

**Table 1: Demographic, preoperative, peroperative and postoperative data of all patients and comparison of the groups**

<i>Parameters</i> (mean $\pm$ SD)	<b>All</b>	<b>ORT</b>	<b>RART</b>	<b>p</b>
<i>Age</i> (year)	40,9 $\pm$ 11,6	43,9 $\pm$ 11,8	37,5 $\pm$ 10,4	<b>0,002*</b>
<i>BMI</i> (kg/m <sup>2</sup> )	24,4 $\pm$ 2,9	24,8 $\pm$ 2,1	23,9 $\pm$ 3,5	0,088
<b>Preoperative</b>				
<i>Hemoglobin</i> (g/dL)	10 $\pm$ 2	10,5 $\pm$ 1,8	9,4 $\pm$ 2,1	<b>0,003*</b>
<i>Creatinine</i> (mg/dL)	6,9 $\pm$ 2,4	7,1 $\pm$ 1,8	6,8 $\pm$ 2,9	0,477
<i>eGFR</i> (mL/min/1,7)	10,6 $\pm$ 3,9	10,5 $\pm$ 3,5	10,6 $\pm$ 4,4	0,918
<i>Premptive</i> (n ; %)	44 (34,6)	20 (29,6)	24 (40)	0,256
<i>Operation Time</i> (mn)	248,1 $\pm$ 45,3	245,6 $\pm$ 47,6	251 $\pm$ 42,7	0,511
<i>Total ischemia time</i> (mn)	77,5 $\pm$ 22,4	71,2 $\pm$ 8,8	84,6 $\pm$ 29,9	<b>0,001</b>
<i>EBL</i> (ml)	193 $\pm$ 49,2	211,8 $\pm$ 27,7	172,3 $\pm$ 58,9	<b>&lt;0,001*</b>
<i>Incision Length</i> (cm)	8,2 $\pm$ 3,1	11 $\pm$ 1,4	5 $\pm$ 0,8	<b>&lt;0,001</b>
<b>Postoperative 1th Day</b>				
<i>Hemoglobin</i> (g/dL)	9,3 $\pm$ 1,3	9,1 $\pm$ 0,9	9,5 $\pm$ 1,6	0,083
<i>Creatinine</i> (mg/dL)	3,7 $\pm$ 1,4	3,7 $\pm$ 0,8	3,8 $\pm$ 1,8	0,533
<i>eGFR</i> (mL/min/1,7)	24 (14)''	24 (13)''	21 (18,8)''	<b>0,017</b>
<i>Length of stay</i> (day)	12 $\pm$ 9,4	14,3 $\pm$ 12,2	9,2 $\pm$ 3,1	<b>0,002</b>
<i>Drain withdrawal time</i> (day)	5 (4)''	6 (1,5)''	3 (1)''	<b>&lt;0,001</b>
<b>VAS (hour)</b>				
<b>Postoperative</b>				
<i>12th</i>	7 (1)''	7 (1)''	6 (2)''	<b>&lt;0,001</b>
<i>24th</i>	5,4 $\pm$ 1,3	6,1 $\pm$ 0,8	4,5 $\pm$ 1,2	<b>&lt;0,001</b>
<i>36th</i>	4 (1)''	5 (1)''	4 (2)''	<b>&lt;0,001</b>
<i>48th</i>	3 (1)''	4 (1)''	3 (2)''	<b>&lt;0,001</b>
<b>DGF</b>	5 (3,9)	3 (4,4)	2 (3,3)	0,387
<b>Postoperative 30th Day</b>				
<i>Hemoglobin</i> (g/dL)	11,2 $\pm$ 1,4	11 $\pm$ 0,8	11,5 $\pm$ 1,9	<b>0,045</b>
<i>Creatinine</i> (mg/dL)	1,4 $\pm$ 0,8	1,5 $\pm$ 1	1,3 $\pm$ 0,4	0,108
<i>eGFR</i> (mL/min/1,7)	66,5 $\pm$ 24,1	65,9 $\pm$ 25,1	67,2 $\pm$ 23,2	0,764*

Mann Whitney U test \* Independent Samples T test '' Presented as median (interquartile range) **ORT**: Open renal transplantation **RART**: Robot assisted renal transplantation **BMI**:

Body Mass Index **eGFR:** Mean Glomerular Filtration Rate **EBL:** Estimated Blood Loss  
**VAS:** Visual Analogue Scale

**Table 2: The primary reasons for End Stage Renal Disease.**

<b>Primary Reason</b>	<b>ORT (n ; %)</b>	<b>RART (n ; %)</b>
<i>Diabetes Mellitus</i>	11 (16,4)	11 (18,3)
<i>Hypertension</i>	11 (16,4)	32 (53,3)
<i>Chronic Glomerulonephritis</i>	5 (7,46)	1 (1,6)
<i>Obstructive Uropathy</i>	3 (4,47)	-
<i>Nephrotic Syndrome</i>	2 (2,98)	-
<i>IgA Nephropathy</i>	2 (2,98)	-
<i>Vesicoureteral Reflux</i>	1 (1,49)	-
<i>Idiopathic</i>	32 (47,7)	16 (26,6)

**ORT:** Open renal transplantation **RART:** Robot assisted renal transplantation

**Table 3: In-group changes of preoperative and postoperative 30<sup>th</sup> day SF-36 subparameters and comparison of the changes between two groups.**

Subparameters (mean $\pm$ SD)	ORT	RART	p
<b><i>PCS (Preop-Postop)</i></b>			
<b><i>PF</i></b>	76,7 $\pm$ 13,7	76,2 $\pm$ 15,9	<b>&lt;0,001*</b>
	55,8 $\pm$ 16,8	66,5 $\pm$ 13,4	
<b>p</b>	<b>&lt;0,001**</b>	<b>&lt;0,001**</b>	
<b><i>RP</i></b>	55,9 $\pm$ 19,7	55,4 $\pm$ 16,6	<b>0,002*</b>
	39,7 $\pm$ 14,5	51,5 $\pm$ 10,6	
<b>p</b>	<b>&lt;0,001**</b>	<b>0,201**</b>	
<b><i>BP</i></b>	75 $\pm$ 14,4	76,6 $\pm$ 23,2	<b>0,005*</b>
	58 $\pm$ 13,3	71,2 $\pm$ 12,7	
<b>p</b>	<b>&lt;0,001**</b>	<b>&lt;0,001**</b>	
<b><i>GH</i></b>	56,1 $\pm$ 19,9	50,6 $\pm$ 16,6	<b>&lt;0,001*</b>
	46 $\pm$ 16	57,5 $\pm$ 17,1	
<b>p</b>	<b>0,002**</b>	<b>0,007**</b>	
<b><i>MCS (Preop-Postop)</i></b>			
<b><i>MH</i></b>	73,2 $\pm$ 14,1	73,8 $\pm$ 16,3	0,936*
	67,1 $\pm$ 12,5	68,2 $\pm$ 20,4	
<b>p</b>	<b>0,009**</b>	<b>0,123**</b>	
<b><i>SF</i></b>	64,6 $\pm$ 22,8	62,2 $\pm$ 23	0,965*
	50,5 $\pm$ 21,6	47,9 $\pm$ 9	
<b>p</b>	<b>&lt;0,001**</b>	<b>&lt;0,001**</b>	
<b><i>RE</i></b>	62,4 $\pm$ 17,5	63,2 $\pm$ 20,4	0,702*
	74,5 $\pm$ 13,3	72,7 $\pm$ 24	
<b>p</b>	<b>&lt;0,001**</b>	<b>0,026**</b>	
<b><i>VT</i></b>	48,7 $\pm$ 16,7	48 $\pm$ 13,3	0,570*
	50,3 $\pm$ 18,9	52 $\pm$ 10,9	
<b>p</b>	<b>0,596**</b>	<b>0,015**</b>	

\*Independent Samples T test \*\*Paired sample t test **ORT**: Open renal transplantation

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**RART:** Robot assisted renal transplantation **PCS:** Physical Component Score **PF:** Physical functioning **RP:** Physical role functioning **BP:** Bodily Pain **MCS:** Mental Component Score **GH:** General Health Perceptions **MH:** Mental Health **SF:** Social functioning **RE:** Emotional role functioning **VT:** Vitality

**Table 4: Comparisons of preoperative and postoperative 30<sup>th</sup> day PCS and MCS changes**

	<b>ORT</b> (mean $\pm$ SD)	<b>RART</b> (mean $\pm$ SD)
<b>PCS</b>		
<b>Preoperative</b>	45 $\pm$ 5,1	44,3 $\pm$ 5,8
<b>Postoperative</b>	36,1 $\pm$ 4,3	42,5 $\pm$ 4,4
<b>p</b>	<b>0,000**</b>	0,062**
<b>MCS</b>		
<b>Preoperative</b>	49,5 $\pm$ 6,2	46,4 $\pm$ 5,6
<b>Postoperative</b>	48,1 $\pm$ 5	45,8 $\pm$ 6,9
<b>p</b>	0,154**	0,628**

\*Independent Samples T test \*\*Paired sample t test **ORT:** Open renal transplantation **RART:** Robot assisted renal transplantation **PCS:** Physical Component Score **MCS:** Mental Component Score

**Table 5: Parameters affecting preoperative and postoperative PCS and MCS.**

Parameters	P and Correlation Coefficients	
	MCS (preop.)	PCS (postop.)
<b>Creatinine (preop.)</b>	<b>0,031* (-,192)</b>	<b>-</b>
<b>EBL</b>	<b>-</b>	<b>&lt;0,001** (-,366)</b>
<b>VAS 12th hour</b>	<b>-</b>	<b>0,003** (-,263)</b>
<b>VAS 24th hour</b>	<b>-</b>	<b>0,001** (-,295)</b>
<b>VAS 36th hour</b>	<b>-</b>	<b>&lt;0,001** (-,312)</b>
<b>VAS 48th hour</b>	<b>-</b>	<b>&lt;0,001** (-,297)</b>
<b>Drain withdrawal time</b>	<b>-</b>	<b>&lt;0,001** (-,496)</b>
<b>Length of stay</b>	<b>-</b>	<b>&lt;0,001** (-,366)</b>
<b>Presence of Complication</b>	<b>-</b>	<b>&lt;0,001** (-,492)</b>
<b>Hg (postop. 30th day)</b>	<b>-</b>	<b>0,017* (,211)</b>

\*Independent Samples T test **PCS:** Physical Component Score **MCS:** Mental Component Score **EBL:** Estimated Blood Loss **VAS:** Visual Analogue Scale **Hg:** Hemoglobin

\*\* Correlation is significant at the 0.01 level (2-tailed). \* Correlation is significant at the 0.05 level (2-tailed)