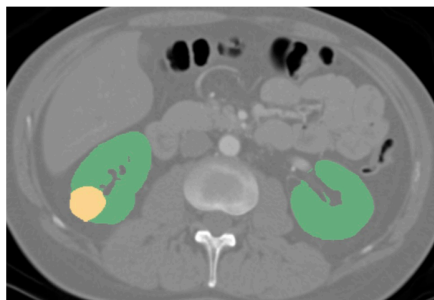
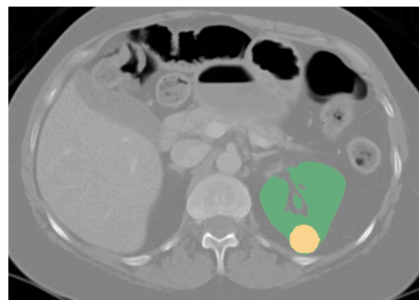


Supplementary Information: Classification of Benign and Malignant Renal Tumors Based on CT Scans and Clinical Data Using Machine Learning Methods

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(a) Malignant tumor



(a) Benign tumor

Supplementary Figure S1. Examples of CT scans: (a) malignant tumor; (b) benign tumor. Green Area: Renal, Yellow Area: Tumor.

Supplementary Table S1. P-values from the Mann-Whitney U test comparing AUCs of two models.

Models		Both			Radiomics			Scans	Clinical	
		RF	XG Boost	MLP	RF	XG Boost	MLP	3D CNN	RF	XG Boost
Clinical	*MLP	0.002	0.043	***	0.001	***	***	***	***	***
	XGBoost	***	***	***	***	***	***	***	0.019	
	*RF	***	***	***	***	0.002	***	***		
Scans	3DCNN	***	***	0.872	***	***	0.78			
Radiomics	MLP	***	***	0.666	***	***				
	XGBoost	***	***	***	***					
	RF	0.871	0.172	***						
*Both	MLP	***	***							
	XGBoost	0.229								

*MLP: Multilayer perceptron; *RF: Random Forest; *Both: clinical and radiomic features
 * p-value < 0.001 (Mann-Whitney U test): ***