<u>SM</u>aterials <u>Design Analysis Reporting (MDAR)</u> 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:	n/a
For commercial reagents, provide supplier		No. It is not involved in this
name, catalogue number and RRID, if available.		study.
	·	
Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain.		No. It is not involved in this
Provide accession number in repository OR		study.
supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of		No. It is not involved in this
origin, genetic modification status.		study.
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age,		No. It is not involved in this
genetic modification status. Provide accession		study.
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		No. It is not involved in this
field: Provide species, sex and age where		study.
possible		
Model organisms: Provide Accession number		No. It is not involved in this
in repository (where relevant) OR RRID		study.
Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession		No. It is not involved in this
number if available, and source (including location		study.
for collected wild specimens)		
Microbes: provide species and strain, unique		No. It is not involved in this
accession number if available, and source		study.
Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or	Yes, mentioned in the	
equivalent committee(s), provide reference number	Methods/paragraph 1	
for approval.		
Provide statement confirming informed consent	Yes, mentioned in the	
obtained from study participants.	Methods/paragraph 1	
Report on age and sex for all study participants.	Yes, mentioned in	
	Results/paragraph 5	

Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration	res (malcate where provided.	No. It is not involved in this
number OR cite DOI in manuscript.		study.
		study.
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-		No. It is not involved in this
by-step protocols are available.		study.
Experimental study design (statistics details)	Yes (indicate where provided:	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Yes, mentioned in the	
	Methods/paragraph 1-8	
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria	Yes, mentioned in the	
	Methods/paragraph 1-8	
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	Yes, mentioned in the	
replicated in laboratory	Methods/paragraph 8	
Define whether data describe technical or biological	Yes, mentioned in the	
replicates	Methods/paragraph 1-8	
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of	Yes, mentioned in the	
authority granting ethics approval (IRB or equivalent	Methods/paragraph 1	
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details of authority granting ethics approval (IRB or		No. It is not involved in this
equivalent committee(s), provide reference number		study.
for approval.		
Studies involving specimen and field samples: State if		No. It is not involved in this
relevant permits obtained, provide details of		
authority approving study; if none were required,		study.
explain why.		
Subram Milly		
Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern,	•	No. It is not involved in this
state the authority granting approval and reference		study.
number for the regulatory approval		

<u>Analysis</u>

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is	•	No. All experimental
excluded, and whether the criteria for exclusion were		data were included in
determined and specified in advance.		the statistics.
Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Yes. Mentioned in Statistical	
tests.	Analysis.	
Data Availability	Ves (indicate where previded,	2/2
State whether newly created datasets are available,	Yes (indicate where provided:	n/a
	Yes, mentioned in the	
including protocols for access or restriction on access.	Methods/paragraph 1-8	
If data are publicly available, provide accession	Yes, mentioned in the footnote	
number in repository or DOI or URL.		
If publicly available data are reused, provide	Yes, mentioned in the	
accession number in repository or DOI or URL, where possible.	Methods/paragraph 1-7	
Code Availability	Yes (indicate where provided:	n/a
For all newly generated code and software essential	res (maicate where provided.	Πμα
for replicating the main findings of the study:		
State whether the code or software is available.	Yes, mentioned in the	
	Methods/paragraph 1-7	
If code is publicly available, provide accession	Yes, mentioned in the	
number in repository, or DOI or URL.	Methods/paragraph 1-7	

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,	ICMJE guidelines were followed, as the journal follows	
ARRIVE) have been followed, and whether a checklist	ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

Article information: https://dx.doi.org/10.21037/atm-22-3147