

Pediatric cardiology advances: Early detection of congenital heart disease

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Congenital heart disease (CHD) remains the most common birth defect worldwide. This presentation highlights innovations in fetal echocardiography, newborn screening, and minimally invasive pediatric cardiac interventions. The session reviews the role of genetic testing, pulse oximetry screening, and AI-assisted fetal imaging. New catheter-based treatments for septal defects and valve disorders will also be discussed. Emphasis will be placed on improving CHD care accessibility in low-resource regions through tele-cardiology and training programs.

Biography

Samuel Ortega is a pediatric cardiologist at the University of Chile, specializing in congenital heart disease and fetal cardiology. His research focuses on early diagnostic tools and scalable pediatric cardiac care models. He is an active contributor to Latin American CHD initiatives.

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