

Table S1 Detailed PubMed search strategy

Search number	Search terms
1	"Pulmonary Nodule"[Mesh] OR "Solitary Pulmonary Nodule"[Mesh] OR pulmonary nodule*[tiab] OR lung nodule*[tiab]
2	"Lung Neoplasms"[Mesh] OR lung cancer*[tiab] OR lung neoplasm*[tiab] OR lung adenocarcinoma[tiab]
3	"Never Smokers"[Mesh] OR never-smoker*[tiab] OR non-smoker*[tiab] OR never smoked[tiab]
4	"Risk Assessment"[Mesh] OR "Risk Prediction"[Mesh] OR risk model*[tiab] OR prediction model*[tiab] OR malignancy risk[tiab]
5	"Lung Neoplasms/screening"[Mesh] OR low-dose CT screening[tiab] OR LDCT screening[tiab] OR lung cancer screening[tiab]
6	"Health Equity"[Mesh] OR health disparit*[tiab] OR equity gap*[tiab] OR health inequality[tiab]
7	"Diagnostic Delay"[Mesh] OR "Treatment Delay"[Mesh] OR diagnostic delay[tiab] OR treatment delay[tiab] OR surgical delay[tiab]
8	"Receptor, Epidermal Growth Factor"[Mesh] OR EGFR mutation*[tiab] OR driver mutation*[tiab] OR actionable mutation[tiab]
9	real-world evidence[tiab] OR cohort stud*[tiab] OR external validat*[tiab]
10	1 AND 2 AND 3 AND (4 OR 5 OR 6 OR 7 OR 8 OR 9)
11	Filter: English, Humans, 2010/01/01-2026/01/31

The PubMed search strategy presented here represents the primary structured search for directly relevant never-smoker pulmonary nodule literature. Additional landmark prediction model studies, guideline documents, and clinical outcome studies were identified through targeted supplementary searches and citation tracking.