616-SP EFFECT ON HEART RATE VARIABILITY IN HEMODIALYSIS PATIENTS

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INTRODUCTION AND AIMS: The aim was to investigate the change of heart rate variability (HRV) in patients with CKD st. 5D in the correction of anemia with epoetin alfa.

METHODS: We examined 28 patients with anemia treated by hemodialysis. We investigated the effect of treatment with epoetin alfa on HRV. HRV was measured according to internationally accepted guidelines before and after 3 month of correction of anemia epoetinom alpha in the patients with CKD st. 5D. Age of patients was 54±5,1 years.

RESULTS: Patients receiving treatment with epoetin alfa there was an improvement the time-frequency analysis of heart rate variability. - Tabl.

Indicators of HRV				
Parameters of HRV	Before treatment	After 3 months	Norma	p
SDNN, ms	17 (13:31)	23 (18:38)	58 (42:78)	<0,001
rMSSD, ms	27 (13:34)	35 (27:36)	49 (32:61)	<0,01
pNN50, %	1,78 (0,71:2,01)	3,7 (1,9:4,4)	29 (10:51,4)	<0,001
TP, ms ²	887 (659:949)	1028 (954:1301)	3790 (2948:4714)	<0,001
HF, ms ²	197 (179:451)	289 (223:501)	975 (460:1378)	<0,001
LF, ms ²	1258 (978:1699)	1008 (889:1011)	1170 (676,1:1933)	<0,05
VLF, ms ²	1029 (614:1067)	834 (518:921)	765 (301:1134)	<0,001
LF/HF	3,5 (2,2:3,5)	2,7 (1,6:2,8)	0,7 (0,48:0,98)	<0,001

CONCLUSIONS: We determined improvement in the time-frequency analysis of heart rate variability in patients with CKD st. 5D.

