<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.

Provide statement confirming informed consent

obtained from study participants.
Report on age and sex for all study participants.

Materials

Yes (indicate where provided: section/paragraph)	n/a
The study was a retrospective study and did not involve	N1 / A
antibodies.	N/A
Yes (indicate where provided: section/paragraph)	n/a
The study was a retrospective study and did not involve cell lines.	N/A
The study was a retrospective study and did not involve primary cultures.	N/A
Yes (indicate where provided: section/paragraph)	n/a
The study was a retrospective study and did not involve laboratory animals.	N/A
The study was a retrospective study and did not involve animal observed in or captured from the field.	N/A
The study was a retrospective study and did not involve model organisms.	N/A
Yes (indicate where provided: section/paragraph)	n/a
The study was a retrospective study and did not involve plants.	N/A
The study was a retrospective study and did not involve microbes.	N/A
Yes (indicate where provided: section/paragraph)	n/a
Patients and methods (Para 6/line 141-144).	
	The study was a retrospective study and did not involve antibodies. Yes (indicate where provided: section/paragraph) The study was a retrospective study and did not involve cell lines. The study was a retrospective study and did not involve primary cultures. Yes (indicate where provided: section/paragraph) The study was a retrospective study and did not involve laboratory animals. The study was a retrospective study and did not involve animal observed in or captured from the field. The study was a retrospective study and did not involve model organisms. Yes (indicate where provided: section/paragraph) The study was a retrospective study and did not involve plants. The study was a retrospective study and did not involve plants. Yes (indicate where provided: section/paragraph)

Patients and methods (Para 6/line 141-144).

N/A

<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.	Clinical trial registry number (Para 4/line 75-76).	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	The study was a retrospective study and did not involve laboratory protocol.	N/A
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.	Yes.	
Sample size determination	Patients and methods (Para 6/line 123-127).	
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 123-127).	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	The study was a retrospective study and did not involve experiment in laboratory.	N/A
Define whether data describe technical or biological replicates	The study was a retrospective study and did not involve experiment in laboratory.	N/A
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Reference number for approval (Para 19/line 405-406) Materials and methods (Para 7/ line 141-143).	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	The study was a retrospective study and did not involve experimental animals.	N/A
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	The study was a retrospective and did not involve specimen and field samples.	
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 number for the regulatory approval	The study was a retrospective study and was not subject to dual use research.	N/A

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 in advance.	Criteria for exclusion (Para 6/line 123-137).	N/A

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Patients and methods (Para 7/line 145-153).	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on	Data sharing statement.	
access.		
If data are publicly available, provide accession number in repository or DOI or URL.	The data for this study are not publicly available.	N/A
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	The data for this study are not publicly available.	N/A

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential	Patients and methods (Para 7/line 146-153).	
for replicating the main findings of the study:		
State whether the code or software is available.	Patients and methods (Para 7/line 146-153).	
If code is publicly available, provide accession	Supplementary File S1.	
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	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 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.		

 $Article\ information: http://dx.doi.org/10.21037/jtd-20-2883.$