

난소암 환자에서 ifosfamide에 의한 근위세뇨관 손상

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Ifosfamide-induced Proximal Tubule Dysfunction in Patient with Ovarian Cancer

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Ifosfamide induced nephrotoxicity causes multiple tubular dysfunction, and most typical manifestation is in the form of Fanconi syndrome. We here report a Ifosfamide-induced renal injury which showed specific involvement of proximal tubules. A 32-year old woman was admitted due to generalized muscle weakness. She was diagnosed as ovarian cancer, and had been given ifosfamide chemotherapy. On admission, Renal function was impaired and serum and urine electrolytes were consistent with Faconi syndrome. The kidney biopsy revealed atrophy and falling of epithelial cells of the proximal renal tubule, and immunohistochemical staining of aquaporin 1 (AQP1), a specific marker of proximal tubule epithelial cell showed marked decreased immuno-reactivity of AQP1. On the other hand, AQP2 (marker for collecting duct epithelial cell), Bsc1 (marker for thick ascending limb epithelial cell) and OAT3 (marker for distal tubule epithelial cell) showed on difference of immunoactivity between control and patient. This finding clearly demonstrates that ifosfamice selectively impairs proximal tubule function.