<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 | Yes, mentioned in | |
| name, catalogue number and RRID, if available. | Methods/paragraph 7 | |
| | 1 | |
| Cell materials | Yes (indicate where provided: | n/a |
| Cell lines: Provide species information, strain. | Yes, mentioned in the | |
| Provide accession number in repository OR | Methods/paragraph 2 | |
| supplier name, catalog number, clone number, | | |
| OR RRID | | |
| Primary cultures: Provide species, strain, sex of | | No. It is not involved in this |
| origin, genetic modification status. | | study. |
| | | |
| Experimental animals | Yes (indicate where provided: | n/a |
| Laboratory animals: Provide species, strain, sex, age, | | No. The research was done at |
| genetic modification status. Provide accession | | the cellular level. |
| number in repository OR supplier name, catalog | | |
| number, clone number, OR RRID | | |
| Animal observed in or captured from the | | No. The research was done at |
| field: Provide species, sex and age where | | the cellular level. |
| possible | | |
| Model organisms: Provide Accession number | | No. The research was done at |
| in repository (where relevant) OR RRID | | the cellular level. |
| Γ | | |
| Plants and microbes | Yes (indicate where provided: | n/a |
| Plants: provide species and strain, unique accession | | No. The research was done at |
| number if available, and source (including location | | the cellular level. |
| for collected wild specimens) | | |
| Microbes: provide species and strain, unique | | No. The research was done at |
| accession number if available, and source | | the cellular level. |
| | | |
| Human research participants | Yes (indicate where provided: | n/a |
| Identify authority granting ethics approval (IRB or | | No. The research was done at |

| Human research participants | Yes (indicate where provided: | n/a |
|---|-------------------------------|--|
| Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number | | No. The research was done at the cellular level. |
| for approval. | | |
| Provide statement confirming informed consent | | No. The research was done at |
| obtained from study participants. | | the cellular level. |
| Report on age and sex for all study participants. | | No. The research was done at the cellular level. |
| | | |

Design

| <u> </u> | | |
|---|---|--|
| Study protocol | Yes (indicate where provided: | n/a |
| For clinical trials, provide the trial registration number OR cite DOI in manuscript. | | No. The research was done at the cellular |
| Laboratory protocol | Yes (indicate where provided: | n/a |
| Provide DOI or other citation details if detailed step- by-step protocols are available. | DOI: 10.1007/s11325-021-02369-1 DOI: 10.1016/j.sleep.2020.02.009 | ,,, |
| | | |
| Experimental study design (statistics details) | Yes (indicate where provided: | n/a |
| State whether and how the following have been done, or if they were not carried out. | | |
| Sample size determination | | The research was done at the cellular level. |
| Randomisation | | The research was done at the cellular level. |
| Blinding | | The research was done at the cellular level. |
| Inclusion/exclusion criteria | | The research was done at the cellular level. |
| Samula definition and in laboratory replication | Van findianta subana mandada | |
| Sample definition and in-laboratory replication State number of times the experiment was | Yes (indicate where provided: Yes. Mentioned in Statistical | n/a |
| replicated in laboratory | Analysis. | |
| Define whether data describe technical or biological | Yes. Mentioned in Statistical | |
| replicates | Analysis. | |
| 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. | | No. The research was done at the cellular level. |
| Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | | No. The research was done at the cellular level. |
| Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. | | No. The research was done at the cellular level. |
| Dual Use Research of Concern (DURC) | Yes (indicate where provided: | n/a |
| If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval | 103 (maicate where provided. | No. It is not involved in this study. |

Analysis

| Attrition | Yes (indicate where provided: | n/a |
|---|-------------------------------|-----------------------|
| State if sample or data point from the analysis is | | No. All experimental |
| excluded, and whether the criteria for exclusion were | | data were included in |
| determined and specified in advance. | | the statistics |

| Statistics | Yes (indicate where provided: | n/a |
|---|-------------------------------|-----|
| Describe statistical tests used and justify choice of | Yes. Mentioned in Statistical | |
| tests. | Analysis. | |

| Data Availability | Yes (indicate where provided: | n/a |
|---|-------------------------------|---------------------------|
| State whether newly created datasets are available, | | No. It is not involved in |
| including protocols for access or restriction on | | this study. |
| access. | | |
| If data are publicly available, provide accession | | No. It is not involved in |
| number in repository or DOI or URL. | | this study. |
| If publicly available data are reused, provide | | No. It is not involved in |
| accession number in repository or DOI or URL, where | | this study. |
| possible. | | |

| 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. | | No. It is not involved in |
| | | this study. |
| If code is publicly available, provide accession | | No. It is not involved in |
| number in repository, or DOI or URL. | | this study. |

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. | | |

Article information: https://dx.doi.org/10.21037/atm-22-377