## <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: section/paragraph)	n/a
For commercial reagents, provide supplier	Methods section/western blotting paragraph	
name, catalogue number and RRID, if		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information,	Methods section/cell culture paragraph	
strain. Provide accession number in		
repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Primary cultures: Provide species, strain,	Methods section/cell culture paragraph	
sex of origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex,		No animals
age, genetic modification status. Provide		were used.
accession number in repository <b>OR</b> supplier		
name, catalog number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the		No animals
field: Provide species, sex and age where		were used.
possible		
Model organisms: Provide Accession		No animals
number in repository (where relevant) <b>OR</b>		were used.
Plants and microbes	Voc /indicate where provided, section/paragraph)	n/a
	Yes (indicate where provided: section/paragraph)	No plants
<b>Plants:</b> provide species and strain, unique accession number if available, and source		were used.
(including location for collected wild specimens)		were asea.
Microbes: provide species and strain,		No microbes
unique accession number if available, and		were used.
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Methods section/patients and tissues sample	-
equivalent committee(s), provide reference	paragraph	
number for approval.		
Provide statement confirming informed consent	Methods section/patients and tissues sample	
obtained from study participants.	paragraph	
Report on age and sex for all study participants.	Methods section/patients and tissues sample	

# **Design**

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.	Methods section/patients and tissues sample paragraph	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed	7,110,110	No step-
step-by-step protocols are available.		by-step
		protocol
		are
		available
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have	(manage miles provided in a part of the pa	, -
been done, <b>or</b> if they were not carried out.		
Sample size determination		No
		carried
		out
Randomisation		No
		carried
		out
Blinding		No
		carried
		out
Inclusion/exclusion criteria		No
		carried
		out
Sample definition and in-laboratory	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Methods section/statistical analysis paragraph	
replicated in laboratory		
· · · · · · · · · · · · · · · · · · ·		
Define whether data describe technical or	Methods section/statistical analysis paragraph	
· · · · · · · · · · · · · · · · · · ·	Methods section/statistical analysis paragraph	
Define whether data describe technical or		n/a
Define whether data describe technical or biological replicates	Yes (indicate where provided: section/paragraph)	n/a
Define whether data describe technical or biological replicates  Ethics	Yes (indicate where provided: section/paragraph) Methods section/patients and tissues sample	n/a
Define whether data describe technical or biological replicates  Ethics Studies involving human participants: State	Yes (indicate where provided: section/paragraph)	n/a
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# **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	Methods section/statistical analysis paragraph	
for exclusion were determined and specified		

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

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are		no newly created
available, including protocols for access or		datasets
restriction on access.		available.
If data are publicly available, provide		no newly created
accession number in repository or DOI or		datasets
URL.		available.
If publicly available data are reused, provide		no public data
accession number in repository or DOI or		used.
URL, where possible.		

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:		The code or software are not publicly available.
State whether the code or software is		
If code is publicly available, provide accession number in repository, or DOI or URL.		

# 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: http://dx.doi.org/10.21037/atm-21-1032