Materials Design Analysis Reporting (MDAR) 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	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		n/a（This study does not involve drugs or other interventions and it is a clinical observational study）

Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID		n/a（The study did not include any experiments, but only clinical observations）
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		n/a（The study did not include any experiments, but only clinical observations）

Experimental animals	Yes (indicate where	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID		n/a（The study did not include animal experiments, but only clinical observations）
Animal observed in or captured from the field: Provide species, sex and age where possible		n/a（The study did not include animal experiments, but only clinical observations）
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID		n/a（The study did not include animal experiments, but only clinical observations）

Plants and microbes	Yes (indicate where	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild		n/a（The study did not include any experiments, but only clinical observations）
Microbes: provide species and strain, unique accession number if available, and source		n/a（The study did not include any experiments, but only clinical observations）

Human research participants	Yes (indicate where	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a (This study is an epidemiological study,the included data were retrospective data from medical records and did not include any identifying information of the participants.)
Provide statement confirming informed consent obtained from study participants.		n/a (This study is an epidemiological study,the included data were retrospective data from medical records and did not include any identifying information of the participants. Consent to participate is not applicable for this study.)
Report on age and sex for all study participants.	Yes（“Demographic characteristics” on Page 4 of the manuscript）	

Design

Study protocol	Yes (indicate where	n/a
For clinical trials, provide the trial registration number **OR** cite DOI in manuscript.		n/a（The study did not include any experiments, but only clinical observations）

Laboratory protocol	Yes (indicate where	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.		n/a（The study did not include any experiments, but only clinical observations）

Experimental study design (statistics details)	Yes (indicate where	n/a
State whether and how the following have been done**, or** if they were not carried out.		
Sample size determination		n/a（The study did not include any experiments, but only clinical observations）
Randomisation		n/a（The study did not include any experiments, but only clinical observations）
Blinding		n/a（The study did not include any experiments, but only clinical observations）
Inclusion/exclusion criteria	Yes（“Study subjects”on page 4 of the manuscript）	

Sample definition and in-laboratory replication	Yes (indicate where	n/a
State number of times the experiment was replicated in laboratory		n/a（The study did not include any experiments, but only clinical observations）
Define whether data describe technical or biological replicates		n/a（The study did not include any experiments, but only clinical observations）

Ethics	Yes (indicate where	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 (This study is an epidemiological study, the included data were retrospective data from medical records and did not include any identifying information of the participants.)
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a（The study did not include animal experiments, but only clinical observations）
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		n/a （This study is an epidemiological study,the included data were retrospective data from medical records and did not include any identifying information of the participants.）

Dual Use Research of Concern (DURC)	Yes (indicate where	n/a

If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		n/a （This study does not involve dual-use research）

Analysis

Attrition	Yes (indicate where	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.	Yes（“Study subjects” on page 4 of the manuscript）	

Statistics	Yes (indicate where	n/a
Describe statistical tests used and justify choice of tests.	Yes（“Statistical analysis” on page 3 of the manuscript）	

Data Availability	Yes (indicate where	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		n/a（The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.）
If data are publicly available, provide accession number in repository or DOI or URL.		n/a（The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.）
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		n/a（The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.）

Code Availability	Yes (indicate where provided:	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.		**n/a**（There is no code or software available）
If code is publicly available, provide accession number in repository, or DOI or URL.		**n/a**（There is no code or software 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 recommendations for publication.	

Article Information: http://dx.doi.org/10.21037/tp-21-19