Conference Abstract

DAY 2 16th September 2023 (Saturday) | POSTER | 11.00 am-12.00 pm | Scientific Session 8

Study of Cardiac Situs Anomalies and its Embryological and Clinical Implications-Case Series

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Background: Heterotaxy syndrome or Situs Ambiguous is the disturbance in the usual left-right distribution of the thoracic and abdominal organs. It occurs from an early embryological developmental disturbance which most cases being sporadic. It is classified under the group of cardiosplenic syndromes. These anomalies have been estimated to be around 1 in 8,000-24,000 live births. Anatomical positioning of organs in human body can be classified into 3 types:- Situs Ambiguous, Situs Solitus, Situs Inversus. Dextrocardia occurs if the heart tube bends to the left instead of right during embryological development. Persistence of fetal splenic lobules (spleniculi) leads to polysplenia.

Aim: Imaging spectrum in situs abnormalities and its embryological significance.

Methods: This spectrum includes 3 patients who underwent CT scans of abdomen from the Department of Radiology in 2022-2023

Results: 24 year old female, with Dextrocardia associated with Kartagener Syndrome was documented. Another case of 32 year old female, with Polysplenic condition will be discussed. One more 3 year old female child, with Asplenia condition was identified on CT scan. Further details will be discussed during the presentation.

Conclusion: Heterotaxy syndrome is associated with complex cardiovascular malformations. Recent advances in medical management, improves chance of survival of these patients. This disorder remains one of the greatest challenges for cardiologists and surgeons.

Keywords: Heterotaxy, Situs Ambiguous, cardiosplenic syndromes, Polysplenic, Asplenia, Dextrocardia, Kartagener Syndrome.