

Table S1 Consistency analysis of MRI quantitative parameters between two radiologists

Parameters	ICC	P
Left kidney		
cT ₁	0.934	<0.001*
mT ₁	0.931	<0.001*
ΔT ₁	0.825	<0.001*
T ₁ %	0.836	<0.001*
cADC	0.891	<0.001*
mADC	0.904	<0.001*
ΔADC	0.856	<0.001*
ADC%	0.861	<0.001*
cR ₂ *	0.885	<0.001*
mR ₂ *	0.866	<0.001*
ΔR ₂ *	0.829	<0.001*
R ₂ *%	0.791	<0.001*
Right kidney		
cT ₁	0.946	<0.001*
mT ₁	0.938	<0.001*
ΔT ₁	0.888	<0.001*
T ₁ %	0.894	<0.001*
cADC	0.821	<0.001*
mADC	0.827	<0.001*
ΔADC	0.822	<0.001*
ADC%	0.818	<0.001*
cR ₂ *	0.877	<0.001*
mR ₂ *	0.801	<0.001*
ΔR ₂ *	0.795	<0.001*
R ₂ *%	0.768	<0.001*

, P<0.05. ΔADC, mean corticomedullary ADC difference; ΔR₂, mean corticomedullary R₂* difference; ΔT₁, mean corticomedullary T₁ difference; ADC, apparent diffusion coefficient; ADC%, mean corticomedullary ADC ratio; cADC, mean cortical ADC; cR₂*, mean cortical R₂*; cT₁, mean cortical T₁; ICC, intraclass correlation coefficient; mADC, mean medullary ADC; mR₂*, mean medullary R₂*; MRI, magnetic resonance imaging; mT₁, mean medullary T₁; R₂*%, mean corticomedullary R₂* ratio; T₁%, mean corticomedullary T₁ ratio.

Table S2 Comparison of MRI quantitative parameters of the left and right kidneys in patients with CKD

Parameters	Left kidney	Right kidney	Statistics	P
cT ₁ (ms)	1,616.91±115.36	1,619.41±118.13	-0.923	0.358
mT ₁ (ms)	2,054.03 (1,989.08, 2,141.47)	2,047.28 (1,995.28, 2,137.92)	-0.185	0.853
ΔT ₁ (ms)	-448.76±97.10	-449.32±99.57	0.420	0.676
T ₁ %	0.7832±0.0438	0.7833±0.0446	-0.155	0.877
cADC (×10 ⁻³ mm ² /s)	2.03±0.20	2.02 (1.93, 2.14)	-0.341	0.733
mADC (×10 ⁻³ mm ² /s)	1.83 (1.73, 2.03)	1.90±0.21	-0.461	0.645
ΔADC (×10 ⁻³ mm ² /s)	0.15 (0.08, 0.23)	0.13±0.13	-1.299	0.194
ADC%	1.08±0.07	1.07±0.07	1.294	0.198
cR ₂ [*] (s ⁻¹)	17.86 (17.17, 18.47)	17.98 (17.16, 18.57)	-0.643	0.520
mR ₂ [*] (s ⁻¹)	37.87 (34.60, 40.31)	37.50 (34.69, 40.37)	-1.345	0.179
ΔR ₂ [*] (s ⁻¹)	-19.55 (-22.14, -17.43)	-19.33 (-22.20, -17.26)	-0.912	0.362
R ₂ [*] %	0.48±0.06	0.48±0.05	-0.544	0.587

Data are expressed as mean ± standard deviation or median (lower quartile, upper quartile). ΔADC, mean corticomedullary ADC difference; ΔR₂^{*}, mean corticomedullary R₂^{*} difference; ΔT₁, mean corticomedullary T₁ difference; ADC, apparent diffusion coefficient; ADC%, mean corticomedullary ADC ratio; cADC, mean cortical ADC; cR₂^{*}, mean cortical R₂^{*}; cT₁, mean cortical T₁; mADC, mean medullary ADC; mR₂^{*}, mean medullary R₂^{*}; MRI, magnetic resonance imaging; mT₁, mean medullary T₁; R₂^{*}%, mean corticomedullary R₂^{*} ratio; RF, renal fibrosis; T₁%, mean corticomedullary T₁ ratio.