

Supplementary Data Tables

The following tables correspond to figures that include box plots and show the median, mean, number of vessels measured, the standard deviations and standard error of the mean of each column.

Figure 1

(f)

	Vessel diameter			
	Clot (%baseline)		Control (%baseline)	
	Urethane	Isoflurane	Urethane	Isoflurane
Mean	97	95	103	98
Median	97	95	103	99
n	96	39	94	73
Std Dev	14	23	14	24
SEM	1	4	1	3

(g)

	RBC speed			
	Clot (%baseline)		Control (%baseline)	
	Urethane	Isoflurane	Urethane	Isoflurane
Mean	90	94	94	97
Median	92	94	93	101
n	103	38	93	73
Std Dev	28	36	41	60
SEM	3	6	4	7

(h)

	RBC Flow			
	Clot (%baseline)		Control (%baseline)	
	Urethane	Isoflurane	Urethane	Isoflurane
Mean	87	88	93	90
Median	86	87	99	102
n	96	38	92	73
Std Dev	40	65	38	181
SEM	4	11	4	21

Figure 2

(a)

	Diameter (%baseline)			
	Urethane			
branches	1-2	3-4	5-6	7+
Median	97	98	93	99
Mean	99	98	95	97
n	13	30	28	25
SD	15	12	16	13
SEM	4	2	3	3
	Isoflurane			
branches	1-2	3-4	5-6	7+
Median	94	92	94	98
Mean	97	96	94	97
n	9	11	10	9
SD	26	18	27	24
SEM	9	5	9	8

(b)

RBC speed (%baseline)				
Urethane				
branches	1-2	3-4	5-6	7+
Median	82	101	86	93
Mean	90	98	87	91
n	15	31	29	28
SD	38	26	27	28
SEM	10	5	5	5

Isoflurane				
branches	1-2	3-4	5-6	7+
Median	77	101	94.5	93
Mean	95	92	95	95
n	9	10	10	9
SD	41	32	42	31
SEM	14	10	13	10

(c)

RBC flow (%baseline)				
Urethane				
branches	1-2	3-4	5-6	7+
Median	79	87	85	86
Mean	77	99	85	85
n	13	30	28	25
SD	53	34	35	44
SEM	15	6	7	9

Isoflurane				
branches	1-2	3-4	5-6	7+
Median	108	74	88	91
Mean	89	83	84	97
n	9	10	10	9
SD	46	36	72	95
SEM	15	11	23	11

(g)

Diameter (%baseline)				
	Penetrating arteriole		Communicating arteriole	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	97	95	97	99
Mean	97	95	105	105
n	96	39	21	29
SD	14	23	22	23
SEM	8	4	5	3

(h)

RBC speed (%baseline)				
	Penetrating arteriole		Communicating arteriole	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	92	94	70	89
Mean	90	94	72	85
n	103	38	21	29
SD	28	52	71	52
SEM	3	10	16	10

(i)

	RBC flow (%baseline)			
	Penetrating arteriole		Communicating arteriole	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	86	87	83	91
Mean	87	88	65	95
n	96	38	21	29
SD	40	65	129	92
SEM	4	11	28	17

Figure 4

(a)

	RBC speed				
	Post - Clot (%baseline)				
	1-2	3-4	5-6	7-10	10+
branches					
Median	1	5	61	74	92
Mean	4	8	58	81	86
n	29	38	18	16	73
SD	11	35	71	68	72
SEM	2	6	17	17	8
	Control (%baseline)				
	1-2	3-4	5-6	7-10	10+
branches					
Median	98	81	80	63	104
Mean	102	88	86	114	98
n	18	16	11	4	21
SD	19	50	46	118	100
SEM	4	13	14	59	22

(b)

	Diameter				
	Post - clot (%baseline)				
	1-2	3-4	5-6	7-10	10+
branches					
Median	113	110	105	102	102
Mean	114	109	110	101	103
n	25	42	27	16	122
SD	16	16	14	10	16
SEM	3	2	3	2	1
	Control (%baseline)				
	1-2	3-4	5-6	7-10	10+
branches					
Median	100	102	101	98	100
Mean	102	101	102	99	101
n	25	21	19	7	65
SD	7	8	12	10	8
SEM	1	2	3	4	1

Figure 6

(a)

	Arterioles				Capillaries	
	Diameter (%baseline)		RBC flow (%baseline)		Diameter (%baseline)	
	clot	ACh	clot	ACh	clot	ACh
Median	97	102	86	117	105	108
Mean	97	106	87	122	106	107
n	96	72	96	72	233	175
SD	14	16	40	72	16	16
SEM	1	2	4	8	1	1

(b)

branches	Capillary diameter after clot (% of post clot diameter)				
	1-2	3-4	5-6	7-10	10+
Median	105	102	101	107	104
Mean	103	106	103	107	103
n	10	25	25	14	101
SD	13	12	14	8	13
SEM	4	2	3	2	1

(c)

branches	RBC speed (mm/s)					
	1-2			3-4		
	pre	clot	ACh	pre	clot	ACh
Median	1.5	0.0	0.0	0.4	0.0	0.1
Mean	1.6	0.1	0.1	0.6	0.1	0.2
n	29	29	14	40	38	25
SD	1.1	0.2	0.1	0.5	0.2	0.2
SEM	0.2	0.0	0.0	0.1	0.0	0.0
branches	5-6			7-10		
	pre	clot	ACh	pre	clot	ACh
Median	0.2	0.2	0.2	0.2	0.2	0.2
Mean	0.3	0.2	0.2	0.3	0.2	0.3
n	19	19	19	18	16	17
SD	0.3	0.1	0.1	0.2	0.2	0.3
SEM	0.1	0.0	0.0	0.0	0.1	0.1
branches	10+					
	pre	clot	ACh			
Median	0.5	0.4	0.5			
Mean	0.7	0.7	0.8			
n	73	73	62			
SD	0.8	0.9	0.9			
SEM	0.1	0.1	0.1			

Supplementary Figure 2

(a)

	Diameter			
	Amplified		Rose Bengal	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	97	95	91	99
Mean	97	95	93	99
n	96	39	15	10
SD	14	23	15	8
SEM	1	4	4	3

(b)

RBC speed				
Amplified			Rose Bengal	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	92	94	99	120
Mean	90	94	99	117
n	102	38	15	10
SD	29	36	41	28
SEM	3	6	10	9

(c)

RBC flow				
Amplified			Rose Bengal	
	Urethane	Isoflurane	Urethane	Isoflurane
Median	86	87	81	109
Mean	87	88	88	112
n	96	38	15	10
SD	40	65	42	19
SEM	4	11	11	6

Supplementary Figure 3

post-clot hematocrit (% baseline)				
1-4 branches			>4 branches	
	clot	control	clot	control
Median	104	93	94	96
Mean	99	93	97	103
n	18	14	50	28
SD	52	17	37	34
SEM	12	3	5	7

Supplementary Figure 6

RBC flux (number/s)						
branches	1-2			3-4		
	pre	clot	ACh	pre	clot	ACh
Median	95	3	1	48	3	6
Mean	88	5	11	49	8	12
n	23	22	8	29	28	17
SD	44	6	21	30	10	13
SEM	9	1	8	6	2	3
branches	5-6			7-10		
	pre	clot	ACh	pre	clot	ACh
Median	27	22	23	28	28	24
Mean	35	23	20	30	25	31
n	19	19	18	15	14	13
SD	29	17	12	13	17	22
SEM	7	4	3	3	5	6
branches	10+					
	pre	clot	ACh			
Median	48	41	55			
Mean	56	49	59			
n	72	71	57			
SD	34	39	36			
SEM	4	5	5			