

말기신부전에 의한 후각기능 장애의 투석후 회복

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Olfactory Dysfunction of ESRD Patients was Recovered by Initiation of Dialysis

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Background: Olfactory function was impaired in CKD patients. Previous cross sectional study showed that olfactory function, which was presented in the Cross Cultural Smell Identification Test (CC-SIT) scores, of ESRD patients receiving dialysis was not differ with those of healthy controls. However, there was no prospective study about the effect of dialysis on olfactory function in ESRD patients.

Purpose: This prospective study was designed to clarify the effect of initiation of dialysis on olfactory function of ESRD patients who initiate maintenance HD or PD.

Methods: A total 23 ESRD patients who initiate maintenance HD (n=8, age 58.2±10.4, DM 50.0%) or PD (n=15, age 53.6±5.2, DM 40.0%) were enrolled in the present study. We performed olfactory function test using the CC-SIT kit before initiation of the first dialysis at 1, 3, and 6 months after initiation of HD or PD.

Results: The CC-SIT scores were gradually increased with duration after initiation of dialysis, especially from 3 month. The CC-SIT scores significantly increased from 8.04±1.69 at baseline to 9.65±1.37 (p<0.001) at 3 month and to 9.83±1.34 (p<0.001) at 6 month. In PD patients, the increase of CC-SIT scores was notable from 1 month after initiation of PD. However, the CC-SIT scores in HD patients were significantly higher at 6 month after initiation of HD. The changes of CC-SIT were not different between DM and non-DM patients (DM: baseline 7.80±1.14, 1mon 8.40±1.51, 3 mon 9.40±1.51, 6 mon 9.80±1.48, Non-DM: baseline 7.60±1.90, 1mon 8.70±1.34, 3 mon 9.50±1.18, 6 mon 9.60±1.35).

Conclusion: These results suggest that smell disturbance in patients with ESRD could be recovered by initiation of HD or PD.

Key Words: 말기신부전, 후각기능, 투석
 ESRD, Olfactory dysfunction, Dialysis