Correction to: Deep venous drainage variant rate and degree may be higher in patients with perimesencephalic than in non-perimesencephalic angiogram-negative subarachnoid hemorrhage

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The original version of this article, published on 11 September 2020, unfortunately contained mistakes. The following corrections have therefore been made in the original:

In the last paragraph of section “Variables,” the third sentence should read: “Scores ranging from 4 to 5 for WFNS and 3–5 HH and 3–4 for mRS and SEBES were considered high for each respective scoring method.”

In addition, the definition for WFNS was given incorrectly in Tables 1, 3, and 4 and the values of High WFNS were partly incorrect in Table 3. The corrected tables are given below. The original article has been corrected.

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Table 1 Summary of demographic, historical information, and outcome of angiogram-negative subarachnoid hemorrhage patients

Variables	Total (<i>n</i> = 273)	No. (%) of patients		<i>p</i> value	
		PAN-SAH (<i>n</i> = 184, 67.4%)	NPAN-SAH (<i>n</i> = 89, 32.6%)	Test for correlation ^a	Test for difference ^b
Age	56.2 ± 11.1	55.7 ± 10.7	57.4 ± 11.8	0.791	0.229
Female	125 (45.8)	90 (48.9)	35 (39.3)	0.137	0.136
Hypertension	97 (35.5)	62 (33.7)	35 (39.3)	0.364	0.362
Hypercholesterolemia	42 (15.4)	29 (15.8)	13 (14.6)	0.805	0.804
Diabetes	22 (8.1)	13 (7.1)	9 (10.1)	0.388	0.386
Tobacco use	95 (34.8)	63 (34.2)	32 (36.0)	0.781	0.780
Alcohol use	103 (37.8)	69 (37.5)	34 (38.2)	0.911	0.911
HH 3–5	34 (12.5)	8 (4.3)	26 (29.2)	< 0.001	< 0.001
WFNS 4–5	26 (9.5)	5 (2.7)	21 (23.6)	< 0.001	< 0.001
mFS 3–4	63 (23.1)	5 (2.7)	58 (65.2)	< 0.001	< 0.001
SEBES 3–4	17 (6.2)	2 (1.1)	15 (16.9)	< 0.001	< 0.001
IVH	61 (22.3)	26 (14.1)	35 (39.3)	< 0.001	< 0.001
BVRs degree				< 0.001	< 0.001
0	60 (22.0)	28 (15.2)	32 (36.0)		
1	50 (18.3)	34 (18.5)	16 (18.0)		
2	70 (25.6)	45 (24.5)	25 (28.1)		
3	44 (16.1)	35 (19.0)	9 (10.1)		
4	49 (17.9)	42 (22.8)	7 (7.9)		
Positive repeated DSA ^c	12 (4.4)	5 (2.7)	7 (7.9)	0.108	0.197
Hydrocephalus	21 (7.7)	3 (1.6)	18 (20.2)	< 0.001	< 0.001
DCI	36 (13.2)	9 (4.9)	27 (30.3)	< 0.001	< 0.001
Rebleeding	6 (2.2)	0 (0)	6 (6.7)	< 0.001	0.001
Poor outcome ^d (3 months)	39 (14.3)	13 (7.1)	26 (29.2)	< 0.001	0.001
Poor outcome ^d (1 year)	23 (8.4)	4 (2.2)	19 (21.4)	< 0.001	0.001

^a *p* values testing for correlation result from the Spearman test of correlation^b *p* values testing for difference between groups result from a Kruskal-Wallis test^c 130 AN-SAH patients (82 PAN-SAH and 48 NPAN-SAH) underwent repeated DSA^d Poor outcome represents mRS 2–6

Table 3 Association of BVR type with severity of subarachnoid hemorrhage and outcome

Variables	No. (%) of patients		<i>p</i> value ^a	No. (%) of patients		<i>p</i> value ^a
	Normal BVRs (<i>n</i> = 60)	Abnormal BVRs (<i>n</i> = 213)		At least 1 primitive BVR (<i>n</i> = 137)	No primitive BVR (<i>n</i> = 136)	
SAH severity						
High HH (3–5)	14 (23.3)	20 (9.4)	0.004	9 (6.6)	25 (18.4)	0.003
High WFNS (4–5)	13 (21.7)	13 (6.1)	< 0.001	3 (2.2)	134 (98.5)	< 0.001
High mFS (3–4)	24 (40.0)	39 (18.3)	< 0.001	20 (14.6)	43 (31.6)	0.001
High SEBES (3–4)	7 (11.7)	10 (4.7)	0.095	1 (0.7)	16 (11.8)	< 0.001
IVH	17 (28.3)	44 (20.7)	0.207	20 (14.6)	41 (30.1)	0.002
NPAN-SAH	32 (53.3)	57 (26.8)	< 0.001	31 (22.6)	58 (42.6)	< 0.001
Outcome						
Positive repeated DSA ^b	8 (24.2)	4 (4.1)	0.001	2 (3.2)	10 (14.7)	0.024
DCI	14 (23.3)	22 (10.3)	0.009	12 (8.8)	24 (17.6)	0.03
Rebleeding	5 (8.3)	1 (0.5)	0.002	0 (0)	6 (4.4)	0.038
Hydrocephalus	5 (8.3)	16 (7.5)	0.833	6 (4.4)	15 (11.1)	0.039
High mRS (2–6) at 3 months	15 (25.0)	24 (11.3)	0.007	13 (9.5)	26 (19.1)	0.023
High mRS (2–6) at 1 year	13 (21.7)	10 (4.7)	< 0.001	3 (2.2)	20 (14.7)	< 0.001

^a *p* values were tested using chi-square analysis or Fisher's exact test^b 130 AN-SAH patients underwent repeated DSA (33 normal BVR, 97 abnormal BVRs, 62 at least 1 primitive BVR, 68 no primitive BVR)**Table 4** Multivariate analysis for predictors of positive findings on repeated DSA, rebleeding, DCI, and poor outcome at 1 year

Variables	OR (95% CI)	<i>p</i> value [#]
Predicting positive repeated DSA*		
Normal BVRs	7.440 (2.071–26.729)	0.002
Predicting rebleeding		
High SEBES (3–4)	30.772 (4.565–207.437)	< 0.001
Normal BVRs	15.207 (1.570–147.327)	0.019
Predicting DCI		
High WFNS (4–5)	17.392 (4.368–69.240)	< 0.001
High mFS (3–4)	4.477 (1.739–11.528)	0.002
NPAN-SAH	3.318 (1.352–8.140)	0.009
Poor outcome at 1 year		
Female	0.086 (0.014–0.528)	0.008
High WFNS (4–5)	10.108 (2.560–39.916)	0.001
High SEBES (3–4)	77.389 (9.890–605.541)	< 0.001
Normal BVRs	5.728 (1.625–20.195)	0.007

*130 AN-SAH patients underwent repeated DSA

[#] Multivariate logistic regression analysis using backward selection**Publisher's note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.