### <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		Х
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	res (mulcate where provided, section) paragraph)	X X
Provide accession number in repository <b>OR</b>		^
supplier name, catalog number, clone number,		
OR RRID		
<b>Primary cultures:</b> Provide species, strain, sex of		X
origin, genetic modification status.		
3 73		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
<b>Laboratory animals:</b> Provide species, strain, sex, age,		X
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		X
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		X
in repository (where relevant) <b>OR</b> RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		X
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique		X
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Line 104-106 (Methods – Study population)	
equivalent committee(s), provide reference number	Line 386-395 (Footnote – Ethical statement)	
for approval.	IRB No. 156_20 Bc	
Provide statement confirming informed consent	Line 100-101 (Methods – Study population)	
obtained from study participants.		
Report on age and sex for all study participants.	Line 104-105 (Methods – Study population)	

Table 1

# <u>Design</u>

<del></del>		
Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		Х
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		Х
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		
done, <b>or</b> if they were not carried out.		
Sample size determination		Х
Randomisation		Х
Blinding		Х
Inclusion/exclusion criteria	Line 104-111 (Methods – Study population)	
	I 6	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		Х
Define whether data describe technical or biological		
replicates		X
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Line 101-102 (Methods – Study population)	
authority granting ethics approval (IRB or equivalent	Line 386-395 (Footnote – Ethical statement)	
committee(s), provide reference number for	IRB No. 156_20 Bc	
approval.		
Studies involving experimental animals: State details		Х
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		X
relevant permits obtained, provide details of		
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,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	X
state the authority granting approval and reference		
number for the regulatory approval		

# <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Only patients with incomplete dataset were excluded.	
excluded, and whether the criteria for exclusion were	No additional exclusion criteria.	
determined and specified in advance.	Line 107-110 (Methods – Study population)	

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Line 152-157 (Methods – Statistical analysis)	
tests.	Line 158-257 (Results)	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Datasets (images, measurement values of ultrasound	
including protocols for access or restriction on	examinations, pathohistological results) are available on	
access.	request in anonymized records.	
If data are publicly available, provide accession		Х
number in repository or DOI or URL.		
If publicly available data are reused, provide		Х
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		Χ
for replicating the main findings of the study:		
State whether the code or software is available.		Х
If code is publicly available, provide accession		Х
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 discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		X
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.	

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