

후복막 신경초종에 동반되어 발생한 막성 신병증

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Membranous Nephropathy Associated with Retroperitoneal Schwannoma

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Introduction : The association of carcinoma with membranous nephropathy has been well established. However, membranous nephropathy associated with benign tumor is rare. In this uncommon case report, we present a female patient who developed clinical cure of membranous nephropathy after excision of a retroperitoneal schwannoma and had a relapse of proteinuria with recurrence of schwannoma.

Case : A 72-year-old woman with a history of hypertension was admitted to the hospital with generalized edema and weight gain of 4 months' duration. The 24 hr urine protein loss was 8.7 gram. At that time, ultrasound and CT scan of the abdomen showed 4×4×6 cm-sized and low densed soft tissue mass in the right paraspinal area. After edema control a renal biopsy performed and it showed membranous nephropathy. A laparoscopic excision was carried out and complete removal of the paraspinal mass was done. Histopathology of the mass revealed features of benign cellular schwannoma showing interlacing bundles of delicated spindle-shaped cells with marked cellularity. The tumor cells demonstrated mild pleomorphism, absent necrosis and positive immunohistochemical staining for S-100 protein and neurofilament. A follow-up of several months revealed a gradual decline of proteinuria to 0.9 gram. However, her proteinuria began to increase again 7 months after surgical excision. Follow-up of CT scan of the abdomen revealed recurrence of the schwannoma showing 5.7×4.2×4 cm sized mass with centrally low attenuation in right paraspinal area.

Conclusion : One of the evidences proposed to establish an etiological association between a nephropathy and a neoplasm is that clinical remission or improvement of proteinuria or nephrotic syndrome follows the effective treatment of the neoplasm. Furthermore, this rare case also shows that recurrence of the tumor is accompanied by the relapse of proteinuria.

Key Words : 막성신병증, 신경초종, 단백뇨

Membranous nephropathy, Schwannoma, Proteinuria