

Table S1 Subgroup performance analysis of pulmonary nodules

Cohort	Subgroup	Logistic-C model	XGBoost-C model
External validation I	0–10 mm	0.783 (0.664–0.878)	0.805 (0.704–0.898)
	0–15 mm	0.837 (0.750–0.912)	0.854 (0.767–0.921)
	0–20 mm	0.867 (0.792–0.931)	0.881 (0.813–0.941)
	0–25 mm	0.873 (0.805–0.933)	0.886 (0.828–0.941)
	0–30 mm	0.876 (0.802–0.937)	0.889 (0.823–0.942)
External validation II	0–10 mm	0.710 (0.542–0.856)	0.782 (0.657–0.897)
	0–15 mm	0.803 (0.694–0.905)	0.876 (0.796–0.942)
	0–20 mm	0.839 (0.753–0.920)	0.897 (0.830–0.955)
	0–25 mm	0.858 (0.780–0.925)	0.909 (0.850–0.955)
	0–30 mm	0.867 (0.792–0.937)	0.915 (0.851–0.963)

Logistic-C, logistic combined; XGBoost combined; XGBoost, extreme gradient boosting.