

The changing of serum-oxydativ parameters on elderly patients suffering from End stage renal disease(ESRD) during Renal replacement therapy(RTH)

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Patients undergoing haemodialysis are known to lose low molecular weight antioxidants. This can cause an imbalance in antioxidant capacity levels.

In the period 1999-2001 /24 months/ the Center of Haemodialysis in Baja City /Gambro Healthcare Hungary/ treated 103 patients (pts) suffering from Esrd. They have been followed up on Rrth /complete treatment's number: 8071/. Among them 9 elderly pts /average age 70/ figured in our work. Session's modality was haemodialysis (HD).

Before and after HD lipidperoxidation's products were detected with a thiobarbituric acid's method modified by us, photometrically. The serum antioxidant capacity and in-vitro stimulated lipidperoxidation's level-detection were made with a special method developed by us measured photometrically. The other clinico-chemical measurements were done with routine methods, photometrically.

The results show the significant raising of the in-vitro stimulated-lipidperoxidations level 44.6 %, serum-lipidperoxidation-products level 11.2 %, the serum in-vitro stimulated lipidperoxidations level-serum cholesterin ratio 45.4 % and decreasing of the serum-antioxidant capacity 30.7 %.

The total antioxidant capacity seemed to be a useful tool for monitoring the effect of dialysis in elderly pts.