

6A	MBP		SBP		DBP		HR	
	mmHg	mmHg	mmHg	mmHg	mmHg	mmHg	bpm	bpm
Group	WT	Δ 403-459	WT	Δ 403-459	WT	Δ 403-459	WT	Δ 403-459
	83.3	91.8	105.0	115.0	72.5	80.2	410	538
	82.9	90.0	102.7	112.4	73.1	78.8	569	570
	78.8	93.0	96.5	117.8	69.9	80.6	566	541
	75.9	86.9	96.5	112.9	65.5	73.8	536	485
	84.1	103.6	104.4	127.8	73.9	91.5	572	534
	76.8	91.9	97.6	118.4	66.5	78.7	497	440
	82.5	102.6	103.1	126.2	72.1	90.8	531	503
	79.8	85.4	98.9	110.8	70.2	72.7	568	492
	84.7	96.2	107.7	122.3	73.2	83.2	553	473
	80.6	86.0	101.7	111.6	70.1	73.3	437	397
	84.1	89.9	106.8	113.0	72.8	78.4	453	497
	85.3	97.5	104.7	126.6	75.7	83.0	578	417
	77.9	97.4	97.1	126.1	68.2	83.1	561	475
	79.7	92.5	98.5	119.5	70.3	79.0	577	451
	77.6	93.6	95.3	120.2	68.8	80.3	540	425
	81.9	98.5	104.7	123.3	70.5	86.1	395	561
	81.0	93.9	101.1	117.9	70.9	81.9	563	505
	80.5	99.1	99.6	126.9	70.9	85.1	537	463
N	18	18	18	18	18	18	18	18
mean	81.0	93.9	101.2	119.4	70.8	81.1	525	487
sem	0.7	1.3	0.9	1.4	0.6	1.3	15	12

6B	Aix		AP		PP		$\tau_{\text{bourgeois}}$	
	%	%	mmHg	mmHg	mmHg	mmHg	s^{-1}	s^{-1}
Group	WT	Δ 403-459	WT	Δ 403-459	WT	Δ 403-459	WT	Δ 403-459
	**	45	10.52	15.58	32.5	34.8	0.57	0.60
	35	38	9.79	12.68	29.6	33.6	0.63	0.57
	37	38	10.42	14.27	26.6	37.2	0.54	0.67
	33	41	9.43	15.99	31.0	39.1	0.59	0.64
	31	45	12.25	16.52	30.5	36.3	0.64	0.75
	39	50	12.74	19.97	31.1	39.7	0.56	0.69
	41	58	12.67	20.69	31.0	35.4	0.51	0.70
	44	50	14.18	19.12	28.7	38.2	0.72	0.67
	41	56	16.42	21.88	34.5	39.1	0.63	0.59
	52	57	17.68	21.85	31.6	38.3	0.55	0.62
	52	53	14.21	18.43	34.0	34.7	0.58	0.71
	49	56	10.86	24.31	29.0	43.6	0.65	0.61
	37	55	12.04	23.77	28.9	43.0	0.56	0.64
	42	50	12.00	20.65	28.2	40.9	0.62	0.67
	45	60	20.03	23.81	26.4	39.9		
	58	47	12.07	17.52	34.3	37.2		
	40	52	14.19	18.68	30.2	36.0		
	49	54	***	22.56	28.8	41.8		
N	17	18	17	18	18	18	14	14

mean	42.6	50.3	13.0	19.3	30.4	38.3	0.59	0.65
sem	1.8	1.6	0.7	0.8	0.6	0.7	0.02	0.02

6C

Phenylephrine dose-response curve (MAP response to each dose increme

Group	WT	WT	WT	WT	WT
Dose $\mu\text{g}/\text{kg}$ BW					
0.001	***	***	105	101	108
0.01	122	108	105	101	108
0.1	122	106	105	101	107
0.316	123	109	103	101	108
1	123	110	107	104	110
3.16	129	113	112	110	117
10	139	122	122	124	124
31.6	148	131	138	134	136
100	166	151	157	155	149
316	167	156	158	166	159
400	162	156	***	158	***

Group	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$
Dose $\mu\text{g}/\text{kg}$ BW					
0.001	***	***	123	119	129
0.01	115	122	122	118	128
0.1	118	123	122	117	125
0.316	118	121	122	124	125
1	120	123	123	125	130
3.16	124	129	130	130	140
10	133	137	136	138	146
31.6	144	146	146	152	153
100	152	156	168	163	166
316	165	170	170	175	179
400	161	171	***	178	182

Averages

Group	WT	WT	WT	$\Delta 403-459$	$\Delta 403-459$
Dose $\mu\text{g}/\text{kg}$ BW	N	mean	sem	N	mean
0.001	13	106	1.1	13	124
0.01	15	107	1.4	15	122
0.1	15	107	1.5	15	122
0.316	15	106	1.7	15	122
1	15	108	1.6	15	125
3.16	15	113	2.0	15	131
10	15	122	1.9	15	140
31.6	15	135	1.8	15	153
100	15	151	1.7	15	165
316	15	160	1.5	15	175
400	6	160	1.7	7	174

nt)

WT	WT	WT	WT	WT	WT	WT	WT
105	103	105	114	109	107	108	102
107	105	105	112	108	106	105	101
105	105	107	112	111	105	106	99
105	105	107	113	110	105	106	97
110	110	108	116	111	105	107	97
114	115	109	124	114	109	110	99
122	126	121	135	122	119	119	111
139	139	130	150	135	131	133	126
154	152	146	161	150	147	146	149
158	167	160	172	157	154	152	161
***	159	160	167	***	***	***	***

Δ403-459 Δ403-459 Δ403-459 Δ403-459 Δ403-459 Δ403-459 Δ403-459 Δ403-459

130	124	118	128	116	121	131	118
129	123	119	125	117	121	126	117
129	125	118	126	116	119	123	117
131	124	119	126	116	120	129	117
133	122	125	127	118	121	135	118
141	133	128	134	124	128	143	123
156	139	139	145	135	140	156	132
167	157	147	160	153	151	171	145
176	165	162	174	170	166	182	163
188	171	174	180	184	171	190	170
184	***	172	***	***	171	***	***

Δ403-459

sem

1.5
1.1
1.1
1.1
1.3
1.6
2.0
2.2
2.2
2.0
3.3

Angiotensin-II (AngII) dose-response curve (SBP response

WT	WT	Group	WT	WT	WT	WT
		Dose µg/kg BW				
101	108	0.0001	121.3	109.7	106.3	95.72
101	108	0.001	121.6	109	103.2	92.9
101	105	0.01	121.6	109.1	102.5	91.94
98	104	0.0316	121.8	110.1	101.5	89.43
100	106	0.1	129	117.8	104.7	99.74
102	111	0.316	129.7	119.4	113.5	110.1
111	121	1	141.7	131.4	122.2	123.3
128	131	3.16	142.1	135.2	130.9	132.4
145	143	10	147	136.3	129.6	137.9
159	153					
***	***					

Δ403-459	Δ403-459	Dose µg/kg BW	Δ403-459	Δ403-459	Δ403-459	Δ403-459
		0.0001	108.6	117.5	119.4	122.8
		0.001	114.5	118	118.3	120.5
128	127	0.01	111.7	119.9	121.2	119.2
127	123	0.0316	118.2	119.5	119.5	121.5
125	123	0.1	125.6	125.1	127.8	124.3
122	121	0.316	123.9	129.4	135.1	131.4
125	123	1	133.6	144.4	143.8	135.1
132	126	3.16	138.6	151	148.6	141.9
138	135	10	147.1	155.6	150.2	143.4
152	146					
163	155					
173	170					
***	***					

Averages

Group	WT	WT	WT	Δ403-459
Dose µg/kg BW	N	mean	sem	N
0.0001	15	106	2.2	15
0.001	15	104	2.3	15
0.01	15	103	2.5	15
0.0316	15	103	3.0	15
0.1	15	107	2.9	15
0.316	15	113	3.0	15
1	15	122	2.6	15
3.16	15	130	2.3	15
10	13	135	2.0	14

to each dose increment)

WT	WT	WT	WT	WT	WT	WT	WT	WT
112.4	109.9	104.6	107.9	116.2	112.1	108	94.26	96.9
109.8	109	102.2	106.6	112.2	108.2	103.7	92.94	91.88
110	108.2	100.3	107.3	113.8	104.2	100.6	92.39	87.39
109.2	107.1	99.12	105	123.1	108.6	99.23	93.02	86.71
113.2	112.8	103.1	104.5	122.7	110.8	103.9	97.3	92.03
120.3	120.2	106.9	108.5	137.9	118.2	110.6	105.4	97.67
127.2	127.2	119.3	115.7	139	121.2	117	117.7	108.2
134.6	130.9	134.8	127.1	149.9	131.3	124.4	120.9	118
140.1	136.3	148.4			132.5	129.9	134.6	125.4

$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$	$\Delta 403-459$
128.7	135.1	125.5	123.8	130.5	111.1	123.1	135.4	121
121.3	130.2	125.4	119	128.6	112.4	118.2	132.8	119
120.9	129	122.7	118	127.8	112.4	117.3	131	117.7
121.9	128.9	129.8	118.4	130.2	113.4	116	130.7	116.7
132	137.2	129.1	124.4	134.2	122.3	124.8	134.6	121.3
140	145.5	140.4	130.3	138.6	128.4	129.8	137.4	124
150.2	145.5	142.3	140.2	143.5	140.4	140.4	145	130.9
153.2	153.7	153.6	146.3	148	146.1	147.1	149.8	137.1
165.1	159.1		152.9	151.3	150.8	151.2	151.5	142.4

$\Delta 403-459$ $\Delta 403-459$

mean	sem
123	2.1
121	1.6
121	1.5
121	1.6
129	1.4
134	1.7
141	1.4
147	1.3
152	1.6

WT **WT**

93.75	101.9
91.52	101.5
91.2	100.4
87.39	98.06
92.12	100.5
98.06	104.7
108.9	113.3
118.9	124.2
129.4	133.1

Δ403-459 **Δ403-459**

115.5	121.3
115	120.8
121	128.7
113.2	119.8
129.5	137
130.9	137.8
140.4	145.6
146.4	148.3
152.6	154.4