



Update on Management, Prevention, and Control  
of Infectious Diseases in the Era of  
Antimicrobial Resistance

# ABSTRACT BOOK

The 1<sup>st</sup> International Scientific Meeting on  
Clinical Microbiology and Infectious Diseases  
(ISM-CMID),  
10<sup>th</sup> National Congress of Indonesian Society  
for Clinical Microbiology (KONAS-PAMKI),  
12<sup>th</sup> National Symposium-Indonesian  
Antimicrobial Resistance Watch  
(NS-IARW)

October 10<sup>th</sup> - 14<sup>th</sup>, 2018  
Surabaya - East Java, Indonesia

SUNDAY, OCTOBER 14<sup>th</sup> 2018

| TIME          | PARALEL SYMPOSIUM (PS)  | PARALEL SYMPOSIUM (PS)  |
|---------------|---|---|
| 11:00 – 12:15 | <p>(PS-1)<br/>ISYANA ROOM</p> <p>Antimicrobial Resistance<br/>Moderator: dr. Hart Paraton, Sp.OC(K)</p> <ul style="list-style-type: none"> <li>• Speaker 4 : Dr. Bambang Pudjo S, Sp.An.KIC<br/>Sub Topic : Update on Management of Sepsis in the Era of AMR</li> <li>• Speaker 5 : dr. Anis Karuniawati, Ph.D., Sp.MK(K)<br/>Sub Topic : The pattern of Fosfomycin and antibiotic in Indonesia</li> <li>• Speaker 6 : dr. Franz J.V.Pangalia, SpD-KIC<br/>Subtopic : Role of Fosfomycin in Management of MDR Causative Sepsis</li> </ul>   | <p>(PS-2)<br/>RAJASA ROOM</p> <p>Update on Tuberculosis<br/>Moderator: Prof. Dr. NI Made Meraniasih, dr., MS., Sp.MK(K)</p> <ul style="list-style-type: none"> <li>• Speaker 7: Dr. Soedarsono, dr. SpP (K)<br/>Sub topic: Management of MDR TB</li> <li>• Speaker 8: Prof. Dr. NI Made Meraniasih, dr., MS., Sp.MK(K)<br/>Sub Topic : TB Diagnostic Development</li> <li>• Speaker 9 : Manabu Ato, MD., Ph.D<br/>Sub Topic : TB vaccine</li> <li>• Speaker 10 : Matsunoto Sohichi, Ph.D.<br/>Sub topic : Development of Control Strategies Against Tuberculosis and Host Immune Responses to It</li> </ul> |
| 12:15 – 13:15 | <p>LUNCH<br/>(VOYER)</p> <p>PARALEL SYMPOSIUM (PS)</p>  | <p>(PS-4)<br/>RAJASA ROOM</p> <p>Management and Prevention of Infection in Hospital<br/>Moderator: Dewi Santosaningih, dr., M.Kes., Ph.D</p> <ul style="list-style-type: none"> <li>• Speaker 14: Dr. Lynda Harani, dr., Sp.BP(K)<br/>Sub Topic : Management of Wound Infection</li> <li>• Speaker 15: Juliette Severin, MD., Ph.D<br/>Sub Topic : National Regulation on Prevention and Control of Infection in The Netherland</li> <li>• Speaker 16 : Dewi Santosaningih, dr., M.Kes., Ph.D<br/>Sub Topic : MRSA Eradication in Clinical Setting</li> </ul>   |
| 13:15 – 14:30 | <p>(PS-3)<br/>ISYANA ROOM</p> <p>Update in Clinical Microbiology<br/>Moderator: Dr. Sunarjati Sudigdo Adl, dr., MS., Sp.MK(K)</p> <ul style="list-style-type: none"> <li>• Speaker 11: Prof. Amin Soebandio, dr., Ph.D., Sp.MK(K)<br/>Sub Topic : Evaluation Of Antibiotic Effectiveness Through Biomarker Monitoring</li> <li>• Speaker 12 : Dr. Sunarjati Sudigdo Adl, dr., MS., Sp.MK(K)<br/>Sub Topic : Bad News from Fungi: Emerging multidrugs-resistant species</li> <li>• Speaker 13 : Satheesh Thangaraj, Ph.D<br/>Sub Topic : Update on Diagnosis in Clinical Microbiology</li> </ul> | <p>(PS-5)<br/>ISYANA ROOM</p> <p>Management of Fungal Infection<br/>Moderator: Lindawati Alimarsjiono, dr., M.Kes., Sp.MK(K)</p> <ul style="list-style-type: none"> <li>• Speaker 22 : dr. Bambang Wahjupratno, Sp.An.KIC<br/>Sub Topic : Management of fungal Infection in complex patients</li> <li>• Speaker 23 : Dr. Mardastuti, dr., Sp.MK(K)<br/>Sub Topic : Recent Diagnosis and Its Problem for Invasive Mycosis in Indonesia</li> </ul>  |
| 14:30 – 14:45 | COFFEE BREAK  |   |
| 14:45 – 17:00 | FREE ORAL PRESENTATIONS (O)   |   |
| 19:00 – END   | <p>(0-1)<br/>WILAYA ROOM</p> <p>AMR and Pci Bacterial Infection I<br/>WELCOME DINNER</p>  | <p>(0-2)<br/>RAJASA ROOM</p> <p>Viral, Fungal Infection and Others I</p>  |

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| TIME          | EVENTS   |
|---------------|--|
| 08:00 – 08:45 | <p>MEET THE EXPERTS 1 (ME-1)<br/>ISYANA ROOM</p> <p><i>Corynebacterium diphtheriae</i>: Management of Epidemic: from Microbiology Aspect to Patient Management</p> <p>Speaker 17 : Dr. Dominicus Husada, dr., DTW&amp;H, M.Sc., SpAK(I)</p>  |
| 08:45 – 10:15 | <p>MEET THE EXPERTS 2 (ME-2)<br/>RAJASA ROOM</p> <p>Emerging and Reemerging Viral Infections (Influenza A virus, SARS, MERS, etc) and Its Management (guidelines)</p> <p>Speaker 18: Dr. Laksmi Wiwandari, dr., SpP(K)</p>   |
| 10:15 – 10:30 | <p>PLENARY LECTURE 2 (PL-2)<br/>(ISYANA ROOM)</p> <ul style="list-style-type: none"> <li>• Speaker 19 : Juliette Severin, MD., Ph.D<br/>Topic : Antibiotic Policy in Netherland and Implementation in Clinical Setting</li> <li>• Speaker 20 : Prof. Toshiro Shirakawa, Ph.D<br/>Topic : Update of Trends and Issue on Bacterial Resistance in Japan and Asia Pacific Region</li> <li>• Speaker 21: Prof. Kazutomi Shimizu, Ph.D<br/>Topic : Update on Avian Influenzae</li> </ul>                 |
| 10:30 – 11:45 | <p>COFFEE BREAK</p> <p>PARALEL SYMPOSIUM (PS)</p> <p>(PS-5)<br/>ISYANA ROOM</p> <p>Management of Fungal Infection<br/>Moderator: Lindawati Alimarsjiono, dr., M.Kes., Sp.MK(K)</p> <ul style="list-style-type: none"> <li>• Speaker 22 : dr. Bambang Wahjupratno, Sp.An.KIC<br/>Sub Topic : Management of fungal Infection in complex patients</li> <li>• Speaker 23 : Dr. Mardastuti, dr., Sp.MK(K)<br/>Sub Topic : Recent Diagnosis and Its Problem for Invasive Mycosis in Indonesia</li> </ul> |
| 11:45 – 12:00 | <p>(PS-6)<br/>RAJASA ROOM</p> <p>Viral Infection<br/>Moderator: Prof. Maria Lucia Inge Lusida, dr., M.Kes., Ph.D., Sp.MK(K)</p> <ul style="list-style-type: none"> <li>• Speaker 24: dr. Leni Karina, Sp.A<br/>Sub Topic : HIV Management in Pediatric</li> <li>• Speaker 25 : Takako Utsumi, PhD<br/>Sub Topic : Viral Diarrhea</li> <li>• Speaker 26: Dr. Junnastuti, dr. M.Kes<br/>Sub topic: Viral Hepatitis B Infection</li> </ul>  |
| 12:00 – 13:00 | <p>PLENARY LECTURE 3 (PL-3)<br/>(ISYANA ROOM)</p> <p>Speaker 27: Prof. Dr. Eddy Bagus Wasito, dr., MS., Sp.MK(K)<br/>Topic: Medical Ethics in the Era of Globalization</p>   |
| 13:00 – 15:30 | <p>FREE ORAL PRESENTATIONS (O)</p> <p>LUNCH</p>  |
| 15:30 – 15:45 | <p>(0-1)<br/>ISYANA ROOM</p> <p>AMR and Pci Bacterial Infection II<br/>Result Announcement of 10<sup>th</sup> National Congress of Indonesian Association for Clinical Microbiology (PAMKI) 2018 Results and</p>   |
|               | <p>(0-2)<br/>RAJASA ROOM</p> <p>Viral, Fungal Infection and Others II<br/>Greetings Speech of The New Chairman of PAMKI 2018 - 2022</p>  |



## Identification of Pathogen *Leptospira* Bacteria Using Three Specific Primer PCR Methods from White Water Rafting River Path in Bali

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### ABSTRACT

Bali is famous as a tourist destination for both domestic and foreign tourists. One of the attractions and tourists activities that are quite popular is water sport river rafting tours on several rivers with heavy currents in Bali. There are several rivers that are often used as rafting routes in Bali, especially the Ayung river, Telagawaja River and Unda river. Leptospirosis is a zoonotic disease caused by a bacterial infection, which is spiral shaped from the genus *Leptospira*, and can attack animals and humans. *Leptospira* bacteria can live in fresh water, ditch water and urine for about a month. Indirect transmission can occur through puddles, rivers, lakes and sewers which is contaminated with animals urine such as rats. The purpose of this study is to detect and identify the presence of pathogenic *Leptospira* bacteria from white water rafting river path in Bali using three specific primer PCR methods. The collection of river water specimens is carried out at five sampling points from the three main river paths, namely the Ayung River, the Unda River and the Telaga Waja River. The water samples that has been homogenized, centrifuged and DNA extracted are then examined by PCR method to detect specific genes that can differentiate leptospira from pathogenic and saprophytic species using three specific primers designed from the 16S rRNA gene, namely: Lepto1(F) = 5'GTCAAACGGGTAGCAATACC 3', Lepto2(R) = 5'GTCCGCCTA CACACCCTTTAC3'dan Lepto3(F)=5'AATACTGGATAGTCCCGAGAG GTC3'. For the isolation Specific genes from water samples with stages starting from the DNA extraction stage, amplification by PCR and DNA detection by electrophoresis with 2% agarose gel. From the PCR examination, the PCR results showed that there were no water samples that showed the presence of a band at 503 bp or 409 bp, so that it can be concluded that is not detected the presence of pathogenic and saprophytic *Leptospira* bacteria from the samples water.

**Keywords** : *Leptospira* pathogens, river, white water rafting, PCR