

SHAM RSNA Time Course (Fig. 1C)

Control													PcTx-1													
TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	Rat #12	TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	Rat #12	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	19	-1	-10	9	-11	13	11	-7	8	-5	0	4	1	42	7	-11	0	2	4	6	-9	3	-3	-11	-24	
2	144	4	-13	-16	-5	64	12	-17	5	-2	20	18	2	24	-4	2	8	-20	67	-1	-47	2	-6	4	-10	
3	207	-4	11	4	6	92	5	-29	1	2	11	54	3	172	-4	-10	5	18	72	-2	-46	5	-10	5	18	
4	190	-5	47	85	114	64	11	-21	8	50	9	-24	4	241	-12	-56	4	83	73	-9	-32	6	-23	-12	8	
5	200	2	-9	115	169	-12	8	-29	10	74	25	2	5	270	-5	-51	66	90	42	6	-44	15	-21	-1	-35	
6	173	2	2	121	133	8	11	-32	19	58	27	9	6	151	-2	-32	83	-81	-68	-2	-31	6	-21	9	-2	
7	68	7	-38	142	67	-35	5	0	5	-29	22	2	7	91	-4	-15	109	6	-45	-3	-20	13	-22	0	78	
8	76	-6	-16	-75	38	5	2	-18	5	16	17	4	8	9	2	-18	-5	5	-13	-1	-3	-2	-9	-14	-29	
9	8	6	-18	-53	19	-6	9	10	7	8	22	1	9	37	-9	-7	10	-1	-40	-15	6	4	1	-2	-18	
10	-45	-4	-4	-25	12	-13	16	-8	4	5	19	7	10	27	5	-8	21	7	-12	4	6	14	-1	-11	6	
11	-43	-1	-7	-19	-43	-10	14	8	1	-19	23	6	11	-40	-6	-6	3	-18	-28	-10	9	12	1	-24	-1	
12	-48	0	-13	-18	-26	-8	20	5	2	-12	8	0	12	-45	4	-17	-2	0	2	0	17	3	-5	-8	35	
13	-36	-6	-3	-34	-6	-12	11	3	2	-3	9	3	13	-11	-6	0	-12	-20	-19	4	-3	2	3	-5	26	
14	-30	-6	-3	-25	-27	-20	28	-3	2	-12	4	8	14	-34	0	-3	-14	-7	-6	0	4	3	2	11	27	
15	-19	4	2	-18	-18	-1	25	2	-3	-8	10	4	15	-25	-2	-6	-22	23	-17	-2	10	7	3	-9	5	
16	-37	-1	-11	-29	-19	-3	14	13	-1	-8	15	10	16	-29	4	-8	-20	18	-7	-11	-1	3	-2	-3	9	
17	-17	-3	3	-27	-13	-2	17	-6	9	-6	12	6	17	-28	-3	-6	3	-25	-23	-14	-10	14	11	8	-3	-5
18	-29	3	-6	-27	21	-6	16	4	-9	9	8	5	18	3	-5	6	-14	-13	-6	12	9	1	-2	6	17	
19	18	4	-2	-23	-38	-2	22	-1	2	-17	7	4	19	-48	0	-1	6	-17	-17	-20	-6	-8	0	-3	-21	33
20	-14	4	-1	-30	15	0	13	-6	-3	7	10	5	20	-24	-10	-7	-28	-6	-10	-11	-6	-1	2	-1	-1	26
21	7	-1	-6	-18	-12	-4	13	-1	9	-5	7	4	21	11	-4	-1	3	-25	-14	-6	-22	0	-1	-7	9	25
22	0	3	2	-32	-6	-1	25	11	0	-3	11	5	22	-51	-9	-7	-29	-30	-7	-17	3	3	-3	-11	21	
23	18	-4	-7	-29	1	3	10	1	-6	1	11	9	23	0	-1	6	-12	-19	-9	-15	2	13	6	-19	50	
24	-23	-2	-10	-17	6	0	19	23	-3	3	17	7	24	-8	-5	-2	-44	-16	-18	-14	22	7	-8	-1	10	
25	30	-1	-1	-11	-19	-2	11	1	3	-8	4	6	25	-44	-2	-5	-16	-22	-3	-18	-9	-3	-2	5	46	
26	17	-3	-4	-43	-9	-14	16	-1	0	-4	3	3	26	6	-2	-8	-48	-4	-7	-12	8	-8	2	-10	55	
27	27	1	-15	-16	-1	-1	15	-6	7	0	8	11	27	12	2	-6	-9	-21	-20	-31	-2	3	1	-3	38	
28	21	3	0	-30	-2	-3	14	3	-1	-1	1	7	28	3	-2	-8	-9	-1	-14	-12	2	7	-12	11	54	
29	32	4	-7	-16	-3	-6	12	-6	5	-1	2	11	29	0	-2	-7	-56	-16	-2	-16	13	5	-4	-12	20	
30	59	4	-7	-16	-3	-6	12	-6	5	-1	2	11	30	0	-2	-7	-56	-16	-2	-16	13	5	-4	-12	20	

		HF-rEF RSNA Time Course (Fig. 1D)																					
		Control										PcTx-1											
TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	15	-16	-2	6	13	16	2	-16	6	-1	1	1	12	4	2	3	-6	-4	0	-2	-14	-22	-14
2	27	7	-33	47	18	56	27	-8	-18	-12	115	2	-2	-19	-2	0	29	17	2	1	-42	27	33
3	110	27	-47	81	36	109	54	41	26	70	190	3	74	2	-47	68	21	76	16	3	-34	57	108
4	153	34	-1	107	97	32	62	75	23	124	160	4	106	22	-38	77	46	51	52	4	-38	35	80
5	131	51	16	126	58	-8	22	58	42	-26	-104	5	88	16	-18	82	-4	28	2	-14	-4	-9	-94
6	37	36	38	151	-4	-12	0	-40	5	-86	-111	6	-36	8	-10	89	-36	-21	-9	-18	3	-21	-73
7	-42	1	44	110	-64	-6	-28	-18	-52	-65	-50	7	-49	-7	16	117	-23	-14	-4	-1	2	-12	-4
8	-39	-6	17	107	24	-10	-5	-9	-2	-38	-46	8	-4	-7	13	105	0	-12	-9	-8	12	-13	2
9	-12	0	-13	87	-17	-10	-5	-21	-6	-20	-31	9	25	-1	3	95	-18	-23	-4	-4	3	-32	-23
10	-27	-18	-2	65	-16	28	8	-19	1	-24	-23	10	-13	-2	-3	76	9	-12	-4	-6	3	-19	-9
11	-18	-5	-14	47	9	34	-16	-9	2	-22	-32	11	1	-10	7	78	-13	27	-15	-4	-2	-24	-13
12	-39	-3	-18	54	-12	0	-19	-19	-19	-16	-18	12	-24	-12	-5	63	-8	9	-24	1	-1	-25	-16
13	-18	-18	-16	23	-31	-8	-17	-15	-27	7	-40	13	-18	-8	1	60	-8	-12	-20	0	-11	-10	-20
14	-20	-12	-12	43	-5	-6	-18	-10	-18	-34	-14	14	-17	-10	-15	53	-11	-13	-4	-8	6	-11	0
15	-28	-5	-25	31	5	-18	-9	-26	-30	15	-8	15	-6	-12	-8	36	6	-14	-5	-4	-4	-14	2
16	-9	-15	-8	34	-13	-11	-9	-3	-22	19	-1	16	-14	0	-14	36	-14	-21	-10	-1	-5	-12	6
17	-6	-17	-14	28	-12	55	-9	-10	-19	18	-13	17	-2	-9	-15	46	-8	-8	-30	-9	3	-2	-5
18	1	-9	-13	9	18	53	-3	-13	-22	-17	-11	18	0	-7	3	25	-6	37	-11	-4	-19	2	0
19	29	-15	-7	20	-9	23	-3	-10	-24	9	-14	19	-13	0	-6	12	2	32	-6	1	0	-18	-3
20	8	-16	-3	23	-12	1	4	-12	-13	7	-9	20	-2	6	7	12	-23	-7	-5	-9	5	-1	10
21	-6	-1	-14	7	20	-8	-10	-7	-21	20	2	21	-12	-4	-7	13	-13	-5	-7	-2	-4	-12	12
22	-8	-13	-11	6	-15	-1	0	1	-19	-23	-3	22	3	5	6	17	-7	-14	-13	-5	-13	-2	-10
23	-1	-16	-6	-6	-6	-11	0	-8	-11	2	0	23	0	1	8	5	-6	-20	5	6	38	-12	-3
24	-7	-5	-5	4	12	4	-9	-6	-11	19	-14	24	-10	2	8	19	8	6	-6	-2	-3	-8	-1
25	-1	-7	-5	-3	-16	-11	-7	-3	-9	15	-2	25	0	11	5	-12	3	-8	-7	-7	41	-5	-7
26	-13	-17	-8	-23	-9	-1	-2	-8	-19	-5	-10	26	-13	18	7	26	-22	8	-12	3	33	-3	6
27	-12	2	-14	-9	27	-2	1	-4	-12	8	28	27	-6	7	3	-11	0	0	-10	7	29	5	-11
28	27	-7	-8	0	-11	-12	4	-3	-2	14	6	28	2	13	5	23	-10	-4	-3	-7	33	-11	-9
29	26	-7	-3	7	-22	0	-1	-9	-7	13	-45	29	-11	15	-2	-12	2	7	-8	11	51	-5	2
30	-8	9	-14	7	-22	0	-1	-9	-7	13	-45	30	-2	7	8	-12	2	7	-8	11	51	-5	2

SHAM MAP Time Course (Fig. 1E)																									
Control														PcTx-1											
TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	Rat #12	TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	Rat #12
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	4	3	-3	-3	3	1	0	1	-3	-1	0	1	2	4	-1	-1	-2	2	-2	-1	3	5	-2	-1
2	6	4	5	-1	-2	9	2	2	1	-2	0	-1	2	5	4	1	-1	-2	3	5	1	4	6	-2	1
3	12	5	5	0	0	16	1	1	2	0	2	6	3	9	6	2	-1	0	15	5	0	4	7	-2	-1
4	20	5	2	3	4	23	2	0	3	4	5	22	4	24	6	3	0	3	26	0	-6	5	6	-1	-4
5	27	3	5	6	7	29	3	-7	5	7	5	23	5	37	2	0	0	6	37	1	-11	5	3	-1	-3
6	32	3	10	12	15	33	3	-9	6	15	3	16	6	47	1	-4	2	7	48	5	-13	4	-4	-1	-4
7	33	2	10	16	23	35	2	-12	6	23	4	15	7	49	0	-7	4	4	49	3	-15	3	-7	0	-3
8	33	2	9	22	25	28	3	-12	3	25	5	15	8	47	-1	-7	9	5	33	1	-16	4	-10	2	-2
9	32	5	9	22	22	16	3	-8	3	22	7	17	9	36	1	-6	7	12	22	2	-16	4	-9	2	-3
10	32	5	9	15	25	13	3	-7	3	25	8	19	10	28	3	-4	10	16	15	2	-14	4	-5	3	-1
11	29	7	11	15	30	13	4	-3	4	30	11	22	11	30	5	-2	8	20	3	1	-11	4	-3	0	2
12	27	9	12	14	31	10	6	-1	5	31	12	23	12	29	7	-1	10	21	0	-1	-7	4	0	-1	4
13	26	10	12	16	32	11	6	3	6	32	10	20	13	28	8	0	11	23	0	4	-3	2	3	-3	6
14	23	11	15	14	32	9	6	4	5	32	10	17	14	24	9	1	14	20	2	1	3	7	-2	5	
15	21	11	14	12	30	6	5	7	3	30	10	12	15	18	9	3	13	18	3	1	3	2	7	0	4
16	18	10	14	10	27	6	5	6	5	27	10	7	16	14	7	4	13	16	4	-1	5	1	8	2	4
17	16	17	12	7	23	5	6	6	4	23	10	3	17	9	7	5	8	18	3	-2	6	2	7	3	4
18	14	15	11	4	22	7	5	7	5	22	10	4	18	7	5	5	6	15	2	-3	8	2	8	4	1
19	11	7	8	2	23	5	5	5	5	23	10	4	19	4	5	4	2	12	2	-2	10	2	9	3	-1
20	9	6	6	2	20	3	4	6	5	20	10	3	20	2	2	4	1	8	1	-4	9	3	8	4	-3
21	9	5	4	-2	19	5	3	6	3	19	7	2	21	0	2	4	-1	6	0	-2	9	2	8	5	-5
22	9	6	4	-3	18	5	0	6	3	18	7	4	22	0	0	2	-3	2	-2	0	7	2	6	4	-4
23	9	3	2	-3	16	4	0	6	3	16	7	6	23	-1	-1	1	-3	2	-1	-2	8	2	7	4	-4
24	10	4	1	-3	15	3	2	7	3	15	8	5	24	0	-2	1	-3	1	-1	-3	7	2	6	4	-7
25	10	3	0	-4	14	6	1	7	3	14	8	5	25	0	-2	0	-4	1	-4	-3	8	2	6	3	-7
26	11	2	-1	-5	13	6	3	5	4	13	7	4	26	0	-3	-1	-5	0	-2	-4	7	2	6	2	-6
27	12	2	0	-5	12	3	2	7	5	12	5	6	27	0	-3	-2	-5	0	-4	-2	4	2	5	2	-4
28	13	3	0	-4	12	1	2	5	2	12	3	7	28	1	-3	-2	-6	0	-3	2	3	3	4	0	-5
29	14	3	2	-4	12	1	1	6	4	12	2	5	29	2	-3	-2	-5	1	-3	-1	2	3	3	-1	-5
30	14	2	2	-4	11	1	1	7	3	11	2	5	30	3	-3	-2	-5	0	-3	-2	2	3	4	-1	-2

Control												HF-rEF MAP Time Course (Fig. 1F)												
TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #9	Rat #10	Rat #11	TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	PcTx-1					Rat #10	Rat #11
																		Rat #6	Rat #7	Rat #8	Rat #9			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	-1	1	0	3	-1	4	2	1	8	5	1	-3	-1	0	-2	2	1	1	3	2	3	3	
2	0	0	3	1	6	0	4	4	3	8	6	2	3	-3	1	2	4	3	-1	3	3	3	3	
3	0	2	-1	2	17	3	5	4	4	13	27	3	6	-1	2	4	11	7	-2	2	0	3	2	
4	0	5	-11	3	24	12	3	5	7	37	64	4	6	0	-5	7	17	16	-1	2	-5	6	30	
5	3	12	-16	4	35	14	5	14	0	52	75	5	10	4	-20	9	27	16	-2	2	-10	8	42	
6	14	18	-5	5	38	10	7	17	-6	52	52	6	14	11	-24	11	27	15	-3	0	-12	8	27	
7	15	22	4	6	36	7	6	19	-11	41	19	7	11	11	-20	13	22	10	-4	-1	-10	7	4	
8	9	22	17	7	24	7	5	17	-13	20	1	8	4	10	-14	15	1	8	-2	-1	-8	7	2	
9	4	21	18	7	6	8	7	13	-11	16	-3	9	3	8	1	16	-14	8	1	1	-5	10	0	
10	6	19	11	7	5	9	10	10	-7	13	-2	10	4	8	3	16	-15	9	8	4	-2	11	0	
11	10	17	9	7	1	15	13	8	1	18	0	11	5	6	5	16	-15	9	10	4	1	12	3	
12	11	15	9	7	6	16	16	7	6	20	2	12	8	5	8	15	-6	13	10	4	4	10	7	
13	12	11	8	7	12	15	17	8	7	22	2	13	9	4	7	15	-10	14	10	5	4	6	7	
14	12	11	8	8	12	12	17	8	6	23	1	14	8	2	9	15	-2	12	9	3	3	6	6	
15	10	11	10	7	1	8	16	7	6	18	-1	15	9	1	9	15	-2	7	7	3	2	4	6	
16	8	9	2	7	6	6	13	6	4	22	-2	16	7	0	9	14	1	6	7	2	2	1	5	
17	5	7	2	7	7	4	11	4	3	25	-2	17	4	-1	8	13	1	4	5	0	1	-2	1	
18	5	4	2	7	-2	9	10	4	3	29	-3	18	2	-1	2	12	-6	2	3	1	0	-1	1	
19	5	1	3	7	0	13	9	3	1	25	-4	19	1	-2	1	11	-5	7	0	-1	-1	-1	-3	
20	7	0	2	6	0	12	8	1	0	29	-5	20	0	-3	1	11	-8	9	0	-1	-2	-1	-4	
21	8	-1	2	6	-3	10	5	0	-4	28	-5	21	0	-3	0	10	-8	10	0	-3	-2	0	-2	
22	6	-2	0	6	-9	7	4	-1	-6	31	-4	22	0	-2	-2	9	-9	6	-1	-3	-2	-1	-2	
23	7	-3	-3	5	-4	4	3	-2	-8	31	-3	23	1	-2	-6	8	-8	4	-3	-3	-3	-1	-1	
24	8	-3	-1	5	-5	3	3	-3	-9	31	-3	24	3	-2	-5	7	-11	0	-2	-3	-1	-1	-3	
25	7	-4	0	5	-4	3	3	-3	-9	32	-4	25	3	-1	-7	7	-9	0	-2	-4	1	0	-2	
26	8	-4	0	4	0	3	3	-3	-10	35	-4	26	4	1	-7	6	-3	-1	-2	-4	4	-1	-4	
27	7	-4	1	4	-4	3	2	-4	-10	31	-2	27	4	4	-10	5	-3	-1	0	-4	6	0	-2	
28	8	-4	-1	4	-5	4	2	-4	-11	33	-1	28	4	7	-11	5	-6	-2	-1	-4	7	-1	1	
29	10	-4	-2	4	4	4	3	-3	-10	37	1	29	4	8	-8	5	-8	-2	-1	-3	7	-2	3	
30	13	-2	-2	4	4	5	3	-2	-9	39	-1	30	3	10	-7	5	-10	-2	-1	-2	8	-2	4	

SHAM RSNA Time Course (Fig. 2A)

TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	121	155	177	37	-2	84	50	149	170	143	34	-12	101	31
2	78	189	181	33	24	90	26	100	244	72	20	12	73	29
3	85	133	246	7	29	73	28	103	244	29	14	5	88	27
4	73	195	98	15	27	79	52	79	218	29	18	9	72	30
5	105	154	-115	22	30	65	38	81	189	-16	16	8	73	33
6	82	110	-8	9	30	45	35	96	202	38	20	3	81	27
7	89	88	21	9	35	66	30	88	187	17	4	4	78	29
8	59	87	36	30	38	44	35	91	164	-1	21	10	78	23
9	55	94	-84	28	28	24	37	80	161	38	4	2	56	20
10	68	86	50	12	32	47	42	89	144	37	7	7	83	21
11	52	94	-61	27	41	31	41	66	130	8	13	6	40	14
12	77	79	43	15	20	28	26	60	131	-8	13	13	56	10
13	81	73	-28	18	29	24	25	74	134	21	7	11	52	11
14	48	78	49	31	29	24	33	74	94	26	12	17	44	16
15	69	60	-16	17	28	18	31	61	77	26	17	6	64	19
16	42	77	11	28	26	23	34	74	82	-11	4	10	37	6
17	58	60	8	28	19	0	27	62	68	6	7	1	47	9
18	62	52	-38	6	30	28	35	63	62	13	13	10	34	8
19	45	73	13	19	22	15	35	60	63	-7	4	10	45	-1
20	23	56	24	16	22	0	10	72	59	-6	16	20	46	7
21	36	52	35	21	28	21	20	88	41	17	15	8	31	12
22	37	53	1	28	17	9	9	33	30	-3	24	12	40	15
23	28	54	31	15	27	26	17	26	30	-11	6	18	50	13
24	39	50	-13	26	21	8	22	39	4	20	11	11	43	9
25	1	55	32	25	23	20	14	35	5	-4	4	14	44	7
26	8	44	15	22	29	21	8	26	-23	26	9	9	35	6
27	4	57	31	28	22	6	1	31	-19	47	19	15	37	8
28	10	42	48	29	18	24	12	31	-29	8	27	5	36	15
29	-8	54	30	18	23	20	12	26	24	15	12	8	33	16
30	4	55	79	13	30	-2	16	26	24	15	12	8	33	16

TIME (s)	Control								ASIC1a Blockade							
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	77	263	91	62	100	108	204	198	59	41	62	27	141	38	93	162
2	49	156	43	24	69	129	210	61	64	-5	23	-2	100	55	72	75
3	39	165	62	10	48	140	220	91	32	48	47	1	78	56	81	11
4	46	128	89	23	52	123	175	112	37	106	32	8	73	68	64	39
5	24	130	103	28	30	117	128	86	30	98	49	12	53	36	36	8
6	32	181	80	60	13	91	104	71	30	83	54	7	66	67	54	8
7	28	162	84	35	50	75	121	42	17	53	31	-7	82	40	35	18
8	24	148	86	49	21	76	122	25	26	36	40	4	69	34	26	13
9	11	122	40	11	43	61	87	14	14	92	41	4	68	31	24	22
10	18	65	68	-7	22	73	25	51	33	-22	36	6	64	37	19	-8
11	18	30	73	-2	27	60	81	25	21	36	29	-6	46	29	17	16
12	13	-4	38	5	18	67	65	15	3	16	42	10	54	40	17	7
13	15	-25	8	12	21	57	-6	26	-6	40	33	7	59	30	10	4
14	26	-79	60	1	27	62	48	30	-4	-9	46	9	64	32	2	23
15	23	-5	66	-18	48	63	-15	22	-3	49	24	-3	55	18	8	17
16	29	-59	36	-16	28	56	-26	30	-1	3	27	-4	79	36	1	7
17	18	-50	78	-14	31	47	-1	20	-1	7	43	-7	60	21	30	22
18	19	-58	53	-7	28	36	-2	29	3	15	25	11	58	9	6	13
19	16	-39	19	-23	35	41	-25	41	-11	19	19	2	68	16	8	14
20	19	55	50	-22	29	32	-31	18	-10	-11	32	1	73	18	31	18
21	23	6	63	-21	34	34	-1	45	1	24	33	-11	79	24	15	20
22	19	37	58	-5	37	28	-33	32	-5	-8	27	25	64	27	3	-11
23	14	42	84	-17	30	15	-18	15	-7	-11	28	-13	84	22	0	22
24	20	16	44	-19	32	32	-39	32	-6	0	10	6	58	19	0	33
25	12	55	68	-20	56	23	-65	42	-10	-26	20	1	81	11	1	18
26	15	15	57	-15	18	24	-30	48	-5	6	22	-4	54	22	-2	12
27	12	58	36	-21	40	38	-15	38	-2	-36	-6	-5	71	25	-2	4
28	11	54	53	-26	60	28	-3	48	-12	-44	19	5	75	9	13	9
29	17	59	45	-24	57	39	-32	40	-19	6	36	-11	47	11	-7	20
30	1	58	40	-20	57	39	-32	40	1	-15	12	1	47	11	-7	20

SHAM MAP Time Course (Fig. 2C)															
TIME (s)	Control							ASIC1a Blockade							
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	2	1	9	3	0	5	-1	5	-1	5	7	9	0	-1	
2	14	-2	13	-1	11	4	0	5	3	8	-2	5	0	-5	
3	19	-2	28	26	3	7	-6	11	3	16	8	-3	1	-1	
4	27	-1	46	31	3	7	-1	18	3	20	19	-3	4	1	
5	27	-2	49	31	5	10	4	27	3	23	22	-3	6	1	
6	31	-2	47	32	6	12	6	30	3	24	24	-2	9	5	
7	32	2	31	35	9	13	11	28	2	26	28	-3	10	8	
8	38	5	32	35	9	17	13	34	5	25	28	-2	14	11	
9	40	9	45	34	10	21	15	36	4	23	26	-3	16	14	
10	34	10	34	29	10	21	16	36	1	26	25	-1	17	14	
11	36	12	37	19	12	22	18	35	3	28	19	0	19	14	
12	35	14	31	15	12	23	19	35	3	28	22	0	20	14	
13	38	13	31	10	12	21	20	32	0	20	19	1	18	13	
14	40	15	25	8	10	22	18	31	0	21	20	1	16	13	
15	41	19	33	0	9	21	17	31	3	23	18	0	16	11	
16	41	19	32	4	7	20	18	31	0	22	16	-1	16	7	
17	41	19	34	1	6	20	17	31	2	22	18	-3	16	7	
18	43	19	36	-1	5	18	16	31	2	21	18	-3	13	6	
19	43	18	32	9	4	18	15	33	0	23	13	-2	12	6	
20	43	18	31	6	3	19	14	32	1	23	16	-2	12	5	
21	41	16	34	3	4	17	14	31	3	19	11	-1	12	5	
22	41	17	39	4	5	17	12	29	-1	20	14	0	9	6	
23	40	17	34	7	5	17	12	29	0	19	16	2	9	6	
24	40	17	34	7	5	16	12	26	2	17	18	2	9	6	
25	37	17	32	3	5	16	13	28	2	17	14	2	10	7	
26	33	17	34	5	5	15	11	27	2	18	15	3	10	6	
27	33	17	35	7	4	16	12	27	1	18	13	4	10	3	
28	31	14	37	6	5	15	11	26	-2	19	13	3	9	4	
29	30	13	37	9	4	16	10	26	-5	22	13	4	9	5	
30	27	15	36	12	5	15	9	25	5	22	12	4	10	6	

HF-rEF MAP Time Course (Fig. 2D)

TIME (s)	Control								ASIC1a Blockade							
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8
0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
1	11	19	2	3	3	6	8	5	-5	-3	4	11	9	3	3	3
2	16	22	1	5	12	12	-3	7	11	8	4	13	10	11	-5	5
3	12	11	-1	11	12	19	-3	3	12	7	-1	7	12	16	-5	-3
4	10	22	4	13	10	26	5	5	12	16	7	0	13	21	5	0
5	11	29	9	16	11	33	11	21	16	24	13	3	13	27	8	1
6	13	34	16	14	13	37	13	27	16	31	19	3	14	27	7	7
7	22	37	21	16	12	39	14	30	17	33	22	4	14	31	7	12
8	21	39	25	16	13	42	14	32	17	35	24	4	14	31	9	15
9	17	39	29	19	12	43	17	32	14	35	28	5	15	27	11	9
10	15	39	34	18	12	46	17	29	16	41	31	6	15	26	11	16
11	10	37	40	18	12	45	18	26	21	37	32	7	14	29	9	17
12	9	38	41	16	12	44	19	25	18	35	33	7	15	35	9	15
13	10	36	40	16	11	41	20	21	10	36	31	9	14	33	8	12
14	9	34	38	13	11	41	15	19	4	30	29	9	13	29	8	7
15	8	34	37	14	10	46	14	18	3	30	29	9	13	28	6	3
16	8	30	36	9	10	44	16	17	4	20	28	6	12	27	5	7
17	12	28	36	7	9	44	14	14	5	20	27	7	11	27	4	2
18	14	32	36	8	8	38	14	13	8	22	26	6	10	27	5	2
19	12	30	34	9	8	40	16	13	8	11	25	6	10	27	6	3
20	9	31	30	9	8	41	14	12	6	21	26	5	9	23	5	11
21	7	30	27	8	8	41	12	10	0	21	25	3	9	25	8	8
22	9	30	27	8	8	39	12	9	0	14	26	6	9	25	8	11
23	8	29	28	8	8	43	13	9	1	20	27	4	8	26	8	8
24	5	28	28	8	8	39	12	9	5	22	27	4	8	28	7	5
25	5	29	28	6	8	37	12	9	5	23	27	3	8	29	6	0
26	4	30	28	7	8	31	10	9	5	23	28	2	9	27	7	3
27	4	30	27	7	8	31	9	10	3	17	26	3	9	26	7	8
28	4	27	26	7	7	33	10	12	3	27	26	3	8	22	6	8
29	3	25	26	5	8	35	10	14	-1	20	24	1	10	22	6	3
30	3	26	24	4	8	36	11	15	-1	15	23	1	9	22	6	4



SHAM HR Time Course (Fig. 2E)

TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	-1	3	14	2	-3	-3	1	1	-4	14	0	5	-7	2
2	5	9	45	3	2	8	5	9	-5	30	4	11	6	6
3	16	17	59	5	14	18	5	15	-4	37	6	9	8	5
4	17	23	60	7	9	25	5	20	3	38	6	9	4	5
5	18	23	60	7	6	34	5	23	0	37	5	3	12	5
6	19	3	60	7	0	44	6	29	5	36	6	-2	20	5
7	24	9	58	8	12	47	5	31	8	39	7	11	17	7
8	25	19	53	8	12	42	7	33	0	32	7	11	14	7
9	26	19	46	8	-6	45	7	36	-1	30	6	1	17	5
10	27	23	40	9	-2	42	7	39	5	26	6	8	17	5
11	28	28	41	8	11	46	9	37	5	26	6	12	7	7
12	30	28	41	9	4	40	10	36	4	25	6	12	16	8
13	33	27	46	9	5	40	11	34	4	27	6	2	15	8
14	31	30	38	9	5	46	11	33	3	29	5	6	12	8
15	32	32	35	8	0	39	11	33	7	28	7	2	12	7
16	30	32	36	9	8	25	11	33	7	33	7	3	11	7
17	35	35	36	6	2	37	11	32	1	33	7	1	8	9
18	33	35	31	9	2	27	12	37	8	32	8	7	7	8
19	33	31	32	8	0	40	11	37	8	29	7	6	2	7
20	33	30	36	7	0	32	11	39	-2	32	8	2	6	6
21	33	29	37	7	1	32	9	33	9	32	8	3	1	5
22	33	29	30	8	-2	24	8	31	9	29	8	10	2	5
23	32	30	28	8	4	27	8	30	1	28	8	10	-8	4
24	33	27	32	8	-6	16	6	30	1	28	7	5	-4	4
25	31	29	31	7	-7	23	6	30	6	30	8	5	-3	5
26	30	31	37	6	-6	12	6	30	4	31	8	12	-2	4
27	30	31	33	7	-2	15	9	30	10	32	8	12	-1	5
28	31	32	39	8	-6	18	5	30	6	31	8	0	-4	5
29	30	33	39	8	3	13	5	29	3	34	7	3	-3	5
30	29	32	46	9	-6	12	6	28	6	38	7	3	-5	5

HF-rEF HR Time Course (Fig. 2F)

TIME (s)	Control								ASIC1a Blockade							
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	12	5	-1	5	-1	-1	7	2	-1	0	3	4	2	2	5	1
2	16	13	0	7	6	5	7	26	2	3	3	8	9	17	0	17
3	26	19	5	16	12	15	5	38	11	8	11	10	12	17	2	18
4	26	23	3	17	12	29	8	48	15	13	17	13	14	10	2	18
5	41	30	11	25	12	30	14	50	15	18	20	14	14	17	4	29
6	32	29	11	26	13	40	13	51	17	22	14	16	15	20	6	34
7	37	31	22	24	13	42	17	54	15	24	23	16	15	20	9	28
8	39	35	26	20	14	45	20	50	19	25	25	20	17	20	11	31
9	34	35	26	22	15	44	16	53	17	28	27	17	17	23	8	25
10	33	35	25	18	17	48	20	50	24	24	42	21	17	20	10	24
11	35	36	24	20	17	48	21	44	24	26	33	20	21	21	12	19
12	36	36	33	17	16	49	22	40	24	24	28	18	20	26	12	18
13	38	38	22	12	16	49	22	41	20	26	33	20	20	28	10	16
14	38	37	36	12	17	50	25	38	18	23	26	18	20	28	13	17
15	32	38	33	12	17	47	27	32	19	22	34	16	18	28	15	15
16	30	36	33	11	17	49	27	37	15	22	48	15	19	29	10	23
17	34	36	32	8	18	50	26	30	20	19	48	13	20	29	10	17
18	35	37	31	8	18	49	24	31	17	18	33	13	20	30	11	19
19	35	34	30	8	18	50	23	33	15	18	33	11	20	24	9	17
20	32	37	26	6	17	52	22	33	14	15	28	11	25	27	7	21
21	36	35	27	3	18	52	23	32	11	16	36	7	25	29	11	21
22	29	36	32	4	18	50	22	32	13	16	41	9	21	28	8	20
23	34	36	36	2	18	52	21	35	9	16	39	6	19	32	8	18
24	35	33	28	3	19	52	20	31	20	15	36	6	18	29	8	19
25	32	36	28	2	18	52	20	34	18	14	30	4	19	25	11	23
26	28	34	25	-1	20	45	19	32	15	15	35	4	19	28	11	21
27	30	34	23	4	20	49	18	32	16	15	35	2	19	26	9	20
28	31	35	24	1	20	46	21	34	14	15	40	2	20	24	6	24
29	28	34	39	0	20	48	22	33	11	15	40	2	20	24	8	23
30	28	35	25	0	20	48	20	37	10	14	28	3	23	26	6	26

SHAM Tension Time Course (Fig. 2G)															
TIME (s)	Control							ASIC1a Blockade							
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	0.8	1.4	1.0	0.8	0.8	1.3	0.7	0.8	1.2	0.8	0.9	0.8	1.1	0.5	
2	0.8	1.4	1.0	0.8	0.8	1.4	0.5	0.8	1.3	0.8	0.9	0.8	1.3	0.5	
3	0.7	1.3	1.0	0.7	0.9	1.4	0.5	0.8	1.3	0.9	0.9	0.8	1.4	0.6	
4	0.7	1.3	1.0	0.7	0.9	1.4	0.5	0.8	1.3	0.9	0.9	0.8	1.4	0.6	
5	0.8	1.4	1.0	0.7	0.9	1.4	0.5	0.8	1.4	1.0	0.9	0.8	1.4	0.6	
6	0.8	1.4	1.0	0.7	1.0	1.4	0.5	0.8	1.3	1.0	0.9	0.9	1.4	0.6	
7	0.8	1.3	1.0	0.7	1.0	1.4	0.5	0.8	1.3	1.0	0.9	0.9	1.4	0.5	
8	0.8	1.3	1.0	0.7	1.0	1.4	0.4	0.7	1.3	1.0	0.9	0.9	1.4	0.5	
9	0.8	1.3	1.0	0.7	1.0	1.4	0.4	0.7	1.3	1.0	0.9	0.9	1.4	0.5	
10	0.8	1.3	1.0	0.7	1.0	1.4	0.4	0.7	1.3	1.0	0.9	0.9	1.4	0.5	
11	0.8	1.3	1.0	0.6	1.0	1.3	0.4	0.7	1.3	1.0	0.9	0.9	1.3	0.5	
12	0.8	1.3	1.0	0.6	0.9	1.3	0.4	0.7	1.2	1.0	0.9	0.9	1.3	0.5	
13	0.8	1.3	1.0	0.6	0.9	1.3	0.4	0.7	1.2	1.0	0.8	0.9	1.3	0.5	
14	0.8	1.3	1.0	0.6	0.9	1.3	0.4	0.6	1.2	1.0	0.8	0.9	1.2	0.5	
15	0.7	1.3	1.0	0.6	0.9	1.3	0.4	0.6	1.2	1.0	0.8	0.9	1.2	0.5	
16	0.7	1.3	1.0	0.6	0.9	1.3	0.3	0.6	1.1	0.9	0.8	0.9	1.2	0.4	
17	0.7	1.3	1.0	0.7	0.9	1.2	0.3	0.6	1.1	0.9	0.8	0.9	1.1	0.4	
18	0.7	1.3	1.0	0.6	0.9	1.2	0.3	0.5	1.1	0.9	0.8	0.9	1.1	0.4	
19	0.6	1.3	0.9	0.6	0.8	1.2	0.3	0.5	1.0	0.9	0.7	0.9	1.1	0.4	
20	0.6	1.3	0.9	0.6	0.8	1.2	0.3	0.5	1.0	0.9	0.7	0.8	1.1	0.4	
21	0.5	1.3	0.9	0.6	0.8	1.2	0.3	0.5	1.0	0.9	0.7	0.8	1.0	0.4	
22	0.5	1.2	0.9	0.6	0.7	1.1	0.3	0.5	1.0	0.9	0.7	0.8	1.0	0.4	
23	0.5	1.2	0.8	0.6	0.7	1.1	0.3	0.4	0.9	0.9	0.7	0.8	1.0	0.4	
24	0.4	1.2	0.8	0.6	0.7	1.1	0.3	0.4	0.9	0.8	0.7	0.8	0.9	0.4	
25	0.4	1.2	0.7	0.6	0.6	1.1	0.3	0.4	0.9	0.8	0.6	0.8	0.9	0.3	
26	0.4	1.1	0.7	0.6	0.6	1.0	0.2	0.4	0.9	0.8	0.6	0.8	0.9	0.3	
27	0.4	1.1	0.7	0.6	0.6	1.0	0.2	0.4	0.8	0.7	0.6	0.8	0.8	0.3	
28	0.4	1.0	0.6	0.6	0.6	1.0	0.2	0.4	0.8	0.7	0.6	0.7	0.8	0.3	
29	0.4	1.0	0.6	0.6	0.5	0.9	0.2	0.4	0.8	0.7	0.6	0.7	0.8	0.3	
30	0.4	1.0	0.6	0.6	0.5	0.9	0.2	0.4	0.8	0.6	0.5	0.7	0.7	0.3	

HF-rEF Tension Time Course (Fig. 2H)																
	Control								ASIC1a Blockade							
TIME (s)	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #8
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	1.0	1.1	1.0	0.8	1.0	1.2	0.8	1.4	0.9	0.9	0.9	0.8	0.8	1.1	0.7	1.3
2	1.0	1.2	1.0	0.7	1.0	1.1	0.9	1.3	1.0	0.9	1.0	0.9	0.8	0.8	0.8	1.3
3	1.0	1.3	1.0	0.7	1.1	1.1	1.0	1.3	1.0	1.0	1.0	0.9	0.8	0.9	0.8	1.3
4	1.0	1.2	1.0	0.7	1.1	1.1	1.0	1.3	1.1	1.2	1.0	0.9	0.8	0.9	0.8	1.1
5	1.0	1.3	1.0	0.7	1.1	1.1	1.1	1.3	1.1	1.2	1.0	0.9	0.8	0.8	0.8	1.0
6	1.0	1.3	1.0	0.7	1.1	1.0	1.1	1.2	1.1	1.3	1.0	0.9	0.8	0.8	0.8	1.0
7	1.0	1.3	1.0	0.7	1.1	0.9	1.1	1.2	1.1	1.3	1.0	0.9	0.8	0.9	0.8	0.9
8	1.0	1.3	1.0	0.7	1.1	1.0	1.1	1.1	1.1	1.4	0.9	0.9	0.8	0.9	0.8	0.9
9	1.0	1.3	1.0	0.7	1.1	1.0	1.1	1.1	1.1	1.4	0.9	0.9	0.8	1.0	0.8	0.9
10	1.0	1.3	0.9	0.7	1.0	1.0	1.1	1.0	1.1	1.4	0.9	0.9	0.8	0.9	0.8	0.9
11	1.0	1.2	0.9	0.7	1.0	0.9	1.0	1.0	1.1	1.4	0.9	0.9	0.7	1.0	0.8	0.9
12	1.0	1.2	0.9	0.6	1.0	0.9	1.0	1.0	1.1	1.3	0.9	0.8	0.7	1.0	0.8	0.8
13	1.0	1.2	0.9	0.6	0.9	0.9	1.0	1.0	1.0	1.3	0.8	0.8	0.7	0.9	0.8	0.8
14	1.0	1.2	0.9	0.6	0.9	0.9	1.0	1.0	1.0	1.3	0.8	0.8	0.7	0.9	0.8	0.8
15	1.0	1.2	0.9	0.6	0.9	0.9	1.0	1.0	1.0	1.3	0.8	0.8	0.7	1.0	0.7	0.8
16	1.0	1.2	0.9	0.6	0.8	0.9	1.0	1.0	1.0	1.3	0.8	0.8	0.6	1.0	0.7	0.8
17	1.0	1.2	0.9	0.5	0.8	0.9	1.0	1.0	1.0	1.3	0.8	0.8	0.6	1.0	0.7	0.8
18	1.0	1.1	0.9	0.5	0.8	0.9	0.9	1.0	0.9	1.2	0.8	0.8	0.6	0.9	0.7	0.8
19	1.0	1.1	0.9	0.5	0.7	0.9	0.9	1.0	0.9	1.2	0.7	0.7	0.6	1.0	0.7	0.8
20	1.0	1.1	0.9	0.5	0.7	0.9	0.9	1.0	0.9	1.2	0.7	0.7	0.6	0.9	0.7	0.8
21	1.0	1.1	0.9	0.5	0.6	0.8	0.8	1.0	0.9	1.2	0.7	0.7	0.5	0.9	0.6	0.8
22	1.0	1.1	0.9	0.4	0.6	0.8	0.8	1.0	0.9	1.2	0.7	0.7	0.5	0.9	0.6	0.8
23	0.9	1.0	0.9	0.4	0.6	0.8	0.8	1.0	0.8	1.1	0.7	0.7	0.5	0.9	0.6	0.7
24	0.9	1.0	0.9	0.4	0.6	0.8	0.7	1.0	0.8	1.1	0.7	0.7	0.5	0.9	0.5	0.7
25	0.9	1.0	0.9	0.4	0.5	0.8	0.7	1.0	0.8	1.1	0.6	0.7	0.5	0.9	0.5	0.7
26	0.9	1.0	0.9	0.3	0.5	0.8	0.7	1.0	0.8	1.0	0.6	0.6	0.4	1.0	0.5	0.7
27	0.9	0.9	0.8	0.3	0.5	0.8	0.6	1.0	0.8	1.0	0.6	0.6	0.4	0.9	0.5	0.7
28	0.9	0.9	0.8	0.3	0.5	0.8	0.6	1.0	0.7	0.9	0.6	0.6	0.4	0.9	0.5	0.7
29	0.8	0.9	0.8	0.3	0.5	0.8	0.6	0.9	0.7	0.9	0.6	0.6	0.4	0.9	0.4	0.7
30	0.8	0.9	0.8	0.3	0.5	0.8	0.6	0.9	0.7	0.8	0.6	0.6	0.4	0.9	0.4	0.8

SHAM RSNA Time Course (Fig. 2A)

TIME (s)	Control						ASIC1a Blockade					
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6
0	0	0	0	0	0	0	0	0	0	0	0	0
1	250	11	4	-12	32	-1	94	-8	57	-14	65	-13
2	85	26	14	-11	-2	25	27	8	110	-2	130	23
3	-137	11	28	-4	31	18	-77	2	23	-5	13	12
4	-98	5	-4	-8	12	41	12	7	33	-14	19	5
5	47	29	1	0	28	9	3	-5	3	-1	15	-8
6	41	21	-1	1	5	19	-15	-4	3	-6	-75	8
7	-19	14	1	-5	0	18	-6	6	-3	-11	48	14
8	-22	28	10	5	6	24	-17	13	9	-6	-71	29
9	23	13	-23	-6	6	3	-3	4	-4	-6	45	-9
10	-60	22	-5	1	-4	4	-18	-2	1	0	-80	16
11	29	10	-2	-1	-11	9	-21	19	-14	-3	39	-13
12	5	17	-11	7	6	-5	4	0	-9	-4	-41	7
13	2	13	-18	3	7	20	-21	6	1	-5	8	-10
14	36	18	-1	-1	-8	-7	14	18	14	-7	-6	10
15	11	7	1	-2	18	-1	6	9	-20	-4	-25	15
16	0	18	-7	5	-10	25	-5	10	22	-6	1	0
17	6	12	-9	-1	10	23	14	5	23	-2	-5	-18
18	19	-9	-2	8	8	13	-1	9	-14	-4	-3	2
19	-2	6	-15	11	-5	9	-7	2	32	-3	14	-6
20	4	7	-15	2	8	14	3	-8	10	-3	-8	13
21	24	-7	-13	-3	10	0	-13	1	-14	-7	7	12
22	0	4	-8	11	-1	20	11	-15	27	0	3	10
23	12	-5	-7	3	14	8	-23	-11	-25	-5	6	9
24	-9	3	-24	3	-9	11	6	-1	9	-1	-1	15
25	57	0	7	-2	14	11	10	-10	0	-12	-6	1
26	-37	3	6	0	14	-1	-1	7	-17	0	10	22
27	0	-8	-7	6	-3	18	14	-14	-2	-9	1	1
28	2	19	-9	6	-1	4	2	-2	-3	-3	1	10
29	4	-12	12	-3	21	10	-5	-7	-1	-2	-7	12
30	20	-8	-10	-3	21	10	-5	-7	-1	-2	-7	12

HF-rEF RSNA Time Course (Fig. 2B)

TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	75	139	9	119	79	38	60	80	175	58	65	42	47	32
2	16	146	24	119	119	0	4	0	54	2	161	59	-11	-40
3	41	83	7	122	54	1	12	12	51	1	-44	12	9	-19
4	53	99	-1	46	10	11	9	22	29	-12	-2	19	4	-2
5	32	42	7	73	59	-14	14	23	18	-13	58	10	-14	-8
6	32	48	6	52	125	26	11	6	16	-7	-32	10	19	-11
7	29	77	-7	7	-25	-17	12	14	36	-15	43	21	5	-3
8	38	23	9	29	5	13	8	-3	31	-24	-50	16	3	-5
9	40	61	-8	-20	11	-7	9	17	30	3	37	17	9	-17
10	24	33	7	21	6	22	15	9	15	-30	-11	-3	-26	-2
11	42	40	-5	25	3	-3	-2	2	39	-12	11	11	7	-3
12	43	30	4	-17	6	-17	28	9	40	-11	-10	14	-12	-3
13	42	70	-4	8	4	14	-5	14	25	-5	39	12	18	-7
14	33	26	-3	10	8	-3	1	-4	7	-10	13	13	4	-1
15	27	39	-2	20	3	5	16	12	42	-8	-8	-1	6	-6
16	42	53	-1	11	19	-18	-1	6	38	-6	23	20	6	2
17	33	45	0	56	11	19	17	8	56	-6	1	10	-16	-10
18	24	55	-3	24	3	9	0	4	29	-14	-22	1	4	-2
19	19	45	0	6	7	2	6	3	33	-10	13	13	-13	3
20	7	93	0	3	15	19	3	14	32	-5	-10	8	-4	-3
21	18	59	-3	23	10	-7	1	10	23	-11	3	-6	10	-3
22	76	49	0	22	10	12	-5	0	44	-11	28	8	-13	-11
23	27	56	-6	10	7	-8	9	-3	26	4	6	15	5	4
24	34	55	-2	13	9	4	-3	18	8	-22	23	-1	-6	3
25	36	46	0	0	5	5	-1	-6	43	6	18	12	19	-1
26	7	48	-6	15	15	-13	6	14	40	7	20	4	-9	17
27	38	63	-1	-22	10	11	0	4	37	-24	3	-4	3	-19
28	35	56	-5	6	14	-23	-1	-3	21	-13	44	4	6	-13
29	24	30	1	5	12	8	-8	11	24	-11	9	16	0	-2
30	49	30	1	5	12	8	-8	-5	24	-11	9	16	0	-2

SHAM MAP Time Course (Fig. 2C)												
TIME (s)	Control						ASIC1a Blockade					
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6
0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	-1	3	0	0	-1	2	0	-1	0	1	0
2	43	4	3	0	4	0	23	1	2	0	8	2
3	53	4	2	-2	3	2	33	-3	11	1	17	3
4	45	4	3	-1	0	3	26	-9	14	0	20	6
5	28	4	3	0	1	4	3	-11	12	0	22	7
6	11	4	4	1	2	4	7	-10	8	1	21	9
7	19	6	6	2	5	5	6	-9	6	1	20	17
8	19	8	7	2	7	7	9	-9	5	2	23	17
9	20	11	8	2	8	8	9	-6	6	2	23	15
10	18	14	9	2	10	10	9	-5	7	3	24	22
11	14	15	8	1	10	9	9	-3	5	3	23	14
12	8	16	7	1	10	9	7	-3	6	2	17	17
13	8	14	8	1	10	8	5	-3	5	2	16	19
14	8	13	7	1	9	5	4	-4	8	2	14	15
15	8	12	7	1	8	4	5	-1	9	2	14	15
16	12	10	7	1	7	3	5	-1	9	2	13	14
17	11	10	4	1	4	2	5	2	10	3	12	11
18	8	9	5	1	3	0	5	2	12	2	8	10
19	13	9	4	1	1	1	5	2	11	2	9	9
20	12	9	2	1	1	1	4	2	13	2	8	9
21	8	10	2	2	0	0	4	1	13	2	7	7
22	9	11	1	2	1	1	3	4	13	3	6	7
23	10	11	0	2	1	2	2	2	12	4	7	7
24	10	11	1	2	2	2	5	0	11	4	7	8
25	11	10	1	1	3	2	3	1	7	5	7	9
26	13	9	3	1	4	3	3	2	6	6	7	9
27	7	9	4	1	4	2	4	-1	6	6	7	8
28	9	7	4	1	4	2	6	0	4	6	7	7
29	9	6	5	2	4	3	6	-1	2	5	6	7
30	8	7	6	1	6	3	4	-1	2	5	5	7

HF-rEF MAP Time Course (Fig. 2D)														
TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	3	3	0	1	0	3	2	3	2	5	-1	0	11
2	5	15	6	9	11	1	6	2	19	8	16	3	9	18
3	4	25	14	16	27	6	6	-1	34	9	33	10	14	13
4	5	36	21	27	28	11	3	2	40	14	33	14	16	6
5	5	38	24	28	27	22	4	7	41	16	23	16	12	6
6	7	39	28	29	19	22	5	9	41	14	27	17	5	8
7	8	41	26	31	15	23	6	10	37	13	21	17	3	10
8	10	39	28	31	13	20	6	14	34	12	21	19	8	10
9	11	40	29	32	11	12	9	14	36	12	19	19	13	11
10	13	41	27	27	11	14	9	16	37	12	16	19	13	10
11	14	41	29	21	10	20	10	16	37	10	16	18	8	10
12	14	38	25	20	10	20	8	15	37	9	12	15	4	8
13	14	35	28	17	10	10	9	13	38	8	12	14	6	9
14	13	31	26	16	9	11	7	10	39	6	14	15	6	7
15	13	32	28	15	8	5	6	9	34	6	17	15	8	7
16	11	30	25	14	7	13	6	6	28	5	14	12	6	7
17	10	31	22	14	6	10	4	6	30	5	17	12	6	7
18	11	31	21	13	6	2	5	6	34	5	17	12	4	6
19	11	31	17	15	5	4	4	5	35	5	11	10	1	7
20	11	29	17	15	6	3	3	7	33	4	12	11	5	7
21	11	27	17	12	6	7	3	8	32	5	12	12	4	7
22	11	28	15	12	6	8	3	8	30	5	11	11	4	7
23	12	29	16	13	6	9	3	10	33	6	14	10	9	7
24	12	32	17	14	7	7	3	10	34	7	15	10	9	7
25	13	38	15	14	6	8	4	11	33	8	17	10	6	9
26	13	38	15	14	5	8	5	11	32	8	15	10	2	10
27	13	37	15	14	6	6	4	11	32	8	10	10	9	21
28	14	37	14	14	7	8	4	11	34	7	10	11	4	21
29	15	37	13	14	6	8	3	10	34	6	14	8	3	13
30	14	34	14	11	6	7	2	10	32	6	14	9	13	12



SHAM HR Time Course (Fig. 2E)

TIME (s)	Control						ASIC1a Blockade					
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	5	3	1	1	1	0	-1	2	0	-2
2	11	1	7	0	2	3	8	5	-1	-1	2	2
3	12	-1	11	1	2	3	11	4	3	-1	7	4
4	12	3	12	-2	3	3	10	4	3	0	11	6
5	12	5	11	1	4	3	7	4	5	-1	13	6
6	11	4	11	-1	4	4	6	-1	6	0	14	5
7	10	5	11	2	4	3	5	1	4	-1	12	6
8	8	7	12	0	3	3	4	1	6	-1	14	6
9	8	7	13	-1	3	3	3	2	3	0	14	4
10	7	8	14	0	3	3	2	2	4	0	13	5
11	6	6	15	0	1	3	1	1	5	-1	11	5
12	5	7	16	3	1	3	2	0	5	0	12	5
13	4	8	14	1	3	3	1	0	4	-1	10	5
14	3	7	15	0	1	2	0	0	5	-3	10	5
15	3	8	15	0	2	2	1	2	2	1	9	4
16	4	7	14	0	3	2	1	4	3	1	7	4
17	4	6	17	1	3	2	1	0	3	0	7	3
18	3	6	16	0	3	2	2	2	3	0	6	3
19	3	3	15	0	4	2	3	3	4	1	6	3
20	4	4	15	0	4	2	2	2	2	0	5	3
21	4	4	15	2	5	2	1	2	1	1	5	3
22	3	4	16	1	2	2	1	3	5	0	5	3
23	3	5	16	0	2	2	1	0	3	-1	5	4
24	3	5	13	0	1	3	2	0	1	-1	6	3
25	3	6	14	0	1	3	1	0	2	-2	5	2
26	4	4	15	1	0	3	0	-2	1	-1	9	2
27	4	4	14	0	1	3	0	-3	0	1	9	2
28	5	5	15	0	2	3	0	-3	3	-1	4	3
29	4	2	15	1	1	3	1	0	2	-2	8	2
30	4	3	14	2	2	3	2	0	3	-1	2	2

HF-rEF HR Time Course (Fig. 2F)

TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1	2	0	1	-3	5	3	-1	8	-1	0	0	-1	-3	-2
2	3	5	7	10	15	1	-1	3	12	5	7	3	0	-1
3	5	9	8	10	14	1	3	3	19	10	12	7	1	3
4	5	12	15	18	18	1	3	3	21	13	13	8	2	1
5	9	15	15	19	19	2	1	5	23	14	15	9	2	2
6	4	17	18	18	23	4	2	3	25	13	17	11	1	2
7	3	18	16	19	22	2	2	2	26	12	15	11	1	-1
8	3	21	19	20	23	7	1	3	25	12	17	11	0	0
9	2	21	20	23	22	1	-1	3	26	10	15	12	1	-1
10	2	20	20	19	22	2	0	2	26	7	15	12	1	1
11	2	22	21	21	22	0	1	4	27	5	15	13	4	1
12	3	22	25	20	22	2	0	6	25	3	14	13	4	2
13	3	21	21	20	21	2	1	6	27	5	13	13	0	0
14	5	21	20	16	21	1	2	3	28	7	13	13	3	0
15	8	22	18	16	22	0	-1	2	28	5	14	14	2	3
16	5	21	17	13	21	0	-5	6	26	5	13	13	5	0
17	5	22	17	12	21	0	-1	2	26	4	12	13	3	3
18	6	23	16	15	22	0	-1	9	25	4	12	14	2	-1
19	5	23	16	11	20	3	1	7	26	5	11	13	2	2
20	3	20	13	11	20	1	-2	3	25	5	12	13	1	0
21	4	21	11	11	21	1	0	3	25	2	9	14	2	3
22	3	19	10	12	20	3	-1	1	24	4	10	14	3	4
23	2	21	12	10	21	2	-2	1	24	3	10	13	1	3
24	3	21	11	13	20	3	-1	2	23	5	10	14	2	3
25	3	20	12	13	20	2	-2	4	23	4	10	13	2	1
26	5	21	10	11	20	2	-2	4	23	3	11	13	1	2
27	4	20	11	14	20	3	0	1	22	3	13	14	4	3
28	4	21	8	9	20	1	0	1	21	6	10	13	3	5
29	4	20	8	11	21	2	-2	2	21	4	12	14	0	1
30	5	20	9	9	20	2	0	3	22	3	14	13	3	3

SHAM Tension Time Course (Fig. 2G)

TIME (s)	Control						ASIC1a Blockade					
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.97	0.98	0.92	0.93	0.79	0.98	0.82	1.10	0.81	0.80	1.18	0.90
2	0.88	0.92	0.87	0.85	0.71	0.86	0.76	1.04	0.74	0.72	1.06	0.85
3	0.85	0.88	0.83	0.81	0.67	0.82	0.73	1.00	0.70	0.69	1.01	0.80
4	0.83	0.86	0.82	0.79	0.65	0.80	0.71	0.99	0.69	0.67	0.99	0.78
5	0.81	0.85	0.80	0.78	0.63	0.79	0.70	0.97	0.67	0.66	0.97	0.77
6	0.80	0.84	0.79	0.77	0.62	0.78	0.69	0.97	0.66	0.65	0.96	0.76
7	0.79	0.83	0.78	0.76	0.61	0.77	0.68	0.96	0.65	0.64	0.95	0.75
8	0.79	0.83	0.78	0.75	0.60	0.76	0.68	0.95	0.65	0.64	0.93	0.74
9	0.78	0.82	0.77	0.75	0.60	0.75	0.67	0.95	0.64	0.63	0.93	0.74
10	0.77	0.82	0.76	0.74	0.59	0.75	0.67	0.94	0.63	0.63	0.92	0.73
11	0.77	0.81	0.76	0.74	0.59	0.74	0.67	0.94	0.63	0.63	0.91	0.73
12	0.76	0.81	0.75	0.73	0.58	0.74	0.66	0.93	0.62	0.62	0.90	0.72
13	0.76	0.80	0.75	0.73	0.58	0.73	0.66	0.93	0.62	0.62	0.90	0.72
14	0.75	0.80	0.74	0.73	0.57	0.73	0.66	0.93	0.62	0.62	0.89	0.72
15	0.75	0.80	0.74	0.72	0.57	0.73	0.65	0.93	0.61	0.61	0.89	0.71
16	0.75	0.79	0.74	0.72	0.56	0.72	0.65	0.92	0.61	0.61	0.88	0.71
17	0.74	0.79	0.73	0.72	0.56	0.72	0.65	0.92	0.61	0.61	0.88	0.71
18	0.74	0.79	0.73	0.71	0.56	0.72	0.64	0.92	0.60	0.60	0.87	0.70
19	0.74	0.78	0.73	0.71	0.55	0.72	0.64	0.92	0.60	0.60	0.87	0.70
20	0.73	0.78	0.72	0.71	0.55	0.71	0.64	0.91	0.60	0.60	0.87	0.70
21	0.73	0.78	0.72	0.70	0.55	0.71	0.64	0.91	0.60	0.60	0.86	0.69
22	0.73	0.78	0.72	0.70	0.55	0.71	0.64	0.91	0.59	0.60	0.86	0.69
23	0.73	0.78	0.72	0.70	0.54	0.70	0.63	0.91	0.59	0.59	0.86	0.69
24	0.72	0.77	0.71	0.70	0.54	0.70	0.63	0.90	0.59	0.59	0.85	0.69
25	0.72	0.77	0.71	0.70	0.54	0.70	0.63	0.90	0.59	0.59	0.85	0.68
26	0.72	0.77	0.71	0.69	0.54	0.70	0.63	0.90	0.58	0.59	0.85	0.68
27	0.72	0.77	0.71	0.69	0.53	0.69	0.63	0.90	0.58	0.59	0.85	0.68
28	0.71	0.76	0.70	0.69	0.53	0.69	0.63	0.90	0.58	0.59	0.84	0.68
29	0.71	0.76	0.70	0.69	0.53	0.69	0.62	0.90	0.58	0.58	0.84	0.68
30	0.71	0.76	0.70	0.69	0.53	0.69	0.62	0.90	0.58	0.58	0.84	0.67

HF-rEF Tension Time Course (Fig. 2H)														
TIME (s)	Control							ASIC1a Blockade						
	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7	Rat #1	Rat #2	Rat #3	Rat #4	Rat #5	Rat #6	Rat #7
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1.02	0.88	1.21	0.56	1.12	1.25	1.06	0.93	0.77	1.23	0.59	0.98	1.22	1.34
2	0.90	0.75	1.11	0.48	0.99	1.15	0.97	0.88	0.72	1.16	0.53	0.91	1.10	1.26
3	0.85	0.71	1.07	0.46	0.93	1.11	0.93	0.85	0.68	1.10	0.51	0.88	1.05	0.78
4	0.83	0.68	1.04	0.44	0.90	1.08	0.91	0.84	0.66	1.09	0.49	0.86	1.03	0.78
5	0.82	0.66	1.03	0.43	0.88	1.07	0.90	0.83	0.65	1.06	0.48	0.84	1.01	0.77
6	0.80	0.65	1.01	0.42	0.87	1.05	0.89	0.82	0.64	1.05	0.48	0.83	1.00	0.77
7	0.79	0.63	1.00	0.42	0.85	1.04	0.88	0.81	0.63	1.04	0.47	0.82	0.99	0.77
8	0.79	0.62	1.00	0.41	0.84	1.03	0.88	0.81	0.62	1.03	0.47	0.82	0.98	0.76
9	0.78	0.62	0.99	0.41	0.83	1.02	0.87	0.80	0.62	1.02	0.46	0.81	0.97	0.76
10	0.77	0.61	0.98	0.40	0.82	1.01	0.86	0.80	0.61	1.02	0.46	0.81	0.97	0.76
11	0.77	0.61	0.97	0.40	0.82	1.01	0.86	0.80	0.61	1.01	0.45	0.80	0.96	0.75
12	0.76	0.60	0.97	0.40	0.81	1.00	0.85	0.79	0.60	1.00	0.45	0.80	0.96	0.75
13	0.76	0.59	0.96	0.39	0.81	1.00	0.85	0.79	0.54	1.00	0.45	0.79	0.95	0.75
14	0.75	0.59	0.96	0.39	0.80	0.99	0.85	0.79	0.53	0.99	0.44	0.79	0.95	0.75
15	0.75	0.58	0.95	0.39	0.80	0.99	0.84	0.78	0.53	0.99	0.44	0.79	0.94	0.75
16	0.74	0.58	0.95	0.38	0.79	0.98	0.84	0.78	0.53	0.99	0.44	0.78	0.94	0.74
17	0.74	0.58	0.95	0.38	0.79	0.98	0.84	0.78	0.52	0.98	0.44	0.78	0.93	0.74
18	0.74	0.57	0.94	0.38	0.79	0.98	0.83	0.77	0.52	0.98	0.43	0.78	0.93	0.74
19	0.73	0.57	0.94	0.38	0.78	0.97	0.83	0.77	0.52	0.97	0.43	0.77	0.93	0.74
20	0.73	0.56	0.94	0.38	0.78	0.97	0.83	0.77	0.51	0.97	0.43	0.77	0.92	0.74
21	0.73	0.56	0.93	0.37	0.78	0.97	0.82	0.77	0.51	0.97	0.43	0.77	0.92	0.74
22	0.72	0.56	0.93	0.37	0.77	0.96	0.82	0.77	0.51	0.97	0.43	0.77	0.92	0.74
23	0.72	0.56	0.93	0.37	0.77	0.96	0.82	0.76	0.51	0.96	0.42	0.76	0.91	0.73
24	0.72	0.55	0.92	0.37	0.77	0.96	0.82	0.76	0.50	0.96	0.42	0.76	0.91	0.73
25	0.72	0.55	0.92	0.37	0.77	0.96	0.82	0.76	0.50	0.96	0.42	0.76	0.91	0.73
26	0.71	0.55	0.92	0.36	0.76	0.95	0.81	0.76	0.50	0.95	0.42	0.76	0.91	0.73
27	0.71	0.55	0.92	0.36	0.76	0.95	0.81	0.76	0.50	0.95	0.42	0.76	0.91	0.73
28	0.71	0.54	0.91	0.36	0.76	0.95	0.81	0.76	0.50	0.95	0.42	0.75	0.90	0.73
29	0.71	0.54	0.91	0.36	0.76	0.95	0.81	0.76	0.50	0.95	0.41	0.75	0.90	0.73
30	0.67	0.54	0.91	0.36	0.75	0.95	0.81	0.75	0.49	0.94	0.41	0.75	0.90	0.72