

ON-LINE APPENDIX: DETAILS OF ANIMAL HOUSING, HUSBANDRY, AND ANESTHESIA

Protocols

Animal Housing and Husbandry. The New Zealand white rabbits (Charles River Canada; Senneville, Quebec, Canada) were housed individually (R-SUITE Enriched Rabbit Housing; Tecniplast, West Chester, Pennsylvania). The housing room was ventilated with filtered 100% outside air (room temperature, $19 \pm 1^\circ\text{C}$; relative humidity, $50\% \pm 10\%$) and a 12:12 hour light/dark cycle. Animals received 225 mL of feed daily (Charles River Rabbit 5079-autoclavable; Charles River, Senneville, Quebec, Canada), with alfalfa, vegetables, and water provided ad libitum. Each cage was provided with cardboard boxes, dumbbell toys, and wood gnawing blocks (Bio-Serv, Flemington, New Jersey).

Anesthesia. On the day before the procedure, the dorsal aspect of the neck was shaved for the application of a 12- $\mu\text{m/h}$ fentanyl patch (Sandoz Canada, Boucherville, Quebec, Canada). On the day of the procedure, the rabbit received glycopyrrolate (0.01-mg/kg; Omega, Montreal, Quebec, Canada) and acepromazine (0.75-mg/kg, Atravet; Boehringer Ingelheim, Burlington, Ontario, Canada) subcutaneously as premedication. A 24-ga catheter (Jelco; Smiths Med-

ical, Southington, Connecticut) was introduced in the marginal ear vein, and general anesthesia was induced with an intravenous injection of propofol (5 mg/kg, Diprivan 1%; AstraZeneca, Mississauga, Ontario Canada). Endotracheal intubation was performed with a 3-mm (inner diameter) cuffed tracheal tube (Teleflex, Durham, North Carolina), and anesthesia was maintained with isoflurane (2%–3%, Forane; Baxter, Mississauga, Ontario, Canada) in oxygen (flow rate, 1 L/min). A second catheter was inserted in the saphenous vein for the administration of a constant rate infusion of ketamine (1.2-mg/kg/h, Vetalar; Bioniche Life Sciences, Belleville, Ontario, Canada) and lidocaine hydrochloride (1.5 mg/kg/h; Hospira, Montreal, Quebec, Canada). Meloxicam (0.3-mg/kg, Metacam; Boehringer Ingelheim, Burlington, Ontario, Canada) was administered subcutaneously 1 hour before the surgical procedure, and the surgical site was infiltrated with bupivacaine hydrochloride (2-mg/kg; Hospira). Postoperative anesthesia was maintained for 3 days with daily meloxicam by mouth (0.3 mg/kg), and subcutaneous buprenorphine (0.01-mg/kg, Vetergesic; Health care Ltd, Hull, United Kingdom) was used as rescue anesthesia. The fentanyl patch was removed 72 hours after application. A light bandage and a pillow collar (Lomir Biomedical Inc, Notre-Dame-de l'île-Perrot, Quebec, Canada) were placed on the surgical wound for 6 days.

On-line Table: Aneurysms and angiographic results

	Aneurysm Dimensions						Treatment	Angiographic Score
	Saccular Portion			Fusiform Portion				
	Length (mm)	Width (mm)	Volume (mm ³)	Length (mm)	Maximum Diameter (mm)	Volume (mm ³)		
Complex fusiform model								
1	10.3	4.1	90.7	6.0	5.7	102.1	HPS	0
2	8.5	3.9	67.7	7.8	4.8	94.1	HPS	0
3	8.5	4.4	86.2	7.7	5.2	109	HPS	0
4	9.6	4.2	88.7	6.1	4.7	70.6	2xHPS	2
5	6.9	4.0	57.8	7.7	5.2	109	2xHPS	0
6	12.3	3.7	88.2	7.8	5	102.1	FD	3
7	9.1	3.7	65.2	7.6	4.3	73.6	FD	4
8	8.0	3.0	37.7	8.6	4.2	79.4	FD	3
9 ^a	6.9	4.1	60.7	16.5	8.6	639	FD	4
10	11.2	4	93.8	7.8	4.4	79.1	Control	0
11	9.6	4.2	88.7	6.1	4.7	70.6	Control	0
12	9.9	3.7	71	7.4	4	62	Control	0
13 ^b	—	—	—	—	—	—	—	—
14 ^b	—	—	—	—	—	—	—	—
Mean	9.2 \pm 1.6	3.9 \pm 0.4	74.7 \pm 17.4	8.1 \pm 2.8	5.1 \pm 1.2	132.6 \pm 160.3		
Saccular model								
15	7.8	3.1	39.2	—	—	—	HPS	1
16	8.0	3.2	42.9	—	—	—	HPS	0
17	6.6	3.6	44.8	—	—	—	HPS	4
18	8.9	2.6	31.5	—	—	—	2xHPS	3
19	7.4	3.1	37.2	—	—	—	2xHPS	4
20	8.2	3.7	58.8	—	—	—	2xHPS	3
21	8.2	3.3	46.8	—	—	—	FD	4
22	9.5	3.4	57.5	—	—	—	FD	4
23	7.4	2.9	32.6	—	—	—	FD	4
24	8.4	4.0	70.4	—	—	—	FD	3
25	9.3	3.8	70.3	—	—	—	Control	0
26	6.8	3.4	41.2	—	—	—	Control	0
27	4.6	2.0	9.6	—	—	—	Control	0
28 ^b	—	—	—	—	—	—	—	—
Mean	7.8 \pm 1.3	3.2 \pm 0.5	44.8 \pm 16.7	—	—	—		

Note:—2xHPS indicates double HPSs.

^aRequired 2 telescoping FDs for treatment.

^bThe parent vessel was occluded on preimplantation angiography (no aneurysm visible).