

On-line Table 1. Patient and tumor characteristics by embolization material

	Total Embolized Cohort ^a	PVA	PVA and Gelfoam	PVA and Coil	Coil	PVA, Gelfoam, and Coil	P Value
Total patients	174	67	75	26	3	1	—
Total treated meningiomas	177	72	77	28	3	1	—
Mean age (range) (yr)	56 (17–82)	56 (17–81)	58 (25–82)	54 (29–78)	51.3 (44–64)	36	1.0
Female (%)	116 (66.7)	45 (68.2)	48 (64.0)	17 (65.4)	2 (66.7)	1 (100)	.971
Tumor location							.265
Olfactory groove (%)	5 (2.9)	2 (3.1)	2 (2.7)	1 (4.0)	0	0	
Planum sphenoidale/tuberculum (%)	5 (2.9)	3 (4.7)	1 (1.4)	1 (4.0)	0	0	
Cavernous sinus (%)	0	0	0	0	0	0	
Sphenoid wing (%)	31 (18.0)	6 (9.4)	19 (25.7)	3 (12.0)	1 (33.3)	0	
Suprasellar (%)	0	0	0	0	0	0	
Convexity (%)	65 (37.8)	25 (39.1)	30 (40.5)	8 (32.0)	1 (33.3)	0	
Parasagittal (%)	41 (23.8)	20 (31.3)	16 (21.6)	4 (16.0)	0	0	
Middle cranial fossa (%)	2 (1.2)	0	1 (1.4)	1 (4.0)	0	0	
Posterior fossa (%)	18 (10.5)	6 (9.4)	5 (6.8)	6 (24.0)	0	1 (100)	
Intraosseous (%)	1 (0.6)	1 (1.6)	0	0	0	0	
Intraventricular (%)	0	0	0	0	0	0	
Cerebellopontine angle (%)	4 (2.3)	1 (1.6)	0	1 (4.0)	1 (33.3)	0	
Max. tumor diameter (mm) (range)	47 (27.3)	45.7 (16–79)	45.5 (17–89)	45.8 (20–70)	41 (31–46)	44	1.0
Prior resection (%)	45.6 (16–89)	8 (11.9)	2 (2.7)	1 (4.0)	0	0	.221
Prior radiosurgery (%)	11 (6.4)	6 (9.0)	2 (2.7)	3 (12.0)	0	0	.268
Prior radiotherapy (%)	11 (6.3)	4 (6.0)	1 (1.4)	0	0	0	.359
WHO grade	5 (2.9)						.335
I		41 (66.1)	52 (81.3)	19 (73.1)	3 (100)	1 (100)	
II	121 (75.2)	19 (30.6)	11 (17.2)	5 (19.2)	0	0	
III	35 (21.7)	2 (3.2)	1 (1.6)	2 (7.7)	0	0	

Note:—Max. indicates maximum; WHO, World Health Organization.

^a Two patients with incomplete data in records about embolization material used.

On-line Table 2. Operative outcomes by embolization method^a

	PVA	PVA and Gelfoam	PVA and Coil	Coil	PVA, Gelfoam, and Coil	P Value
Operative time (min)	244 (60–639)	201 (55–230)	268 (124–473)	335 (244–390)	149	.092
Estimated blood loss (mL)	371 (0–2250)	465 (0–2700)	289 (50–1000)	700 (100–1500)	650	.277
Extent of resection						.472
Gross total	39 (63.9)	55 (75.3)	16 (64.0)	2 (66.7)	1 (100)	
Subtotal	16 (26.2)	9 (12.3)	7 (28.0)	1 (33.3)	0	
Partial	6 (9.8)	9 (12.3)	2 (8.0)	0	0	
Operative complications						
Total complications	7 (10.4)	12 (16.0)	3 (11.5)	0	0	.927
Subdural hematoma	1 (1.5)	2 (2.7)	0	0	0	
Cerebral infarction	2 (3.0)	1 (1.3)	0	0	0	
ICH/IVH	0	0	0	0	0	
CSF leak	0	1 (1.3)	0	0	0	
Pseudomeningocele	1 (1.5)	1 (2.7)	0	0	0	
Hydrocephalus	0	0	0	0	0	
Seizure	0	0	0	0	0	
Infection	1 (1.5)	2 (2.7)	1 (3.8)	0	0	
Cranial nerve deficit	1 (1.5)	0	1 (3.8)	0	0	
DVT/PE	0	3 (4.0)	1 (3.8)	0	0	
Perioperative mortality	1 (1.5)	1 (1.3)	0	0	0	
Other	0	1 (1.3)	0	0	0	
Postop radiotherapy (%)	2 (3.3)	2 (2.8)	4 (16.0)	0	0	.134
Postop radiosurgery (%)	4 (6.0)	4 (5.6)	3 (13.0)	0	0	.051

Note:—ICH/IVH indicates intracerebral hemorrhage/intraventricular hemorrhage; DVT/PE, deep vein thrombosis/pulmonary embolism Postop, postoperative.

^a Bonferroni post hoc comparison of PVA and Gelfoam versus PVA and coil when adjusting the *P* value according to ANOVA for 5 groups.