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Doppler study of hepatic artery, basket and feeding vessels in liver malignant tumors**Muhammad Anwar¹, Ayesha Anwar Raza¹ and Syeed Amir Gilani²**¹Al Badar Medical Center, Pakistan²University of Lahore, Pakistan

Introduction: Neovascularization develops around the hepatocellular carcinoma (HCC) and malignant tumors of liver in basket form. This leads to increased blood supply via hepatic artery. The quantification of hepatic artery, basket vessels and feeding vessels was done where ever it is found. The data was accumulated of liver tumors (malignant) from 2013 to Sep 2017 from color Doppler center. The center is in Punjab province of Pakistan. Here prevalence of hepatitis C is 6.5% which is very high. China has the highest burden of Hepatitis C Virus (HCV) infection cases. Pakistan has the second highest burden of HCV positive cases. This is a retrospective study.

Objective: The purpose of this study was to establish the Peak Systolic Velocity (PSV) of hepatic artery of hepatitis malignant lesions which are found in hepatitis-C and hepatitis-B related complication. Study comprises of 82 patients with almost equal females and males of age 40 to 70 years. It began in April 2013 and continues. Verbal consent was taken to include in this study. The study of liver cancers HCC and PSV 80 cm/sec should be a cut off value between benign and malignant tumors.

Method: Study comprises of 82 patients with almost equal females and males of age 40 to 70 years. It began in April 2013 and continues, in our outdoor during their USG consultation with convex probe. The multifrequency transducer 2.5 to 6.0 MHz was used. Hepatic artery was interrogated (seldom) at the head of pancreas with angle correction or in liver along with portal vein without angle correction (as at this naturally angle is corrected) in fasting state to keep the measurements uniform as food intake profoundly increases the PSV. Basket or circumferential vessels and feeding vessels were also studied.

Result: The normal PSV in normal subjects is 25-40 cm/sec. It goes up to 60 cm/sec in cirrhotic, if it goes beyond that, portal vein tumor or HCC will be suspected. We can take PSV of 80 cm/sec a cut off between benign and malignant tumors.

Biography

He studied M Phil from University of Lahore in medical ultrasound 2011 to 2013. Since then working in Doppler USG of liver. As in our region HCV is very much prevalent we started HCC Doppler study under supervision of Aamir Gilani PhD dean of USG department.

anwargee25@gmail.com