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

| Category                  | Provided? Details                                                                 | Notes          |
|---------------------------|-----------------------------------------------------------------------------------|----------------|
| **Antibodies**            | For commercial reagents, provide supplier name, catalogue number and RRID, if available. | This review did not involve antibodies. |
| **Cell materials**        | Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID. | This review did not involve cell lines. |
| **Primary cultures**      | Primary cultures: Provide species, strain, sex of origin, genetic modification status. | This review did not involve primary cultures. |
| **Experimental animals**  | Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID. | This review did not involve experimental animals. |
| **Animal observed in or captured from the field** | Animal observed in or captured from the field: Provide species, sex and age where possible. | This review did not involve experimental animals. |
| **Model organisms**       | Model organisms: Provide Accession number in repository (where relevant) OR RRID. | This review did not involve model organisms. |
| **Plants and microbes**   | Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens). | This review did not involve plants. |
|                           | Microbes: provide species and strain, unique accession number if available, and source | This review did not involve microbes. |
| **Human research participants** | Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | This review did not involve ethics approval. |
|                           | Provide statement confirming informed consent obtained from study participants. | This review did not involve informed consent. |
|                           | Report on age and sex for all study participants. | Results/paragraph 1-2 |
## Design

| Study protocol | Yes (indicate where provided: section/paragraph) | n/a |
|----------------|-----------------------------------------------|-----|
| For clinical trials, provide the trial registration number OR cite DOI in manuscript. | This review is not a clinical trial. | n/a |

| Laboratory protocol | Yes (indicate where provided: section/paragraph) | n/a |
|---------------------|-----------------------------------------------|-----|
| Provide DOI or other citation details if detailed step-by-step protocols are available. | This study is a review. | n/a |

| Experimental study design (statistics details) | Yes (indicate where provided: section/paragraph) | n/a |
|------------------------------------------------|-----------------------------------------------|-----|
| State whether and how the following have been done, or if they were not carried out. | This study is a review. | n/a |
| Sample size determination | This study is a review. | n/a |
| Randomisation | This study is a review. | n/a |
| Blinding | This study is a review. | n/a |
| Inclusion/exclusion criteria | Methods/paragraph 1 | |

| Sample definition and in-laboratory replication | Yes (indicate where provided: section/paragraph) | n/a |
|-------------------------------------------------|-----------------------------------------------|-----|
| State number of times the experiment was replicated in laboratory | This study did not involve experiment. | n/a |
| Define whether data describe technical or biological replicates | This study did not involve experiment. | n/a |

| Ethics | Yes (indicate where provided: section/paragraph) | n/a |
|--------|-----------------------------------------------|-----|
| Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | This study did not involve ethics. | n/a |
| Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | This study did not involve experimental animals. | n/a |
| 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 did not involve specimen and field samples. | n/a |

| Dual Use Research of Concern (DURC) | Yes (indicate where provided: section/paragraph) | n/a |
|-----------------------------------|-----------------------------------------------|-----|
| If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval | This was not a dual use research. | n/a |
### Analysis

| Attrition | Yes (indicate where provided: section/paragraph) | 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. | All data extracted from included case reports was analyzed. | n/a |

| Statistics | Yes (indicate where provided: section/paragraph) | n/a |
|------------|--------------------------------------------------|-----|
| Describe statistical tests used and justify choice of tests. | Statistical tests are not suitable for this review. | n/a |

| 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 generated during and/or analyzed during the current study are available from the corresponding author on reasonable request. | n/a |
| If data are publicly available, provide accession number in repository or DOI or URL. | The datasets generated during and/or analyzed during the current study are available from the | n/a |
| If publicly available data are reused, provide accession number in repository or DOI or URL, where possible. | This study did not involve the publicly available data. | n/a |

| 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: | This study did not involve the newly generated code software. | n/a |
| State whether the code or software is available. | This study did not involve the newly generated code and software. | n/a |

### 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. | ICMJE guidelines were followed as the journal follows ICMJE guidelines for publication. | |
| 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. | |

Article information: http://dx.doi.org/10.21037/atm-20-6998