<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	No antibody used	n/a
name, catalogue number and RRID, if available.		
Colline at a data		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	No cell material used	n/a
Provide accession number in repository OR		
supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	No cell material used	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	No experimental animal used	n/a
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	No experimental animal used	n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	No experimental animal used	n/a
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	No plant or microbe used	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	No plant or microbe used	n/a
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Due to its dosimetric design, the study did not require	n/a
equivalent committee(s), provide reference number	ethical board approval, as it did not involve any animal	
for approval.	or human experiments or interventions.	
Provide statement confirming informed consent obtained from study participants.	Yes (Section: Methods-Patient selection/Paragraph 1)	
Report on age and sex for all study participants.	Yes (Section: Methods-Patient selection/Paragraph 1)	
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<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	Not clinical trial	n/a
number OR cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Yes (Section: Methods-Treatment planning/Paragraphs	
by-step protocols are available.	1 and 2)	
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	Yes (Section: Methods-Patient selection/Paragraph 1)	
Randomisation	Not a randomized study	n/a
Blinding	No blinding	n/a
Inclusion/exclusion criteria	Yes (Section: Methods-Patient selection/Paragraph 1)	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Yes (Section: Methods-Treatment planning/Paragraph	
replicated in laboratory	2)	
Define whether data describe technical or biological	Yes (Section: Methods-Treatment planning/Paragraph	
replicates	2)	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Due to its dosimetric design, the study did not require	n/a
authority granting ethics approval (IRB or equivalent	ethical board approval, as it did not involve any animal	
committee(s), provide reference number for approval.	or human experiments or interventions.	
Studies involving experimental animals: State details	Due to its dosimetric design, the study did not require	n/a
of authority granting ethics approval (IRB or	ethical board approval, as it did not involve any animal	
equivalent committee(s), provide reference number for approval.	or human experiments or interventions.	
Studies involving specimen and field samples: State if	No specimen and field samples used	n/a
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,	Not subject to dual use research of concern	n/a
state the authority granting approval and reference		
number for the regulatory approval		1

<u>Analysis</u>

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.	No data point excluded from analysis	n/a
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Yes (Section: Methods-Statistical methods/Paragraph 1)	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	Yes (Section: Methods-Plan evaluation/Paragraphs 1 and 2)	
If data are publicly available, provide accession number in repository or DOI or URL.	Not publicly available data	n/a
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	No publicly available data are reused	n/a
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:		
State whether the code or software is available.	Not a commercial code or software	n/a
If code is publicly available, provide accession number in repository, or DOI or URL.	Not a commercial code or software	n/a

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

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