

Management of Diabetes Mellitus in Dogs and Cats



With you for life... Convenient management of diabetes with Caninsulin®

The goals in managing Diabetes mellitus in dogs and cats are to reduce or eliminate the clinical signs of diabetes and minimize the risk of hypoglycemia. Remission is a goal that can be achieved in some diabetic cats. Dog and cat owners need to understand diabetes management to be able to accomplish these goals.

Highly purified porcine insulin

Caninsulin is an aqueous suspension of 40 IU/mL of highly purified porcine insulin, consisting of 35% amorphous and 65% crystalline zinc insulin.

Porcine insulin has the same amino acid sequence as canine insulin, making it the first choice for dogs^{1,2} and less likely for dogs to develop anti-insulin antibodies.³

Porcine insulin is 3 amino acids different from feline insulin and as such has the closest sequence to feline insulin.⁴

The efficacy and safety of Caninsulin has been proven in clinical trials in dogs^{5,6} and cats^{7,8,9}. Caninsulin also offers you the added security and confidence that come from over 25 years of successful use by veterinarians worldwide.

Choose Caninsulin first to take advantage of proven efficacy, reassuring safety, accurate delivery and global expertise and support

An effective choice for both dogs and cats	Caninsulin®	Recombinant Human Insulin
1 st veterinary approved insulin for dogs and cats > Security and confidence built on experience and successful use	✓	✗
Identical to canine insulin > 1 st choice for dogs – rapid onset and sustained action alleviates clinical signs with low risk of anti-insulin antibodies	✓	✗
Closest match to feline insulin > Good choice for cats – alleviates clinical signs by delivering blood glucose targets with remission possible	✓	✗
Comprehensive and cost effective diabetes care* > Choices to optimize diabetes management and improve compliance	✓	✗
Live support from experienced veterinary professionals > Partnering with you to help improve pet diabetes care around the world	✓	✗

* Including choice of presentations and U40 insulin syringe or insulin pen as well as a free app - **Pet Diabetes Tracker**.

Over 25 years

of helping vets effectively and safely manage diabetes
Caninsulin (known as Vetsulin in the USA)
is available in more than 45 countries

1. Bivona E, et al. J Am Anim Hosp Assoc. 2018; 34(1):2-12. 2. Adamcak H, et al. Companion Anim. 2018; 23(14):151. 3. Durrant LJ, et al. J Vet Intern Med. 2003; 22:1371-1326. 4. Nishida G, et al. Archivos Brasileiros de Medicina Veterinária e Zootecia. 2007; 59(1):105-112. 5. Durrant LJ, et al. J Vet Intern Med. 2003; 22:1371-1326. 6. Nishida G, et al. Archivos Brasileiros de Medicina Veterinária e Zootecia. 2007; 59(1):105-112. 7. Martin CE, et al. J Vet Intern Med. 2003; 22:1371-1326. 8. Martin CE, et al. J Vet Intern Med. 2003; 22:1371-1326. 9. Martin CE, et al. J Vet Intern Med. 2003; 22:1371-1326.

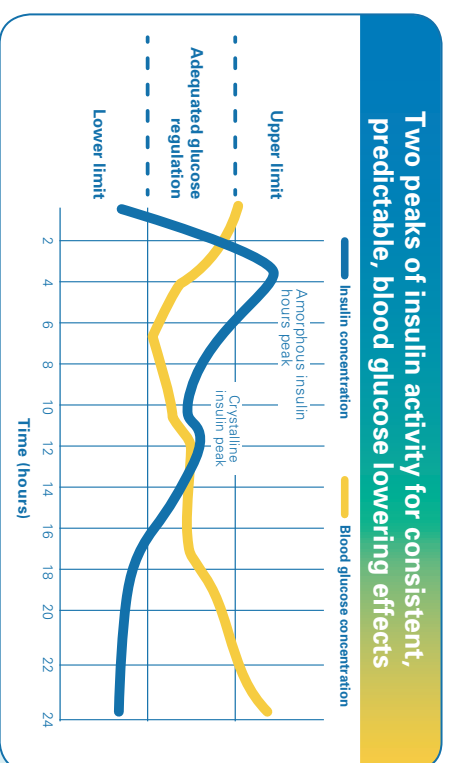
Proven Efficacy in Dogs with Diabetes



Benefits of Once or Twice Daily Caninsulin in Dogs

- **Rapid onset of effect** - Amorphous insulin is absorbed rapidly, with activity peaking around 4 hours post-injection⁵
- **Sustained effect** - Crystalline insulin is slowly absorbed, with activity peaking around 11 hours post-injection⁵
- **Duration of effect** - 14 to 24 hours^{6,11,12}, long enough for once daily administration in some cases

At least one-third of dogs adequately regulated using once-daily dosing^{5,6,10-13}



Effectively reduces blood glucose and clinical signs of diabetes.⁶

80%
Adequate
glycemic control⁶

94%
Reduction
in polyuria⁶

96%
Reduction
in polydipsia⁶

83%
Reduction
in ketonuria⁶

5. Goffman M, et al. J Small Anim Pract. 1997;38:434-438. 6. Morrissey WE, et al. J Vet Intern Med. 2005;19:979-982. 10. Stern B, Morrissey WE, et al. J Vet Intern Med. 2005;19:983-984. 11. Davidson LA, et al. Vet Rec. 2005;198:697-701. 12. Peterson UK, et al. J Small Anim Pract. 2005;46:252-257. 13. Peterson UK, et al. Vet Rec. 2005;46:258-262.

Proven Efficacy in Cats with Diabetes



Benefits of Twice Daily Caninsulin in Cats

- **Rapid onset and sustained effects** - Insulin activity generally peaks between 1.5 and 8 hours post-injection^{10,11}
- **Duration of effect** - Effective when administered twice daily^{7,9,15}
- **Reassuring safety** - Helps to minimize the risk of hypoglycaemia⁷⁻⁹ compared to twice-daily insulins

Caninsulin provides good to excellent control in the majority of cats^{8,9}

Cats treated with insulin can achieve remission ^{8,9,14-16}
No single factor predicts which cats can achieve remission ¹⁴
Controlled diet and weight loss are very important ¹⁴⁻¹⁶
Remission independent from type of insulin; no large scale, randomized and controlled studies ^{14,15}
Remission rates of up to 56% have been reported for Caninsulin (without dietary control) ^{13,9,15}

Effectively reduces blood glucose and reduces clinical signs of diabetes in cats⁷⁻⁹



* Target minimum (nadir) blood glucose 6.3 mmol/L (113 mg/dL) and maximum blood glucose 20.1 mmol/L (360 mg/dL)

7. Martin CJ, Reid JS, J Feline Med Surg. 2001;22:230. 8. Mitchell L et al. J Feline Med Surg. 2008;10:49-61. 9. Martin CJ, Reid JS, Vet Rec. 2007;161:88-94. 10. Kern B, Mittenfey A et al. J. 2000;78:83-184. 11. Spierke W et al. ISFM consensus guidelines on the practical management of diabetes mellitus in cats. 2015;17:225-230.

With you for life...

Convenient diabetes management

Presentations and Storage*

- 40 IU/mL concentration for more accurate dosing in dogs and cats requiring low doses (<8 IU per injection)
- Caninsulin offers a variety of presentations:
 - 2.5 mL vials
 - 10 mL vials
 - 2.7 mL cartridges
- Store upright and refrigerated, do not freeze

Dosing*

- Before first use, vials should be shaken thoroughly until a homogeneous, uniformly milky suspension is obtained
- Before each use, invert the vial or cartridge a few times
- Administer with specific U-40 sterile single-use 0.5 or 1.0 mL insulin syringe (vial) or with 0.5 or 1.0 unit increment VetPen[®] (cartridge)
- Starting with:
 - 0.5 to 1 IU insulin/kg body weight per dog, once daily
 - 1 to 2 IU per cat per injection, twice daily

Resources

- Consultation services with an experienced pet diabetes professional
- Free Pet Diabetes Tracker app available for pet owner to monitor and share reports with veterinary team
- Multitude of support material available on www.caninsulin.com

* See package insert for full information.

WITH YOU FOR LIFE

The first veterinary approved insulin for dogs and cats

**You can offer clients a variety of options
for BOTH diabetic dogs and cats:**



U-40 Insulin Syringe

- Multidose vial offers convenience for pet owners
- Cost-effective delivery option for diabetic pets needing higher doses



VetPen

- The first insulin pen designed exclusively for diabetic pets
- A reassuring option for many owners

NAME OF THE VETERINARY MEDICINAL PRODUCT
Caninsulin 40 U/ml Suspension for Injection

QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml contains:
Active substance:
Insulin* 40 IU/l * Protine insulin present as 35% amorphous Zinc insulin and 65% crystalline Zinc insulin.

PHARMACEUTICAL FORM

A white to almost white suspension for injection.

CINICAL PARTICULARS

Target Species

Dogs and cats

Indications for use, specifying the target species:

Caninsulin is indicated in cases of diabetes mellitus (insulin deficiency) in dogs and cats, where the required blood glucose levels are achieved by using an individually adjusted dose of Caninsulin.

Contraindications

Caninsulin is a medium duration insulin and is not intended for the treatment of animals with severe acute diabetes presenting in a ketoacidotic state. Caninsulin must not be administered by the intravenous route.

Special warnings for each target species

In cats diabetic remission may be possible.

Special precautions for use

Special precautions for use in animals

It is important to establish a strict feeding schedule which will include a minimum of fluctuations in food intake (diets with excess of osmotic inhibitors) in patients suffering from diabetes. Overhydration may have to be considered. Must be avoided. Care must be taken with the use of insulin.

Special precautions to be taken by the person administering the product to animals:
Accidental self-injection can provoke clinical signs of hyperglycaemia, which should be treated by oral administration of glucose.
In case of accidental self-injection seek medical advice immediately and show the package insert or label to the physician.

Adverse reactions (frequency and seriousness)

Adverse reactions in dogs and cats associated with administration of protine insulin are extremely rare, although hypersensitivity reactions have been reported.

Use during pregnancy, lactation or lay

The use of Caninsulin is not contra-indicated during pregnancy or lactation but requires close veterinary supervision to account for changes in metabolic requirements during this period.

Interaction with other medicinal products and other forms of interactions

Changes in insulin requirements may result from administration of substances which alter glucose tolerance such as corticosteroids, thiazide diuretics, progestagens and alpha2 agonists. Monitoring of glucose levels should be used to adjust dose accordingly. Similarly, changes in diet or exercise routines may alter insulin requirements.

Amounts to be administered and administration route

Before Caninsulin is administered, owners should be instructed to have a box of powdered glucose at home. Administration of Caninsulin must be carried out by an adult responsible for the welfare of the animal.

Caninsulin should be administered once or twice daily, as appropriate, by subcutaneous injection. Alternate the injection site daily. Invert the vial or cartridge before use until a homogeneous, uniformly milky suspension is obtained. Cream on the surface of the suspension formed during shaking should be allowed to disperse before the product is used and, if required, the product should be gently mixed to maintain a homogeneous, uniformly milky suspension before use. Agglomerates can form in insulin suspensions. Do not use the product if visible agglomerates persist after shaking thoroughly.

When using vials:

A 40 U/ml insulin syringe should be used.

When using product in cartridges:

The cartridge is designed to be used with a re-usable pen injector. NoMix 40 delivers 0.5 to 8 units of insulin in two versions. VerPen 8 delivers 0.5 to 8 units of insulin in two versions. VerPen 16 delivers 1 to 16 units of insulin in two versions. Syring increments are 0.5 units. Increments of 0.1 units are possible by turning the dial. Increments of 0.2 units are possible by turning the dial. Increments of 0.5 units are possible by turning the dial. Increments of 1 unit are possible by turning the dial. Increments of 2 units are possible by turning the dial. Increments of 4 units are possible by turning the dial. Increments of 8 units are possible by turning the dial. Increments of 16 units are possible by turning the dial. Increments of 32 units are possible by turning the dial. Increments of 64 units are possible by turning the dial. Increments of 128 units are possible by turning the dial. Increments of 256 units are possible by turning the dial. 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Increments of 21062458333714237339583605536734776430010271176814923776 units are possible by turning the dial. Increments of 4212491666742847467916721107346955286002054235362984752 units are possible by turning the dial. Increments of 8424983333485694935833442214693910572004108470725969504 units are possible by turning the dial. Increments of 16849966666971389871666884429387821144008216941451939008 units are possible by turning the dial. Increments of 33699933333942779743333768858775642288016338882903878016 units are possible by turning the dial. Increments of 67399866667885559486667537717551284576032677765807756032 units are possible by turning the dial. Increments of 134799733335771118973335075435102569152065355531615512064 units are possible by turning the dial. Increments of 269599466671542237946670150870205138304130711063231024128 units are possible by turning the dial. Increments of 539198933343084475893340301740410276608261422126462048256 units are possible by turning the dial. Increments of 107839786668616895178668060348082055321652284425292409504 units are possible by turning the dial. Increments of 215679573337233790357336120696164110643304568850584819008 units are possible by turning the dial. Increments of 431359146674467580714672241392328221286609137701169638016 units are possible by turning the dial. Increments of 862718293348935161429344482784656442573218275402339276032 units are possible by turning the dial. Increments of 1725436586697870322858688965569312885146436550804678552064 units are possible by turning the dial. Increments of 3450873173395740645717377931138625770292873101609357104128 units are possible by turning the dial. Increments of 6901746346791481291434755862277251540585746203218714208256 units are possible by turning the dial. Increments of 138034926935829625828695117245545030811714924064374288512 units are possible by turning the dial. Increments of 27606985



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