



JAWA TIMUR



DR. SOE TJOIO



# Abstract Book

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WYNDHAM HOTEL SURABAYA

## **Kata Pengantar**

Presentasi makalah bebas adalah salah satu upaya menyampaikan materi ilmiah yang lazim dilakukan di seluruh dunia. Pada kegiatan *Annual Meeting on Pediatric Infectious Diseases 2020* yang sekaligus juga merupakan *Pediatric Infectious Diseases Weekend 2020*, presentasi poster tetap diselenggarakan. Abstrak dari peserta dikumpulkan dalam buku ini sebagai dokumentasi ilmiah sekaligus sarana diseminasi pengetahuan. Materi makalah bebas dibagi menjadi dua yaitu laporan kasus dan penelitian. Selamat kepada para peserta yang telah berpartisipasi.

Surabaya, 8 Februari 2020

*Dominicus Husada*

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## **CHANGES IN SEROTYPE PATTERNS OF DENGUE HEMORRHAGIC FEVER PATIENTS IN 2014, 2016 AND 2018 IN WETLAND AREA**

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### **Abstract**

**Introduction:** Dengue is an acute viral infection, with 4 dengue virus serotypes (DENV1, DENV2, DENV3, DENV4). Incidence has increased worldwide, approximately 390 million dengue infections per year. Incidence rate (IR) of dengue hemorrhagic fever (DHF) in Indonesia was 24,73 per 100.000 population with case fatality rate (CFR) 0,7%. In wetland area like Kalimantan IR above 40 per 100,000 population; South Kalimantan 47,84 per 100.000 population with CFR0,75%.

**Aim:** To determine whether there are changes in serotype patterns of DHF patients in 2014, 2016 and 2018 in wetland area.

**Methods:** This cross-sectional study included 145 pediatric patients under the age of 18 who were hospitalized at Ulin Hospital in 2014, 2016 and 2018 and diagnosed DHF by pediatrician consultant of infections and tropical diseases based on clinical profiles, complete blood count, and serology (IgM, IgG Dengue). Blood samples of all participants were examined for RT-PCR. The data was collected from the medical records of Ulin Hospital.

**Results:** Dengue serotype patterns in 2014 were mostly DENV2 (38%), followed by DENV3 (30%), DENV4 (24%), DENV1 (8%); in 2016 DENV4 (35%), DENV2 (29%), DENV3 (21%), DENV1 (15%); in 2018 DENV3 (39%), DENV4 (29%), DENV2 (23%), DENV1 (9%).

**Conclusion:** There was a change in the dominant serotypes from DENV2 (2014), DENV4 (2016) to DENV 4 (2018).

**Keywords:** Dengue hemorrhagic fever, dengue serotype, DENV