



Original article

Antenatal Diagnosis of Congenital Heart Diseases by Telemedicine: A 6-year Practice Study

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ABSTRACT

Introduction:

Congenital heart diseases are the most common anomalies and the main cause of infant and neonatal death. Prenatal diagnosis improves perinatal outcome by determining the place of birth and level of neonatal care. Telemedicine through real-time videoconferencing makes it possible to improve diagnostic accuracy and plan birth.

Aim:

Determine the diagnosis and perinatal management of fetuses with suspected congenital heart disease, evaluated through real-time telemedicine treated at CERPO in the period 2017-2022.

Material and methods:

Retrospective study of real-time telemedicine evaluations carried out between the years 2017 to 2022. The perinatal outcome was reviewed and the pre- and postnatal diagnoses were compared,

Results:

The correlation of the diagnosis of congenital heart disease through telemedicine is 81.8% and 89.8% with the postnatal diagnosis.

Conclusions:

Evaluation through telemedicine can improve the diagnostic accuracy of congenital heart disease in areas with little access to operators experienced in fetal heart evaluation. This minimizes the economic and social impact associated with the perinatal management of a fetus with congenital heart disease in our country.

Keywords: *Congenital heart disease; Fetal anomaly; Telemedicine; Ultrasound.*

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Volume 10 Issue 2, April-June 2024