

**Suppl. Table 1. Spearman rank correlation between Stiffness and baseline variables**

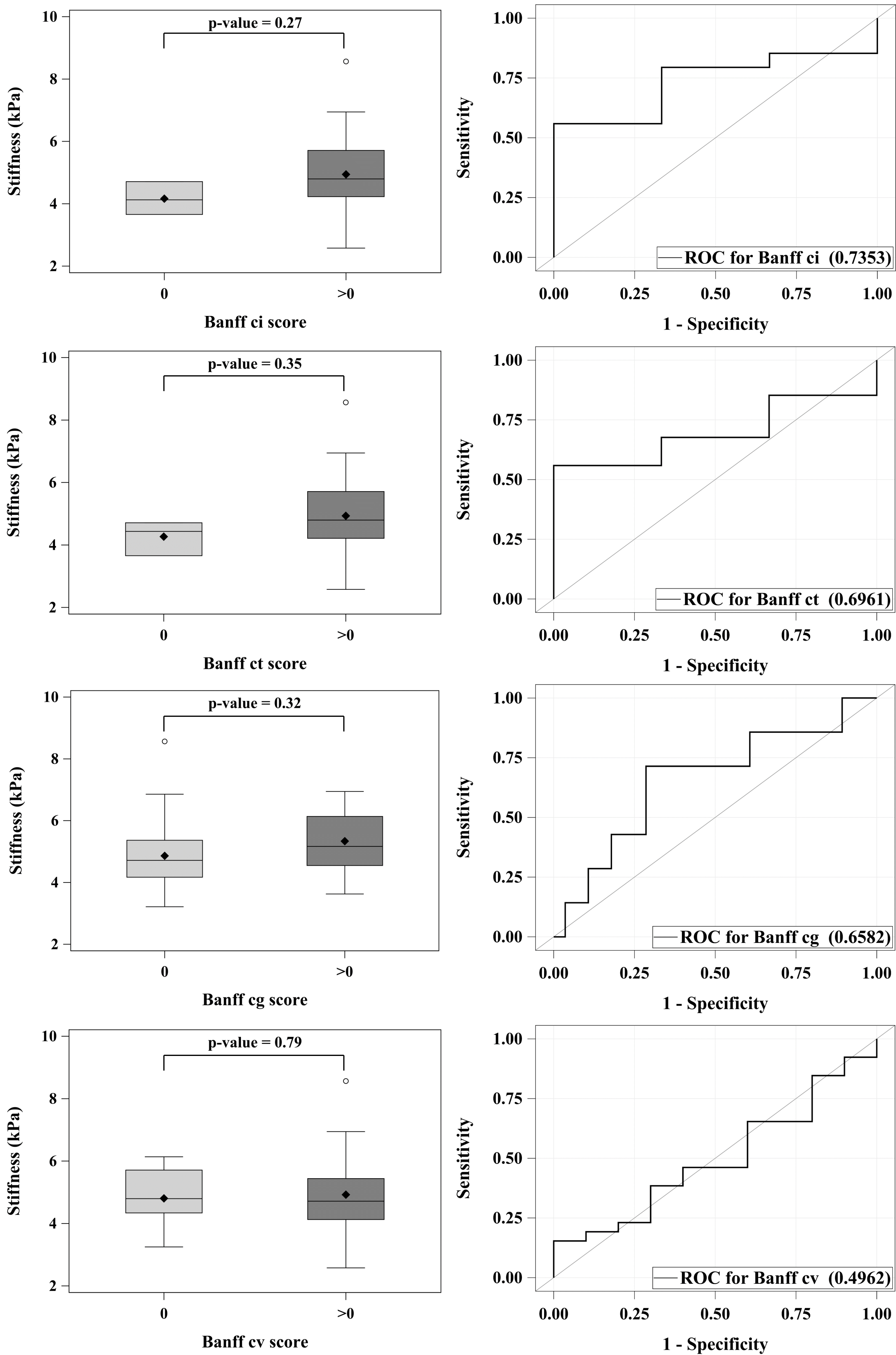
	Correlation Coefficients	p -value
Age	0.0460	0.7091
Gender	-0.1142	0.3537
Diabetes Status	0.0314	0.7994
Rejection History	0.0360	0.7705
Baseline eGFR	-0.0551	0.6556
Baseline ACR	0.2309	0.0582
Biopsy Status	0.0143	0.9076
<b>MAKE</b>	<b>0.3033</b>	<b>0.0119</b>
Arteriolar hyalinosis (ah)	0.0267	0.8789
Glomerular double contours (cg)	0.2076	0.2315
Interstitial fibrosis (ci)	-0.0853	0.6155
Tubular atrophy (ct)	-0.1296	0.4446
Vascular fibrous intimal thickening (cv)	0.0853	0.6209
<b>Glomerulitis (g)</b>	<b>0.4826</b>	<b>0.0033</b>
Interstitial inflammation (i)	0.2661	0.1167
Mesangial matrix increase (mm)	0.1150	0.5171
Peritubular capillaritis (ptc)	0.2667	0.1159
Tubulitis (t)	0.0829	0.6352
Intimal arteritis (v)	0.2522	0.1378
<b>Microvascular inflammation (g + ptc)</b>	<b>0.4822</b>	<b>0.0034</b>
Non-vascular inflammation (t + i)	0.0849	0.6277

**Suppl. Table 2. Association between Stiffness and Major Adverse Kidney Events (MAKE)**

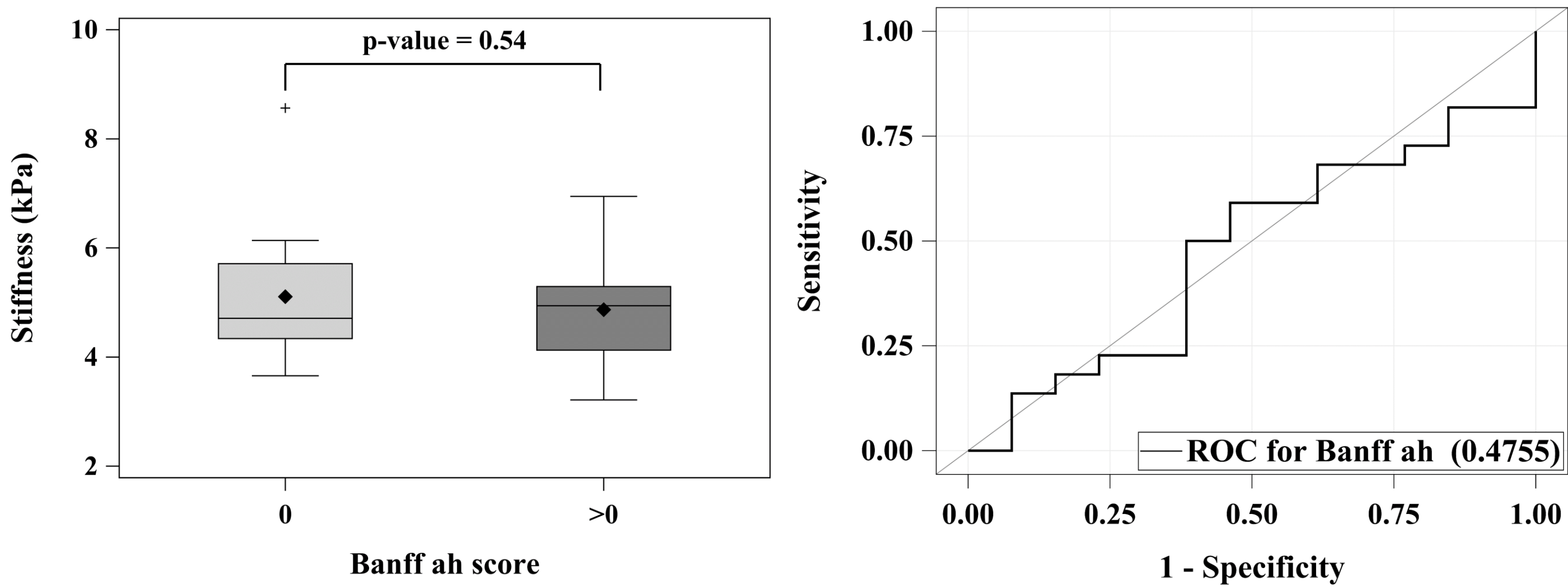
<b>Models</b>	<b>1</b>	<b>2</b>	<b>3</b>
MRE-Stiffness (per kPa)	1.82 [1.10 – 2.99] *		1.72 [1.03 – 2.89] *
Baseline eGFR (per mL/min/1.73m <sup>2</sup> )		0.97 [0.93 – 1.01]	0.97 [0.93 – 1.01]
Baseline ACR		1.00 [1.00 – 1.01] *	1.00 [ 1.00 – 1.01] *
Area Under Curve	0.685	0.811	0.845
p-value vs Model 2 (Chi-Square test)	0.126		0.304

\*  $p < 0.05$

*Models 1 and 2 are unadjusted. Model 3 is model 1 and further adjusts for baseline eGFR and baseline ACR.*



**Supplemental Figure 1. Stiffness does not associate with chronic Banff histologic scores.** The figure shows p-values (left column) and AUC (right column) derived from binary logistic regression analyses comparing each histologic score with stiffness.



**Supplemental Figure 2.** Individual boxplots and ROC curves when patients were organized by the individual Banff histologic score ah (arteriolar hyalinosis). The figure shows p-values (left column) and AUC (right column) derived from binary logistic regression analysis. Due to insufficient data, the analyses for Banff v (intimal arteritis) score could not be performed.