Materials Design Analysis Reporting (MDAR) Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

Materials

Antibodies	Yes (indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	No.	

Cell materials	Yes (indicate where provided: page no/section/legend)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID	No.	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	No.	

Experimental animals	Yes (indicate where provided: page no/section/legend)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID	No.	
Animal observed in or captured from the field: Provide species, sex and age where possible	No.	
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID	No.	

Plants and microbes	Yes (indicate where provided: page no/section/legend)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	No.	
Microbes: provide species and strain, unique accession number if available, and source	No.	

Human research participants	Yes (indicate where provided: page no/section/legend)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No.	
Provide statement confirming informed consent obtained from study participants.	No.	
Report on age and sex for all study participants.	Ru Hou, 29, female Hongwei Li, 52, man Jianzhong Cao, 42, man Xin Song, 51, female Xiaqin Zhang, 45, female Weili Wang, 37, female	

Design

Study protocol	Yes (indicate where provided: page no/section/legend)	n/a
For clinical trials, provide the trial registration number **OR** cite DOI in manuscript.	No.	

Laboratory protocol	Yes (indicate where provided: page no/section/legend)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.	No.	

Experimental study design (statistics details)	Yes (indicate where provided: page no/section/legend)	n/a
State whether and how the following have been done**, or** if they were not carried out.		
Sample size determination	They were not carried out.	
Randomisation	They were not carried out.	
Blinding	They were not carried out.	
Inclusion/exclusion criteria	In the present study, inclusion criteria for enrolled patients: histologically confirmed SCLC with BM from January 2010 to December 2019(BMs newly diagnosed within 3 months and confirmed by enforced computed tomography (CT) and/or magnetic resonance imaging (MRI));those treated with WBRT. Exclusion criteria for enrolled patients: Patients treated with prior cranial radiotherapy (PCI, n=43), only palliative chemotherapy (n=301), stereotactic radiosurgery (SRS, n=3), or prior surgery (n=3), were excluded.	

Sample definition and in-laboratory replication	Yes (indicate where provided: page no/section/legend)	n/a
State number of times the experiment was replicated in laboratory	No.	
Define whether data describe technical or biological replicates	No.	

Ethics	Yes (indicate where provided: page no/section/legend)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	All procedures performed in this study involving human participants were in accordance with the Declaration of Helsinki (as revised in 2013). Individual consent for this retrospective analysis was waived. This study was approved by the Shanxi Provincial Cancer Hospital ethics committee.	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No.	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	No.	

Dual Use Research of Concern (DURC)	Yes (indicate where provided: page no/section/legend)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	No.	

Analysis

Attrition	Yes (indicate where provided: page no/section/legend)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	The criteria for exclusion were determined and specified in advance.	

Statistics	Yes (indicate where provided: page no/section/legend)	n/a
Describe statistical tests used and justify choice of tests.	Kaplan-Meier survival curves were created to estimate OS, and the log-rank test was used for univariate analysis to compare the difference among the subgroups. Multivariate Cox proportional-hazard ratios were applied to assess the independent factors. $P<0.05$ was considered statistically significant. The concordance index (C-index) was used to compare the predictive values of the four existing systems.	

Data Availability	Yes (indicate where provided: page no/section/legend)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	No.	
If data are publicly available, provide accession number in repository or DOI or URL.	No.	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	No.	

Code Availability	Yes (indicate where provided: page no/section/legend)	n/a
For all newly generated code and software essential for replicating the main findings of the study:		
State whether the code or software is available.	The code or software is available.	
If code is publicly available, provide accession number in repository, or DOI or URL.	No.	

Reporting

Adherence to community standards	Yes (indicate where provided: page no/section/legend)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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