

Study	Type of sample	Population	HA concentration
Current in-house validation study	CPD plasma	5 healthy dogs	Median 32.7 ng/mL, IQR 14.0 Mean 40.3 ng/mL, SD 16.6 (range 24.1-66.5)
Beiseigel et al. ¹	Heparin plasma	2 groups of 19 healthy dogs under general anesthesia	Group 1: Median 17.4 ng/mL, IQR 37.3 Group 2: Median 17.8 ng/mL, IQR 25.6
Devriendt et al. ²	Serum	8 healthy dogs	Median 33.1 ng/mL (range 25.8-83.1)
Gaudette et al. ³	EDTA plasma	20 healthy dogs	Median 76.1 ng/mL (range 26.2-147.4)
Lawrence-Mills et al. ⁴	Serum	18 healthy dogs	Median 45.7 ng/mL (range 8.7-80.2)
Ceplecha et al. ⁵	Serum	41 healthy dogs	Median 37.2 ng/mL (range 14.0-123.2)
Cardillo et al. ⁶	EDTA plasma	8 healthy dogs	Mean 36.7 ng/mL, SD 35.6 (range 5.8-105.1)

Supplementary Table S1: Concentrations of HA in healthy dogs from the in-house validation on CPD plasma and previous studies performed on serum, heparin plasma, or EDTA plasma. CPD: citrate phosphate dextrose. EDTA: ethylenediaminetetraacetic acid. HA: hyaluronic acid. IQR: interquartile range. SD: standard deviation.

1. Beiseigel M, Simon BT, Michalak C, Stickney MJ, Jeffery U. Effect of peri-operative crystalloid fluid rate on circulating hyaluronan in healthy dogs: a pilot study. *Vet J.* 2021;267:105578. doi:10.1016/j.tvjl.2020.105578.
2. Devriendt N, Serrano G, Meyer E, et al. Serum hyaluronic acid, a marker for improved liver perfusion after gradual surgical attenuation of extrahepatic portosystemic shunt closure in dogs. *Vet J.* 2021;268:105604. doi:10.1016/j.tvjl.2020.105604.
3. Gaudette S, Hughes D, Boller M. The endothelial glycocalyx: structure and function in health and critical illness. *J Vet Emerg Crit Care.* 2020;30:117–134. doi:10.1111/vec.12925.
4. Lawrence-Mills SJ, Hezzell MJ, Adamantos SE, et al. Circulating hyaluronan as a marker of endothelial glycocalyx damage in dogs with myxomatous mitral valve disease and dogs in a hypercoagulable state. *Vet J.* 2022;285:105845. doi:10.1016/j.tvjl.2022.105845.
5. Ceplecha V, Rehakova K, Lendon C, et al. Hyaluronic acid and TGF-B1 in dogs with hepatobiliary diseases. *Acta Vet Brno.* 2018;87:231–240. doi:10.2754/avb201887030231.
6. Cardillo JH, Tarbutton JD, Guillaumin J, et al. Sidestream dark field imaging and biomarker evaluation reveal minimal significant changes to the microcirculation and glycocalyx in a canine hemorrhagic shock model. *Am J Vet Res.* 2023;84:ajvr.23.06.0134. doi:10.2460/ajvr.23.06.0134.