### <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:	n/a
For commercial reagents, provide supplier		n/a
name, catalogue number and RRID, if available.		No commercial reagents
		were used in the paper.
Cell materials	Yes (indicate where provided:	n/a
<b>Cell lines:</b> Provide species information, strain.	···· (	n/a
Provide accession number in repository <b>OR</b>		This paper does not cover
supplier name, catalog number, clone number,		the relevant content.
OR RRID		the relevant content.
Primary cultures: Provide species, strain, sex of		n/a
origin, genetic modification status.		This paper does not cover
		the relevant content.
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age,	ies (maleate miere provided.	n/a
genetic modification status. Provide accession		No animals were involved in
number in repository <b>OR</b> supplier name, catalog		the experiment.
number, clone number, <b>OR</b> RRID		the experiment.
Animal observed in or captured from the		n/a
-		
field: Provide species, sex and age where		No animals were involved in
possible		the experiment.
Model organisms: Provide Accession number		n/a
in repository (where relevant) <b>OR</b> RRID		No model organisms were
		involved in the experiment.
Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession	· · · · (·····························	n/a
number if available, and source (including location		No plants were involved in
for collected wild specimens)		the experiment.
· ·		
Microbes: provide species and strain, unique		n/a
accession number if available, and source		No microbes were involved
		in the experiment.
Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or		n/a
equivalent committee(s), provide reference number		The paper is a retrospective
		human research. Only the
for approval.		
for approval.		Patients CT images were
for approval.		
		Patients CT images were
Provide statement confirming informed consent		Patients CT images were involved. n/a
Provide statement confirming informed consent		Patients CT images were involved. n/a
Provide statement confirming informed consent		Patients CT images were involved. <b>n/a</b> The paper is a retrospective
Provide statement confirming informed consent		Patients CT images were involved. <b>n/a</b> The paper is a retrospective human research. Only the
for approval. Provide statement confirming informed consent obtained from study participants. Report on age and sex for all study participants.	Yes	Patients CT images were involved. <b>n/a</b> The paper is a retrospective human research. Only the Patients CT images were
Provide statement confirming informed consent obtained from study participants.	Yes Details are provided in section Methods, paragraph 1.	Patients CT images were involved. <b>n/a</b> The paper is a retrospective human research. Only the Patients CT images were

### <u>Design</u>

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.		<b>n/a</b> This paper is not a clinical trials.
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.		<b>n/a</b> There is no laboratory protocol in this paper.
Experimental study design (statistics details)	Yes (indicate where provided:	n/a
State whether and how the following have been done, <b>or</b> if they were not carried out.		
Sample size determination	Yes Details are provided in section Methods, paragraph 1.	
Randomisation	Yes Details are provided in section Methods, paragraph 1.	
Blinding		<b>n/a</b> There is no blinding design in this paper.
Inclusion/exclusion criteria	Yes Details are provided in section Methods (Clinical data and the design of the radiotherapy plan), paragraph 1.	
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was replicated in laboratory	Yes Details are provided in section Methods (Experimental design and gamma analysis), paragraph 1.	
Define whether data describe technical or biological replicates	Yes Data describe technical. Details are provided in section Methods (Experimental design and gamma analysis), paragraph 1-2.	
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a The paper is a retrospective human research. Only the Patients CT images were involved.
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		<b>n/a</b> No experimental animals were involved in the study.
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		<b>n/a</b> No specimen and field samples were involved in the study.

Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern,		n/a
state the authority granting approval and reference		This study does not cover
number for the regulatory approval		the relevant content of
		Dual Use Research.

### <u>Analysis</u>

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is	Yes	
excluded, and whether the criteria for exclusion were	Details are provided in section	
determined and specified in advance.	Methods (Clinical data and the	
	design of the radiotherapy	
	plan), paragraph 1.	
	1 // 0 1	
Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Yes	
tests.	Details are provided in section	
	Methods (Statistical analysis),	
	paragraph 6.	
Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available,		n/a
including protocols for access or restriction on		Newly created datasets are
access.		not available.
If data are publicly available, provide accession		n/a
number in repository or DOI or URL.		The data are not publicly
		available because of patient
		privacy.
		privacy.
If publicly available data are reused, provide		n/a
accession number in repository or DOI or URL, where		The data are not publicly
possible.		available because of patient
		privacy.
		privacy.
Code Availability For all newly generated code and software essential	Yes (indicate where provided:	n/a
for replicating the main findings of the study:		
State whether the code or software is available.	Yes	
	The Gamma analysis software	
	is available.	
	Details are provided in section	
	Methods (Experimental design	
	and gamma analysis),	
	paragraph 2.	
If code is publicly available, provide accession		n/a
number in repository, or DOI or URL.		Code is publicly available.

# **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 guidelines for publication.	

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