Selective Embolization of Traumatic Vascular Kidney Injury

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CASE PRESENTATION
A 78-year-old man was admitted to the emergency department and underwent a total body CT scan after a car accident. The scans showed a large subcapsular hematoma with active arterial supply at the middle-lower third level of the left kidney (Figure 1).

PROCEDURE DESCRIPTION
A 2.4-F (0.8-mm) Direxion™ Torqueable Microcatheter was used to engage the left renal artery and perform a super-selective catheterization of the middle-inferior lobe vessels. The angiogram confirmed active bleeding due to arterial laceration (Figure 2).

The first embolization was performed with 3- X 40-mm Interlock-18™ Detachable Coils. Using the same Direxion™ Microcatheter, with accurate torquability, we were able to perform distal embolization, preserving renal parenchyma by using a 2- X 40-mm Interlock-18™ Fibered Detachable Coil (Figure 3).

FOLLOW-UP AND DISCUSSION
Final angiography confirmed a very good and precise embolization. After 5 days, CT scan showed a capsular hematoma reduction and absence of active bleeding (Figure 4).