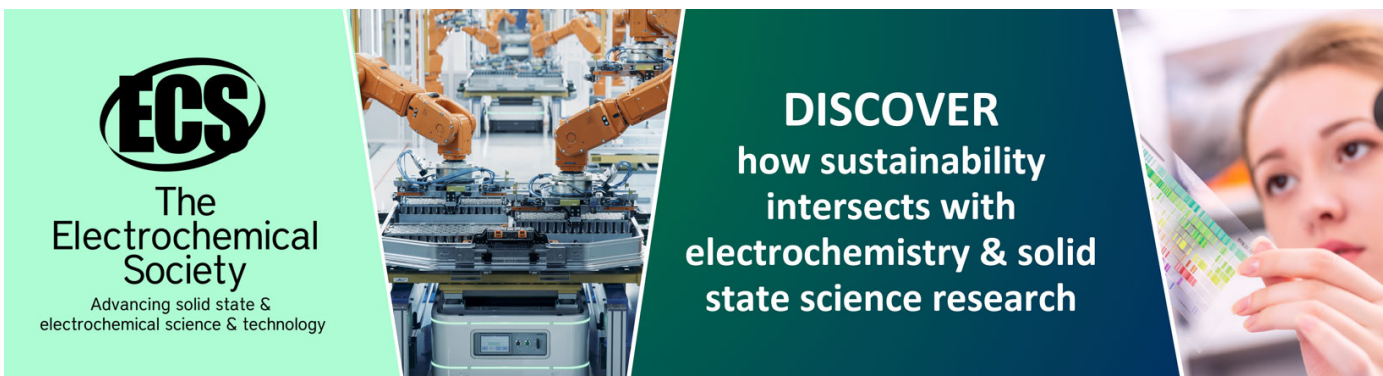
The 1st International Conference on Tropical
Medicine and Infectious Diseases (ICTROMI)
Faculty of Medicine Universitas Sumatera Utara in
conjunction with The 23rd National Congress of
The Indonesian Society of Tropical and Infectious
Diseases Consultant and The 18th Annual
Meeting of Internal Medicine Department Faculty
of Medicine Universitas Sumatera Utara

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Message from Conference Chair

Tropical Medicine and Infectious Diseases remain huge global health problems especially in Southeast Asia, including Indonesia. Moreover, climate change and million people travelling across the globe lead to higher risk in infectious diseases. The world indeed faces those challenges, thus, we are urged to improve and update our knowledge and skill, as well as to collaborate with colleagues from another fields.

The 1st International Conference on Tropical Medicine and Infectious Disease (ICTROMI), which was held by Faculty of Medicine Universitas Sumatera Utara in Medan, Indonesia, from 15th-18th November 2017, encompassed all of the fields in Tropical Medicine and Infectious Diseases with special attention being paid to latest diagnostics and management to social and environment impact. In conjunction with this International Conference, two scientific events also took part: The Indonesian Society of Tropical and Infectious Diseases Consultant (ISTIC), one of the leading subspecialty associations in Indonesia, conducted its 23rd National Congress, while the Department of Internal Medicine as the part of Faculty of Medicine, Universitas Sumatera Utara, with its 18th Annual Meeting, presented recent updates from various subspecialty topics.

This conference covered state-of-the-art scientific presentations, being delivered by both well-known international and national speakers, providing a forum to share the latest research, exchanging the new emerging knowledge, discussing the recent problems and challenges especially in Internal Medicine, Tropical Medicine and Infectious Disease, as well as discussing the future development to provide a network opportunity for clinicians, researchers and experts who work in those fields. The Organizing Committee received a large quantity of articles for presentations, many of which were of a very high quality. The presented papers will be published in the IOP Conference Series : Earth and Environmental Science (EES), indexed in Scopus as well as in Conference Proceedings Citation Index – Science (CPCI-S) of Thomson Reuters-Web of Science, GeoBase, and so on.

We are very grateful to the authors for their great enthusiasm. We also thank the reviewers and editors for their hard work, also to all speakers-particularly the keynote speakers from abroad, and to the delegates for their contribution and participation, and finally to all members of the Organizing Committee for their dedication. We believe that the 1st ICTROMI offered much to see, learn and take home as long –lasting memories.

Harun Rasyid Lubis

Chairman

Yosia Ginting

Co-chairman

Preface

The 1st International Conference on Tropical Medicine and Infectious Diseases (ICTROMI), in conjunction with The 23rd National Congress of The Indonesian Society of Tropical and Infectious Diseases Consultant (ISTIC) and The 18th Annual Meeting of Internal Medicine Department, Faculty of Medicine, Universitas Sumatera, was a marvelous academic event that provided opportunities for the delegates to assembly, and also to exchange new ideas and application experiences focused in the field of Tropical Medicine and Infectious Diseases.

With the theme “Towards Better Diagnostics and Patient Management”, it bestowed a forum for clinicians, scientists, medical professionals, researchers, scholars and also decision makers to present and discuss their research works, innovation, experience and expertise, opinion and problem solving techniques or suggestions in all issues in Tropical Medicine and Infectious Diseases along with its social and environmental impact, and Internal Medicine field. From a huge pile of papers that were sent to us, there are 228 selected articles after passing the strict peer-reviewed process. These 228 articles will be published in the conference proceedings, and they cover various topics; namely Tropical Medicine and Infectious Diseases, Infection and Prevention Control, Nephrology, Cardiology, Hematology and Oncology, Endocrinology, and many more of which related to Internal Medicine that are listed in the Table of Contents.

We would like extend our best gratitude to the Organizing Committee for their trust and support, and to the members of reviewers for their kind and dedicated assistance in reviewing the papers. Finally, we hope that this conference proceedings will not only give advantages to the delegates, but also grant a positive contribution to the academic and medical world.

The Editors

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ICTROMI 2017



Faculty of Medicine, Universitas Sumatera Utara



The Indonesian Society of Tropical and Infectious Diseases Consultant (ISTIC)



Department of Internal Medicine, Faculty of Medicine, Universitas Sumatera Utara

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THE CONFERENCE PHOTOGRAPHS



1. A keynote lecture



2. Rector, dean, chair persons and keynote speakers at the opening ceremony



3. A speaker at the symposium



4. An audience was asking a question to the speaker



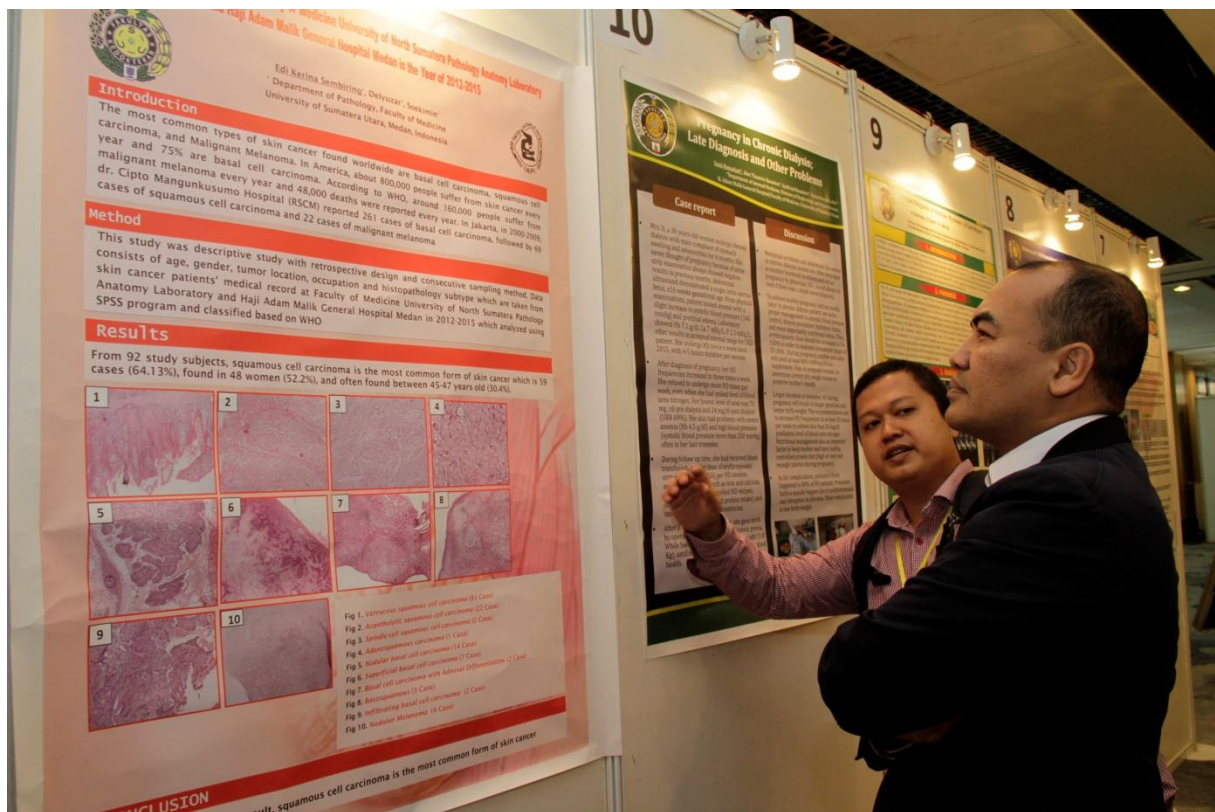
5. Discussion session



6. The oral presentation



7. A judge was evaluating the presentation delivered by an author



8. A judge and an author at a poster presentation session



9. Poster presentation session



10. Hands-on at ultrasound workshop



11. The Organizing Committee and all keynote speakers



12. The Indonesian Society of Tropical and Infectious Diseases Consultant (ISTIC)



**13. Department of Internal Medicine, Faculty of Medicine,
Universitas Sumatera Utara**

Faculty of Medicine, Universitas Sumatera Utara : An Overview

The Faculty of Medicine, Universitas Sumatera Utara (USU) is one of the oldest faculties of medicine in Sumatera Island, Indonesia, built in 1952. Its first name was Fakultas Kedokteran, Universitas Sumatera Utara. Visions of Faculty of Medicine is the forefront in medical educations towards center of excellence in tropical medicine and oncology in 2020. Medical science in the of Faculty of Medicine USU focuses in education, research, and community service. The Faculty of Medicine's programs are Bachelor, Master, Doctoral, Specialist, and Sub-specialist programs in numerous medical science areas. It has several teaching hospitals, such as Haji Adam Malik General Hospital (the major tertiary teaching hospital), Universitas Sumatera Utara Hospital, Dr. Pirngadi General Hospital, and some other satellite hospitals which are located both in Medan and outside the city. There are many collaborations with local and overseas institutions or associations. After the 65th years experience in medical education, the Faculty of Medicine will remain a center of excellence in Tropical Medicine and Oncology.



Faculty of Medicine, Universitas Sumatera Utara in 1952



Faculty of Medicine, Universitas Sumatera Utara in 2017



H. Adam Malik General Hospital



Universitas Sumatera Utara Hospital



Dr. Pirngadi General Hospital