## <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.	Patients and methods (Para 6/line 122-127)	We'	ve added

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain.		N/A
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of		N/A
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,		N/A
genetic modification status. Provide accession		
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		
possible		
Model organisms: Provide Accession number		N/A
in repository (where relevant) <b>OR</b> RRID		

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		N/A
Microbes: provide species and strain, unique accession number if available, and source		N/A

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.	Patients and methods (Para 6/line 112-121)	We'v	ve added
Provide statement confirming informed consent obtained from study participants.	Patients and methods (Para 6/line 112-121)	We'	ve added
Report on age and sex for all study participants.	Patients and methods (Para 6/line 115-117)	We'	ve added

### <u>Design</u>

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.		N/A	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a	
Provide DOI or other citation details if detailed step-	(wastern processes, paragraphy)	N/A	
by-step protocols are available.		,	
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a	
State whether and how the following have been	Yes		
done, <b>or</b> if they were not carried out.			
Sample size determination	Patients and methods (Para 6/line 112-121)	We'	ve added
Randomisation	The study was a retrospective study.	N/A	
Blinding	The study was a retrospective study.	N/A	
Inclusion/exclusion criteria	Patients and methods (Para 6/line 118-121)	We'v	∕e added
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a	
State number of times the experiment was		N/A	
replicated in laboratory			
Define whether data describe technical or biological		N/A	
replicates			
Ethics	Yes (indicate where provided: section/paragraph)	n/a	
Studies involving human participants: State details of	, , , , , , , , , , , , , , , , , , , ,	N/A	
authority granting ethics approval (IRB or equivalent			
committee(s), provide reference number for			
approval.			
Studies involving experimental animals: State details		N/A	
of authority granting ethics approval (IRB or			
equivalent committee(s), provide reference number			
for approval.			
Studies involving specimen and field samples: State if	Patients and methods (Para 6/line 117-118)	Wal.	ام مامامما
relevant permits obtained, provide details of		we v	∕e added
authority approving study; if none were required,			
explain why.			
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a	
If study is subject to dual use research of concern,		N/A	
state the authority granting approval and reference			
number for the regulatory approval			

#### **Analysis**

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		N/A
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	Patients and methods (Para 7/line 146-151)	Wo!	ve added
tests.		we	ve audeu

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		N/A
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession		N/A
number in repository or DOI or URL.		
If publicly available data are reused, provide		N/A
accession number in repository or DOI or 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:	Patients and methods (Para 7/line 145-151)	We'∖	ve added
State whether the code or software is available.	Patients and methods (Para 7/line 145-151)	We'v	e added
If code is publicly available, provide accession number in repository, or DOI or URL.	Patients and methods (Para 7/line 145-151)	We'v	ve added

#### **Reporting**

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of	Yes	
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	
ARRIVE) have been followed, and whether a checklist		
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

Article Information: https://dx.doi.org/10.21037/tau-23-14
\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.