

## Conference Abstract

DAY 1 15<sup>th</sup> September 2023 (Friday)

ORAL 1

2.00-3.30 pm

Scientific Session 9

**Cadaveric Study on Variations of Cystic Artery****Mohammad Saad Anjum, Vrinda Hari Ankolekar**

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**Background:** The chief source of blood supply to the gallbladder is the cystic artery. It usually arises from the right hepatic artery within the cystohepatic triangle. Variations in the origin and location of cystic artery with respect to the cystohepatic triangle are frequent. Knowledge about these variations is essential for surgeons performing conventional and laparoscopic cholecystectomy.

**Aim:** To determine the incidence of some of the common variations of cystic artery.

**Method:** This descriptive cross-section study was carried out in the Department of Anatomy, Kasturba Medical College Manipal, using 41 cadaveric specimens. The peritoneal covering of the cystohepatic triangle was removed, exposing the cystic artery and cystic duct. The cystic artery was then traced to its origin. The origin and location of cystic artery with respect to the cystohepatic triangle was noted.

**Results:** Out of the 41 cadaveric specimens studied, cystic artery originated from the right hepatic artery in thirty-nine (95.1%), hepatic artery proper in one (2.4%) and directly from the liver substance in one (2.4%). According to the location the variations were divided into two groups: (1) cystic artery present within the cystohepatic triangle, found in thirty-two specimens (78%); (2) cystic artery lying outside the cystohepatic triangle, found in nine specimens (22%). In none of the specimens, the right hepatic artery formed a Moynihan's loop within the cystohepatic triangle.

**Conclusion:** Based on the results we have obtained, it is evident that variations in the cystic artery can frequently be found. Cystic artery bleeding is a known complication in laparoscopic cholecystectomy. It can be avoided if the surgeon has good knowledge about these variations.

**Keywords:** cystic artery, cystohepatic triangle, Calot's triangle, cholecystectomy,