

STROBE Checklist for Cohort Study: Impact of surgical approach on Stage I Small Cell Lung Cancer

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
Title and Abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract.	(a) Title: "A Population-Based Study"
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found.	(b) Abstract Section
Introduction			
Background/Rationale	2	Explain the scientific background and rationale for the investigation being reported.	Introduction, Paragraphs 1-3
Objectives	3	State specific objectives, including any prespecified hypotheses.	Introduction, Final Paragraph
Methods			
Study Design	4	Present key elements of study design early in the paper.	Methods, Sections 2.1 & 2.2
Setting	5	Describe the setting,	Methods, Sections

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
		locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection.	2.1 & 2.2 (SEER database 2004-2019)
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up. (b) For matched studies, give matching criteria and the number of exposed and unexposed.	(a) Methods, Section 2.2 "Study Population" (b) Methods, Section 2.3 "Statistical Analysis" (PSM 1:1, 130 pairs)
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	Methods, Sections 2.2 & 2.3 (Surgery type, OS, LCSS, covariates for PSM)
Data sources/Measurement	8	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group.	Methods, Section 2.2 (SEER codes for surgery, histology, staging)

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
Bias	9	Describe any efforts to address potential sources of bias.	Methods, Section 2.3 (Use of PSM, sensitivity analyses, competing risk model)
Study size	10	Explain how the study size was arrived at.	Methods, Section 2.2 (Final inclusion of 560 patients after applying criteria)
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why.	Methods, Section 2.2 (e.g., age categorized as <65/≥65, tumor size)
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding. (b) Describe any methods used to examine subgroups and interactions. (c) Explain how missing data were addressed. (d) If applicable, explain how loss to follow-up was addressed. (e) Describe any sensitivity analyses.	(a) Methods, Section 2.3 (PSM, Cox regression, competing risk model) (b) Methods, Section 2.3 (Subgroup analysis by histology, tumor size) (c) Methods, Section 2.2 (Exclusion of cases with missing data) (d) Not explicitly

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
			stated (SEER tracks mortality well). (e) Methods, Section 2.3 (Sensitivity Analysis: IPTW, E-value, landmark analysis)
Results			
Participants	13	(a) Report numbers of individuals at each stage of study—e.g., numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed. (b) Give reasons for non-participation at each stage.	(a) Results, Section 3.1 (560 included, 260 after PSM) (b) Methods, Section 2.2 (Exclusion criteria listed)
Descriptive data	14	(a) Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders. (b) Indicate number of participants with missing data for each variable of	(a) Results, Section 3.1 & Tables 1 & 2 (b) Not explicitly stated for all variables.

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
		interest.	
Outcome data	15	Report numbers of outcome events or summary measures over time.	Results, Sections 3.2, 3.3, 3.4 (5-year OS and LCSS rates)
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (e.g., 95% confidence interval). Make clear which confounders were adjusted for and why they were included. (b) Report category boundaries when continuous variables were categorized. (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period.	(a) Tables 3, 4, 5, 6 & corresponding text in Results. (b) Methods, Section 2.2 (e.g., Age ≥ 65, Tumor size $\leq 2\text{cm}$, Stage IA/IB). (c) Presented as survival rates (e.g., 5-year OS).
Other analyses	17	Report other analyses done—e.g., analyses of subgroups and interactions, and sensitivity analyses.	Results, Sections 3.5 (Sensitivity Analysis) & 3.6 (Subgroup Analysis)

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
Discussion			
Key results	18	Summarise key results with reference to study objectives.	Discussion, First Paragraph
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias.	Discussion, "Limitations" Paragraph
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence.	Discussion, throughout
Generalisability	21	Discuss the generalisability (external validity) of the study results.	Discussion, Final Paragraph
Other Information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable,	Funding Statement

Section/Topic	Item #	Checklist Item	Page/Line Number in Manuscript
		for the original study on which the present article is based.	
Ethics	23	State ethical approval and informed consent procedures.	Ethics Statement