

Table S1.Performance Evaluation of the 2D Ultrasound Model

Model Name	Acc	AUC	95% CI	Sen	Spe	PPV	NPV	Precision	Recall	F1	Threshold	Cohort
fold0	0.74	0.85	0.75-0.95	0.83	0.70	0.56	0.90	0.56	0.83	0.67	0.29	TRAIN
fold0	0.79	0.71	0.52-0.89	0.40	0.88	0.40	0.88	0.40	0.40	0.40	0.43	TEST
fold1	0.83	0.80	0.694-0.92	0.92	0.80	0.55	0.97	0.55	0.92	0.69	0.25	TRAIN
fold1	0.78	0.69	0.53-0.85	0.48	0.95	0.83	0.76	0.83	0.48	0.61	0.57	TEST
fold2	0.83	0.83	0.73-0.94	0.88	0.81	0.64	0.94	0.64	0.88	0.74	0.19	TRAIN
fold2	0.76	0.81	0.70-0.92	0.86	0.73	0.50	0.94	0.50	0.86	0.63	0.20	TEST

Table S2.Performance Evaluation of the SWE Model

Model Name	Acc	AUC	95% CI	Sen	Spe	PPV	NPV	Precision	Recall	F1	Threshold	Cohort
fold0	0.97	0.98	0.95-1.00	0.94	0.98	0.94	0.98	0.94	0.94	0.94	0.37	TRAIN
fold0	0.79	0.70	0.48-0.91	0.50	0.85	0.42	0.89	0.42	0.50	0.46	0.54	TEST
fold1	0.88	0.98	0.95-1.00	0.92	0.87	0.65	0.98	0.65	0.92	0.76	0.22	TRAIN
fold1	0.78	0.77	0.64-0.90	0.46	0.97	0.91	0.75	0.91	0.46	0.61	0.32	TEST
fold2	0.95	0.99	0.96-1.00	0.89	0.98	0.94	0.95	0.94	0.89	0.91	0.55	TRAIN
fold2	0.76	0.86	0.75-0.97	0.86	0.73	0.50	0.94	0.50	0.86	0.63	0.32	TEST

Table S3. Performance Evaluation of the Combined Model

Model Name	Acc	AUC	95% CI	Sen	Spe	PPV	NP V	Preci sion	Rec all	F1	Thr esh old	Cohort
fold0	0.93	0.98	0.95-1.00	0.84	0.97	0.94	0.93	0.94	0.84	0.89	0.42	TRAIN
fold0	0.91	0.92	0.82-1.00	0.73	0.96	0.80	0.94	0.80	0.73	0.76	0.52	TEST
fold1	0.81	0.92	0.83-1.00	0.83	0.80	0.53	0.95	0.53	0.83	0.65	0.22	TRAIN
fold1	0.83	0.84	0.73-0.94	0.82	0.83	0.75	0.88	0.75	0.82	0.78	0.52	TEST
fold2	0.91	0.95	0.88-1.00	0.88	0.92	0.81	0.95	0.81	0.88	0.84	0.21	TRAIN
fold2	0.90	0.88	0.77-1.00	0.73	0.95	0.85	0.91	0.85	0.73	0.79	0.48	TEST