## <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 name, catalogue number and RRID, if available.		<b>n/a</b> : Our study do not discuss about this area
Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		n/a: Our study do not discuss about this area
<b>Primary cultures:</b> Provide species, strain, sex of origin, genetic modification status.		<b>n/a</b> : Our study do not discuss about this area
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID		n/a: Our study do not discuss about this area
Animal observed in or captured from the field: Provide species, sex and age where possible		n/a: Our study do not discuss about this area
Model organisms: Provide Accession number in repository (where relevant) OR RRID		<b>n/a</b> : Our study do not discuss about this area
Plants and microbes	Yes (indicate where provided:	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n/a: Our study do not discuss about this area
<b>Microbes:</b> provide species and strain, unique accession number if available, and source		<b>n/a</b> : Our study do not discuss about this area
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.	Study design section/ paragraph 1	
Provide statement confirming informed consent obtained from study participants.		n/a: Informed consent was exemption by the IRE as this study utilized an already existing database
Report on age and sex for all study participants.	Results section/ paragraph 1	

### **Design**

Study protocol	Yes (indicate where	n/a
For clinical trials, provide the trial registration		n/a: this is not a clinical trial
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where	n/a
Provide DOI or other citation details if detailed step-		n/a: this is not laboratory
by-step protocols are available.		protocol
Francisco cutol atrodu design (atatistica detaile)	V / !!	,
Experimental study design (statistics details)	Yes (indicate where	n/a
State whether and how the following have been		
done, <b>or</b> if they were not carried out.  Sample size determination	Van Statistical analysis	
Sample Size determination	Yes. Statistical analysis	
Paradam tantam	section/ paragraph 1	
Randomisation		n/a: this is a retrospective
Blinding		research n/a: this is a retrospective
Billiang		research
Inclusion/exclusion criteria	Yes. Selection of	i escai ci i
	participants section/	
	paragraph 3	
	pa. 48. 4p. 10	
Sample definition and in-laboratory replication	Yes (indicate where	n/a
State number of times the experiment was	res (indicate where	n/a: this is a retrospective
replicated in laboratory		research from existing data
Define whether data describe technical or biological		n/a: this is a retrospective
replicates		research from existing data
'		research nom existing data
Ethics	Yes (indicate where	n/a
Studies involving human participants: State details of	Yes. Study design section/	
authority granting ethics approval (IRB or equivalent	paragraph 1	
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		n/a: Study do not involve
of authority granting ethics approval (IRB or		experimental animals
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		n/a: Study do not involve
relevant permits obtained, provide details of		specimen and field samples
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where	n/a
If study is subject to dual use research of concern,	(11111111111111111111111111111111111111	n/a: study is not subject to
state the authority granting approval and reference		dual use research of concern
number for the regulatory approval		
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	Yes. See Figure1.	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Yes: Statistical analysis	
tests.	section/ paragraph 1	

Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available,		n/a: The datasets are not
including protocols for access or restriction on		publicly available
access.		
If data are publicly available, provide accession		n/a: Data are not publicly
number in repository or DOI or URL.		available
If publicly available data are reused, provide		n/a: This is not publicly
accession number in repository or DOI or URL, where		available data
possible.		

Code Availability	Yes (indicate where provided:	n/a
For all newly generated code and software essential	Yes: Statistical analysis	
for replicating the main findings of the study:	section/ paragraph 2	
State whether the code or software is available.	Yes: Statistical analysis	
	section/ paragraph 2	
If code is publicly available, provide accession		n/a: the code is not publicly
number in repository, or DOI or URL.		available

# 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.	Yes, the paper follows the ICMJE recommendations. No other checklist is provided.	

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