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“Science for mankind: Translating research results into policy and practices”

Faculty of Graduate Studies Mahidol University  
Nakhon Pathom, 23<sup>rd</sup> - 24<sup>th</sup> July 2019



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## The 4<sup>th</sup> International Conference on Applied Science and Health (ICASH 4)

**23-24 July 2019**

**Faculty of Graduate Studies, Mahidol University, Nakhon Pathom, Thailand**

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## PREFACE

Health and well-being is a fundamental right of every human being. Governments of every nation are responsible to provide facilities and supporting policies to enable people accessing health-related information and healthcare services. As students, we, [Yayasan Aliansi Cendekiawan Indonesia Thailand](#) or internationally known as Indonesian Scholars' Alliance (InSchooL), together with [Indonesian Students Association in Thailand \(Permitha Salaya\)](#) responses by providing the medium to deliver the updated sciences in health as we organize the 4<sup>th</sup> [International Conference on Applied Science and Health](#). We invite experts, practitioners, professionals and students in Asia and other regions to share their expertises, experiences, and views in the field of applied science and health.

We received more than 300 papers that have undergone rigorous peer review before finally accepted and published in our conference. About 150 papers from at least five participating countries (Indonesia, Thailand, Myanmar, Iran, and Malaysia) will be presented in oral session, while 90 papers will be presented as poster.

The 4<sup>th</sup> ICASH would not be possible without the supports of the following organizations and individuals: 1) Faculty of Graduate Studies Mahidol University for providing the venue and full supports for the past four years; 2) Faculty of Medicine Universitas Swadaya Gunung Jati Cirebon Indonesia; 3) Politeknik Kesehatan Kemenkes Semarang; 4) Politeknik Kesehatan Kemenkes Palangkaraya; and 5) Politeknik Kesehatan Kemenkes Yogyakarta as our co-host. The Keynote Speakers, for their willingness to share the valuable knowledge and extensive experiences in the field of health and applied science, of which will be of great benefits for all participants. To all International Scientific Committees for assisting the Organizing Committee to review papers submitted to the conference; and last but not least, to the authors who have shared their valuable works to all of us.

We wish you a joyful and fruitful conference, but above all, we wish you the greatest benefit of this 2-days conference.

Dyah Anantalia Widyastari  
Conference Chair

## PREFACE

Hi Fellas, Swadikrub and Selamat Datang,

The 4th International International Conference on Applied Science and Health (ICASH 2019) is the masterpiece from Indonesian Students who are accompanied by the [Indonesian Scholars' Alliance \(INSCHOOL\)](#), and this year is the 3rd year participation of [Indonesian Students' Association of Mahidol in Thailand](#) (known as Permitha/PPI Salaya Mahidol-Thailand) as the co-organizer of ICASH; today conference, follows with the previous three editions (February 2017, September 2017 and August 2018).

As the organization, PERMITHA Salaya-Mahidol is one of the biggest community of Indonesian student in Thailand and as a part of PERMITHA Thailand. Besides, this organization has creative members who dedicate toward their responsibility in PERMITHA Salaya-Mahidol. It has been proved since the earlier phase of ICASH. PERMITHA Salaya-Mahidol always supports the event because we know that this event is the unusual activity that could impact for Indonesian Student in Mahidol University. As the Chief of PERMITHA Salaya-Mahidol, I really believe that PERMITHA's members are people who could give a positive impact on their contribution to this event. Then, ICASH gives the outstanding experience for PERMITHA's members to organize the international program. This chance would drill the soft-skill in leadership, academic, and respond professionally. The skills are beneficial for the members while they work after study.

On this occasion, I would like to say thanks for the ICASH team who has already cooperated with PERMITHA Salaya-Mahidol to produce the educational event. This conference would be a valuable experience for PERMITHA due to the positive impact that could be attained by members. Besides, I also appreciate highly for all members who have total dedication for supporting this event. We hope the experience would teach more than achieved on occasion.

Taufik Eko Susilo  
Chief of Indonesian Students' Association Alliance of Mahidol  
(PPI/PERMITHA Salaya-Mahidol)



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## ICASH-C015

### CHARACTERISTICS OF STUNTING IN TODDLERS AGED 12-59 MONTHS IN KULON PROGO, YOGYAKARTA, INDONESIA

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#### ABSTRACT

**Introduction:** Stunting is a health problem that is caused due to not optimal health conditions and nutritional intake of children during the growth process. Kulon Progo is one of the districts in DIY that is registered in the program of 100 priority districts for stunting intervention. This study aims to determine the characteristic of the stunted toddlers aged 12-59 months in Kulon Progo, Yogyakarta, Indonesia

**Method:** This study used a cross sectional design. This study involved 84 families with stunting children aged 12-59 months. Data was obtained from interviews and questionnaires, and were then analyzed using the descriptive analysis.

**Results:** The results show that the stunted children mostly live with families who smoke (61.90%), were born with gestational age > 37 weeks (85.71%) and weight less than 2500 gr (86, 90%). The majority of the stunted toddlers were male (52.38%), and weaned at less than 24 months (53.57%).

**Conclusion:** This study presents the characteristics of stunted toddlers aged 12-59 months in Kulon Progo, Yogyakarta, Indonesia. The results of this study are expected to be an important input to provide further intervention in improving the nutritional intake for the stunted children.

**Keywords:** Stunting, Toddlers, Characteristics, Yogyakarta.