Materials Design Analysis Reporting (MDAR) 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.		No antibodies were used

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 lines were used
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		No primary cultures were performed

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 animals were used
Animal observed in or captured from the field: Provide species, sex and age where possible		No animals were used
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID		No animals were used

N/aPlants 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 were used
Microbes: provide species and strain, unique accession number if available, and source		No microbes were used

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.	On"Ethenic statment" of "Footnote" section: This study was conducted with approval of the Ethics Committee of the First People's Hospital of Yunnan Province(YYLH097).	
Provide statement confirming informed consent obtained from study participants.	On "Subject section" of Method in main text, paragraph 2 and "Ethical Statement" section of Footnote:add "Oral informed consent was taken from all the patients or their families."	
Report on age and sex for all study participants.	On "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.		Not clincal trials

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 DOI or citation details are available

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.		Did not involve
Sample size determination		Did not involve
Randomisation		Did not involve
Blinding		Did not involve
Inclusion/exclusion criteria	On “Introduction section” of main text, paragraph 1, line 10-14:The pure form is confined to the progressive spastic paresis with clinical manifestations restricted to corticospinal system degeneration, including lower extremity weakness and spasticity, corticospinal tract signs, disturbance in vibration sense and proprioception, and a variable hypertomic urinary disturbance.	

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		Not available
Define whether data describe technical or biological replicates		Not available

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.	On”Ethenic statment” of “Footnote” section: This study was conducted with approval of the Ethics Committee of the First People’s Hospital of Yunnan Province(YYLH097).	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No animals were used
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		No specimen and field samples were used

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

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.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		n/a
If data are publicly available, provide accession number in repository or DOI or URL.	The accession numbers of the genes in the ClinVar database were SCV001573094 and SCV001573804	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		n/a

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:		**n/a**
State whether the code or software is available.		**n/a**
If code is publicly available, provide accession number in repository, or DOI or URL.		**n/a**

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.		**n/a**
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.	

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