

Retroperitoneal Hematoma and Renal Cortical Injury: A Rare Complication of Cerebral Angiography - A Case Report -

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Cerebral angiography is an invasive technique and can induce various complications, such as neurologic complications. We describe two cases of retroperitoneal hematoma and renal injury, a rare complication of cerebral angiography. A 65-year-old male and 56-year-old male underwent cerebral angiography for stem cell implantation at a general hospital. The diagnoses of retroperitoneal hematoma and renal injury were delayed. On abdominal-pelvic CT, renal injury was demonstrated with a pseudoaneurysm and a retroperitoneal hematoma in the perirenal space. Interventional angiography was performed. Renal angiography showed that the contrast was extravasated with a pseudoaneurysm in the lower pole of right kidney. The feeding artery of the pseudoaneurysm was successfully embolized. Emergency physicians must consider a retroperitoneal hematoma and renal cortical injury after angiography, especially when patients present with hypotension and abdominal distention.

Key Words: Hematoma, Complications, Cerebral angiography

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10 (catheter),
(wire),
2
1)
2)



1.
65 가 5
4
4
5 3
75/55 mmHg,
159 , 36.1 , 18

31,570/μL (87.5%),
8.5 g/dL, 207,000/μL

가

(Morrison's pouch)

115/55 mmHg,
111 , 36.9 , 16

1.1 cm 가
(inferior pole)

(Fig. 1).

36,890/μL (90.7%),
11.8 g/dL, 189,000/μL

3

(Fig. 2).

(inferior pole)
(Fig. 3).

21

2.

5

56 가 6

10

(Fig. 4).

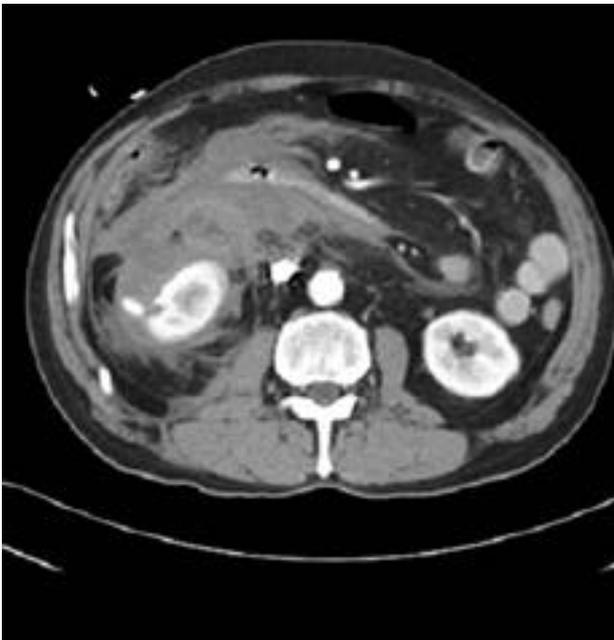


Fig. 1. Abdominal-pelvic CT of case 1 demonstrates pseudoaneurysmal formation and retroperitoneal hematoma formation in anterior and posterior pararenal space.



Fig. 2. Renal angiography of case 1 shows that the contrast is extravasated with pseudoaneurysm in lower pole of right kidney.

19

0.4% ~ 2.6%²⁻⁵⁾

가

가 (pseudoaneurysm),⁵⁾

0.12%^{6,7)}

(Cullen's sign) - (Grey-Turner's sign)

가 (psoas muscle)

(iliopsoas sign)가⁸⁾

6.5 ~ 22.8%⁹⁾

5%

(renal artery percutaneous transluminal angioplasty)

가

10,11)

6

24

가 , 6

17

가¹²⁾

가

가

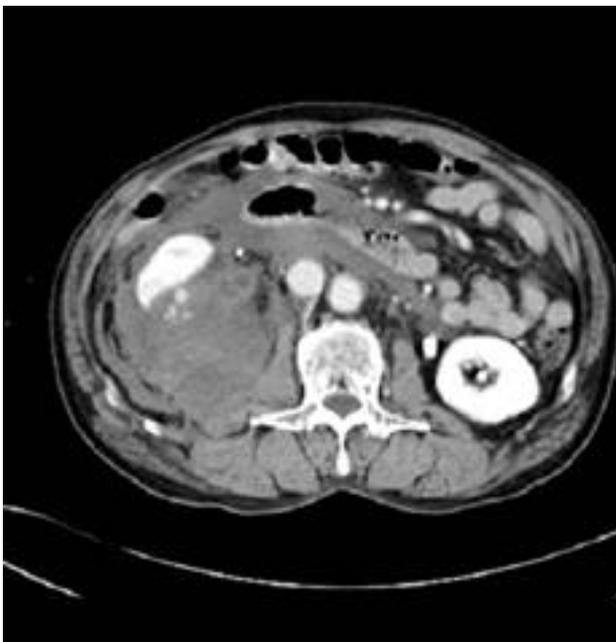


Fig. 3. Abdominal-pelvic CT of case 2 demonstrates pseudoaneurysmal formation and retroperitoneal hematoma formation in anterior and posterior pararenal space.



Fig. 4. Renal angiography of case 2 shows that the contrast is extravasated with pseudoaneurysm in lower pole of right kidney.

(blunt renal trauma)

I, II

III

(subcapular)

가

가

가

가

가

가

가

가

가

가

가

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