### <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.

### **Materials**

Antibodies	Yes (indicate where provided:	n/a
For commercial reagents, provide supplier	Yes (Methods/paragraph 3)	
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain.		n/a
Provide accession number in repository <b>OR</b>		uninvolved
supplier name, catalog number, clone number,		
OR RRID		-
Primary cultures: Provide species, strain, sex of	Yes (Methods/paragraph 3,4)	
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age,		n/a
genetic modification status. Provide accession		uninvolved
number in repository <b>OR</b> supplier name, catalog		
number. clone number. <b>OR</b> RRID		· ·
Animal observed in or captured from the		n/a
field: Provide species, sex and age where		uninvolved
possible		,
Model organisms: Provide Accession number		n/a
in repository (where relevant) <b>OR</b> RRID		uninvolved
Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession		n/a
number if available, and source (including location		uninvolved
for collected wild specimens)		
<b>Microbes:</b> provide species and strain, unique accession number if available, and source	Yes(Methods/paragraph 2)	
Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or	Yes(Methods/paragraph 1)	
equivalent committee(s), provide reference number	Attached checklist named:	
for approval.	ethics approval.	
Provide statement confirming informed consent	Yes(Methods/paragraph 1)	
obtained from study participants.	Attached checklist named:	
	informed consent statement.	
Report on age and sex for all study participants.	Yes(Methods/paragraph 1)	

#### <u>Design</u>

	T	-
Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration		n/a
number <b>OR</b> cite DOI in manuscript.		uninvolved
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-	res (indicate where provided.	n/a
by-step protocols are available.		There is no additional step-
		by-step methodological
		details.
Eventimental study design (statistics datails)		
Experimental study design (statistics details) State whether and how the following have been	Yes (indicate where provided:	n/a
done, or if they were not carried out.		
Sample size determination		n/a
		Patients were continuously
		enrolled in this paper.
Development of the		,
Randomisation		n/a Detionstanting and successed by
		Patients were not grouped by
		different treatment, so there was no randomization
		problem.
		providini
Blinding		n/a
		In the experiment, the
		double-blind design was not carried out.
		carried out.
Inclusion/exclusion criteria	Yes(Methods/paragraph 1)	
	fes(methous/paragraph 1)	
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	Yes(Methods/paragraph 1)	
replicated in laboratory		
<b>Notice and the state of the st</b>		,
Define whether data describe technical or biological replicates	Yes(Methods/paragraph 1)	n/a
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of	Yes(Methods/paragraph 1)	
authority granting ethics approval (IRB or equivalent	Attached checklist named:	
committee(s), provide reference number for	ethics approval.	
approval. Studies involving experimental animals: State details		n/a
of authority granting ethics approval (IRB or		uninvolved
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		n/a
relevant permits obtained, provide details of		uninvolved
authority approving study; if none were required,		
Dual Lise Research of Concorn (DUBC)	Voc (indicate where months i	2/2
Dual Use Research of Concern (DURC) If study is subject to dual use research of concern,	Yes (indicate where provided:	n/a n/a
state the authority granting approval and reference		uninvolved
number for the regulatory approval		
U / Trresson	1	1

# <u>Analysis</u>

Attrition	Yes (indicate where provided:	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.	Yes(Methods/paragraph 1)	
Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of tests.	Yes(Methods/paragraph 5)	
Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		n/a uninvolved
If data are publicly available, provide accession number in repository or DOI or URL.		n/a uninvolved
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		n/a uninvolved
Code Availability	Yes (indicate where provided:	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.		n/a uninvolved
If code is publicly available, provide accession number in repository, or DOI or URL.		n/a uninvolved

# **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.	

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