<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 name, catalogue number and RRID, if available.	PE anti-human CD56 Antibody, Biolegend Cat. No. 318306	
	APC anti-human CD19 Antibody, Biolegend Cat. No. 302212	
	FITC anti-human CD3 Antibody, Biolegend Cat. No. 300306	
	PE anti-human CD8a Antibody, Biolegend Cat. No. 300908	
	APC anti-human CD4 Antibody, Biolegend Cat. No. 300514	
	PE anti-human CD25 Antibody, Biolegend Cat. No. 302606	
	FITC anti-human FOXP3 Antibody, Biolegend Cat. No. 320106	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		
Provide accession number in repository OR		Not
supplier name, catalog number, clone number,		invo
OR RRID		lved
Primary cultures: Provide species, strain, sex of		Not
origin, genetic modification status.		invo
		lved

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

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		Not
number if available, and source (including location		invo
for collected wild specimens)		lved
Microbes: provide species and strain, unique		Not
accession number if available, and source		invo
		lved

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 human blood used in this study is donated, blood collection is only used in research projects methodological research, and not applied to humans or animals, so there is no ethical approval in the early stage of research	

Provide statement confirming informed consent	Informed consent for blood	l donation	
obtained from study participants.			
	I understand that the prepar	ration and	research of
	of certain clinical diseases. This	research r	r the treatment
	approved by the Provincial Scie	nce And T	echnology
	Department, the main content of	the project	t is to enlarge
	the regulatory T cells in the peri	pheral blo	od and its
	function research.		
	I understand that blood dor	ors need t	o donate 50 ml
	to collect blood answring the same	faty of blo	e consumables
	Loss of 50 ml blood generally d	oes not cai	ise an
	uncomfortable reaction.		
	I understand that the project	t requires	the collection
	of basic information for scientif	ic research	and that the
	project unit will protect my priv	acy to the	extent required
	by law. The donated samples an	d informat	ion will be
	I will carefully fill out the l	Blood Don	or Health
	Questionnaire on the principle of	f seeking t	ruth from facts
	if the adverse consequences of f	alsehood a	re borne by
			2
	me.		5
	me.		
Report on age and sex for all study participants.	^{me.} Name	age	sex
Report on age and sex for all study participants.	me. Name Blood donor 1	age 48	sex female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2	age 48 38	sex female male
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3	age 48 38 44	sex female male male
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4	age 48 38 44 48	sex female male male male
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5	age 48 38 44 48 50	sex female male male male female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6	age 48 38 44 48 50 49	sex female male male female female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6 Blood donor 7	age 48 38 44 48 50 49 45	sex female male male female female male male
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6 Blood donor 7 Blood donor 8	age 48 38 44 48 50 49 45 67	sex female male male female female male male
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6 Blood donor 7 Blood donor 8 Blood donor 9	age 48 38 44 48 50 49 45 67 73	sex female male male female female male male male female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6 Blood donor 7 Blood donor 8 Blood donor 9 Blood donor 10	age 48 38 44 48 50 49 45 67 73 69	sex female male male female female male male female female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 6 Blood donor 7 Blood donor 7 Blood donor 9 Blood donor 10 Blood donor 11	age 48 38 44 48 50 49 45 67 73 69 65	sex female male male female female female female female female
Report on age and sex for all study participants.	me. Name Blood donor 1 Blood donor 2 Blood donor 3 Blood donor 4 Blood donor 5 Blood donor 5 Blood donor 7 Blood donor 7 Blood donor 8 Blood donor 9 Blood donor 10 Blood donor 11 Blood donor 12	age 48 38 44 48 50 49 45 67 73 69 65 62	sex female male male female female female female female female female female

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		Not
number OR cite DOI in manuscript.		involve
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		Not
by-step protocols are available.		involve
		d
Experimental study design (statistics details)	Ves (indicate where provided: section/paragraph)	n/2
State whether and how the following have been	This paper was designed to plan at least 8 per	11/ a
done. or if they were not carried out	group according to statistical requirements	
	but the final blood donor was only 12	
	but the final blood donof was only 12.	
Sample size determination	12	
Randomisation	Random selection outside the exclusion	
	criteria	
Blinding		Not
		involve
		d
Inclusion/exclusion criteria	Exclusion criteria: except for people with	
	infectious diseases, malignancies, and	
	immune diseases	
Sample definition and in laboratory realization	Man (indicate subcase analytic to a star former the	
Sample demilition and in-haboratory replication	Tes (indicate where provided: section/paragraph)	n/a
replicated in laboratory	Usually 2 times	
Define whether data describe technical or hielegical	Measured 2 times	
renlicates		
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of		No
authority granting othics approval (IPP or equivalent		

authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	
Studies involving experimental animals: State details	Not
of authority granting ethics approval (IRB or	involve
equivalent committee(s), provide reference number	d
for approval.	
Studies involving specimen and field samples: State if	Not
relevant permits obtained, provide details of	involve
authority approving study; if none were required,	d
explain why.	

Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,		Not
state the authority granting approval and reference		involve
number for the regulatory approval		d

<u>Analysis</u>

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.	Two samples that were not successfully cultured were not included in the statistical analysis.	
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	GraphPad Prism 8 statistical software (GraphPad	
tests.	Software Inc., San Diego, CA, USA)	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		Not
including protocols for access or restriction on		involve
access.		d
If data are publicly available, provide accession		Not
number in repository or DOI or URL.		involve
If publicly available data are reused, provide		Not
accession number in repository or DOI or URL, where		involve
possible.		d
Code Availability	Ves (indicate where provided: section/paragraph)	n/2
For all newly generated code and software essential	Tes (indicate where provided, section, paragraph)	Not
for replicating the main findings of the study:		involve
State whether the code or software is available.		Not
If code is publicly available, provide accession		Not
number in repository, or DOI or URL.		involve
		d

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of		No
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-21-3812