Contents

List of Abbreviations

2D : Two dimensional

4D : Four dimensional

AAPS : American Academy of Pediatrics, Surgical Section

ACE : Angiotensin-Converting Enzyme

AET : Atrial Ectopic Tachycardia

AF : Atrial Flutter/FIBRILLATION

AHA : American heart association

ANF : Atrial Natriuretic Factor

AO : Aorta

AS : Aortic Stenosis

ASD : Atrial Septal Defect

AV : Atrioventricular

AVB : Atrioventricular Block

AVM : Arteriovenous Malformations

AVRT : Atrioventricular Re-entry Tachycardia

AVSD : Atrioventricular Septal Defects

BAS : Balloon Atrial Septoplasty/septostomy

BNP : Brain or b-type Natriuretic Peptide

Bpm : Beats per minute

BT : Blalock–Taussig

CAVM : Cerebral Arteriovenous Malformation

CCAM : Congenital Cystic Adenomatoid Malformation

CCO : Combined Cardiac Output

CDH : Congenital Diaphragmatic Hernia

CHD : Congenital Heart Diseases

CHF : Congestive Heart Failure

CHOP : Children's Hospital Of Philadelphia

CM : Cardiomyopathy

CMV : Cytomegalovirus

CO : Cardiac output

COA : Coarctation of the aorta

COP : Cardiac Output

CT : Cardiothoracic

C-TDI : Color Tissue Doppler Imaging

CVPS : Cardiovascular Profile Score

DA : Ductus Arteriosus

DCM : Dilated Cardiomyopathy

DILV : Double Inlet Left Ventricle

DM : Diabetes mellitus

DORV : Double Outlet Right Ventricle

DR : Delivery Room

D-TGA : d-Transposition of Great Arteries

DV : Ductus Venosus

EA : Ebstein anomaly

ECG : Electrocardiogram

ECMO : Extracorporeal Membrane Oxygenation

EDD : End Diastolic Dimensions

EDV : End-Diastolic Volume

EF : Ejection Fraction

ELISA : Enzyme-Linked Immunosorbent Assay

ESD : End Systolic Dimensions

ESV : End-Systolic Volumes

ET : Ejection Time

FCI : Fetal Cardiac Intervention

FDA : Food and Drug Administration

FE : Fetal echocardiography

FECG : Fetal Electrocardiogram

FGR : Fetal Growth Retardation

FH : Family history

FHI : Fetal Hemodynamic Instability

FS : Fractional Shortening

G6PD : Glucose-6-Phosphate Dehydrogenase

GA : Gestational age

HBA1C : Hemoglobin A1c

HC : Head Circumference

HCM : Hypertrophic Cardiomyopathy

HLHS : Hypoplastic Left Heart Syndrome

HR : Heart Rate

IAS : Interatrial septum

ICT : Isovolumic Contraction Time

IM : Intramuscular

IRT : Isovolumic Relaxation Time

IUGR : Intrauterine Growth Restriction

IV : Intravenous

IVC : Inferior Venae Cava

IVF : In Vitro Fertilization

IVIG : Intravenous Immunoglobulin

IVS : Interventricular septum

IVSd : Interventricular septum in diastole

IVSs : Interventricular septum in systole

KFT : Kidney function test

LA : Left Atrium

LPA : Left pulmonary artery

LV : Left Ventricle

LVOT : Left ventricle outflow tract

LVPWd : Left ventricle posterior wall in diastole

LVPWs : Left ventricle posterior wall in systole

MCA : Middle Cerebral Artery

MCA-PSV : Middle cerebral artery peak systolic velocity

MCG : Magnetocardiography

mg : Milligram

MI : Mechanical index

MoM : Multiples of the Median

MPA : Main pulmonary artery

MPI : Myocardial Performance Index

MR : Mitral Regurgitation

MRI : Magnetic Resonance Imaging

MV : Mitral Valve

ng/dL : Nano gram per deciliter

NSAIDs : Nonsteroidal Anti-inflammatory Drugs

NT : Nuchal Translucency

OBS US : Obstetric ultrasound

PA : Pulmonary Artery

PA/IVS : Pulmonary Atresia with Intact Ventricular Septum

PAC : Premature Atrial Contractions

PAP : Pulmonary artery pressure

PDA : Patent ductus arteriousus

PFO : Patent Foramen Ovale

PI : Pulsatility Index

PJRT : Permanent Juncional Reciprocating Tachycardia

PR : Pulmonary regurgitation

PS : Pulmonary Stenosis

PV : Pulmonary Valve

PVC : Premature Ventricular Contraction

PVD : Pulmonary venous drainage

PW : Pulsed wave

PW-TDE : Pulsed-Wave Tissue Doppler Echocardiography

RA : Right Atrium

Rh : Rhesus

RI : Resistance Index

RPA : Right pulmonary artery

RV : Right Ventricle

RVOT : Right Ventricle Outflow Tract

SA : Sinoatrial Node

SCT : Sacrococcygeal Teratoma

SGA : Small for Gestational Age

SLE : Systemic Lupus Erythrematosus

SSRIs : Selective Serotonin Reuptake Inhibitors

S-TDI : Spectral Tissue Doppler Imaging

STIC : Spatiotemporal Image Correlation

SV : Stroke Volume

SVC : Superior Venae Cava

SVD : Systemic venous drainage

SVT : Supraventricular Tachycardia

TA : Tricuspid Atresia

TAPVC : Total Anomalous Pulmonary Venous Connection

TDI : Tissue Doppler Imaging

TGA : Transposition of Great Arteries

TI : Thermal Index

TIV : Total Isovolumetric Time

TOF : Tetralogy of Fallot

TR : Tricuspid Regurgitation

TRAP : Twin Reverse Arterial Perfusion

TTTS : Twin Transfusion Syndrome

TV : Tricuspid Valve

TVD : Tricuspid Valve Dysplasia

UA : Umbilical Artery

US : Ultrasound

USA : United States of America

UV : Umbilical Vein

VA : Ventriculoatrial

VOCAL : Virtual Organ Computer-aided Analysis

VSD : Ventricular Septal Defects

VT : Ventricular Tachycardia

VTI : Velocity time integral

VVI : Vector velocity imaging

WPW : Wolf Parkinson White

List of Figures