

Supplementary Material

Table S1: STROBE Statement—Checklist of items that should be included in reports of case-control studies

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	1
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	2-3
Objectives	3	State specific objectives, including any prespecified hypotheses	2-3
Methods			
Study design	4	Present key elements of study design early in the paper	3
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	3-4
Participants	6	(a) Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls	3-4
		(b) For matched studies, give matching criteria and the number of controls per case	n/a
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	3-4
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	3-5
Bias	9	Describe any efforts to address potential sources of bias	3-5, 28
Study size	10	Explain how the study size was arrived at	3-5
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	3-5
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	5
		(b) Describe any methods used to examine subgroups and interactions	5
		(c) Explain how missing data were addressed	5
		(d) If applicable, explain how matching of cases and controls was addressed	5
		(e) Describe any sensitivity analyses	5
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	5-6
		(b) Give reasons for non-participation at each stage	5-6

		(c) Consider use of a flow diagram	n/a
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	5-26
		(b) Indicate number of participants with missing data for each variable of interest	5-26
Outcome data	15*	Report numbers in each exposure category, or summary measures of exposure	5-26

Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	6-26
		(b) Report category boundaries when continuous variables were categorized	6-26
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	n/a
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	7-26

Discussion

Key results	18	Summarise key results with reference to study objectives	26-28
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	28
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	28-29
Generalisability	21	Discuss the generalisability (external validity) of the study results	28-29

Other information

Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	29
---------	----	---	----

*Give information separately for cases and controls.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at <http://www.strobe-statement.org>.

Table S2. Overall survival (OS) - Univariate Analysis including the histopathological and laboratory variables of interest- Bold values denote statistically significant associations.

Cox Proportional Hazards (continuous)					
		HR	LCI	HCI	P value
CEA		0.998	0.991	1	0.463
CA19-9		1.0049	1.0009	1.0089	0.0159
Cox Proportional Hazards (categorical)					
CEA (>5)		HR	LCI	HCI	P value
CEA	5-100	1.30	0.67	2.50	0.436
CEA	100-515	0.74	0.10	5.43	0.770
CEA	5-515	1.23	0.65	2.32	0.529
Ca19.9 (>37)		HR	LCI	HCI	P value
Ca19.9	37-100	1.03	0.43	2.45	0.955
Ca19.9	100-300	3.52	1.52	8.15	0.003
Ca19.9	37-300	1.64	0.86	3.13	0.131
EAC subset (N=84/95)					
		HR	LCI	HCI	P value
PNI Pos vs Neg		2.00	1.13	3.52	0.017
LVI Pos vs Neg		1.78	1.02	3.09	0.041
PVI Pos vs Neg		1.82	1.04	3.17	0.035
G Status		3.43	0.47	25.00	0.223
SRC Pos vs Neg		1.97	1.07	3.62	0.028
Intestinal vs Diffuse		0.83	0.38	1.83	0.649

Notes: LCI: Lower Confidence Interval, HCI: Higher Confidence Interval, HR: Hazard Ratio, Pos: Positive, Neg: Negative

Table S3. Disease-free survival (DFS) - Univariate Analysis including the histopathological and laboratory variables of interest- Bold values denote statistically significant associations.

Cox Proportional Hazards (continuous)					
		HR	LCI	HCI	P value
CEA		1.008	1.003711	1.011942	0.000186
CA19-9		1.006	1.001894	1.010055	0.00405
Cox Proportional Hazards (categorical)					
CEA (>5)		HR	LCI	HCI	P value
CEA	5-50	1.52	0.741	3.11	0.254
CEA	50-100	1.98	0.267	14.7	0.503
CEA	100-515	32.3	5.27	198	0.000174
CEA	5-515	1.79	0.932	3.44	0.0806
Ca19.9 (>37)		HR	LCI	HCI	P value
CA19-9	37-100	1.09	0.452	2.63	0.849
CA19-9	100-300	4.44	1.74	11.3	0.00185
CA19-9	37-300	1.71	0.87	3.38	0.12
EAC subset (N=84/95)					
		HR	LCI	HCI	P value
PNI Pos vs Neg		2.120	1.170	3.860	0.013
LVI Pos vs Neg		2.400	1.320	4.360	0.004
PVI Pos vs Neg		1.880	1.030	3.410	0.038
G Status	Insufficient data				
SRC Pos vs Neg		2.510	1.330	4.740	0.005
Intestinal vs Diffuse		0.680	0.297	1.560	0.361

Notes: LCI: Lower Confidence Interval, HCI: Higher Confidence Interval, HR: Hazard Ratio, Pos: Positive, Neg: Negative.