<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: section/paragraph)	n/a
For commercial reagents, provide supplier	SRM: Proteintech,19858; ODC1: Proteintech,17003;	
name, catalogue number and RRID, if	SMOX: Proteintech,15052; iNOS: Proteintech,18985; IL-6:	
available.	Proteintech,21865; GAPDH: Proteintech,60004; NF-кВ	
	p65: Cell Signaling Technology, 8242S	

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	THP1: human, monocyte; procell, CL-0233	
Primary cultures: Provide species, strain, sex	THP1: human, monocyte; procell, CL-0233	
of origin, genetic modification status.		

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	N/A (no animal experiments were involved in this study)	
Animal observed in or captured from the field: Provide species, sex and age where possible	N/A (no animal experiments were involved in this study)	
Model organisms: Provide Accession number in repository (where relevant) OR RRID	N/A (no animal experiments were involved in this study)	

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)	N/A (no plant experiments were involved in this study)	
Microbes: provide species and strain, unique accession number if available, and source	N/A (no microbe experiments were involved in this study)	

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.	The study was approved by the Internal Review and Ethics Boards of Dongguan Maternal and Child Health Care Hospital (No. 5641) and Guangzhou First People's Hospital (No. GFPH0787)	
Provide statement confirming informed consent obtained from study participants.	Yes (Materials and Methods/Ethics statement:156)	
Report on age and sex for all study participants.	Yes (Table 1 The demographic and clinical characteristics)	

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	N/A (no clinical trials were involved in this study)	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	N/A (detailed steps are available in this manuscript)	
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 (no sample size was performed)	
Randomisation	N/A (patient samples were specially collected)	
Blinding	N/A (blinding was not necessary)	
Inclusion/exclusion criteria	Yes (the diagnostic criteria for HFMD disease with EV71	
	infection set out in the Chinese guidelines for the	
	diagnosis and treatment of HFMD (2018 edition))	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Yes (Materials and Methods/ Statistical Analysis:231)	
Define whether data describe technical or biological replicates	Yes (describe technical and biological replicates)	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	The study was approved by the Internal Review and	
authority granting ethics approval (IRB or equivalent	Ethics Boards of Dongguan Maternal and Child Health	
committee(s), provide reference number for approval.	Care Hospital (No.5641) and Guangzhou First People's Hospital(No. GFPH0787).	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	N/A (no animal experiments were involved in this study)	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,	The study was approved by the Internal Review and Ethics Boards of Dongguan Maternal and Child Health Care Hospital (No.5641) and Guangzhou First People's	
explain why.	Hospital(No. GFPH0787), and informed consent was obtained from the parents of each of the enrolled children.	
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 (dual use research of concern is not involved)	

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	N/A (it's not stated in our analysis)	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	The Student's t-test was used to determine statistical	
tests.	differences for the 2-group comparisons and a 1-way	
	analysis of variance was used for the multiple	
	comparisons. The correlations were evaluated using	
	Spearman's rank correlation test.	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on	N/A (the data were processed and exported)	
access.		
If data are publicly available, provide accession number in repository or DOI or URL.	N/A (the data were not publicly available)	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	N/A (no reuse of publicly available data)	

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:		
State whether the code or software is available.	Yes (Materials and Methods/ Statistical Analysis:231)	
If code is publicly available, provide accession	N/A (no code was involved)	
number in repository, or DOI or URL.		

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 guidelines for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

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