

## Conference Abstract

DAY 2 16<sup>th</sup> September 2023 (Saturday)

POSTER

11.00 am-12.00 pm

Scientific Session 6

**Anatomical Study on Great Vessels Connections – PDA****Poorna Kruthik M, Hema N, Shivapriya, Pushpalatha**

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**Background:** The connection between pulmonary trunk & aorta in fetal circulation has a significant role as it provides pathway for blood to bypass the non functional lungs since oxygenation primarily occurs through the placenta. This connection closes soon after the birth. However, there are reports mentioning this connection to be patent after birth known as Patent ductus arteriosus (PDA). It is a common diagnosis among extremely premature infants, especially in those with lung disease with an incidence of 1 in 2000.

**Aim:** To report and document the cases of Patent ductus arteriosus (PDA) with its embryological significance.

**Methods:** Cadaveric dissection of adult heart reveals a case of PDA which was confirmed by passing a probe through the duct. Echocardiograph studies revealed 3 cases

**Results:** 4 cases of PDA were identified.

- 1) Communication between the left pulmonary artery to the arch of aorta was seen in the dissected adult heart.
- 2) A 7-month-old female baby showed 3.5mm diameter of PDA on 2-D Echo.
- 3) Colour flow doppler of 6-month-old female baby showed PDA of 5mm diameter.
- 4) 2D Echo of 8-month-old female baby showed 3mm diameter of PDA was identified.

**Conclusion:** The anatomical knowledge of the structure and its closure is important for diagnosing and managing such abnormalities which eventually benefits the health and well-being of individuals

**Keywords:** PDA, Closure, Great Vessels, Echocardiograph, Aorta, Pulmonary trunk