# <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:	n/a
	No antibodies were involved in this study.
	,
Yes (indicate where provided:	n/a
	No cell lines were involved in this study.
	No cell lines were involved in this study.
Yes (indicate where provided:	n/a
·	No animals were involved in this study.
	No animals were involved in this study.
	No animals were involved in this study.
Yes (indicate where provided:	n/a
	No plants and microbes were involved in this study.
	No plants and microbes were involved in this study.
Yes (indicate where provided:	n/a
An approval of Ethics Committee was	, -
demonstrated in the section of "Ethical Statement "after discussion.	
This statement was indicated in the	
section of 'Ethical Statement' after discussion.	
This report was described in the result section.	
	Yes (indicate where provided:  Yes (indicate where provided:  Yes (indicate where provided:  An approval of Ethics Committee was demonstrated in the section of "Ethical Statement "after discussion.  This statement was indicated in the section of 'Ethical Statement' after discussion.

### Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.		This study is analytical investigation about Genetic characteristics of patients, not clinical trials
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	In our study, the main experiment is 'sequencing experiment', of which protocols were provided in the section of 'Materials and Methods'	11/4
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.	A total of 999 cases were involved.  Above information could be got in the first paragraph of 'Materials and Methods' section	II/ d
Sample size determination		Not applicable in this study.
Randomisation Blinding		Not applicable in this study.  Not applicable in this
Inclusion/exclusion criteria	The Inclusion/exclusion criteria was described in the in the 'Materials and Methods' section.	study.
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	The test of specimen was repeated	ii) a
replicated in laboratory  Define whether data describe technical or biological	three times for sequencing experiment. Above statement was indicated in the 'Materials and Methods' section.  This statement was indicated in the	
replicates	'Data analysis' paragraph of 'Materials and Methods' section.	
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.	An approval and reference number of Ethics Committee was demonstrated in the section of 'Materials and Methods' section and 'Ethical Statement' section.	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		This study didn't contain experimental animals
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		This study didn't contain specimen and field samples.
Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern,	res (muicate where provided:	There is no dual use

research of concern.

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	This statement concerning criteria of inclusion and	
is excluded, and whether the criteria for	exclusion was provided in the 'Materials and Methods'	
exclusion were determined and specified in	section.	

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify	The statistical tests were described in the 'Statistical	
choice of tests.	analysis' paragraph of 'Materials and Methods' section.	

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.	The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request. This statement was provided in the section of 'Availability of data and materials' after discussion.	
If data are publicly available, provide accession number in repository or DOI or URL.	The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request. This statement was provided in the section of 'Availability of data and materials' after discussion.	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request. This statement was provided in the section of 'Availability of data and materials' after discussion.	

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:	In this study, R packages (ggplot, pheatmap, and survival), GraphPad Prism 7.0 was used.	
State whether the code or software is available.	The codes are available from the corresponding author.	
If code is publicly available, provide accession number in repository, or DOI or URL.		Not 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,	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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