

Dog Gait Analysis

Patient: Ace 22/04/2017
Record: 10/10/2023 12:11, Dog Treadmill Gait Analysis

Patient

Name	Ace
Breed	Great Dane
Gender	Male
Back length, cm	76
Shoulder height, cm	91
Owner	Jill
Last name	Gibson

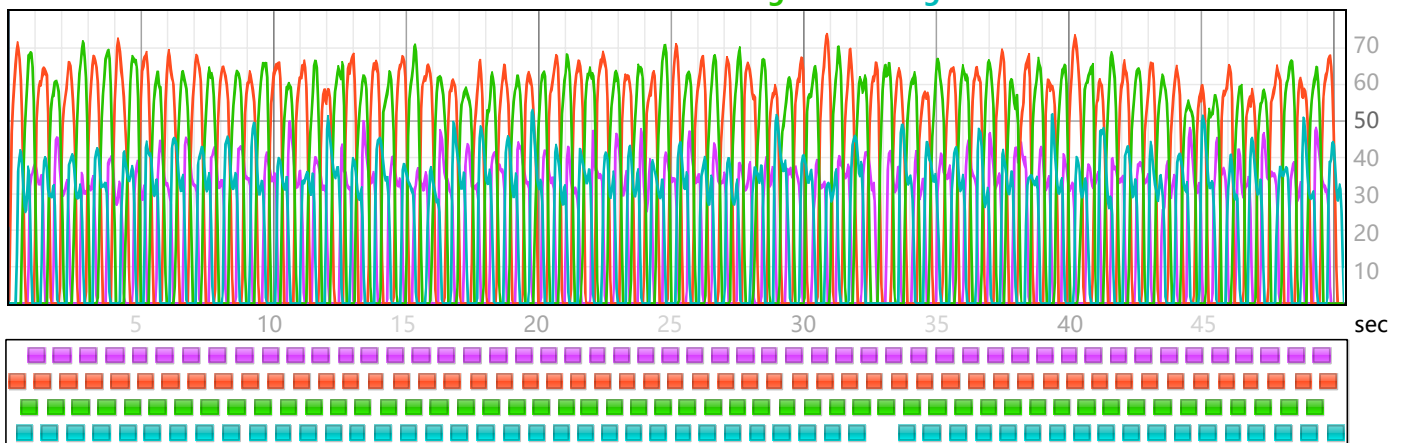
Patient comments

Record comments

Validation of step detection

Force curve (% of body weight)

Hind Left Front Left Front Right Hind Right

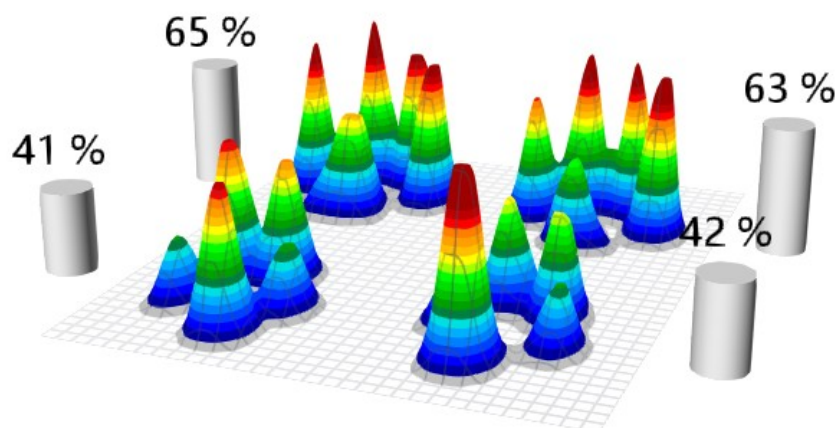


Dog Gait Analysis

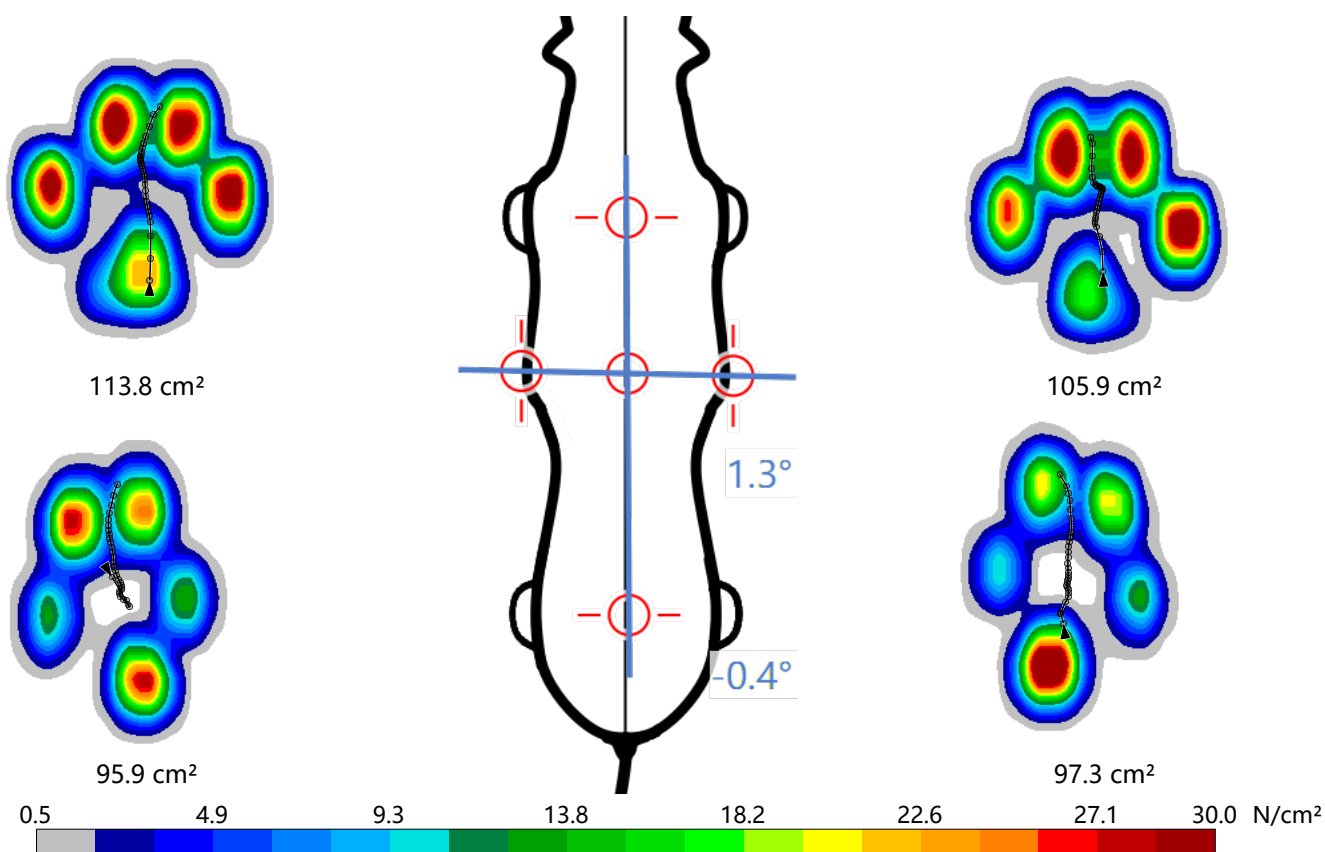
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Average Pressure- / Force- Distribution

Max force (% of body weight)



Body load distribution



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Gait parameters

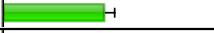
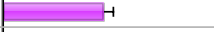
Geometry

4.1 km/h

Step length, cm

Front	L	58.1±3.6	
	R	50.8±4.9	
Hind	L	50.5±4.6	
	R	58.4±4.3	

Step/Stride ratio, %

Front	L	53.1±3.3	
	R	46.4±4.4	
Hind	L	46.1±4.2	
	R	53.3±4.0	

Step width, cm

Front	13.8±2.5	
Hind	17.1±3.6	

Hind reach, cm

	L	19.7±4.9	-30	
	R	27.3±4.9		

Stride length, cm

109.5±10.0	
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Cadence, steps/min

126.1±6.8	
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Symmetry index, %

Front	1.8	
Hind	2.1	

Phases

Stance phase, %

Front	L	63.1±2.7	
	R	65.2±2.4	
Hind	L	65.4±2.0	
	R	63.6±4.6	

Swing phase, %

Front	L	36.9±2.7	
	R	34.8±2.4	
Hind	L	34.6±2.0	
	R	36.4±4.6	

Double stance, %

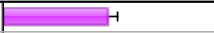
Front	28.4±5.1	
Hind	29.8±2.8	

Forces

Peak Vertical Force (PVF), N

Front	L	484.3	
	R	476.5	
Hind	L	304.8	
	R	315.5	

Vertical impulse (VI), N-s

Front	L	216.9±17.7	
	R	215.6±13.4	
Hind	L	144.4±11.9	
	R	141.1±13.8	

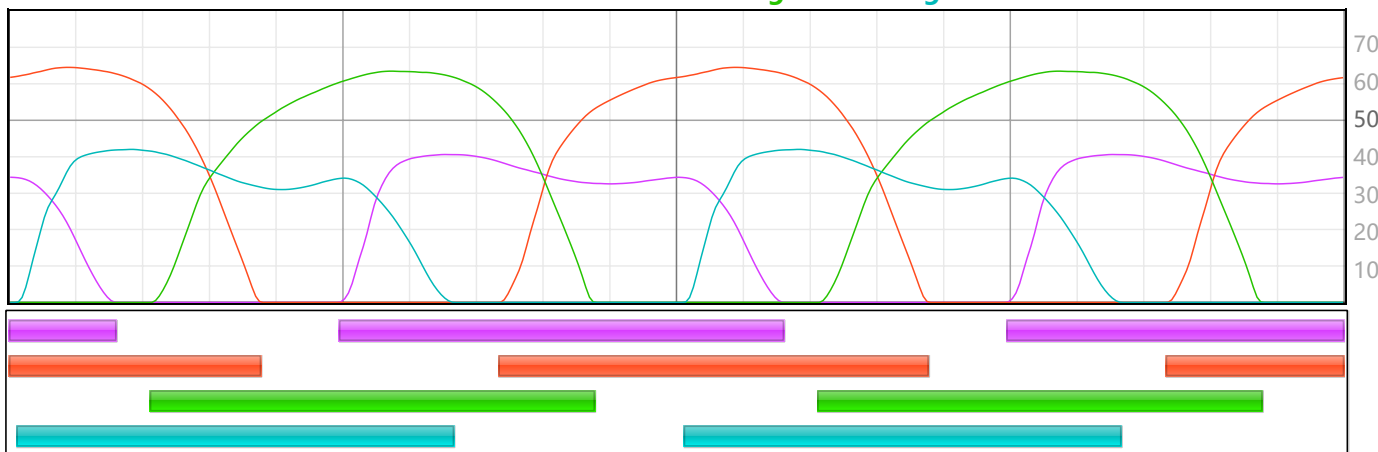
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Average force curves

(% of body weight)

Hind Left Front Left Front Right Hind Right

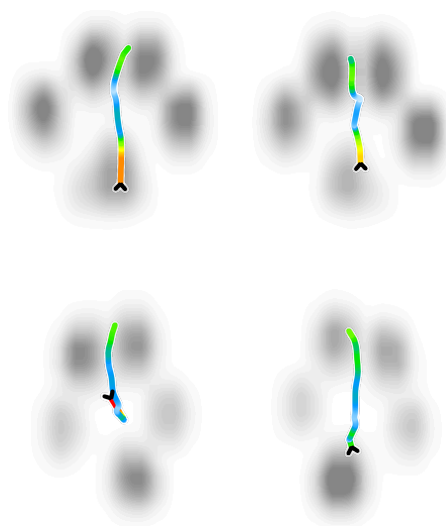
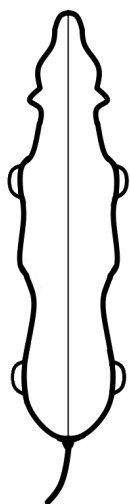


Average step pattern

Hind Left Front Left Front Right Hind Right



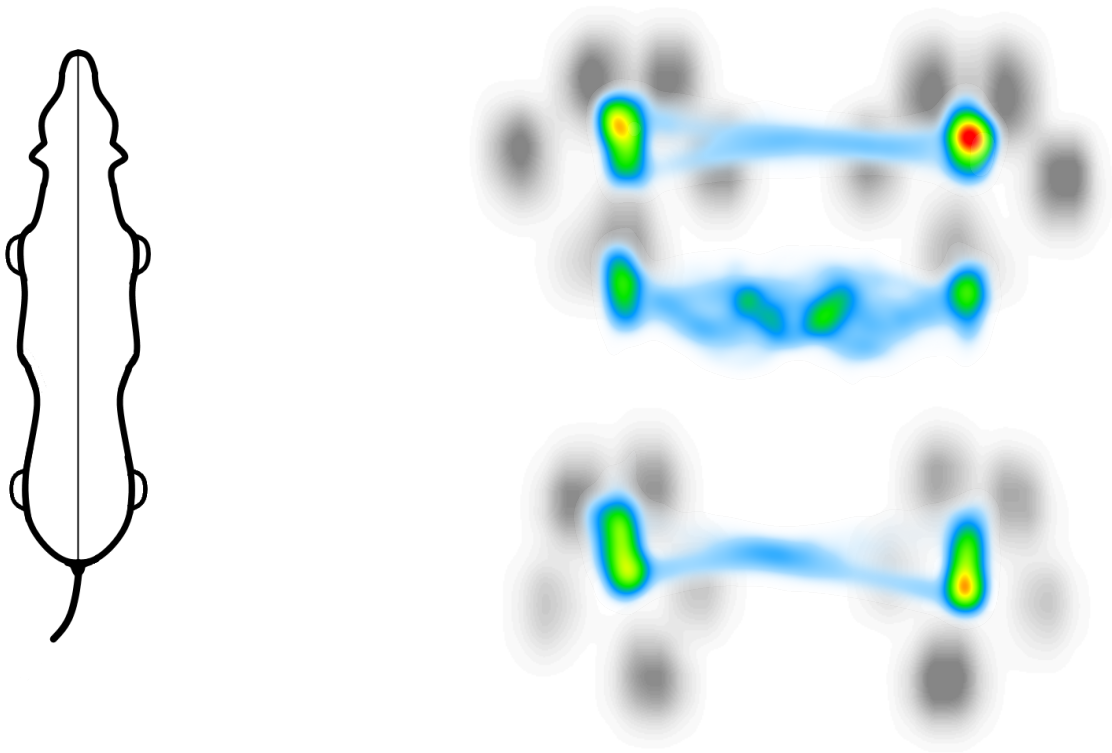
COP - Velocity (average)



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COP Density Combined



Separate

