



Comparison of extra hepatic blood supply between hepatocellular carcinoma and metastasis of liver.

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Abstract:

To investigate and compare the incidence and prevalence of extrahepatic collateral arteries (EHCA) supplying the primary and metastatic tumors of liver using Digital Subtraction Hepatic Arteriography (DSHA). The characteristics of the collateral blood supply of the tumors may aid in determining and selecting subsequent treatment schemes for effective outcome with improved prognosis. A retrospective analysis of 602 patients (mean age 61.85 ± 11.86) was done, the population included 74.41% males ($n=448$) and 25.58% females ($n=154$) who underwent DSHA for the evaluation/treatment of hepatic disorders. The prevalence and appearance of collateral blood circulations of the liver tumors were visualized and assessed using DSHA images. In a cohort of 602 patients, 329 hepatocellular carcinoma (HCC) and 126 metastatic tumors were identified. DSHA indicated that 152 HCC and 53 metastatic tumors patients had extrahepatic blood supply from both inferior phrenic arteries (IPA) 65.35% and 39.62%, internal mammary arteries (IMA) 12.34% and 15.09%, omental artery (OA) 2.61% and 3.77%, celiac artery (CA) 3.26% and 3.77%, gastric arteries 5.22% and 18.8%, colic arteries 4.57% and 9.43%, right renal capsular artery (RRCA) 3.92% and 0%, right intercostal artery (RICA) 2.61% and 7.54% respectively in HCC and metastases. Gender predilection showed a dominance in males for the development of additional blood supply with a significant correlation value of 0.029 ($P \leq 0.05$).



Comparison of HCC between cirrhotic and non-cirrhotic liver conditions and EHCA gave a value of 0.292 ($p \leq 0.05$) with a linear by linear association value of 1.353 for collateral arteries.

Biography:

Dr Mohammed Aameruddin Khan Hashmi (MBBS, MS) is a Senior Surgical Resident and works with one of the private hospitals in India. He holds a Masters Degree in General Surgery and currently preparing for MRCS Part-A and has future endeavours to uptake Fellowship in Surgical Oncology. He is very passionate about his work and also undertakes many activities to provide adequate care for the underprivileged and poor people in India.

Webinar on Pharmaceutical Sciences; September 22, 2020; Rome, Italy

Citation: Mohammed Aameruddin Khan Hashmi; Comparison of extra hepatic blood supply between hepatocellular carcinoma and metastasis of liver; Webinar on Pharmaceutical Sciences; September 22, 2020; Rome, Italy