

Trace elements in hair and blood of hemodialysis patients

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Abstract

The objective of this study was to evaluate relation between plasma and hair trace elements in hemodialysis patients.

Plasma and hair iron, copper, zinc and selenium concentrations were measured by PIXE method in 25 control subjects and 28 patients treated with regular hemodialysis patients.

Although plasma iron, zinc and selenium levels were low in hemodialysis patients, no significant differences were observed in hair levels in hemodialysis patients and control subjects.

Relationship between plasma and hair trace elements in hemodialysis patients or control subjects were not correlated with plasma trace elements.

Hair trace elements in hemodialysis patients may be affected by the duration of hemodialysis, removal by dialysis and so on.