<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	Materials and Methods/ Prototype of the Simoa assay	
name, catalogue number and RRID, if available.	for detecting EVs	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Materials and Methods/ Cell culture and plasma	
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	(primary cultures are not used in the current study)	
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	(laboratory animals are not used in the current study)	
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	(not used in the current study)	
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	(model organisms are not used in the current study)	
in repository (where relevant) OR RRID		

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)	(not used in the current study)	
Microbes: provide species and strain, unique accession number if available, and source	(not used in the current study)	

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Materials and Methods/ Ethical statement	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	Materials and Methods/ Cell culture and plasma	
obtained from study participants.		
Report on age and sex for all study participants.	Table 1	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	(The current study is not a clinical trial)	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	Materials and Methods	
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	(not required for the nature of the work)	
Randomisation	(not required for the nature of the work)	
Blinding	(not required for the nature of the work)	
Inclusion/exclusion criteria	(not required for the nature of the work)	
Consider the Control of the Labour to the Control of the Control o		
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	The number of replicates in specified in the Figure	
Define whether data describe technical or biological replicates	The number of replicates in specified in the Figure	
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.	Materials and Methods/Ethical statement	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	(not involving experimental animals)	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	(not involving experimental animals)	
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	(the study is not subject to DURC)	liya

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	(no sample or data point excluded)	
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	Materials and Methods/ Statistical analysis	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	(no publicly available data)	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	(no publicly available data)	
number in repository or DOI or URL.		
If publicly available data are reused, provide	(no publicly available data reused)	
accession number in repository or DOI or URL, where		
possible.		

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.	(no newly generated softwares or codes)	
If code is publicly available, provide accession number in repository, or DOI or URL.	(no newly generated softwares or codes)	

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.		

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