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CANINE ALBUMIN DOSAGE SUMMARY SHEET

Below is a summary of published dosages for albumin used in dogs. The majority of publications are for xenogeneic human serum albumin- these are indicated as such. Most publications had varied dosage ranges and indications for use and were typically reported as ml/kg dosing of varying concentrations. For the purposes of this chart, the originally published ml/kg dosages have been converted to a standard mg/kg of albumin regardless of the concentration to be administered (i.e.- either a 5% or 16% concentration may be used). As with all veterinary products, **the patient's condition and the clinician's careful judgment dictate the appropriate dosage of canine albumin administered.**

Source Albumin	Dosage	Indication	Reference
Lyophilized canine albumin 16%	800-884 mg/kg over six hours	Septic peritonitis, hypoalbuminemia	[1]
Human serum albumin 25%	500-1000 mg/kg slow IV push	Acute hypotension	[2]
Human serum albumin 25%	425 mg/kg/hour as a CRI	Hypoalbuminemia	[2]
Human serum albumin 25%	380mg/kg-3.64 gm/kg	Critically ill dogs including septic peritonitis, trauma, wounds, neoplasia, gastric ulcer and pancreatitis	[3]
Human serum albumin 25% typically diluted to a 10% solution	100 mg/kg- 6gm/kg	Varied and included septic peritonitis, neoplasia, trauma, hepatic disease, pancreatitis, gastric ulceration	[4]
Human serum albumin 25%	200mg/kg-4.2gm/kg	Protein losing enteropathy or nephropathy	[5]
Human serum albumin 25%	350mg/kg-6.3gm/kg	Liver disease	[5]

Source Albumin	Dosage	Indication	Reference
Human serum albumin 25%	475mg/kg-1.7gm/kg	GDV	[5]
Human serum albumin 25%	500 mg/kg	Supplementation	[6]
Human serum albumin 25%	500mg/kg-1gm/kg as a slow push or bolus followed by 25mg/kg-425mg/kg as a CRI over 4-72 hours	Hypotension	[7]
Human serum albumin 5%	600mg/kg-1gm/kg	Variable	[8]
Human serum albumin 25%	625mg/kg-1.2gm/kg	Variable	[8]
Human serum albumin 25% diluted to a 5% solution	100 mg/kg/hr CRI over 10 hours given daily until serum albumin reached 2.0g/dL	Hypoalbuminemia secondary to GDV, peritonitis, pancreatitis, nephropathy, liver disease, protein losing enteropathy	[9]

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3. Chan D, Rozanski E, Freeman L, et al. Retrospective Evaluation of Human Albumin Use in Critically Ill Dogs. *Journal of Veterinary Emergency and Critical Care* 2004;14:S8.
4. Trow A, Rozanski E, de Laforcade A, et al. Evaluation of the Use of Human Albumin in Critically Ill Dogs: 73 Cases (2003-2006). *Journal of the Veterinary Medical Association* 2008;233:607-612.
5. Mathews K, Barry M. The Use of 25% Human Serum Albumin: Outcome and Efficacy in Raising Serum Albumin and Systemic Blood Pressure in Critically Ill Dogs and Cats. *Journal of Veterinary Emergency and Critical Care* 2005;15:110-118.
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8. Martin L. Human Albumin Solutions in the Critical Patient. International Veterinary Emergency and Critical Care Symposium 2004.
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