# Conference Abstract

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## A Case Report on Situs Inversus Totalis

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**Introduction:** Situs Inversus is a congenital abnormality characterized by the reversal or transposition of organs within the thoracic and abdominal cavities from their typical position. When Situs Inversus is accompanied by dextrocardia, it is referred to as Situs Inversus Totalis. The prevalence of situs inversus in live births is estimated to be 1:10,000, with a male-to-female ratio of 3:2.

**Case Report:** A 27-year-old male patient was admitted to the General Medicine Department of Akash Hospital with history of fever, cough, and breathlessness for 4 days. Incidentally, his chest radiograph revealed dextrocardia and electrocardiograph showed reversal of all the leads. Ultrasonography of abdomen and pelvis showed the transposition of liver and gall bladder in the left hypochondriac region. Spleen was enlarged and noted in right hypochondriac region. Coils of small intestine were in the midline and caecum and appendix were seen in right iliac fossa. The patient was diagnosed as a case of Situs Inversus Totalis.

**Conclusion:** Situs Inversus Totalis is usually an asymptomatic condition. All the reverse organs themselves function normally; their irregular positioning makes the diagnosis difficult. In cases where symptoms manifest, patients may present with primary ciliary dyskinesia or Kartagener's syndrome as potential underlying conditions. The differential diagnosis encompasses appendicitis, asplenia/polysplenia, congenital coronary anomalies, sinusitis, and ventricular septal defects as plausible aetiologies to consider. Surgeons and radiologists should possess knowledge and awareness of this anomaly during the preoperative and surgical context to ensure appropriate management and decision-making. The embryological basis and genetic considerations of this rare case shall be discussed during the scientific presentation.

**Key Words:** Situs Inversus Totalis, Dextrocardia, Kartagener's Syndrome