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P2-CE03 Incidence of *Acinetobacter baumannii* in pregnant women with preterm premature rupture of membrane (PPROM)

Z Mohd-Zain¹, O Yahcob¹, M Sood², N A Abu¹, C S Chiong³ and N S Mohd-Nor¹

¹University Teknologi MARA Selangor, Malaysia

²Monash University Malaysia, Malaysia

³Selayang Hospital, Malaysia

Background: *Acinetobacter baumannii* has emerged as a significant opportunistic pathogen that is involved in severe nosocomial infections. There are also some reports that this bacterium is associated with premature contractions and chorioamnionitis during pregnancy. However, reports associating *A. baumannii* in causing preterm premature rupture of membrane (PPROM) are limited. In this study, we compared the incidence of *A. baumannii* in pregnant women with PPRM and those who delivered at term and also, to determine subsequent transmission of the bacterium to their babies.

Materials and Methods: Samples consisted of high vaginal swabs from 108 women with PPRM and 110 women with normal pregnancy. For babies (n = 111), swabs were collected from their ears and axillae within six hours of delivery. All the swabs were cultured for *A. baumannii* on *Acinetobacter* selective media (CHROMagar) and the

suspected colonies were then identified by VITEK® 2, using ID-GNB card.

Results: *A. baumannii* was isolated from eight (7.54%) mothers with PPRM and eight (7.24%) mothers with normal pregnancy. No significance difference ($p > 0.05$) between these two groups was observed. Amongst the PPRM mothers who were *A. baumannii* colonizers, 50% of them transmitted the bacteria to their babies compared to 25% of those with normal pregnancy. Conclusion: The incidence of *A. baumannii* colonization in pregnant women is low, regardless whether they have PPRM or not. This suggests that colonization of *A. baumannii* in pregnant women has no significant role in leading to PPRM and mothers who have PPRM have a high possibility of transmitting the bacterium to their babies.

mini.sood@gmail.com