

## **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](https://doi.org/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**

<b>Antibodies</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Cell materials</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
<b>Cell lines:</b> Provide species information, strain. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Primary cultures:</b> Provide species, strain, sex of origin, genetic modification status.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Experimental animals</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
<b>Laboratory animals:</b> Provide species, strain, sex, age, genetic modification status. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Animal observed in or captured from the field:</b> Provide species, sex and age where possible	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Model organisms:</b> Provide Accession number in repository (where relevant) <b>OR</b> RRID	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Plants and microbes</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Microbes:</b> provide species and strain, unique accession number if available, and source	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Human research participants</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
Provide statement confirming informed consent obtained from study participants.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
Report on age and sex for all study participants.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x

**Design**

<b>Study protocol</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Laboratory protocol</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
Provide DOI or other citation details if detailed step-by-step protocols are available.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data.</i>	x
<b>Experimental study design (statistics details)</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
State whether and how the following have been done, <b>or</b> if they were not carried out.		x
Sample size determination	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data within a specific time frame.</i>	x
Randomisation	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data within a specific time frame.</i>	x
Blinding	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data within a specific time frame.</i>	x
Inclusion/exclusion criteria	Materials, Methods, & Design section, p. 2, paragraph 2	
<b>Sample definition and in-laboratory replication</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
State number of times the experiment was replicated in laboratory	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x
Define whether data describe technical or biological replicates	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x
<b>Ethics</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x
<b>Dual Use Research of Concern (DURC)</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	<i>Not applicable because our study was a retrospective analysis using all de-identified hospital data.</i>	x

**Analysis**

<b>Attrition</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	Materials, Methods, & Design section, p. 2, paragraph 2	
<b>Statistics</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
Describe statistical tests used and justify choice of tests.	Materials, Methods, & Design section, p. 3, paragraph 2	
<b>Data Availability</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
State whether newly created datasets are available, including protocols for access or restriction on access.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data which is not publicly available.</i>	x
If data are publicly available, provide accession number in repository or DOI or URL.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data which is not publicly available.</i>	x
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	<i>Not applicable because our study was a retrospective analysis using de-identified hospital data which is not publicly available.</i>	x
<b>Code Availability</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
For all newly generated code and software essential for replicating the main findings of the study:		x
State whether the code or software is available.	Materials, Methods, & Design section, p. 3, paragraph 2	x
If code is publicly available, provide accession number in repository, or DOI or URL.	<i>Not applicable because we analyzed our data using standard R scripts.</i>	x

**Reporting**

<b>Adherence to community standards</b>	<b>Yes (indicate where provided: section/paragraph)</b>	<b>n/a</b>
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.	<i>ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.</i>	

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