Managing Your Pet's Arthritis Pain Oral medications

What Is It?	How Does It Work?	How Strong is the Science?	Pros	Cons
Oral NSAID (N on- s teroidal a nti- i nflammatory d rugs)	This class of drugs is the same as ibuprofen or naproxen for humans. They work by blocking steps in the inflammatory pathway that contribute to pain. Examples include: Rimadyl, Meloxicam, and Onsior	Very Strong	 Reliable and fast pain relief Large effect for most patients Well tolerated by the majority of patients 	 Requires blood work monitoring twice a year due to: Risk for worsening kidney disease (especially in cats) Risk of liver disease (dogs) Can cause GI upset
<u>Gabapentin</u>	Reduces the release of certain neurotransmitters involved in pain perception. Works best for neuropathic pain.	Strong	 Safe to use with a variety of underlying health problems and other drugs Very inexpensive and no bloodwork monitoring 	 Not usually effective alone Requires 2-3 times a day dosing May cause sedation, though usually pets will acclimate
<u>Amantadine</u>	This medication blocks the NMDA receptors which are another receptor especially involved in chronic pain perception.	Medium	 Some pets may get long lasting relief from just 2 weeks of treatment at a time 	 Not effective alone Can cause GI upset Must be compounded for accurate dosing in smaller pets
<u>Opioids</u>	This class of drugs block the opioid pain receptors involved in pain perception. Examples: tramadol, buprenorphine	Weak (for oral)	• Inexpensive	 Controlled studies demonstrate very little effect from oral tramadol in dogs Tends to cause sedation

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Managing Your Pet's Arthritis Pain cont. Injectable Medications

What Is It?	How Does It Work?	How Strong is the Science?	Pros	Cons
Anti-NGF monoclonal antibody injection	This class of drugs blocks a receptor called NGF that is involved in pain perception, particularly chronic pain. Examples include: Librela (dogs) and Solensia (cats)	Strong (but new)	 Once a month injection Safe for pets with kidney or liver disease No bloodwork monitoring required 	 Can take 2-6 weeks to see an improvement Monthly trip to the vet's office Cannot be given together with an NSAID long term
<u>PSGAGs</u> (<u>Polysulfated</u> g <u>lycosaminoglycans)</u>	These molecules disrupt enzymes in the joint that break down cartilage and also are used to build lubricating components of joint fluid. Example: Adequan	Medium	 Safe to use with a variety of underlying health problems and other drugs No bloodwork monitoring required Usually administered 1-2 times a month at home or at the vet once steady state reached 	 Can take 1-2 months to see an improvement Initial injection series is more frequent (2 x a week) Can be expensive depending on size of pet

Managing Your Pet's Arthritis Pain cont. Supplements

What Is It?	How Does It Work?	How Strong is the Science?	Pros	Cons
<u>Omega-Fatty</u> <u>Acids (Fish Oil</u>)	Omega-3 fatty acids (EPA and DHA) are building blocks for pathways that tend to promote an anti-inflammatory state in the joints but also elsewhere in the body.	Strong	 Generally well tolerated Can be supplemented separately or in specially formulated diets Can be safely combined with any other treatments 	 Can cause diarrhea at high doses Rare cases of food sensitivity reactions in pets with allergies to fish Small effect compared to drugs and may work best for prevention
Glucosamine & Chondroitin	Proposed to reduce inflammation in the joint and inhibit the break down of cartilage.	Weak	 Minimal risks to pet Can be safely combined with any other treatments 	 Depending on product may be expensive Small effect compared to drugs and may work best for prevention
Other Joint Supplements (Egg shell membrane, green lipped mussel extract, boswellia, ASU, MSM)	There are a variety of proposed mechanisms of action. These are typically combination products. Examples: MovoFlex, Dasequin Advanced	Medium to Weak	 Minimal risks to pet Can be safely combined with any other treatments 	 Depending on product may be expensive Small effect compared to drugs and may work best for prevention

Managing Your Pet's Arthritis Pain cont. Non-medication Therapies

What Is It?	How Does It Work?	How Strong is the Science?	Pros	Cons
<u>Weight Loss</u>	Reduces the stress on arthritic joints. Weight loss of as little as 1lb can improve mobility and pain scores.	Very Strong	No health risks for the pet	 Time and effort intensive Exercise may be a challenge if arthritis pain is already advanced
<u>Physical</u> <u>Therapy</u>	Helps pets maintain muscle mass and maintain mobility and flexibility and reduces pain.	Strong	Safe for nearly all pets unless there is a concurrent acute injury	ExpensiveTime intensiveNeed a specialty practitioner
<u>Therapeutic</u> <u>Laser</u>	The use of red and near-infrared light to stimulate healing, relieve pain and reduce inflammation.	Medium	Minimal risks to pet	Time intensive (weekly to bi- weekly veterinary visits)
<u>Acupuncture</u>	Pressure applied at acupoint sites via long thin needles appears to stimulate release of endorphins and other similar brain chemicals that help with pain management.	Medium	Minimal risks to pet	Time intensiveExpensiveNeed a specialty practitioner