<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

Yes (indicate where provided: section/paragraph)	n/a
In the "Materials and Methods".	
Ves (indicate where provided: section/paragraph)	n/a
	11/ 4
	Sample is
	human tissue
	ussue
	Sample is
	human tissue
Yes (indicate where provided: section/paragraph)	n/a
	Sample is
	human
	tissue
	Sample is human
	tissue
	Sample is
	human
	tissue
Yes (indicate where provided: section/paragraph)	n/a
	Sample is
	human
	tissue
	Sample is
	human tissue
	-
	n/a
•	
Committee of the First Affiliated Hospital of Kunming	
Medical University and obtained written consent [Number	
In the last sentence of "Tissue samples" of "Materials and	
Methods": written informed consent was obtained from all	
patients.	
In the "lissue samples" of "Materials and Methods"	
	Yes (indicate where provided: section/paragraph) In the last sentence of "Tissue samples" of "Materials and Methods": this study protocol was approved by the Ethics Committee of the First Affiliated Hospital of Kunming Medical University and obtained written consent [Number (2020):1-291 In the last sentence of "Tissue samples" of "Materials and Methods": written informed consent was obtained from all

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		Not need
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.		Unavailable
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.	In the "Tissue samples" of "Materials and Methods"	
Sample size determination	In the "Tissue samples" of "Materials and Methods"	
Randomisation		Not need
Blinding		Not need
Inclusion/exclusion criteria	In the "Tissue samples" of "Materials and Methods"	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	In the "Tissue samples" and "qRT-PCR" of "Materials and Methods"	
Define whether data describe technical or biological replicates	In the "Tissue samples" and "qRT-PCR" of "Materials and Methods"	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	In the last sentence of "Tissue samples" of "Materials and	
authority granting ethics approval (IRB or equivalent	Methods": this study protocol was approved by the Ethics	
committee(s), provide reference number for	Committee of the First Affiliated Hospital of Kunming	
approval.	Medical University and obtained written consent [Number (2020)-L-29].	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		Non-animal experiment
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	In the last sentence of "Tissue samples" of "Materials and Methods": this study protocol was approved by the Ethics Committee of the First Affiliated Hospital of Kunming Medical University and obtained written consent [Number (2020)-L-29].	
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference	,	No dual use research

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		No excluded
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	· · · · (·····························	Not used
tests.		
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	All relevant data are within the manuscript and its	
including protocols for access or restriction on	Supporting Information files.	
access.		
If data are publicly available, provide accession		Not publicly
number in repository or DOI or URL.		available
If publicly available data are reused, provide		
accession number in repository or DOI or URL, where		Not used
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:		Not newly
State whether the code or software is available.		Unavailable
If code is publicly available, provide accession		the second shall be
number in repository, or DOI or URL.		Unavailable

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	
ARRIVE) have been followed, and whether a checklist	follows ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

å

Article information: https://dx.doi.org/10.21037/atm-21-3915