

The supplementary materials include:

1. Table 1 with statistical details on correlations of renal resistive index (rRI) and renal shear wave elasticity (rSWE) with age, serum creatinine concentration and eGFR
2. Table 2 with statistical details of comparison of rRI and rSWE at 3 timepoints stratified by acute kidney injury (AKI), sepsis, graft versus host disease
3. Table 3 with statistical details of correlations of cyclosporin A and tacrolimus concentrations with rRI and rSWE
4. Figure 1 illustrating comparison of rRI and rSWE at 3 timepoints: baseline, discharge and after day +100
5. Figure 2 illustrating box plots of comparison of discharge/baseline ratio of rSWE in patients with and without hypotension requiring vasopressors

Supplementary Table 1. Correlations of rRI and rSWE with sCr and eGFR

	Sperman R	<i>p</i> -value	Sperman R	<i>p</i> -value
	Baseline rRI		Baseline rSWE	
Age	0.42	0.017	0.06	0.76
BMI	0.40	0.023	0.27	0.14
Baseline sCr	-0.03	0.98	-0.18	0.34
Baseline eGFR	-0.17	0.30	0.12	0.52
sCr +100	0.45	0.012	0.003	0.88
eGFR +100	-0.56	0.001	0.03	0.79

BMI – body mass index, sCr – serum creatinine concentration, eGFR – estimated glomerular filtration rate, rRI – renal resistive index, rSWE – renal shear wave elasticity

Supplementary Table 2. Comparison of rRI and rSWE at 3 timepoints stratified by AKI, sepsis, aGvHD and cGvHD

	timepoint	AKI	sepsis	aGvHD	cGvHD
rRI	Baseline	0.46	0.23	0.72	0.72
	Discharge	0.20	0.74	0.72	0.49
	Discharge/baseline	0.19	0.75	1.0	0.33
	+100	0.91	0.82	0.67	0.29
	+100/baseline	0.77	0.87	0.77	0.37
	rSWE	Baseline	0.58	0.58	0.87
	Discharge	0.68	0.72	0.68	0.44
	Discharge/baseline	0.61	0.72	0.83	0.80
	+100	0.47	0.35	0.09	0.017
	+100/baseline	0.48	0.60	0.84	0.033

aGvHD – acute graft versus host disease, AKI – acute kidney injury, cGvHD – chronic graft versus host disease, rRI – renal resistive index, rSWE – renal shear wave elasticity

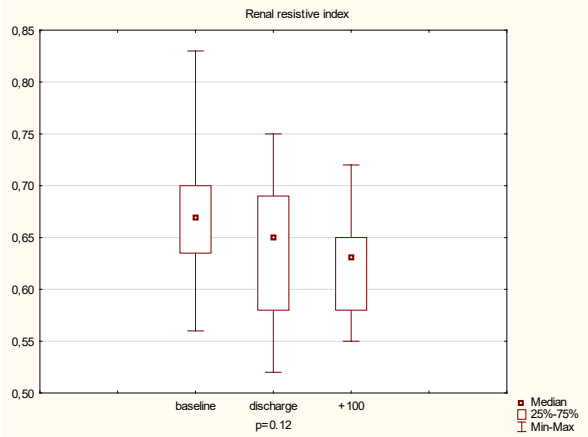
Supplementary Table 3. Correlations of cyclosporin A and tacrolimus concentrations with rRI and rSWE, ratio of rSWE to baseline and difference (delta) of rRI and rSWE between repeated and baseline measurement of patients who received calcineurin inhibitors at the time of repeated measurement

	<i>n</i>	Spearman R	<i>p</i>
rRI & rSWE	56	0.202	0.14
CSA & rRI	23	0.143	0.52
CSA & rRI/baseline	21	0.141	0.54
CSA & delta rRI	21	0.175	0.44
CSA & rSWE	19	-0.071	0.77
CSA & rSWE/baseline	19	0.204	0.40
CSA & delta rSWE	19	0.196	0.42
TAC & rRI	6	0.029	0.96
TAC & rRI/baseline	6	-0.029	0.96
TAC & delta rRI	6	-0.028	0.98
TAC & rSWE	6	0.0	1.00
TAC & rSWE/baseline	6	-0.371	0.47
TAC & delta rSWE	6	-0.257	0.62

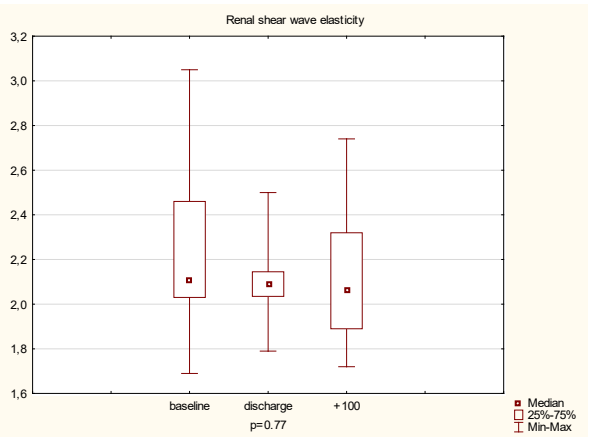
CSA – cyclosporin A, rRI – renal resistive index, rSWE – renal shear wave elasticity, TAC – tacrolimus

Supplementary Figure 1. Comparison of renal resistive index (A) and renal shear wave elasticity (B) at 3 timepoints

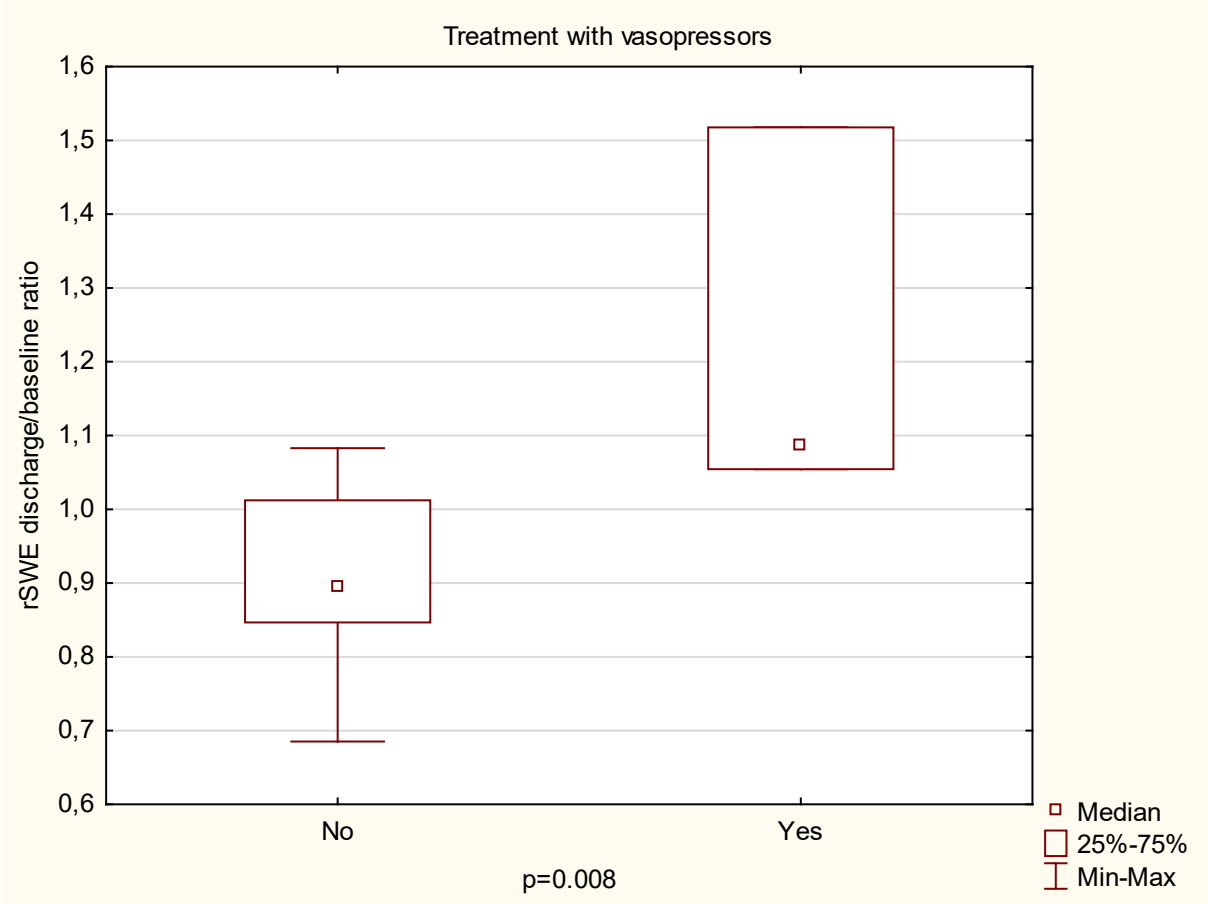
A



B



Supplementary Figure 2. Comparison of discharge/baseline ratio of rSWE in patients with and without hypotension requiring vasopressors



rSWE – renal shear wave elasticity