

Proceedings of the International Conference
on Science and Science Education



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Appendix A. (Co-)Presenters Attendance List (Parallel Session)

Appendix B. Question and Answer

Welcoming Address

Welcome to the 2015 IConSSE – The International Conference on Science and Science Education!

This conference, which is organized by the Faculty of Science and Mathematics, Satya Wacana Christian University Salatiga, is held at Laras Asri Resort and Spa Salatiga.

Arts, science and technology are crucial components in the advancement of human civilization. There is art in the creation of technology, and science provides strong bases for the technological development. We are proud to inherit the temple of Borobudur which is a proof that Indonesian's ancient arts and technology are so advanced that not only is the masterpiece beautiful, but also technologically rich.

This International Conference on Science and Science Education is attended by more than 160 participants. There are more than 67 papers is presented orally covering wide-variety subjects of science and science education. We thank you all for your participation.

We thank the Organizing Committee, Reviewers, and Steering Committee for having been working hard. Finally, we would also like to thank the Rector of Satya Wacana Christian University, and Dean of Faculty of Science and Mathematics for their support for this conference.

We hope you will enjoy our togetherness. Thank you.

Salatiga, November 30th, 2015

Dr. Adi Setiawan
Chairman

Path analysis model estimates using generalized method of moment (Case study: Maternal mortality in the Province of East Java)

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Abstract

Health sector development directed to reach international commitment who poured in millennium development goals (MDGs). Reducing child mortality and to improve maternal health is the goal of the mdgs associated directly with health namely to lower maternal mortality rate (MMR). MMR high in a region basically describes degrees health low public and potentially cause a setback economic and social in the level of household appliances the community and nasional. One of effort to overcome these problems were do an analysis about factor-factor affecting maternal mortality. One method used in this research is by using path analysis. The estimation method used to estimate is the method of moments and maximum likelihood estimation. This study used estimates of Generalized Method of Moment (GMM) as an extension of the method of moments. GMM estimation is used to exploit information form of the condition of the population moment. The results obtained, parameter estimation path analysis done gradually because consists of two structural models. The application in the case of maternal mortality in East Java suggests that the variable percentage of pregnant women who received FE1 tablet, the percentage of pregnant women carry the K1 program, the percentage of households that behave clean and healthy living as well as a variable percentage of births assisted by dukun to contribute to maternal mortality through a variable percentage pregnant women at high risk/complication.

Keywords: GMM estimation, path analysis, maternal mortality

1. Introduction

Health development geared to achieving international commitments, as outlined in the MDGs. Reduce child mortality and improve maternal health is the Millennium Development Goals directly related to health, namely to reduce MMR and Infant Mortality Rate (IMR), which is an indicator of the quality of public health services in a country. Maternal mortality is the death of every woman during pregnancy, childbirth or within 42 days after the end of the pregnancy from any cause, regardless of the age and location of the pregnancy, by any cause related to or aggravated by pregnancy or its handling but not by accident or incidental (factor accidental). AKI is high in a region basically describes a low degree of public health and potentially causing economic and social deterioration in the level of the household, community and national levels. However, the biggest impact of maternal mortality in the form of decreased quality of life of infants and children caused shock in the

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