**CLINICAL RESEARCH ON FETAL BRADYCARDIA**

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*Objective*: Investigate in the prevalence, spectrum, clinical features and prognosis of fetal bradycardia, as well as the relationship between fetal bradycardia and maternal anti-SSA/Ro and anti-SSB/La.

*Methods*: The cases of prenatal diagnosed fetal bradycardia were enrolled and the serum level of maternal anti-SSA/Ro and anti-SSB/La and status of maternal autoimmune diseases, the prevalence, spectrum, clinical features and prognosis of fetal bradycardia were recorded and analyzed.

*Results*: 45 cases of fetal bradycardia were enrolled, the gestational age were 23-34 weeks (mean28.2w). Among them, there were 21 cases of III°AVB, 16 cases of sinus bradycardia, 8 cases of irregular bradycardia (3 II°AVB, 2 LQTS and other 3 cases). 8 cases of heart rate (HR) less than 55bpm, 19 cases HR between 55-70bpm and 18 cases of HR more than 70bpm. 10 cases of fetuses were revealed companied with degrees of fetal hydrops (6 below 55bpm, 2 between 55-70bpm, and 2 more than 70bpm). Maternal autoantibodies positive (anti-SSA/Ro and anti-SSB/La) were found in 24 mother, among them, 5 systemic lupus erythematosus, 3 Sjogren's disease, 4 undifferentiated connective tissue disease and 12 without clinical symptom; and to their fetuses, there were 17 III°AVB, 5 sinus bradycardia, 2 irregular bradycardia. To the suffered fetuses, 17 cases were companied with cardiovascular malformation (12 III°AVB, 3 sinus bradycardia, 2 irregular bradycardia). In this study, there were no any cases received prenatal drug therapy. All the fetuses HR below 55bpm were terminated after prenatal diagnosis.

*Conclusion*: Common type of fetal bradycardia including III°AVB, sinus bradycardia and irregular bradycardia (such as the II°AVB, LQTS). The prognosis of fetal bradycardia was poor, and some types of fetal bradycardia have closely relationship to connective tissue disease, especially maternal autoantibodies positive (anti-SSA/Ro and anti-SSB/La).