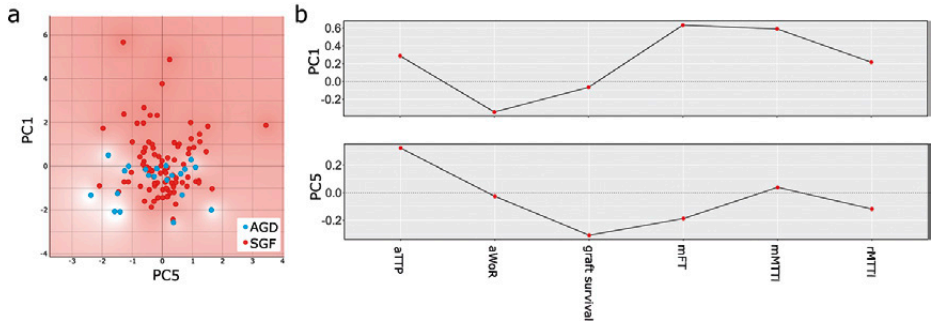


Supplementary Figure 1. a. Scatter plot depicting the unsupervised clustering of patients with acute kidney graft dysfunction (AGD) or a stable kidney graft function (SGF) based on five parameters derived from contrast-enhanced ultrasound (CEUS) analysis of kidneys along with graft survival. The figure depicts the score values of principal component (PC) 1 and PC 5, which achieved the best clustering of the two groups; **b.** The loading plots of PC 1 and PC 5 depict the contributions of the five CEUS-derived features. FT = fall time; MTTl = mean transit time local; TTP = time to peak; WoR = wash out rate; a = segmental artery; m = renal medulla.

Supplementary Table I. The figures of merit for the machine learning algorithms trained on CEUS-derived parameters.

Model	AUC	CA	F1	Precision	Recall
Naïve Bayes	0.68	0.78	0.77	0.76	0.78
k-NN	0.68	0.79	0.76	0.75	0.79
Logistic regression	0.72	0.67	0.70	0.78	0.67