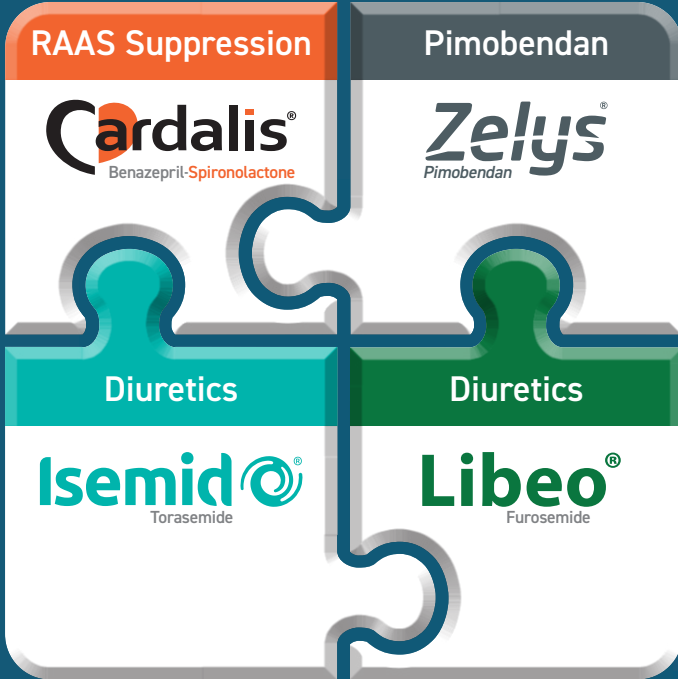
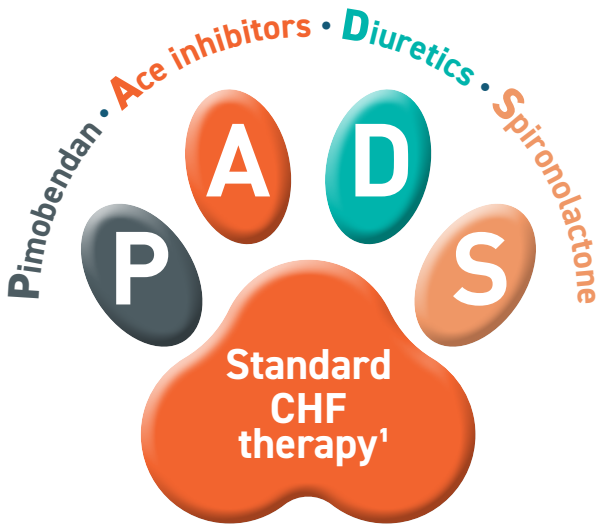


QUAD THERAPY MADE EASY





Adopt ACVIM recommended treatment guidelines¹



Ceva's complete cardiology range helps:

- Prolong survival²
- Improve quality of life²
- Improve compliance³

The single most important action that can be taken to improve compliance is to select medications that permit the lowest daily prescribed dose frequency⁴



For a 10kg dog give:	AM	PM	WITH FOOD
Cardalis [®] 2.5 mg/20 mg		✗	✓
Isemid [®] 2 mg		✗	✓
Zelys [®] 5 mg			✗

Give complete cardiology care with four daily doses



ACVIM Stage C standard therapy¹

Pimobendan

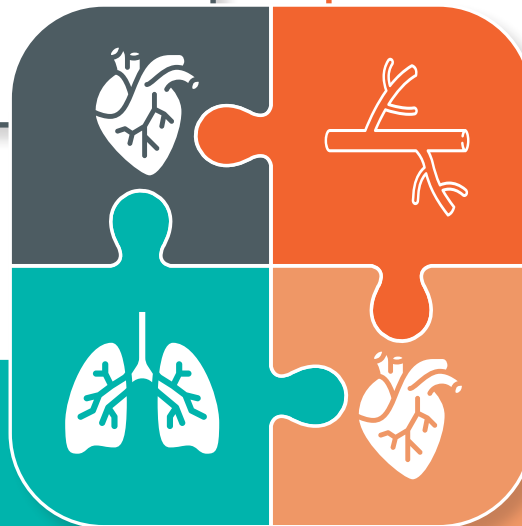
- Improves cardiac contraction⁵
- Reduces afterload through vasodilation³

ACE inhibitors

(e.g. Benazepril)

Block vasoconstriction by:

- Preventing the production of angiotensin II⁶
- Increasing bradykinin (a vasodilator)⁶



Diuretics

(Torasemide/
Furosemide)

Treat congestion/oedema by:

- Limiting water reabsorption in kidneys¹⁰

Spirolactone

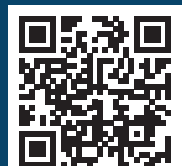
Blocks aldosterone:

- Slows down cardiovascular remodeling^{7,8,9}
- Anti-fibrotic effect^{7,8,9}

Not yet prescribed PADS therapy? Find out more on the course:









'Managing MVD from start to finish'

with Dr Mike Martin MVB, DVC, MRCVS, Veterinary Cardiologist





Adopt PADS therapy

	 <small>Pimobendan</small>	 <small>Benazepril-Spironolactone</small> COMBINED FOR LIFE		 <small>Furosemide</small>
	Pimobendan	Benazepril/Spironolactone	Toraseamide	Furosemide
Main action on	 Heart	 Cardiovascular system	 Kidneys	 Kidneys
Action on RAAS	No action ¹¹	Complete blockade ^{6,7,8,9}	Activation ^{12,13}	Activation ^{12,13}
Frequency per day	2x	1x	1x	2x
With food	✘	✔	✔	✘

1. Keene *et al.* 2019. J Vet Intern Med. 33(3):1127-1140 • 2. Coffman *et al.* Clinical efficacy of a benazepril and spironolactone combination in dogs with congestive heart failure due to myxomatous mitral valve disease: The Benazepril Spironolactone Study (BESST) JVIM 2020. 1- 13. • 3. Besche B, Guillot E, Blondel T *et al.* Efficacy of Torasemide in Degenerative Mitral Valve Disease Dogs with First Onset Congestive Heart Failure. J Vet Intern Med 2020. 1- 13. • 4. Eisen SA *et al.* The effect of prescribed daily dose frequency on patient medication compliance. Arch Intern Med 1990; 150: 1881-4 • 5. Boyle KL, Leech E. 2012. J Vet Emerg Crit Care (San Antonio), 22(4):398-408 • 6. Ames *et al.* 2019. The renin-angiotensin-aldosterone system and its suppression. J Vet Intern Med. 33(2):363-382. Review. Erratum in: J Vet Intern Med. 33(5):2551 • 7. Atkins CE, Häggström J. 2012. J Vet Cardiol. 14(1):165-184 • 8. Ovaert P, Elliott J *et al.* 2010. J Vet Pharmacol Ther. 33(2):109-117 • 9. Ames MK, Atkins CE. 2016. Today's veterinary practice. 6(3), 87-92 • 10. Borgarelli M, Häggström J. 2010. Vet Clin North Am Small Anim Pract. 40(4):651-663 • 11. Lantis AC, Atkins CE *et al.* 2011. Am J Vet Res. 72(12):1646-1651 • 12. Lantis AC, Ames MK *et al.* 2015. J Vet Pharmacol Ther. 38(1):65-73 • 13. Pelligand L, Guillot E *et al.* 2020. Front. Vet. Sci. 7:151. <https://doi.org/10.3389/fvets.2020.00151>

Cardalis® 2.5 mg/20 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Benazepril hydrochloride (HCl) 2.5 mg - Spironolactone 20 mg. Cardalis® 5 mg/40 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Benazepril hydrochloride (HCl) 5 mg - Spironolactone 40 mg. Cardalis® 10 mg/80 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Benazepril hydrochloride (HCl) 10 mg - Spironolactone 80 mg. LEGAL CATEGORY: UK [POM-V] IE [POM].

Zelys® 1.25 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Pimobendan 1.25 mg. Zelys® 5 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Pimobendan 5 mg. Zelys® 10 mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Pimobendan 10 mg. LEGAL CATEGORY: UK [POM-V] IE [POM].

Isemid® 1 mg Chewable Tablets for Dogs (2.5 - 11.5 kg) - ACTIVE SUBSTANCE: Torasemide 1 mg. Isemid® 2 mg Chewable Tablets for Dogs (>11.5 - 23 kg) - ACTIVE SUBSTANCE: Torasemide 2 mg. Isemid® 4 mg Chewable Tablets for Dogs (>23 - 60 kg) - ACTIVE SUBSTANCE: Torasemide 4 mg. LEGAL CATEGORY: UK [POM-V] IE [POM].

Libeo® 10mg Chewable Tablets for Dogs - ACTIVE SUBSTANCE: Furosemide 10mg. Libeo 40mg Chewable Tablet for Dogs - ACTIVE SUBSTANCE: Furosemide 40mg. LEGAL CATEGORY: UK [POM-V] IE [POM].

Further information for Cardalis®, Isemid®, Zelys® and Libeo® can be found in the SPC, the datasheet or the pack leaflet. Advice should only be sought from the prescriber. Use medicines responsibly (www.noah.co.uk/responsible).



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