

CANINE ALBUMIN DOSAGE SUMMARY SHEET



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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 - 1,000 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%	380 mg/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 - 6 gm/kg.	Varied and included septic peritonitis, neoplasia, trauma, hepatic disease, pancreatitis, gastric ulceration	4
Human serum albumin 25%	200 mg/kg - 4.2 gm/kg.	Protein losing enteropathy or nephropathy	5
Human serum albumin 25%	350 mg/kg - 6.3 gm/kg.	Liver disease	5
Human serum albumin 25%	475 mg/kg - 1.7gm/kg.	GDV	5
Human serum albumin 25%	500 mg/kg.	Supplementation	6

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Source Albumin	Dosage	Indication	Reference
Human serum albumin 25%	500 mg/kg - 1 gm/kg as a slow push or bolus followed by 25 mg/kg - 425mg/kg as a CRI over 4-72 hours.	Hypotension	7
Human serum albumin 5%	600 mg/kg - 1 gm/kg.	Variable	8
Human serum albumin 25%	625 mg/kg - 1.2 gm/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 2.0 g/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.
6. Mazzaferro E, Rudloff E, Kirby R. The Role of Albumin Replacement in the Critically Ill Veterinary Patient. *Journal of Veterinary Emergency and Critical Care* 2002; 12:113-124.
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8. Martin L. Human Albumin Solutions in the Critical Patient. *International Veterinary Emergency and Critical Care Symposium 2004*.
9. Vigano F, Perissinotto L, Bosco V. Administration of 5% Human Serum Albumin in Critically Ill Small Animal Patients with Hypoalbuminemia: 418 Dogs and 170 Cats (1994-2008). *Journal of Veterinary Emergency and Critical Care* 2010; 20:237-243.