

JCK Session

JCK Seminar 02 (II-JCKS02)

Chair:Min Huang (Pediatrics, Shanghai Jiao Tong University, China)

Sat. Jul 10, 2021 1:30 PM - 2:10 PM Track5 (Web開催会場)

[II-JCKS02]Tips of Intervention of PA/IVS with hypoplastic right heart in neonate and fetus

○Silin Pan¹, Gang Luo¹, Kuiliang Wang¹, Yue Sun², Taotao Chen³ (1.Heart Center, Qingdao Women and Children's Hospital, Qingdao University, China, 2.Fetal Medicine Unit, Qingdao Women and Children's Hospital, Qingdao University, 3.Department of Obstetric Ultrasound, Qingdao Women and Children's Hospital, Qingdao University)

Pulmonary atresia with intact ventricular septum (PA/IVS) is a complex cyanotic congenital heart disease (CHD), accounted for about 1.9% of CHD patients. PA/IVS can gradually evolved into hypoplastic right heart syndrome (HRHS), and lead to fetal edema, heart failure and even in-uterus demise, loss of biventricular circulation after birth. Fetal pulmonary valvuloplasty (FPV) was introduced clinically to treat PA/IVS about 20 years ago. However, there are still many confusing factors. Firstly, the interventional indication is still not confirmed. The G-score system is mainly used to evaluate whether fetuses can achieve biventricular outcome, but this scoring system is not completely suitable for Asia-Pacific population. We urgently need a new indication to determine the clients for FPV. Therefore, our team has cooperated with the artificial intelligence (AI) team, hoping to explore a characteristic indication through the assistance of AI. Besides, FPV is difficult to operate, which is a huge challenge for the cardiologist, obstetrician, ultrasonographer and anesthesiologist. It requires the close cooperation of multidisciplinary team (MDT). Still, the understanding of FPV by medical personnel and fetal family members is insufficient currently, and a large number of science popularization and publicity are needed.