

## Supplementary

**Table S1** The excel template for calculating IAC risk of lung malignant pGGN

Variation	Diameter	Maximum CT value	Abnormal vessel	Lobulation	Spiculation	Pleural indentation	Vacuole sign	Calculate process logit (P) P	IAC possibility for pGGN
Value input	≥8: 2; <8: 1		No: 0 Yes: 1	No: 0 1	Yes: 0 1	No: 0 Yes: 1	No: 0 Yes: 1		
Input	2	-423	1	0	0	0	0	1 -423 1 -1 -1 -1 -1 -0.10928 0.472707156	

CT, computed tomography; IAC, invasive adenocarcinoma; pGGN, pure ground-glass nodules.