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 | Indicate Where Provided | Notes |
|-----------------------------------|----------|-------------------------|-------|
| **Antibodies**                    | Yes      | (indicate where provided: section/paragraph) | n/a   |
| For commercial reagents, provide supplier name, catalogue number and RRID, if available. | Yes, in materials and methods P.6 line: 162-184. |       |
| **Cell materials**                | Yes      | (indicate where provided: section/paragraph) | n/a   |
| Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID | No cell line is used in the study | N/A   |
| Primary cultures: Provide species, strain, sex of origin, genetic modification status. | | N/A   |
| **Experimental animals**          | Yes      | (indicate where provided: section/paragraph) | 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 | No laboratory animals are involved in the study | N/A   |
| Animal observed in or captured from the field: Provide species, sex and age where possible | | N/A   |
| Model organisms: Provide Accession number in repository (where relevant) OR RRID | | N/A   |
| **Plants and microbes**           | Yes      | (indicate where provided: section/paragraph) | n/a   |
| Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens) | No plants and microns were involved in the study. | N/A   |
| Microbes: provide species and strain, unique accession number if available, and source | | N/A   |
| **Human research participants**   | Yes      | (indicate where provided: section/paragraph) | n/a   |
| Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | Page 5, lines 155-158; Page 17, lines 523-528 |       |
| Provide statement confirming informed consent obtained from study participants. | Page 5, lines 155-158; Page 17, lines 523-528 |       |
| Report on age and sex for all study participants. | Age was missing for some patients in the screened | N/A   |
## 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 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. | No detailed protocol was cited.                  | 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. |                                               |     |
| Sample size determination                                                     | N/A                                             |     |
| Randomisation                                                                | N/A                                             |     |
| Blinding                                                                     | N/A                                             |     |
| Inclusion/exclusion criteria                                                  | N/A                                             |     |

| Sample definition and in-laboratory replication                             | Yes (indicate where provided: section/paragraph) | n/a |
|-------------------------------------------------------------------------------|-------------------------------------------------|-----|
| State number of times the experiment was replicated in laboratory            | No wet lab experiments were conducted            | N/A |
| Define whether data describe technical or biological replicates             | No wet lab experiments were conducted            | 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. | Page 5, lines 155-158, Page 17, lines 523-528 |     |
| Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | Not involved                                     | 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. | Not involved                                     | 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 |                                               | N/A |
### Analysis

| Attribute                  | Requirement | Notes     |
|----------------------------|-------------|-----------|
| **Attrition**              | Yes         | 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. |             | N/A       |

| **Statistics**             | Yes         | n/a       |
| Describe statistical tests used and justify choice of tests. |             | Page 7-8, lines 221-227 |

| **Data Availability**      | Yes         | n/a       |
| State whether newly created datasets are available, including protocols for access or restriction on access. | Data availability form has been filled | N/A |
| If data are publicly available, provide accession number in repository or DOI or URL. | Data will be available upon request. | N/A |
| If publicly available data are reused, provide accession number in repository or DOI or URL, where possible. | Public data were downloaded from https://www.cbiportal.org | N/A |

| **Code Availability**      | Yes         | n/a       |
| For all newly generated code and software essential for replicating the main findings of the study: |             | N/A |
| State whether the code or software is available. | Line 221-227 | |
| If code is publicly available, provide accession number in repository, or DOI or URL. |             | N/A |

### Reporting

| **Adherence to community standards** | Requirement | Notes     |
|------------------------------------|-------------|-----------|
| 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 recommendations 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 recommendations for publication. | |

**Article Information:** [http://dx.doi.org/10.21037/atm-20-5118](http://dx.doi.org/10.21037/atm-20-5118)