Materials Design Analysis Reporting (MDAR) 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

For commercial reagents, provide		**n/a**

Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog		**n/a**
Primary cultures: Provide species, strain,		**n/a**

Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository **OR** supplier name, catalog		**n/a**
Animal observed in or captured from the field: Provide species, sex and age where		**n/a**
Model organisms: Provide Accession		**n/a**

Plants: provide species and strain, unique accession number if available, and source (including location for		**n/a**
Microbes: provide species and strain,		**n/a**

Identify authority granting ethics approval (IRB or	Section Footnote	
Provide statement confirming informed consent	Section Footnote	
Report on age and sex for all study participants.	Section Participants /paragraph 7	

Design

For clinical trials, provide the trial registration number		**n/**

Provide DOI or other citation details if detailed step-		**n/**

Experimental study design (statistics details)	**Yes (indicate where provided: section/paragraph)**	**n/a**
State whether and how the following have been done, **or** if they were not carried out.		
Sample size determination	Section Materials and methods-Patients /paragraph 5	
Randomisation	Section Materials and methods-Patients /paragraph 5	
Blinding	Section Materials and methods-Patients /paragraph 5	
Inclusion/exclusion criteria	Section Materials and methods-Patients /paragraph 5	

State number of times the experiment was replicated		**n/**
Define whether data describe technical or biological		**n/**

Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for	Section Footnote	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number		**n/a**
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,		**n/a**

If study is subject to dual use research of concern, state the authority granting approval and reference		**n/a**

Analysis

State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were	Section Materials and methods-Patients /paragraph 5	
Describe statistical tests used and justify choice of tests.	Section Materials and methods-Patients /paragraph 6: Statistical analysis	
State whether newly created datasets are available, including protocols for access or restriction on access.		**n/a**
If data are publicly available, provide accession		**n/**
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		**n/a**
For all newly generated code and software essential		
If code is publicly available, provide accession number		**n/**

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.	

Article information: http://dx.doi.org/10.21037/tcr-20-3479