

# Oncology Nursing, Cancer Care & Radiology and Imaging

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## Role of computed tomography in congenital heart disease

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**Background:** Congenital Heart Disease births 40,000 affect nearly 1% of year.

Infant deaths due to CHDs is approximately of 4.2% of all neonatal deaths.

Early detection and treatment plays an important role.

Echocardiography and catheter cardio angiography are the primary cardiac imaging modalities, but has its own limitations.

**Introduction:** Coronary computed tomographic angiography (CTA) is a non-invasive technique for evaluation of congenital heart disease and coronary artery anomalies.

It also enables the evaluation of cardiac chambers, myocardium and valves.

It can be used for accurate depiction of complex cardiovascular anatomic features both before and after surgery and of a variety of post treatment complications.

**Procedure details :** Using a CT 128 slice scanner:

The scan ranges from the tracheal bifurcation to the bottom of the heart.

Done in ECG gated protocol to achieve motion-free images of the coronary arteries and aorta.

Post processing technique to reconstruct images and volume rendering for evaluation of complex anatomy.

**Conclusion:** CT is a useful imaging modality for the morphologic evaluation and diagnosis of Congenital Heart Disease.

Reformatted images from multi section spiral CT can accurately and systematically delineate the normal and pathologic morphologic features of the cardiovascular structures.

## Biography

Shajeem Shahudeen has completed his M.B.B.S at the age of 24years from Rajiv Gandhi University of Health Sciences and post-graduated (M.D) from D.Y Patil University School of Medicine. I am presently working as a consultant radiologist at Vivid Diagnostic Centre, Kochi and I am the managing director of this centre, which is a premier Health care Centre in Kerala,INDIA. Have five publication in reputed journals like ECR and 2 E-poster.

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