Huge bilateral renal angiomyolipoma

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DESCRIPTION

The 35-year-old woman with history of tuberous sclerosis was admitted due to right flank pain, abdominal fullness and gross hematuria. Persistent hypotension, fever with leukocytosis (white blood counts: 22 170/ μ l), and right upper quadrant mass with right side knocking pain were noted. Initial diagnosis was sepsis secondary to right side acute pyelonephritis. However, abdominal CT revealed huge heterogeneous masses in bilateral kidneys, with volume of 18 $\times$ 18 $\times$ 25 (cm³) on the right (white arrow) and 13 $\times$ 10 $\times$ 25 (cm³) on the left (open arrow) (figure 1A). The patient was sent to intensive

care unit and treated with broad spectrum antibiotics and fluid resuscitation. This patient did not respond well to such treatment. Thus, subsequent right nephrectomy was performed. The post-operative course was uneventful and she was discharged 2 weeks later. The pathology indicated huge angiomyolipoma measuring 28 $\times$ 20 $\times$ 15 (cm³) and 3750 gm. Immunostaining of histopathology with HMB-45 showed smooth muscle existence and confirmed the diagnosis (figure 1B). Huge bilateral renal angiomyolipoma is extremely rare. Bilateral giant renal angiomyolipoma reported by Katayama showed the tumour weighed 3200 g.¹ Giant bilateral renal angiomyolipoma reported by Ciancio showed the total tumour burden was 5500 g.² Kobayashi *et al* reported one case of bilateral massive renal angiomyolipoma. The total tumour burden weighed 5800 g, which was the largest angiomyolipoma by weight in published papers.³

Figure 1 (A) Abdominal CT revealed huge heterogeneous masses in bilateral kidneys. (B) Immunostaining of histopathology with HMB-45 showed the existence of smooth muscle.

Learning points

- ▶ Huge bilateral renal angiomyolipoma is extremely rare.
- ▶ Non-invasive CT image is a useful diagnostic tool.
- ▶ Immunostaining of histopathology with HMB-45 showed smooth muscle existence and confirmed the diagnosis.

Competing interests None.

Patient consent Obtained.

Provenance and peer review Commissioned; internally peer reviewed.

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