<u>Materials 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.

for approval.

Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	No antibodies involved.	n/a
Than 10, catalogue manneer and mile, it availables	1	
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	No cell materials involved.	n/a
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	No primary cultures involved.	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	No animals involved.	n/a
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	No animals involved.	n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	No organisms involved.	n/a
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	No plants involved.	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	The microbes mentioned in this study were calculated	n/a
accession number if available, and source	by Monte Carlo simulations.	
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Methods/Para2	.,-
equivalent committee(s), provide reference number	Footnote/Para4	

Design

F+	
Footnote/Para4	
_	
Yes (indicate where provided: section/paragraph)	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
	n/a
Methods/Para1	
This was a single-center, open-label study.	n/a
This was a single-center, open-label study.	n/a
Methods/Para1	
Yes (indicate where provided: section/paragraph)	n/a
This was a Phase I clinical study	n/a
This was a Phase I clinical study	n/a
Yes (indicate where provided: section/paragraph)	n/a
Methods/Para2	
Footnote/Para4	
No animals involved.	n/a
Methods/Para2	
Footnote/Para4	
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	n/a
ino duai use involved.	n/a
	Methods/Para1 This was a single-center, open-label study. This was a single-center, open-label study. Methods/Para1 Yes (indicate where provided: section/paragraph) This was a Phase I clinical study This was a Phase I clinical study Yes (indicate where provided: section/paragraph) Methods/Para2 Footnote/Para4 No animals involved.

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Methods/Para4	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Methods/Para5	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Footnote/Para2	
including protocols for access or restriction on access.		
If data are publicly available, provide accession number in repository or DOI or URL.	Data in this study can be obtained from the corresponding author upon reasonable request.	n/a
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Does not involve publicly available data.	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:		
State whether the code or software is available.	Footnote/Para2	
If code is publicly available, provide accession	Code in this study can be obtained from the	n/a
number in repository, or DOI or URL.	corresponding author upon reasonable request.	

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.		

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