Three-Dimensional Power Doppler Evaluation of Adnexal Masses. Which Parameter Performs Best?

Ahmed Mohamed Abbas MSc, Kamal M. Zahran MD, Ahmed Nasr MD, Hassan S. Kamel MD.

Abstract:

Objective: To evaluate the role of 3D power Doppler in assessment of adnexal masses vascularity, its ability to discriminate benign from malignant adnexal masses. Then, to determine which one of the 3D power Doppler parameters has the highest reliability for detection of adnexal malignancy. Materials and Methods: A cross sectional prospective study was conducted on patients scheduled for surgery due to presence of adnexal masses at Woman's Health Center, Assiut University, Egypt between October 2012 and October 2013. All patients were evaluated by 3-DPD ultrasound for assessment of tumor vascularization with calculation of vascular indices using Virtual organ computer-aided analysis program. A definitive histopathological diagnosis was obtained in every case to be used as a gold standard. Results: One hundred sixty-one patients were recruited, 115 with benign masses, 46 with malignant masses. The mean vascularization index (16.36 versus 10.98; p

Keywords:
adnexal mass, 3D power Doppler, ovarian cancer.

Published In: