

High Radial Artery Origin Mistaken for Inflow Artery Obstruction in Radiocephalic Arteriovenous Fistula

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High Radial Artery Origin Mistaken for Inflow Artery Obstruction in Radiocephalic Arteriovenous Fistula

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A 41-year old woman with diabetic nephropathy presented to the emergency department with nausea. She had been preparing hemodialysis and performed radiocephalic arteriovenous fistula (AVF) operation for 2 months ago. However, her hemodialysis schedule had been delayed for over two weeks due to immaturation of the AVF on physical examination. She undergone emergent hemodialysis via femoral vein, the uremic symptoms relieved. Angiography was performed and radial artery showed no uptake of contrast dye. The radial side of the palmar arch branched around and formed an anastomosis with the cephalic vein. At first, we thought radial artery obstruction had occurred. But, radial pulse was present and there were no major ischemic changes in the hand. So we supposed that the absence of radial artery filling was an artifactual consequence possibly of an anatomical abnormality. So, for investigation of vascular anatomy, computed tomographic(CT) angiography of the upper vessel was performed. Despite no uptake shown on the venography, CT angiography showed intact radial artery with high origin. Femoral artery puncture and angiography confirmed high bifurcation of the brachial artery with high origin of the radial artery.

Key Words : 고위 요골 동맥 기시, 동정맥루, 동맥조영술

High radial artery origin, Arteriovenous fistula, Angiography