

**Value of Multidetector Computed
Tomography in Evaluation of Thoracic
Venous Abnormalities among Pediatrics
with Congenital Heart Disease**

Thesis

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In Radiodiagnosis*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

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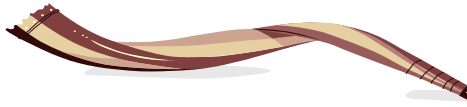
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List of Abbreviations

Abb.	Meaning
2D	Two dimensional
3D	Three dimensional
aA	Ascending Aorta
ALARA	As low as reasonably achievable
Ao	Aorta
AoA	Aortic arch
ASD	Atrial septal defect
AV	Atrio ventricular
bpm	beat per minute
BW	Body weight
cCT(A)	Cardiovascular Computed Tomography Angiography
CHD	Congenital heart disease
CM	Contrast medium
cMRI	Cardiac magnetic resonance imaging
cMPR	Curved Multiplanar reformatting
CS	Coronary sinus
CT	Computed Tomography
CTA	Computed tomography angiography
CTDI	Computed tomography dose index
dA	Descending Aorta
DA	Ductus Arteriosus
DC	Direct current
DLP	Dose length product
ECG	Electrocardiogram
FOV	Field of view
Gy	Gray

Abb.	Meaning
HU	Hounsfield Unit
ICU	Intensive care unit
InV	Innominate vein
IV	Intravenous
IV	Interventricular
IVC	Inferior vena cava
IVS	Interventricular septum
Kg	Kilogram
Kv	Kilovoltage
LA	Left atrium
LAA	Left atrial appendage
LACV	Left anterior cardinal vein
LCCV	Left common cardinal vein
LPCV	Left posterior cardinal vein
LAD	Left anterior descending
LCA	Left coronary artery
LCV	Left cardinal vein
LIMA	Left internal mammary artery
LIPV	Left inferior pulmonary vein
LLPV	Left lower pulmonary vein
LPV	Left pulmonary vein
LPA	Left pulmonary artery
LSVC	Left superior vena cava
LSPV	Left superior pulmonary vein
LUPV	Left upper pulmonary vein
LV	Left Ventricle
LUL	Left upper lobe
mA	Milli ampere

Abb.	Meaning
MAPCAs	Major aorto pulmonary collateral arteries
MDCT	Multidetector computed tomography
MDCTA	Multidetector computed tomography angiography
MIP	Maximum intensity projection
MinIPS	Minimum intensity projection
MPR	Multiplanar reformatting
MRI	Magnetic resonance imaging
MSCT	Multislice computed tomography
NICU	Neonatal intensive care unit
NSF	Nephrogenic systemic fibrosis
OSASD	Ostium secundum atrial septal defect
PA	Pulmonary artery
PAPVC	Partial anomalous pulmonary venous connection
PAPVR	Partial anomalous pulmonary venous return
PDA	Patent ductus arteriosus
PFO	Patent foramen ovale
PLSVC	Persistent left superior vena cava
PS	Pulmonary stenosis
PT	Pulmonary trunk
RA	Right atrium
RACV	Right anterior cardinal vein
RCCV	Right common cardinal vein
RPCV	Right posterior cardinal vein
RSVC	Right superior vena cava
RAA	Right atrial appendage
RCA	Right coronary artery

Abb.	Meaning
RCV	Right cardinal vein
RIMA	Right internal mammary artery
RIPV	Right inferior pulmonary vein
RLPV	Right lower pulmonary vein
rPA	Right pulmonary artery
RPV	Right pulmonary veins
RMPV	Right medial pulmonary vein
RSPV	Right superior pulmonary vein
RUPV	Right upper pulmonary vein
RUL	Right upper lobe
RV	Right ventricle
ROI	Region of interest
Sv	Sievert
SVC	Superior vena cava
SVP	Splanchnic venous plexus
SVASD	Sinous venosus ASD
TAPVC	Total anomalous pulmonary venous connection
TAPVR	Total anomalous pulmonary venous return
VR	Volume rendered
VSD	Ventricular septal defect

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