

## TABLES

Table 1: Thiol-disulfide homeostasis parameters of the study and control groups.

<b>Variables</b>	<b>Control (n=30)</b>	<b>CKD (stage 3-5) (n=30)</b>	<b>Hemodialysis (n=30)</b>	<b>p</b>
Native thiol ( $\mu\text{mol/L}$ )	463.1 $\pm$ 69.1	230.7 $\pm$ 59.9	202.6 $\pm$ 79.7	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.665 <sup>c</sup>
Total thiol ( $\mu\text{mol/L}$ )	495.7 $\pm$ 68.7	267.7 $\pm$ 66.4	264.9 $\pm$ 98.6	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.999 <sup>c</sup>
Disulfide ( $\mu\text{mol/L}$ )	16.3 $\pm$ 4.8	18.5 $\pm$ 7.4	31.2 $\pm$ 12.3	0.547 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
Disulfide / Native thiol (%)	3.6 $\pm$ 1.46	8.5 $\pm$ 4.4	20.7 $\pm$ 14.6	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
Disulfide /Total thiol (%)	3.3 $\pm$ 1.2	7.0 $\pm$ 3.3	13.4 $\pm$ 6.5	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
Native thiol / Total thiol (%)	93.3 $\pm$ 2.5	85.7 $\pm$ 5.7	73.4 $\pm$ 13.1	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
IMA (ABSU)	0.65 $\pm$ 0.06	0.88 $\pm$ 0.22	0.91 $\pm$ 0.17	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.935 <sup>c</sup>
TOS ( $\mu\text{mol H}_2\text{O}_2 \text{ equiv./lt}$ )	19.4 $\pm$ 4.4	27.1 $\pm$ 11.2	52.2 $\pm$ 24.7	0.004 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
TrxR (ng/mL)	5.2 $\pm$ 2.4	7.7 $\pm$ 2.1	27.3 $\pm$ 19.9	0.001 <sup>a</sup> ,0.001 <sup>b</sup> ,0.001 <sup>c</sup>
**CRP (mg/L)	4.02 $\pm$ 1.13	6.54 $\pm$ 3.01	9.86 $\pm$ 5.56	0.002 <sup>a</sup> ,0.001 <sup>b</sup> ,0.028 <sup>c</sup>
Median (min-max)	3.1 (3.1;6.0)	5.3 (4.1;15.0)	9.6 (1.2;20.9)	

\*ANOVA, \*\*Kruskal Wallis a: Control ve CKD (stage 3-5) ,b: Control and Hemodialysis, c: CKD (stage 3-5) and Hemodialysis

<b>Variables</b>		<b>Age</b>	<b>BUN</b>	<b>Creatinin</b>	<b>GFR</b>	<b>TAS</b>	<b>TOS</b>	<b>OSI</b>	<b>IMA</b>
Native thiol ( $\mu\text{mol/L}$ )	<b>r</b>	0.166	-0.747	-0.732	0.835	-0.389	-0.573	-	-0.628
	<b>p</b>	0.124	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total thiol( $\mu\text{mol/L}$ )	<b>r</b>	0.164	-0.747	-0.721	0.824	-0.383	-0.560	-	-0.631
	<b>p</b>	0.126	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Disulfide ( $\mu\text{mol/L}$ )	<b>r</b>	-0.057	0.143	0.254	-0.084	0.163	0.211	0.171	0.056
	<b>p</b>	0.603	0.240	0.020	0.537	0.192	0.057	0.123	0.617
Disulfide/Native thiol (%)	<b>r</b>	-0.097	0.597	0.672	-0.672	0.078	0.481	0.389	0.347
	<b>p</b>	0.373	0.001	0.001	0.001	0.197	0.001	0.001	0.001
Disulfide/Total thiol (%)	<b>r</b>	-0.098	0.651	-0.682	-0.682	0.269	0.470	0.351	0.390
	<b>p</b>	0.361	0.001	0.001	0.001	0.013	0.001	0.001	0.001
Native thiol /Total thiol (%)	<b>r</b>	0.099	-0.651	-0.725	0.682	-0.269	-0.470	-	-0.390
	<b>p</b>	0.361	0.001	0.001	0.001	0.013	0.001	0.001	0.001

\*Pearson correlation test

Table 2: Correlation analysis of thiol/disulfide homeostasis parameters of the study population

Table 3: Thiol-disulfide parameters in HD patients

<b>Parametreler</b>	<b>HD (before dialysis) (n=30)</b>	<b>HD (after dialysis) (n=30)</b>	<b>p</b>
Native thiol ( $\mu\text{mol/L}$ )	$202.6 \pm 79.7$	$305.2 \pm 78.2$	0.001
Total thiol ( $\mu\text{mol/L}$ )	$264.9 \pm 98.6$	$358.5 \pm 83.2$	0.002
Disulfide ( $\mu\text{mol/L}$ )	$31.2 \pm 12.3$	$26.6 \pm 7.71$	0.152
Disulfide / Native thiol (%)	$20.7 \pm 14.6$	$9.2 \pm 3.3$	0.001
Disulfide /Total thiol (%)	$13.4 \pm 6.5$	$7.65 \pm 2.34$	0.001
Native thiol/ Total thiol (%)	$73.4 \pm 13.1$	$84.7 \pm 4.63$	0.001
Alb (g/dL)	$3.97 \pm 0.24$	$4.97 \pm 0.71$	0.001
CRP (mg/L)	$9.86 \pm 5.56$	$5.47 \pm 2.34$	0.001
IMA (ABSU)	$0.91 \pm 0.17$	$0.87 \pm 0.17$	0.475
TAS (mmol Trolox equiv./lt)	$1.14 \pm 0.24$	$0.65 \pm 0.28$	0.001
TOS ( $\mu\text{mol H}_2\text{O}_2$ equiv./lt)	$27.1 \pm 11.2$	$75.1 \pm 40.2$	0.007
OSI (AU)	$2.5 \pm 1.1$	$12.4 \pm 8.3$	0.001
TrxR (ng/mL)	$27.3 \pm 19.9$	$28.3 \pm 19.4$	0.555

\*Paired samples t -test

Table 4: Comparison of albumin corrected results of thiol-disulfide parameters in hemodialysis patients

<b>Parametreler</b>	<b>HD (before dialysis) (n=30)</b>	<b>HD (after dialysis) (n=30)</b>	<b>p</b>
Corrected Native thiol ( $\mu\text{mol/L}$ )	$202.6 \pm 79.7$	$244.0 \pm 55.6$	0.143
Corrected Total tiyol ( $\mu\text{mol/L}$ )	$264.9 \pm 98.6$	$286.5 \pm 56.4$	0.567
Corrected Disulfide ( $\mu\text{mol/L}$ )	$31.2 \pm 14.6$	$21.2 \pm 5.49$	0.001
Corrected Disulfide / Native thiol (%)	$20.7 \pm 14.6$	$7.42 \pm 2.70$	0.001
Corrected Disulfide /Total thiol (%)	$13.4 \pm 6.5$	$6.17 \pm 1.95$	0.001
Corrected Native thiol /Total thiol (%)	$73.4 \pm 4.55$	$68.9 \pm 12.4$	0.062
*Paired samples t-test			