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ORAL PRESENTATION Open Access Predictors of premarital sexual initiation on adolescents in Bali: a longitudinal study Yuni Rahyani \*, Adi Utarini, Siswanto Agus Wilopo, Mohammad Hakimi From 7th Postgraduate Forum on Health Systems and Policies Phitsanulok, Thailand. 24-25 June 2013 Background One of the Millennium Development Goals (MDG's) targets is improving reproductive and sexual health especially on adolescents.

High-risk sexual behaviours like early lines of initiation of sexual intercourse in adolescents will have bad impact on their future. We need to explore the predictors of premarital sexual intercourse in adolescents based on the theoretical framework. This study aimed to analyse predictors of premarital sexual intercourse initiation in adolescents based on Integrated Behavioural Model

(IBM) framework, in order to make appropriate recommendations for policy and interventions.

Materials and methods Alongitudinal study was carried out from October 2011 to March 2013, with three times follow-up of every six months. A total of 171 respondents at Grades 10 and 11 from two senior high schools in Denpasar city were included in this study. A survival analysis was used to analyse the data. Respondents fulfilled informed consent and self-reported questionnaire.

Results We found that no significant difference in premarital sexual intercourse initiation between male adolescents and female adolescents ( $p > 0.05$ ). The median time of pre-marital sexual intercourse in male adolescents, who had lower intention to the initiation by Kaplan-Meier survival analysis, was shorter than adolescents who had higher intention.

Female adolescents reported themselves as rape victims by their boyfriends. Female respondents with higher intention to initiation of premarital sex in inter-course had a 30% decrease in the opportunity to initiation of premarital sexual intercourse than respondents with lower intention ( $p > 0.05$ ).

Conclusions We need to take a different approach for male and female adolescents, focusing on wider social determinants, and to increase the resilience of adolescents. In addition there is a need for new traditional interventions through the root of problems. Published: 29 January 2014 doi:10.1186/1471-2458-14-S1-O25 Cite this article as: Rahyani et al.: Predictors of premarital sexual initiation in adolescents in Bali: a longitudinal study.

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