

On-line Table 1: Location of fistulas and dense coil packages onto the cranial nerve compartment anatomy and course of cranial nerve palsies with focus on cranial nerves III and VI

Patient	AVF Type, Cause	Areas Involved by the Fistula ^a	Location of Dense Coil Packages ^a	Expected CN Involved ^b	CNP before Treatment	CNP Follow-Up ^c
12	Direct, trauma	C, D	D	VI	III, VI	—
14	Direct, trauma	B	A, B, C, D	III	III; V1; VI	—
10	Direct, aneurysm	B, C	A, B, C, D	III, VI	III; V1; VI	III: +; V1,VI: —
11	Direct, aneurysm	D	D	VI	III; V1,2; VI	III: +; V1,2,VI: —
13	Direct, trauma	A, B, C, D	A, B, C, D	III, VI	III, VI	+
16	Dural	A, B, C, D	A, B, C, D	III, VI	VI	+
2	Dural	C, D	A, C, D	VI	VI	+
15	Dural	D	D	VI	VI	+
7	Direct, aneurysm	A, B, C, D	C, D	III, VI	III, VI	III: +++; VI: +
5	Direct, aneurysm	A, B, C, D	A, B, C, D	III, VI	III, VI	+++
1	Direct, unknown	A, B, C, D	B, C	III, VI	III, VI	+++
6	Direct, unknown	A, B, C, D	C	III, VI	VI	+++
8	Dural	A, D	A, C, D	VI	VI	+++
9	Direct, unknown	A, B, C, D	C, D	III, VI	None	None
3	Direct, unknown	A	A	III, VI	None	None
4	Dural	A	A, C, D	III, VI	None	None

^a According to Nishino et al.²: Area A indicates SOV; Area B, superolateral part of anterior CS adjacent to the lateral surface of the ICA; Area C, inferolateral part of the CS adjacent to the horizontal part of the ICA; Area D, posterolateral part of the CS adjacent to the lateral surface of the posterior bend of the intracavernous ICA; dense area, more than 3/4 densely packed with coils.

^b Mainly suspected cranial nerves affected: Area A indicates cranial nerve III, VI; Area B, cranial nerve III; Area C, cranial nerve VI; Area D, cranial nerve VII.

^c CNP follow-up: — indicates unchanged; +, improved; +++, cured.

On-line Table 2: Course of ocular and neurologic symptoms

Clinical Symptom (n = 16 Patients)	Initially, n (%) ^a	At Follow-Up, n (%) ^b		
		Cured	Improved	Unchanged
Deficit of oculomotor function				
Due to cranial nerve VI paresis	13 (81.25)	4 (31)	5 (38)	4 (31)
Due to cranial nerve VI and cranial nerve III paresis	8 (50)	3 (37.5)	3 (37.5)	2 (25)
Symptomatic with:				
Diplopia	11 (68.75)	4 (36)	6 (55)	1 (9)
Ptosis	8 (50)	3 (37.5)	3 (37.5)	2 (25)
Acute/persistent visual loss	6 (37.5)	4 (66)	1 (17)	1 (17)
Deficit of pupillary function	7 (44)	0	0	7 (100)
Anisocoria	4 (25)	1 (25)	0	3 (75)
Sensory deficit cranial nerve V	3 (18.75)	0	0	3 (100)
Pulsating tinnitus	6 (37.5)	6 (100)	0	0
Chemosis	9 (56.25)	9 (100)	0	0
Exophthalmus	10 (62.5)	10 (100)	0	0
Headache	10 (62.5)	4 (40)	6 (60)	0

^a At time of intervention.

^b Follow-up after 4.4 years (mean value).

On-line Table 3: Detailed overview of headache, vertigo, nonpulsating tinnitus, gait disturbance, and visual acuity at follow-up

Patient	Headache	Vertigo	Nonpulsating Tinnitus	Gait Disturbance ^a	Visual Acuity	
					Right	Left
1	1	0	1	0	0.9	0.8
2	0	0	1	0	0.7	0.8
3	1	0	1	0	0.8	0.9
4	0	1	0	0	0.6	0.6
5	1	0	0	0	0.8	0.8
6	0	1	1	0	0.6	0.8
7	0	0	0	0	0.5	0.6
8	1	0	1	0	0.6	0.7
9	0	1	0	0	0.4	0.8
10	0	0	0	1	0.2	0.5
11	0	0	0	0	0.1	0.5
12	0	0	1	1	na ^b	1
13	0	0	1	0	0.8	0.9
14	1	1	1	0	0.8	0.6
15	0	0	0	0	na ^c	1
16	1	0	1	0	1	1
Σ	6	4	9	2	Mean values:	
%	38	25	56	12.5	0.63	0.77

^a Gait disturbance due to ophthalmologic symptoms.

^b Traumatic amaurosis.

^c Initial and postinterventional venous stasis retinopathy.

On-line Table 4: Distribution of responses to EQ-5D dimension at follow-up

EQ-5D dimension	Response (%)		
	No Problems	Moderate Problems	Extreme Problems
Mobility	9 (56)	7 (44)	0
Self care	14 (88)	2 (12)	0
Usual activities	9 (56)	7 (44)	0
Pain/discomfort	4 (25)	12 (75)	0
Anxiety/depression	11 (69)	5 (31)	0
Mean values (%)	9.4 (59)	6.6 (41)	0 (0)