International Session Poster 13
Group 13 Maternal Physiology / Perinatal Care

オンデマンド配信
WEB **発表**

Chair：Kakogawa Jun (Tokyo Women's University School of Medicine)

ISP-13-5

Preliminary report on the feasibility of remote CTG self-monitoring at home with mobile device

Speaker：Tamaru Shunsuke [1]、Jwa Seungchik [1]、Ono Yoshihisa [1]、Seki Hiroyuki [1]、Matsui Haruka [1]、Fujii Tatsuya [1]、Iriyama Takayuki [1]、Fujii Tomoyuki [1]、Doi Koutarou [1]、Sameshima Hiroshi [1]、Naruse Katsuhiko [1]、Kobayashi Hiroshi [1]、Yoshida Rie [1]、Nishi Hirotaka [1]、Hirata Yoshiyasu [1]、Fukushima Koutarou [1]、Hirakawa Toshio [1]、Nakano Yoshihiro [1]、Asakawa Yasuyuki [1]、Tsunoda Yutaka [1]、Oda Toshimitsu [1]、Nii Shigeru [1]、Kinoshita Katsuyuki [1]、Kamei Yoshimasa [1]

1:Committee of the telemedicine project

[**Objective**] To clarify the feasibility of mobile CTG device self-monitoring fetal heart rate in singleton pregnant women after 36 weeks gestation. [**Methods**] This study was conducted at 6 university hospitals and 7 clinics. We lent the mobile CTG device iCTG (Medical Device Approval Number：230AFBZX00024000, Melody International Ltd) to women after 36 weeks gestation during outpatient visit. The subjects used the device for 40 minutes at home at least once a week and at the time of consultation until hospitalization for delivery. The data was stored in a cloud data server, and we evaluated the acquisition rate of evaluable fetal heart rate records, and the frequency and classification of fetal abnormal heart rate pattern. [**Results**] We finished the study of 15 patients at this point, and there were a total of 178 iCTG data at each point of time. We could evaluate the fetal heart rate pattern in all the 178 data and acquired 168（94.4 %）data which have recorded fetal heart rate for more than 90 percent of measurement time. There were 5（2.8 %）data in 4（26.7 %）patients evaluated as more than level 1 in the CTG classification system of JSOG. [**Conclusion**] At this point, the mobile CTG device is feasible tool for self-monitoring fetal heart rate at home. It might be possible to use the device in various medical situations in the future, such as monitoring CTG of high-risk patients or during transmission by ambulance.

▲ TOP