

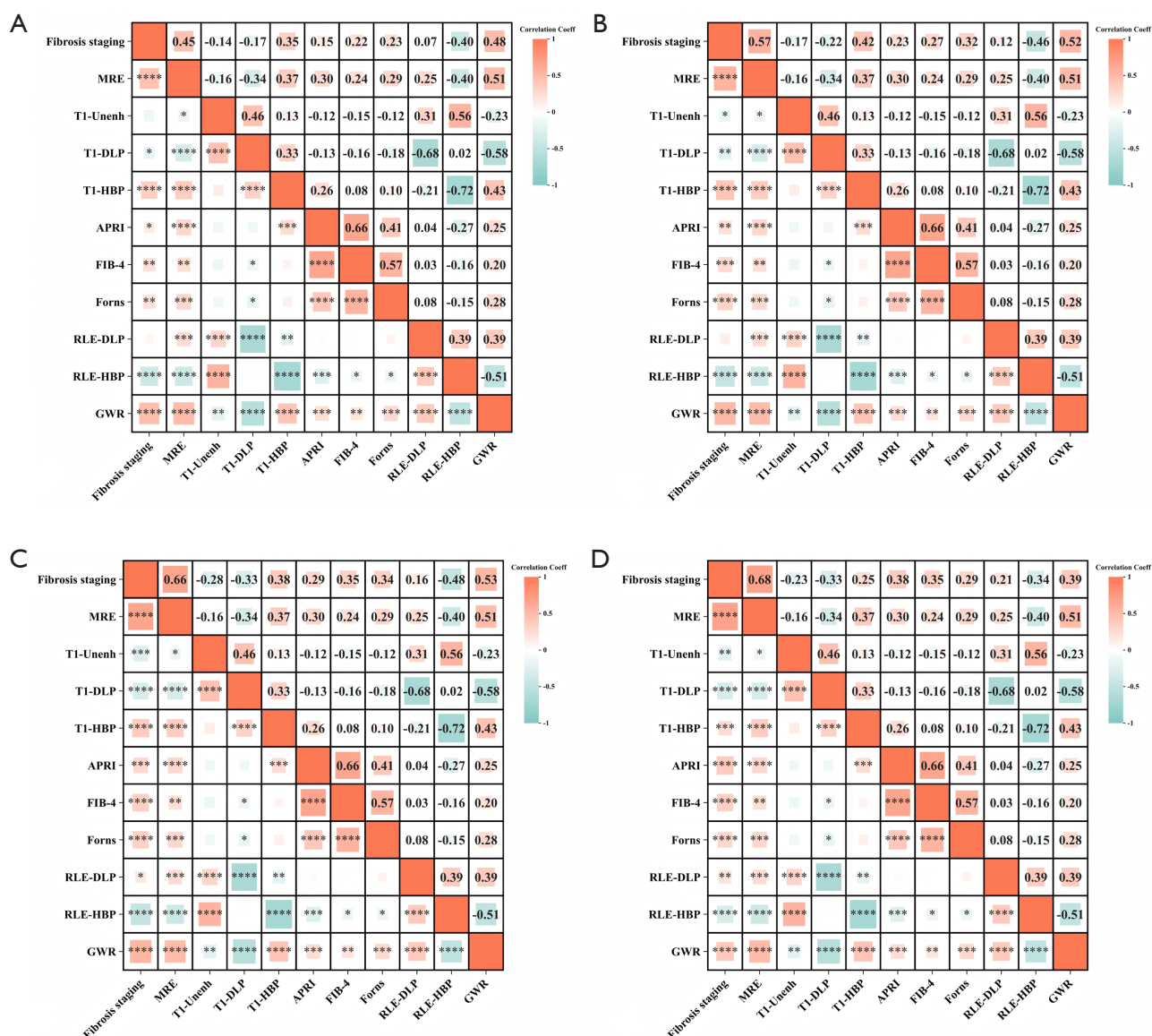


Figure S1 Heatmap of the correlation of various indicators with METAVIR fibrosis staging in different fibrosis grades. (A-D) Pearson correlation coefficient heatmaps of various indicators with METAVIR fibrosis staging for fibrosis grades $\geq$ F1 to $\geq$ F4, respectively. Available online: <https://www.chiplot.online>. APRI, aminotransferase-to-platelet ratio; FIB-4, Fibrosis-4 index; GWR, gadobenate washout rate; MRE, magnetic resonance elastography; RLE-DLP, relative enhancement rate of the delayed phase in T1 mode; RLE-HBP, relative enhancement rate of the hepatobiliary phase in T1 mode; T1-HBP, longitudinal relaxation time of the 120-minute hepatobiliary phase; T1-Unenh, unenhanced longitudinal relaxation time.

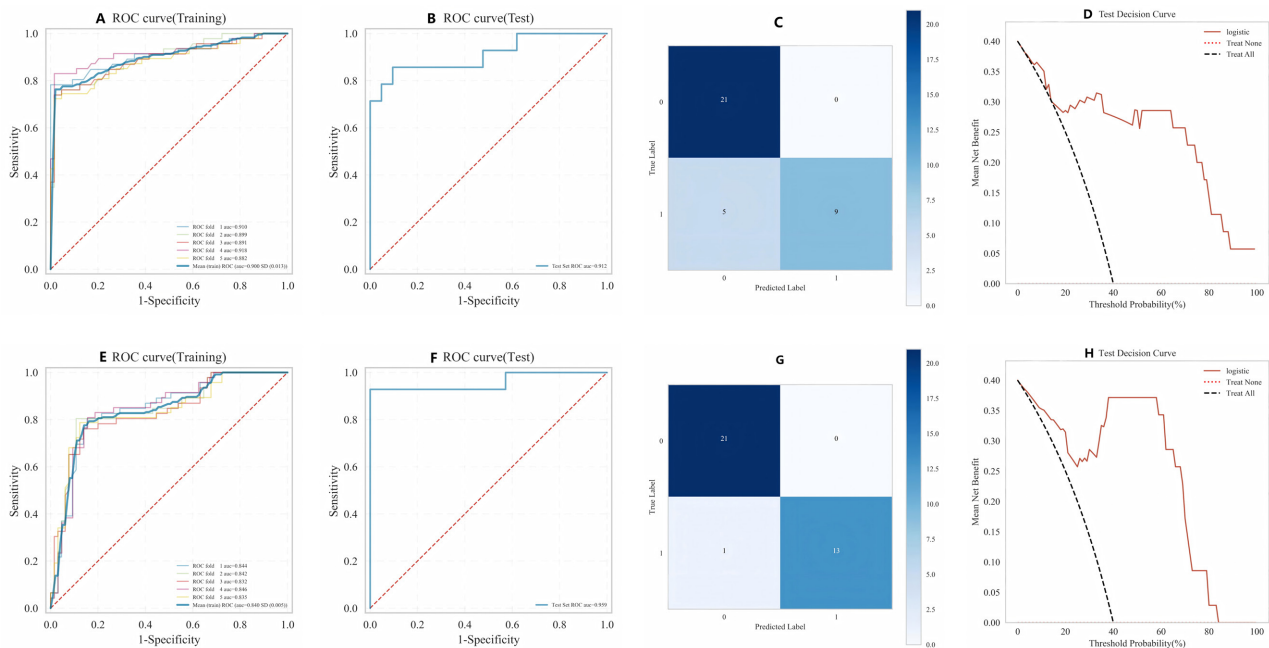


Figure S2 Five-fold cross-validation, confusion matrix, and DCA for advanced fibrosis ($\geq F3$). (A-D) The fivefold cross-validation results for diagnosing advanced fibrosis ($\geq F3$) via the MRE model, including the average training set AUC, test set AUC, confusion matrix, and decision curve analysis. (E-H) The fivefold cross-validation results for diagnosing advanced fibrosis ($\geq F3$) via the GWR model, including the average training set AUC, test set AUC, confusion matrix, and decision curve analysis. The MRE model demonstrated a higher test set AUC, lower false-negative and false-positive rates in the confusion matrix, and higher net benefit at intermediate thresholds in the DCA. AUC, area under the curve; DCA, decision curve analysis; GWR, gadobenate washout rate; MRE, magnetic resonance elastography.

Table S1 Group differences for various indicators across fibrosis stages

Grade	Variable	Overall	F0 (n=39)	F1–F4 (n=135)	t	P
≥ F1	MRE	3.769±1.759	2.283±0.357	4.199±1.769	−11.723	<0.001
	T1-Unenh	792.340±124.015	825.508±122.055	782.759±122.921	1.905	0.058
	T1-DLP	462.499±96.084	493.720±96.884	453.480±93.940	2.326	0.021
	T1-HBP	459.475±97.850	395.792±54.827	477.873±99.811	−6.626	<0.001
	RLE-DLP	0.763±0.353	0.715±0.325	0.777±0.360	−0.957	0.34
	RLE-HBP	0.792±0.446	1.127±0.455	0.696±0.394	5.768	<0.001
	GWR	−0.172±0.736	−0.833±0.978	0.019±0.509	−5.173	<0.001
	APRI ×10 ⁵	10.252±15.806	5.845±5.558	11.526±17.489	−1.988	0.048
	FIB-4	2.490±2.835	1.341±0.940	2.822±3.100	−4.803	<0.001
	Variable	Overall	F0–F1 (n=102)	F2–F4 (n=72)	t	P
≥ F2	MRE	3.769±1.759	2.537±0.446	4.560±1.831	−10.829	<0.001
	T1-Unenh	792.340±124.015	819.198±121.718	775.111±122.402	2.31	0.022
	T1-DLP	462.499±96.084	490.261±89.728	444.689±95.803	3.12	0.002
	T1-HBP	459.475±97.850	408.922±64.704	491.905±101.686	−6.541	<0.001
	RLE-DLP	0.763±0.353	0.706±0.312	0.799±0.373	−1.701	0.091
	RLE-HBP	0.792±0.446	1.049±0.438	0.628±0.367	6.796	<0.001
	GWR	−0.172±0.736	−0.655±0.820	0.138±0.459	−8.108	<0.001
	APRI ×10 ⁵	10.252±15.806	5.752±5.394	13.140±19.238	−3.713	<0.001
	FIB-4	2.490±2.835	1.552±1.294	3.091±3.345	−4.244	<0.001
	Variable	Overall	F0–F2 (n=68)	F3–F4 (n=106)	t	P
≥ F3	MRE	3.769±1.759	2.792±0.608	5.154±1.919	−10.024	<0.001
	T1-Unenh	792.340±124.015	821.953±126.570	750.389±107.100	3.888	<0.001
	T1-DLP	462.499±96.084	489.052±88.314	424.882±94.065	4.568	<0.001
	T1-HBP	459.475±97.850	428.471±77.022	503.398±106.975	−5.053	<0.001
	RLE-DLP	0.763±0.353	0.716±0.323	0.829±0.382	−2.082	0.039
	RLE-HBP	0.792±0.446	0.972±0.443	0.538±0.305	7.16	<0.001
	GWR	−0.172±0.736	−0.501±0.745	0.294±0.387	−9.115	<0.001
	APRI ×10 ⁵	10.252±15.806	6.417±8.725	15.686±21.108	−3.496	<0.001
	FIB-4	2.490±2.835	1.650±1.242	3.679±3.850	−4.287	<0.001
	Variable	Overall	F0–F3 (n=140)	F4 (n=34)	t	P
≥ F4	MRE	3.769±1.759	3.177±0.987	6.207±2.106	−8.056	<0.001
	T1-Unenh	792.340±124.015	806.214±126.042	735.213±96.109	3.057	0.003
	T1-DLP	462.499±96.084	478.209±93.122	397.809±79.618	4.613	<0.001
	T1-HBP	459.475±97.850	447.344±93.924	509.426±97.848	−3.409	<0.001
	RLE-DLP	0.763±0.353	0.727±0.326	0.912±0.418	−2.379	0.022
	RLE-HBP	0.792±0.446	0.868±0.448	0.480±0.267	6.47	<0.001
	GWR	−0.172±0.736	−0.315±0.732	0.414±0.369	−8.158	<0.001
	APRI ×10 ⁵	10.252±15.806	7.309±9.646	22.371±26.701	−3.191	0.003
	FIB-4	2.490±2.835	2.005±1.847	4.485±4.705	−2.974	0.005

≥ F1 (F0 vs. F1 + F2 + F3 + F4), early fibrosis diagnosis; ≥ F2 (F0 + F1 vs. F2 + F3 + F4), significant fibrosis diagnosis; ≥ F3 (F0 + F1 + F2 vs. F3 + F4), advanced fibrosis diagnosis; ≥ F4 (F0 + F1 + F2 + F3 vs. F4), cirrhosis diagnosis. APRI, aminotransferase-to-platelet ratio; FIB-4, Fibrosis-4 index; GWR, gadobenate washout rate; MRE, magnetic resonance elastography; RLE-DLP, relative enhancement rate of the delayed phase in T1 mode; RLE-HBP, relative enhancement rate of the hepatobiliary phase in T1 mode; T1-DLP, longitudinal relaxation time of the 5-minute delay phase; T1-HBP, longitudinal relaxation time of the 120-minute hepatobiliary phase; T1-Unenh, unenhanced longitudinal relaxation time.