

Supplementary Data

STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No.	Recommendation	Page No.	Relevant text from manuscript
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	Page 1	This study was a retrospective review of digital subtraction angiography (DSA) and CTA.
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 1	Objectives, Methods, Results and Conclusion are clearly described in the abstract.
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	Pages 2–3	A broad range of structural differences within the human cerebrovascular system can greatly affect its function...
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 4	The objective of this study was to evaluate the association between posterior circulation vascular variants...
Methods				
Study design	4	Present key elements of study design early in the paper	Page 4–5	This retrospective observational study was approved by the Ethics Committee...
Setting	5	Describe the setting, locations, and relevant dates	Page 5	From January 2019 to September 2022, a retrospective review was performed...
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants	Page 5	Inclusion criteria for this study were: availability of CTA and DSA...
		(b) For matched studies, give matching criteria	Not applicable	Not applicable

Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers	Page 6	The following parameters were examined: vertebral artery size, PCoA orientation...
Data sources/ measurement	8	For each variable of interest, give sources of data and details of methods of assessment	Page 5–6	Image studies were reviewed using PACS...
Bias	9	Describe any efforts to address potential sources of bias	Page 10	This is a retrospective analysis with limitations including bias...
Study size	10	Explain how the study size was arrived at	Page 5	A total of 104 patients were included in the study.
Quantitative variables	11	Explain how quantitative variables were handled in the analyses	Page 6–7	Continuous variables were reported as mean ± SD.
Statistical methods	12	(a) Describe all statistical methods	Page 7	Statistical analysis was carried out using SPSS version 25.0.
		(b) Describe any methods used to examine subgroups and interactions	Page 9	Subgroup analyses of aneurysm laterality were performed.
		(c) Explain how missing data were addressed	Page 6	Patients with missing PP data were excluded.
		(d) If applicable, explain how loss to follow-up was addressed	Not applicable	Not applicable
		(e) Describe any sensitivity analyses	Not applicable	Not applicable
Results				
Participants	13	(a) Report numbers of individuals at each stage of study	Page 7	A total of 104 patients were analyzed.
		(b) Give reasons for non-participation	Page 5	Patients with incomplete imaging data were excluded.
		(c) Consider use of a flow diagram	Page 9	Fig. 3 illustrates the study design flowchart.
Descriptive data	14	(a) Give characteristics of study participants	Page 7–8	47 males and 57 females with demographic data...
		(b) Indicate number of participants with missing data	Page 6	Patients with missing PP data excluded.
		(c) Summarise follow-up time	Not applicable	Not applicable

Outcome data	15	Report numbers of outcome events	Page 8	Aneurysm localization was bilateral or midline in 52.9%.
Main results	16	(a) Give unadjusted estimates and precision	Page 8–9	Statistical significance observed between PP grading and aneurysm laterality.
		(b) Report category boundaries	Page 6	PP grading defined from 1 to 5.
		(c) Translate estimates of relative risk	Not applicable	Not applicable
Other analyses	17	Report other analyses done	Page 9	Persistent fetal circulation analysis was performed.
Discussion				
Key results	18	Summarise key results	Page 9	This study demonstrates that PP anomaly is associated...
Limitations	19	Discuss limitations of the study	Page 10	This is a retrospective study with limitations...
Interpretation	20	Give a cautious overall interpretation of results	Page 9–10	Findings suggest asymmetric vascular anatomy contributes...
Generalisability	21	Discuss the generalisability of the study results	Page 10	Clinical implications discussed.
Other information				
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	Page 11	There was no funding.