<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

ptor n/ N/
N/
N/
NI/
NI /
NI /
IN/
n/
N/
N/
N/
n/
N/
N/
n/
aph.
aph.
study
1
aph.
aph.

obtained or stored, as patient information was not required for the purposes of this study. In total,

experiments were carried out on extraneous tissue from 26 different healthy living donors between the ages of

Design

Yes (indicate where provided: section/paragraph) N/A			
Laboratory protocol Provide DOI or other citation details if detailed step-by-step protocols are available. Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Rindusion/exclusion criteria Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates Ethics Yes (indicate where provided: section/paragraph) N/A Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Ethics Yes (indicate where provided: section/paragraph) The data describe biological replicates. Fethics Yes (indicate where provided: section/paragraph) The data describe biological replicates. Fethics Yes (indicate where provided: section/paragraph) Methods: Electrical Field Stimulation – first paragraph N/A Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) Fistudy is subject to dual use research of concern, state the authority granting approval and reference	Study protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available. Experimental study design (statistics details)			N/A
Provide DOI or other citation details if detailed step-by-step protocols are available. Experimental study design (statistics details)	Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding Inclusion/exclusion criteria Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates Yes (indicate where provided: section/paragraph) Fach run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			
State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding N/A Inclusion/exclusion criteria Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates Ethics Yes (indicate where provided: section/paragraph) Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. The data describe biological replicates. The data describe biological replicates. Ethics Yes (indicate where provided: section/paragraph) Methods: Electrical Field Stimulation – first paragraph authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	by-step protocols are available.		
done, or if they were not carried out. Sample size determination Randomisation Blinding Inclusion/exclusion criteria Yes (indicate where provided: section/paragraph) State number of times the experiment was replicated in laboratory Periments. Define whether data describe technical or biological replicates Fethics Yes (indicate where provided: section/paragraph) Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. The data describe biological replicates. Fethics Yes (indicate where provided: section/paragraph) Methods: Electrical Field Stimulation – first paragraph authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Pual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
Sample size determination N/A Randomisation N/A Blinding N/A Inclusion/exclusion criteria N/A Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Ethics Pethics Yes (indicate where provided: section/paragraph) N/A Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. 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. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Pual Use Research of Concern (DURC) Yes (indicate where provided: section/paragraph) N/A N/A N/A N/A N/A N/A N/A	State whether and how the following have been		
Randomisation N/A Blinding N/A Inclusion/exclusion criteria N/A Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates Ethics Yes (indicate where provided: section/paragraph) Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Pual Use Research of Concern (DURC) Yes (indicate where provided: section/paragraph) N/A 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. Pual Use Research of Concern (DURC) Yes (indicate where provided: section/paragraph) N/A N/A N/	done, or if they were not carried out.		
Blinding Inclusion/exclusion criteria Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates The data describe biological replicates. Pethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Pual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Sample size determination		N/A
Sample definition and in-laboratory replication Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. Define whether data describe technical or biological replicates The data describe biological replicates.	Randomisation		N/A
Sample definition and in-laboratory replication State number of times the experiment was replicated in laboratory Define whether data describe technical or biological replicates The data describe biological replicates. Pethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference Yes (indicate where provided: section/paragraph) N/A Methods: Electrical Field Stimulation – first paragraph Methods: Electrical Field Stimulation – first paragraph N/A N/A Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Blinding		N/A
Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. Define whether data describe technical or biological replicates The data describe biological replicates. Pres (indicate where provided: section/paragraph) Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Inclusion/exclusion criteria		N/A
Each run included three independent experiments, with each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. Define whether data describe technical or biological replicates The data describe biological replicates. Pres (indicate where provided: section/paragraph) Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Consults definition and in laboration conditions	V 6 P	,
replicated in laboratory each parameter having at least three runs each. For example, the tamsulosin runs are based on a total of 9 experiments. Define whether data describe technical or biological replicates The data describe biological replicates. Pethics Yes (indicate where provided: section/paragraph) Methods: Electrical Field Stimulation – first paragraph authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			n/a
example, the tamsulosin runs are based on a total of 9 experiments. Define whether data describe technical or biological replicates The data describe biological replicates. Pethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	The state of the s		
Ethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Pual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference The data describe biological replicates.	replicated in laboratory		
Define whether data describe technical or biological replicates The data describe biological replicates. Pethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			
Ethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference		· ·	
Ethics Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Define whether data describe technical or biological	The data describe biological replicates.	
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference Methods: Electrical Field Stimulation – first paragraph N/A Studies involving experimental animals: State details of authority granting exproval (IRB or equivalent committee(s), provide reference number for approval. N/A N/A N/A	replicates		
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference Methods: Electrical Field Stimulation – first paragraph N/A Studies involving experimental animals: State details of authority granting exproval (IRB or equivalent committee(s), provide reference number for approval. N/A N/A N/A	Ethics	Yes (indicate where provided: section/paragraph)	n/a
authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			, -
committee(s), provide reference number for approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference		met paragraph	
approval. Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			
of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	Studies involving experimental animals: State details		N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			,
for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference			
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, 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, state the authority granting approval and reference	1		
relevant permits obtained, provide details of authority approving study; if none were required, 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, state the authority granting approval and reference N/A			N/A
authority approving study; if none were required, 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, state the authority granting approval and reference N/A			,
explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference 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			
If study is subject to dual use research of concern, state the authority granting approval and reference	Dual Use Research of Concern (DURC)	Ves (indicate where provided: section/paragraph)	n/a
state the authority granting approval and reference		105 (maicate where provided, section, paragraph)	
			11/7
	number for the regulatory approval		

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		N/A
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	Yes: Methods section (Statistics)	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		N/A
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession		N/A
number in repository or DOI or URL.		
If publicly available data are reused, provide		N/A
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		N/A
for replicating the main findings of the study:		
State whether the code or software is available.		N/A
If code is publicly available, provide accession		N/A
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		N/A
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.		

 $Article\ information:\ http://dx.doi.org/10.21037/tau-20-1342$