

# PROGRAM BOOK

INTERNATIONAL SYMPOSIUM  
Integrating Research  
&  
Action on Dengue



FACULTY OF MEDICINE  
UNIVERSITAS GADJAH MADA  
Yogyakarta, 29-30 November 2013



**INTERNATIONAL SYMPOSIUM**  
**Integrating Research**  
**&**  
**Action on Dengue**

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**Program Book**

**International Symposium 2013:  
Integrating Research & Action on Dengue**  
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## Table of contents

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|   |    |
|---|----|
| Front matter .....                              | 1  |
| Table of contents .....                         | 3  |
| Welcome message .....                           | 4  |
| General information .....                       | 6  |
| Speakers .....                                  | 7  |
| Moderators .....                                | 13 |
| About the symposium .....                       | 15 |
| Program .....                                   | 16 |
| Oral presentation .....                         | 18 |
| Poster presentation .....                       | 20 |
| Abstracts .....                                 | 23 |
| About Yogyakarta .....                          | 37 |
| Welcome to Yogyakarta! .....                    | 37 |
| History .....                                   | 37 |
| Tugu Monument: The Landmark of Yogyakarta ..... | 38 |
| Weather .....                                   | 39 |
| Currency .....                                  | 39 |
| Electricity .....                               | 39 |
| Handicrafts .....                               | 40 |
| Shopping centers .....                          | 41 |
| Interesting places .....                        | 42 |
| Further information .....                       | 49 |
| Symposium Committee .....                       | 50 |

## General information

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### **Times and locations**

Time : Friday and Saturday, 08.00 – 16.00

Venue : Auditorium, 1<sup>st</sup> floor, Faculty of Medicine, Universitas Gadjah Mada

### **Symposium website**

All information regarding the symposium could be accessed at

<http://symposium.fk.ugm.ac.id/dengue>

### **Conference Secretariate:**

Office : +62 274 560300 ext. 300/304

Fax. : +62 274 631186

E-mail : [symposium.fk@ugm.ac.id](mailto:symposium.fk@ugm.ac.id)

## Program

| <b>Day 1: Friday, 29 November 2013</b>                           |   |  |
|--|---|--|
| <b>Time</b>  | <b>Agenda</b>   | <b>Speakers</b>  |
| 08.00 - 08.30  | Press Conference<br>Registration & coffee break                                     |  |
| 08.30 - 09.00  | OPENING CEREMONY  |  |
| <b>SPECIAL LECTURES</b>  |   |  |
| Moderator: <b>Sofia Mubarika</b>                                 |   |  |
| 09.00 - 09.40  | Current status in dengue vaccine development: challenges and opportunities          | <b>Scott B Halstead</b><br>International Vaccine Initiatives   |
| 09.40 - 10.20  | A post MDGs approach: global strategy for dengue prevention and control (2012-2020) | <b>Rita Kusriastuti</b><br>WHO SEARO   |
| 10.20 - 10.50  | Update on distribution and burden of dengue   | <b>Katie Anders</b><br>OUCRU, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam  |
| 10.50 - 11.30  | Discussion  |  |
| 11.30 - 13.00  | Friday praying & lunch  |  |
| <b>SYMPOSIUM 1: CURRENT CONCEPT ON CLINICAL ASPECT OF DENGUE</b> |   |  |
| Moderator: <b>Mohammad Juffrie</b>                               |   |  |
| 13.00 - 13.30  | Managing dengue cases - The Singapore experience                                    | <b>Leo Yee Sin</b><br>IIDE Tan Tock Seng Hospital, Singapore   |
| 13.30 - 14.00  | Clinical aspect of dengue in pediatrics   | <b>Sri Rezeki S Hadinegoro</b><br>Department of Child Health, University of Indonesia - Cipto Mangunkusumo Hospital, Indonesia |
| 14.00 - 14.30  | Discussion  |  |
| 14.30 - 14.45  | Break   |  |
| <b>SYMPOSIUM 2: DENGUE SURVEILLANCE AND MODELLING</b>            |   |  |
| Moderator: <b>Lutfan Lazuardi</b>                                |   |  |
| 14.45 - 15.15  | Remote sensing on dengue surveillance   | <b>Kohei Osa</b><br>Center for Environmental Remote Sensing (CERES), Chiba University, Japan                                   |
| 15.15 - 15.45  | Climate change and the incidence of dengue diseases                                 | <b>Hari Kusnanto</b><br>Faculty of Medicine, Universitas Gadjah Mada, Indonesia  |
| 15.45 - 16.15  | Discussion  |  |

## Program

### Day 2: Saturday, 30 November 2013

| Time   | Agenda   | Speakers  |
|--|--|---|
| <b>SYMPOSIUM 3: PROGRESS ON DENGUE VACCINE DEVELOPMENT</b> |  |   |
| Moderator: <b>Abu Tholib</b>                               |  |   |
| 08.30 - 09.00  | Dengue vaccine development in Indonesia  | <b>Amin Soebandrio</b><br>Advisor to the Minister of Research and Technology, Indonesia       |
| 09.00 - 09.30  | Pre-clinical dengue vaccine development  | <b>Jeremy Brett</b><br>Sanofi-Pasteur, Singapore  |
| 09.30 - 10.00  | The characteristics of dengue viruses from Indonesia                                     | <b>Tedjo Sasmono</b><br>Eijkman Institute for Molecular Biology, Indonesia                    |
| 10.00 - 10.15  | Discussion   |   |
| 10.15 - 10.30  | Break  |   |
| 10.30 - 12.30  | Oral and poster presentation   |   |
| 12.30 - 13.30  | Lunch  |   |
| <b>SYMPOSIUM 4: DENGUE VECTOR CONTROL</b>                  |  |   |
| Moderator: <b>Supargiyono</b>                              |  |   |
| 13.30 - 14.00  | Dengue vector control program in Indonesia   | <b>Supratman Sukowati</b><br>National Institute of Health Research and Development, Indonesia |
| 14.00 - 14.30  | New concepts in dengue vector control  | <b>Roger Frutos</b><br>Research Director of UMR 17, CIRAD, Montpellier, France                |
| 14.30 - 15.00  | Biocontrol strategy: an experience using <i>Wolbachia</i> to control dengue transmission | <b>Peter Ryan</b><br>Eliminate Dengue Project, Monash University, Australia                   |
| 15.00 - 15.30  | EDP-Yogya entomological studies: current update  | <b>Warsito Tantowijoyo</b><br>Eliminate Dengue Project, Indonesia                             |
| 15.30 - 16.00  | Discussion   |   |
| 16.00 - 16.30  | Award and closing ceremony   |   |

## Poster presentation

| No. | Author  | Title   |
|-----|---|---|
| 1   | Nur Siyam   | Integrated and comprehensive action to reduce and control of DHF: survey in Pekalongan, Central Java, Indonesia   |
| 2   | Duwi Silvarianto<br>Zaenal Sugiyanto<br>Kriswiharsi Kun Saptorini                           | Factors that cause dengue shock syndrome (DSS) to the children who are suffered from dengue fever (a case study at Semarang Public Hospital)  |
| 3   | Yunika Puspa Dewi<br>Ida Safitri Laksanawati<br>Eggi Arguni<br>Ratni Indrawanti             | Mean platelet volume (MPV): potential predictor of disease severity in dengue infection   |
| 4   | Sunaryo<br>Dewi Puspita Ningsih   | Dengue hemorrhagic fever (DHF) spatial distribution in Banyumas district, Central Java province   |
| 5   | Briliana Nur Rohima<br>Kusuma Dewi<br>Laxmiprita Pusparani R.<br>Sutami Budi Fitriawan      | Comparative study of community behavior in the prevention of dengue hemorrhagic fever in RW 17 Kelurahan Suryodiningratan and RW 02 Kelurahan Gedongkiwo, Kecamatan Mantrijeron against existence of mosquitoes as vector |
| 6   | Ni Made Dina Dwipayanti<br>Nur Alvira   | Effectiveness sembung ( <i>Blumea balsanifera</i> ) as larvicides to mortality <i>Aedes aegypti</i> larva   |
| 7   | Nur Alvira<br>Ernita Herawati   | Entomology survey of the larva and maya index act of determinant dengue vector mosquito in Bantul village (endemic) and Sabdodadi village (sporadic), Bantul subdistrict, Bantul district                                 |
| 8   | Istiana<br>Nelly Al Audhah  | Biolarvicide activities of lime seed and peel ( <i>Citrus aurantifolia</i> ) extract against vectors of dengue hemorrhagic fever  |
| 9   | Lisda Hayatie<br>Istiana<br>Nelly Al Audhah   | Screening of malaria parasites among blood transfusion in Unit Palang Merah Indonesia (PMI) Banjar district, South Kalimantan, period June 2012-June 2013   |
| 10  | Wasti Nurani<br>Dito Anurogo  | Use of Aptamer as novel biosensor agent in a potentially field-applicable dengue virus diagnostic kit   |
| 11  | Utami Mulyaningrum<br>Sitti Rahma Umniyati<br>Nastiti Wijayanti                             | Evaluation of immunocytochemical assay on thin and thick blood smears for detection of dengue virus infection   |
| 12  | Umu Sa'adah<br>Mila Kurniawaty<br>Imam Nurhadi Purwanto                                     | Surveillance for dengue hemorrhagic fever counts in the Malang City   |
| 13  | Eny Sofiyatun<br>Joko Malis Sunarno   | Effication test of srikaya seeds extract ( <i>Annona squamosal L.</i> ) to <i>Aedes aegypti</i> larvae in laboratory  |
| 14  | Novita Damanik<br>Setya Wandita<br>Ida Safitri Laksanawati                                  | Dengue in a newborn in Sardjito Hospital: a rare case   |
| 15  | Susi Nurweni<br>Sitti Rahmah Umniyati<br>Damar Tri Buwono                                   | Spatial analysis of resistance status of <i>Aedes aegypti</i> Linn (diptera: culicidae) to organophosphate insecticides in Kecamatan Taman, Madiun City   |
| 16  | Nur Endah Wahyuningsih<br>Dara Betta Larasati<br>Indah Muspita Pratiwi<br>Dewi Ratnaningrum | Difference response of <i>Aedes aegypti</i> L. to the exposure of LC50 Temephos, extract of lime leaf ( <i>Citrus aurantifolia</i> ), betel leaf ( <i>Piper betle</i> , Linn) and garlic ( <i>Allium satiyum</i> )        |





## Factors that cause Dengue Shock Syndrome (DSS) to the children who are suffered from dengue fever (a case study at Semarang Public Hospital)

Duwi Silvarianto , Zaenal Sugiyanto . Kriswiharsi Kun Saptorini  
Public Health Program of Health Faculty, Dian Nuswantoro University , Semarang Indonesia

### Background

In 2011 there were cases of dengue hemorrhagic fever (DHF) treatment by ranking first place there in Roemani Hospital with 245 patients and two and three are ranked in Elizabeth Hospital with 217 patients and Telogorejo Hospital with 148 patients while the case d General Hospital Semarang area contained 145 patients, while in 2012 there were 1,159 reported cases of dengue hemorrhagic fever (DHF) are put se Semarang District



General Hospital Hospital Semarang as the number of cases of dengue hemorrhagic fever (DHF) third highest after Elizabeth Hospital Hospital and Telogorejo.7 in reports in 2011 and in 2012 there were 18 cases and 26 cases of dengue shock syndrome (DSS) which is suffered by children under 14 years in Semarang City Regional Hospital.

### Objectives

The purpose of this research was to determine the factors associated with the occurrence of dengue shock syndrome (DSS) in children with dengue hemorrhagic fever (DHF) in the General Hospital of Semarang.

### Methods

This study was examined with retrospective analysis and case control examination. This study uses checklist as the instrument, the data from medical record that has been taken analyzed by chi-square test with 95% and 0,05 significance. This study sample were 41 children who were suffered from dengue fever with shock syndrome and 41 children who were suffered from dengue fever without shock syndrome.

| Results |                                    |           |         |       |              |
|---------|------------------------------------|-----------|---------|-------|--------------|
| No      | Independent                        | Dependent | P value | OR    | CI           |
| 1       | Sex                                | DSS       | 0,506   | 0,744 | 0,311–1,779  |
| 2       | Age                                | DSS       | 0,651   | 0,814 | 0,335–1,981  |
| 3       | Dengue hemorrhagic fever (history) | DSS       | 0,0001  | 8,235 | 2,837–23,909 |

The result of this study has discovered that there was no correlation between dengue shock syndrome with sexes (p value 0,506), there was no correlation between dengue shock syndrome with ages (p value 0,651), but there was a correlation between dengue shock syndrome with the previous dengue infection (p value 0,0001), highest platelet count incidence of dengue fever in children was < 50,000.

### Recomendation

Based on result of research above, then writer suggest to conduct action monitoring, and continuous treatment so patients of dengue don't to diagnosa with syndrome shock, and do eradication of mosquitos nest, that is by 3M that is burying ex – materials, closing relocations of water and cleanse relocations of water routinely, and don't forget to scratte powder of larvicida.



### Reference

1. World Healf Organization. Pencegahan dan Pengendalian Dengue dan Demam Berdarah Dengue. Jakarta : EGC. 2004
2. Dinas Kesehatan Kota Semarang. Data Kasus DBD di Semarang. Tahun 2012, 2011, 2010, 2009, 2008, 2007, dan tahun 2006.
3. Anonim. Profil Rumah Sakit Umum Daerah Kota Semarang . <http://www.Scribd.com/doc/64370939/BAB-1-4>. Diakses tanggal 23 oktober 2012 jam 18.26 WIB



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