

Traumatic Arterio-Venous Fistula between Right Hepatic Artery and the Right Hepatic Vein

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1. Case Report

A 22 years old young man presented with pain abdomen and distension following a road traffic accident (vehicular accident) to a nearby hospital where after initial resuscitation, evaluation with ultrasound and contrast enhanced computed tomography (CT) scan of the abdomen, patient underwent exploratory laparotomy, evacuation of hematoma, cholecystectomy and the drainage of the peritoneal cavity. Laparotomy revealed hemoperitoneum, laceration and contusion of the right liver, and contused gall bladder, without any bowel injury. In view of extensive liver injury patient was referred to our center for further management. On admission he was hemodynamically stable with minimal abdominal distension. He underwent CT angiography, which revealed contusion of right lobe of liver and segment 4, along with pseudoaneurysm of the segment 5 artery (**Figure 1**), with arterio-venous fistula between pseudoaneurysm and right hepatic vein (**Figure 2**). Angiography, further confirmed the findings (**Figure 3**). Subsequently coil embolization of segment 5 artery pseudoaneurysm, was done (**Figure 4**). Check angiogram revealed no filling of pseudoaneurysm and arterio-venous fistula. Patient recovered well. Follow up CT scan after 6months showed hypertrophy of the left lobe of the liver and no pseudoaneurysm.

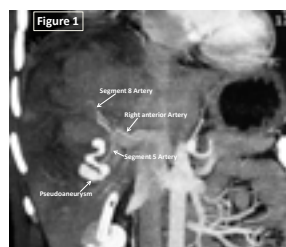


Figure 1



Figure 2

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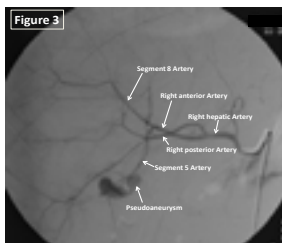


Figure 3

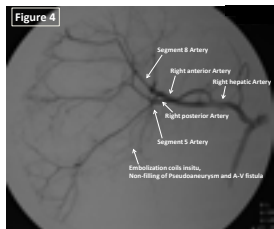


Figure 4

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