

Supplementary

Table S1 Detailed PubMed search strategy

Element	Details
Database	PubMed
Search date	Final search date: 18 August 2026
Publication timeframe	1 January 2000 to 18 August 2026
Language considerations	English or Chinese
Search fields	Title/Abstract, publication date, and language
Full PubMed search string	((("multiple primary lung cancer"[Title/Abstract] OR "multiple primary lung cancers"[Title/Abstract] OR "synchronous multiple primary lung cancer"[Title/Abstract] OR "synchronous multiple primary lung cancers"[Title/Abstract] OR "multiple lung cancers"[Title/Abstract]) AND ("intrapulmonary metastasis"[Title/Abstract] OR clonality[Title/Abstract] OR "molecular clonality"[Title/Abstract] OR "comprehensive histologic assessment"[Title/Abstract] OR "next generation sequencing"[Title/Abstract] OR "next-generation sequencing"[Title/Abstract] OR lobectomy[Title/Abstract] OR segmentectomy[Title/Abstract] OR "wedge resection"[Title/Abstract] OR pneumonectomy[Title/Abstract] OR "bilateral surgery"[Title/Abstract] OR VATS[Title/Abstract] OR "ground glass opacity"[Title/Abstract] OR "ground-glass opacity"[Title/Abstract] OR "ground glass nodule"[Title/Abstract] OR "ground-glass nodule"[Title/Abstract] OR "subsolid nodule"[Title/Abstract] OR "stereotactic body radiotherapy"[Title/Abstract] OR SBRT[Title/Abstract] OR "one-stage"[Title/Abstract] OR "two-stage"[Title/Abstract] OR "bilateral VATS"[Title/Abstract])) AND ("2000/01/01"[Date - Publication] : "2026/08/18"[Date - Publication]) AND (english[Language] OR chinese[Language])
Additional source identification	Reference lists of relevant reviews and clinically pertinent articles were examined for additional publications.
Selection approach	Guidelines, narrative and systematic reviews, cohort studies, meta-analyses, case series, and representative case reports

	were selected according to relevance to SMPLC diagnosis, preoperative assessment, or surgical management.
Methodologic note	Because this was a narrative review, literature selection was relevance-based rather than exhaustive. No formal risk-of-bias assessment or quantitative synthesis was performed.

Purpose: This search was conducted to support a narrative review. It was not designed as an exhaustive systematic-review search, and no formal risk-of-bias assessment or quantitative synthesis was undertaken. Revision update: the search was rerun through 18 August 2026 with additional combinations including “subsolid nodule”, “ground-glass nodule”, “stereotactic body radiotherapy”, “one-stage”, “two-stage”, and “bilateral VATS” to identify recent literature relevant to reviewer comments.

Appendix 1 Generative AI disclosure

AI tool and version: ChatGPT (OpenAI), GPT-5.6 Sol.

Date of use: 20 August 2026.

Purpose of use: English-language polishing; logical consistency checking; and overall formatting and layout.

Scope: The tool was used as an editorial aid during manuscript revision. It was not used to generate or analyze patient or study data, perform statistical analyses, or generate research results.

Prompt record

Date	Purpose	Prompt
20 August 2026	English-language polishing	Polish the following manuscript text for academic English, improving grammar, clarity, concision, and readability without changing the scientific meaning, numerical information, or citations

20 August 2026	Logical consistency checking	Check the revised manuscript for logical consistency and internal coherence across the abstract, methods, main text, tables, figures, conclusions, and reviewer-response documents. Do not alter scientific conclusions or add unsupported claims
20 August 2026	Overall formatting and layout	Review the overall formatting and layout of the manuscript and revision files for consistency, including headings, tables, figure legends, continuous line numbering, and submission-file organization, without changing scientific content

Author responsibility: All AI-assisted editorial changes were reviewed and approved by the authors. The authors take full responsibility for the scientific content, interpretation, citations, and final submitted version of the manuscript.