DRAFT | June 2019

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: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	Page 8-9, line 197-209; Methods, Western Blot, paragraph 1	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID	Page 7, line 164-166; Methods, Cell lines and Cultures, paragraph 1.	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	No primary cultures used in the work.	X

Experimental animals	Yes (indicate where provided: section/paragraph)	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	Animals have not been used in the study.	X
Animal observed in or captured from the field: Provide species, sex and age where possible	Animals have not been used in the study.	X
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID	Animals have not been used in the study.	X

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	Plants have not been used in the study.	X
Microbes: provide species and strain, unique accession number if available, and source	Microbes have not been used in the study.	X

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Page 10-11, line 247-260; Methods, Patient Samples, Paragraph 1	
Provide statement confirming informed consent obtained from study participants.	Page 11, line 257; Methods, Patient Samples, Paragraph 1	
Report on age and sex for all study participants.	Age and sex have been summarized (mean and range) for all participants in Page 33, Tables, Table 1.	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number **OR** cite DOI in manuscript.	This is not a clinical trial.	X

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

Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done**, or** if they were not carried out.		
Sample size determination	No sample size determination performed. All available samples have been included.	X
Randomisation	This is not a clinical trial.	X
Blinding	This is not a clinical trial.	X
Inclusion/exclusion criteria	Page 10-11, line 247-253; Methods, Patient	

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	At least 3 independent replicates have been performed for each experiment. Page 11, Line 262-264, Methods, Statistical analysis, paragraph 1. Page 31-32, Figure Legends.	
Define whether data describe technical or biological replicates	Technical and biological replicates have been performed.	

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Page 10-11, line 257-260; Methods, Patient Samples, Paragraph 1	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Animals have not been used in the present study.	X
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Neither specimens nor field samples have been used in the present study.	X

Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	The study subject has no any consideration as DURC.	X

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	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.	Any sample or data point have been excluded from the analysis.	X

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Page 11, line 262-271; Methods, Statistical Analyses, paragraph 1.	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	No available datasets.	X
If data are publicly available, provide accession number in repository or DOI or URL.	The data is not publicly available.	X
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	The data is not publicly available.	X

Code Availability	Yes (indicate where provided: section/paragraph)	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.	No new generated code or software.	X
If code is publicly available, provide accession number in repository, or DOI or URL.	No new generated code or software.	X

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	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.	

删除的内容：No specific guidelines have been followed.

Article information: http://dx.doi.org/10.21037/tlcr-20-920