

Utility of Fetal cardiovascular magnetic resonance for Prenatal Diagnosis of Complex Congenital Heart Disease

Cohort Study¹

OBJECTIVE:

Assess clinical utility of fetal cardiovascular magnetic resonance imaging in cases in which fetal echocardiography is limited by poor acoustic windows and could not visualize all relevant anatomy

TRIAL DESIGN:

Prospective, single-center
Single arm, non-randomized

KEY INCLUSION CRITERIA:

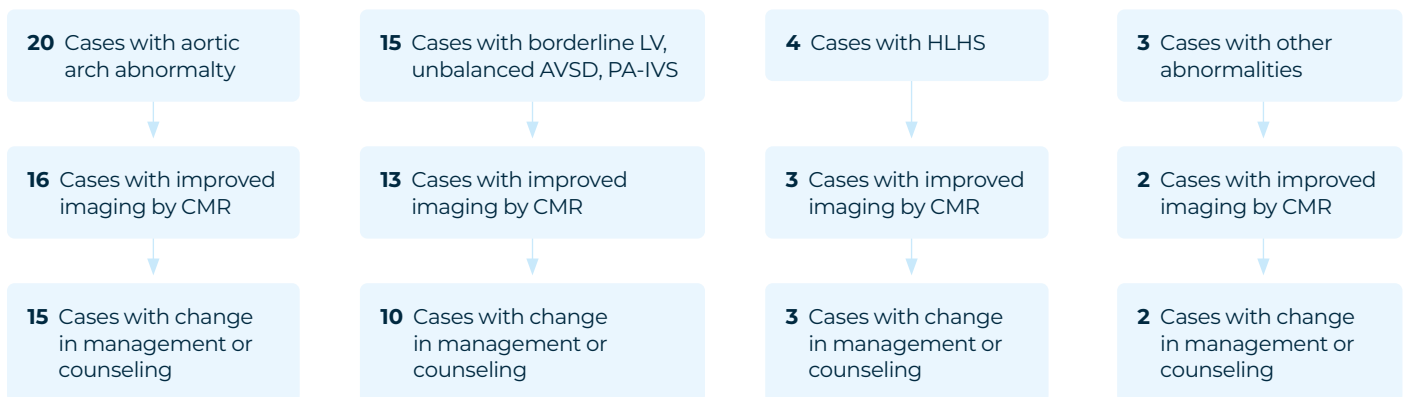
Fetuses referred for fetal CMR examination by a pediatric cardiologist after an inconclusive echocardiograph

PATIENT DEMOGRAPHICS:

n	31 fetuses
Gestational Age	36 weeks (31-39)

RESULTS:

Overall, fetal cardiovascular magnetic resonance imaging had clinical utility due to additional diagnostic information, affecting patient management and/or parental counseling in 84% of all cases.



CONCLUSIONS:

Fetal cardiovascular magnetic resonance imaging added clinically useful information to what was available from echocardiography and showed an association with clinical decision-making, including mode of delivery and early postnatal care, as well as with parental counseling.

1. Salehi et al.: Utility of Fetal Cardiovascular Magnetic Resonance for Prenatal Diagnosis of Complex Congenital Heart Defects. JAMA Netw Open. 2021 Mar 1;4(3)