

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](https://doi.org/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.	No commercial reagents used	n/a
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	No cell materials used	n/a
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	No cell materials used	n/a
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	Did not do animal experiments	n/a
Animal observed in or captured from the field: Provide species, sex and age where possible	Did not do animal experiments	n/a
Model organisms: Provide Accession number in repository (where relevant) OR RRID	Did not do animal experiments	n/a
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)	Did not do plant experiments	n/a
Microbes: provide species and strain, unique accession number if available, and source	Did not do microbes experiments	n/a
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.	The actual clinical data are downloaded from the Internet, no ethical approval is required	n/a
Provide statement confirming informed consent obtained from study participants.	The actual clinical data are downloaded from the Internet, no ethical approval is required	n/a
Report on age and sex for all study participants	The actual clinical data are downloaded from the	n/a

Design

Study protocol For clinical trials, provide the trial registration number OR cite DOI in manuscript.	Yes (indicate where provided: section/paragraph) Not a clinical trials	n/a n/a
Laboratory protocol Provide DOI or other citation details if detailed step-by-step protocols are available.	Yes (indicate where provided: section/paragraph) No laboratory protocol	n/a n/a
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out.	Yes (indicate where provided: section/paragraph)	n/a
Sample size determination	No Samples	n/a
Randomisation	No Samples	n/a
Blinding	No Samples	n/a
Inclusion/exclusion criteria	No Samples	n/a
Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory	Yes (indicate where provided: section/paragraph) No Samples	n/a n/a
Define whether data describe technical or biological replicates	No Samples	n/a
Ethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Yes (indicate where provided: section/paragraph) The actual clinical data are downloaded from the Internet, no ethical approval is required	n/a n/a
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	The actual clinical data are downloaded from the Internet, no ethical approval is required	n/a
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	The actual clinical data are downloaded from the Internet, no ethical approval is required	n/a
Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	Yes (indicate where provided: section/paragraph) Irrelevant	n/a n/a

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.	Not excluded	n/a
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	YES, lines106-139	
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.	YES, lines87-88	
If data are publicly available, provide accession number in repository or DOI or URL.	https://cancergenome.nih.gov	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	No reuse	n/a
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:	No new code or software	n/a
State whether the code or software is available.	No new code or software	n/a
If code is publicly available, provide accession number in repository, or DOI or URL.	No new code or software	n/a

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.		n/a
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.	

Article information: <http://dx.doi.org/10.21037/tcr-20-3056>