

Supplementary Table S1—Means (\pm SDs) and 95% CIs of the age, body weight, and the radiographic measurements quantifying lateral acetabular femoral head (AFH) coverage (Norberg and Centre edge angles), dorsal AFH coverage (width and area indices), steepness of cranial acetabular edge (acetabular index angle), and proximodistal alignment of femoral head and neck relative to the femoral axis (inclination angle) for 153 German Shepherds with normal and dysplastic hip joints.

Variables	Normal hip joints (n= 76)		Near normal hip joints (n= 49)		Mild hip dysplasia (n= 31)		Moderate hip dysplasia (n= 69)		Severe hip dysplasia (n= 64)		ANOVA (<i>P</i> -value)
	Mean \pm SD	95% CI	Mean \pm SD	95% CI	Mean \pm SD	95% CI	Mean \pm SD	95% CI	Mean \pm SD	95% CI	
Age/y	4.7 \pm 3.4	3.8 - 5.6	4.0 \pm 3.6	2.9 - 5.1	3.3 \pm 2.7	2.2 - 4.4	4.2 \pm 3.5	3.3 - 5.2	4.0 \pm 2.8	3.2 - 4.8	0.409
Body weight/kg	36.2 \pm 6.3	34.4 - 37.9	33.6 \pm 6.5	31.4 - 35.7	34.2 \pm 7.7	30.8 - 37.5	35.8 \pm 7.0	33.7 - 37.9	36.0 \pm 6.1	33.9 - 38.1	0.32
Norberg angle (degree)	108.1 \pm 3.0	107.4 - 108.7	103.3 \pm 1.1	103.0 - 103.7	100.5 \pm 0.3	100.4 - 100.6	96.6 \pm 2.3	96.1 - 97.2	80.7 \pm 7.9	78.7 - 82.7	
Centre edge angle (degree)	26.0 \pm 3.0	25.3 - 26.7	21.5 \pm 2.6	20.8 - 22.3	19.4 \pm 2.5	18.4 - 20.3	15.9 \pm 3.2	15.1 - 16.7	(-)0.1 \pm 8.1	(-)2.2 - 2.0	
Dorsal AFH coverage width index	0.54 \pm 0.06	0.53 - 0.55	0.51 \pm 0.07	0.49 - 0.53	0.49 \pm 0.07	0.47 - 0.51	0.45 \pm 0.08	0.43 - 0.47	0.30 \pm 0.09	0.28 - 0.32	<0.0001
Dorsal AFH coverage area index	0.56 \pm 0.06	0.54 - 0.57	0.53 \pm 0.07	0.51 - 0.55	0.50 \pm 0.07	0.47 - 0.53	0.46 \pm 0.08	0.44 - 0.48	0.27 \pm 0.09	0.24 - 0.29	
Acetabular index angle (degree)	13.2 \pm 4.8	12.1 - 14.3	12.8 \pm 4.3	11.6 - 14.0	14.1 \pm 5.5	12.1 - 16.1	15.7 \pm 5.4	14.4 - 17.0	29.1 \pm 14.5	25.4 - 32.8	
Inclination angle (degree)	130.5 \pm 5.7	129.2 - 131.8	129.8 \pm 5.6	128.2 - 131.4	129.9 \pm 5.8	127.7 - 132.0	128.8 \pm 7.1	127.1 - 130.5	124.2 \pm 7.7	122.3 - 126.2	