

Supplementary Materials:

File S1. Descriptive statistics of demographic data of included dogs, divided into breed groups.

	Total (n = 72)	Boston Terriers (n = 28)	French Bulldogs (n = 32)	Small Brachycephalic Breeds (n = 12)
Gender				
Female	45	18	23	4
Male	27	10	9	8
Age (years)				
Mean (\pm SD)	4.2 \pm 2.1	4.8 \pm 1.9	3.7 \pm 2.1	4.3 \pm 2.3
Weight (kg)				
Mean (\pm SD)	9.8 \pm 3.3	8.4 \pm 1.6	12.7 \pm 1.8	5.2 \pm 1.9
BCS (1-9)				
Median (Range)	5 (4 - 8)	5 (4 - 6)	6 (4 - 8)	5 (4 - 7)
Speed (km/h)				
Mean (\pm SD)	4.9 \pm 0.6	5.4 \pm 0.5	4.7 \pm 0.5	4.3 \pm 0.6

File S2. Breathing noises (BN) of all dogs subdivided into breed groups at rest and after 5, 10 and 17 minutes of exercise.

		Boston Terriers			
Time Point		At Rest	5 min	11 min	17 min
Number of subjects		28	28	28	28
No BN		27/28 (96%)	22/28 (79%)	22/28 (79%)	21/28 (75%)
		BN audible without stethoscope (n)			
Intermittent	Mild	0	0	1	3
	Moderate	0	0	0	0
	Severe	0	0	0	0
Constant	Mild	0	1	1	0
	Moderate	0	0	0	0
	Severe	0	0	0	0
		BN audible only with stethoscope (n)			
Intermittent	Mild	1	3	3	3
	Moderate	0	0	0	0
	Severe	0	0	0	0
Constant	Mild	0	1	1	1
	Moderate	0	0	0	0
	Severe	0	0	0	0
		French Bulldogs			
Time Point		At Rest	5 min	11 min	17 min
Number of subjects		32	32	32	32
No BN		16/32 (50%)	14/32 (44%)	10/32 (31%)	12/32 (38%)
		BN audible without stethoscope (n)			

Intermittent	Mild	2	0	3	3
	Moderate	1	2	0	0
	Severe	0	0	0	0
Constant	Mild	1	3	4	5
	Moderate	6	4	6	5
	Severe	2	4	4	5
BN audible only with stethoscope (n)					
Intermittent	Mild	2	0	3	2
	Moderate	0	1	0	0
	Severe	0	0	0	0
Constant	Mild	1	2	1	0
	Moderate	1	2	1	0
	Severe	0	0	0	0
Small Brachycephalic Breeds					
Time Point		At Rest	5 min	11 min	17 min
Number of subjects		12	12	12	12
No BN		10/12 (83%)	7/12 (58%)	5/12 (42%)	6/12 (50%)
BN audible without stethoscope (n)					
Intermittent	Mild	2	3	3	4
	Moderate	0	0	1	0
	Severe	0	0	0	0
Constant	Mild	0	0	0	0
	Moderate	0	0	0	1
	Severe	0	0	0	0
BN audible only with stethoscope (n)					
Intermittent	Mild	0	2	3	1
	Moderate	0	0	0	0
	Severe	0	0	0	0
Constant	Mild	0	0	0	0
	Moderate	0	0	0	0
	Severe	0	0	0	0