

Conference Abstract

DAY 1 15th September 2023 (Friday)

ORAL 2

3.30-5.00 pm

Scientific Session 6

Morphometric Study of Fossa Ovalis with Embryological and Clinical Significance

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Background: The fossa ovalis is a depressed structure, of varying shapes, located in the inferior aspect of the right interatrial septum. A remnant of an interatrial opening, the foramen ovale, which has a significant role in fetal circulation, the fossa ovalis forms by the fusion of the septum primum and septum secundum. This article will describe the structure, function, embryology, vascular supply, physiologic variants, surgical considerations, and clinical significance of the fossa ovalis.

Aim: The aim of the cadaveric study is to get the Morphometric and Morphological data for embryological and clinical significance.

Material And Method: The study is done on 50 cadaveric heart specimens, all measurements are done using vernier callipers and parameters that are checked are diameter, patency, position in Atria, depth, nature of floor, presence of septal pouch, shape and presence of fibrous strands.

Result: According to the study of 50 specimens, Mean diameter: 16.62, 4% is patent, 94% inferior aspect of the right atrium, Limbus Fossa Ovalis: 32% prominent all around the fossa ovalis, nature of floor: bulge towards Left Atrium-34%, fibrous strands, present: 26%, absent: 74%, septal pouches: absent- 56%

Conclusion: The findings of the present study provide pertinent information on the morphology of Fossa Ovalis, which may be useful for device selection in treating Atrial Septal Defect and Pertinent Foramen Ovale patients.