Package Insert for Cats

Approved by FDA under ANADA # 200-491

oxicom® 5 mg/mL Solution for Injection

-steroidal anti-inflammatory drug for use in dogs and cats only.

Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian

Warning: Repeated use of meloxicam in cats has been associated with acute renal failure and death. Do not administer additional injectable or oral meloxicam to cats. See Contraindications, Warnings, and Precautions for detailed information,

Description: Meloxicam is a non-steroidal anti-inflammatory drug (NSAID) of the oxicam class. Each mL of this sterile product for injection contains meloxicam 5.0 mg, alcohol 15%, glycofurol 10%, poloxamer 188 5%, sodium chloride 0.6%, glycine 0.5% and meglumine 0.2%, in water for injection, pH adjusted with sodium hydroxide and hydrochloric acid.

Indications:

Cats: For the control of postoperative pain and inflammation associated with orthopedic surgery, ovariohysterectomy and castration when administered prior to surgery.

Carefully consider the potential benefits and risk of Loxicom and other treatment options before deciding to use Loxicom. Use the lowest effective dose for the shortest duration consistent with individual response.

Cats: Administer a single, one-time subcutaneous dose of Loxicom® 5 mg/mL Solution for Injection to cats at a dose of 0.14 mg/lb (0.3 mg/kg) body weight. Use of additional meloxicam or other NSAIDs is contraindicated, (See Contraindications), To ensure accuracy of dosing, the use of a 1 mL graduated syringe is recommended

Contraindications: Cats with known hypersensitivity to meloxicam should not receive Loxicom 5 mg/mL Solution for Injection. Additional doses of meloxicam or other NSAIDs in cats are contraindicated, as no safe dosage for repeated NSAID administration has been established (See Animal Safety), Do not use meloxicam in cats with pre-existing renal dysfunction.

Warnings: Not for use in humans. Keep this and all medications out of reach of children. Consult a physician in case of accidental ingestion by humans. For subcutaneous (SQ) injectable use in cats. Do not use IV in cats.

Do not administer a second dose of meloxicam. Do not follow the single, one-time dose of meloxicam with any other NSAID. Do not administer meloxicam oral suspension following the single, one-time injectable dose of meloxicam.

When administering any NSAID, appropriate laboratory testing to establish hematological and serum biochemical baseline data is recommended prior to use in dogs and casts. All should undergo a drorough history and physical examination before administering meliolocian. Do not repeat the single, one-time dose of meloxicam in cats. Owner should be advised to observe their calls for signs of potential dirulg biocity.

The safe use of Loxicom 5 mg/mL Solution for Injection in cats younger than 4 months of age, cats used for breeding, or in pregnant or lactating queens has not been evaluated. Meloxicam is not recommended for use in cats with bleeding disorders, as safety has not been established in cats with these disorders. Safety has not been established for intravenous (IV) or intramuscular (IM) use in cats. When administering Loxicom 5 mg/mL indivieworks by oil indializational wild see in a last viteral analization ground in a Solution for Injection, use a syring of appropriate size to ensure precise doding, As a class, cyclo-oxygenase inhibitory NSAIDs may be associated with gastrointestinal, enal, and hegatic trockin, Sensitivity to drug-associated adverse events varies with the individual patient. Class that have experienced adverse reactions from one NSAID may experience adverse reactions from another NSAID. NSAIDs may inhibit the prostaglandins that maintain normal homeostatic function. Such anti-prostaglandin effects may result in clinically significant disease individuals circuit. Scarling or pre-existing desage that has not been previously diagnosed. Patients at greatest risk for adverse events are those that are dehydrated, on concomitant diuretic therapy, or those with existing renal, cardiovascular, and/or hepatic dysfunction. Concurrent administration of potentially nephrotoxic drugs should be carefully approached Communication instanction in Joe Internal product units strong to California and monitored. Australia de la discontinuation and monitored, assistancia chiaga para qual per la monitori procedurer should be employed unit gall surgical procedurers, the use of perioreative parenter fluids is recommended to decrease potential real open complications when using NSADIDs, it additional pain medication is needed after the single one-time does of melaboticam, a non-NSADI California pain medication is needed after the single one-time does of melaboticam, a non-NSADI California pain medication is needed after the single one-time does of melaboticam, a non-NSADI California pain medication is needed after the single one-time does of melaboticam.

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Consider appropriate washout times when switching from corticosteroid use to meloxicam in cats. As a single use product in cats, meloxicam should not be followed by additional

NSAIDs or corticosteroids.

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The use of concomitantly protein-bound drugs with Loxicom 5 mg/ml. Solution for Injection has not been studied in cats. Commonly used protein-bound drugs include cardiac, articonvulsant, and behavioral medications. The influence of concomitant drugs that may inhibit metabolism of Loxicom 5 mg/ml. Solution for Injection has not been evaluated. Drug compatibility should be monitored in patients requiring adjunctive therapy. The effect of cyclor-oxygenase inhibition and the potential for thromboembolic occurrence or a hyper-coagulable state has not been studied.

Adverse Reactions:

Cats: A field study involving 138 cats was conducted. Of the 72 cats receiving meloxicam injection, six cats (8.3%) experienced post-treatment elevated serum blood urea nitrogen (BUN) levels. The pre-treatment values were in the normal range. Of the 66 cats in the butorphanol treatment group, no cats experienced post-treatment elevated serum blood urea nitrogen levels. Nine cats (12,5%) receiving meloxicam injection had post-treatment anemia. Pre-treatment, these cats all had hematocrit and hemoglobin values in the normal range. Four cats (6, %) in the buttorphand treatment group had post-treatment anemia. All but one cat, who had a mild anemia pre-treatment (hematocrit-21% and hemoglobin=7.0 g/dL) had normal pre-treatment values. Twenty-four hours after the injection with meloxicam injection, one cat experienced pain upon palpation of the injection site.

Foreign Experience:

Repeated use in cats has been associated with acute renal failure and death. In studies used for the foreign approval of meloxicam injection in cats, lethargy, vomiting, inappetance, and transient pain immediately after injection were noted. Diarrhea and fecal occult blood have also been reported.

Post-Approval Experience (Rev. 2009): The following adverse reactions are based on post-approval adverse drug event reporting. The categories are listed in decreasing order of frequency by body system

Urinary: azotemia, elevated creatinine, elevated phosphorus, renal failure Gastrointestinal: anorexia, vomiting, diarrhea Neurologic/Behavioral: lethargy, depression Hematologic: anemia

Death has been reported as an outcome of the adverse events listed above. Acute renal The artifaction of the state of adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.

Information For Cat Owners: Meloxicam, like other NSAIDs, is not free from adverse reactions. Owners should be advised of the potential for adverse reactions and be informed of the clinical signs associated with NSAID intolerance. Adverse reactions may include vomiting, diarrhea, lethargy, decreased appetite and behavioral changes. Cat owners should be advised when their pet has received a meloxicam injection. Cat owners should contact their veterinarian immediately if possible adverse reactions are

Clinical Pharmacology: Meloxicam has nearly 100% bioavailability after subcutaneous injection in cats. The terminal elimination half-life after a single dose is estimated to be approximately 15 inst./190%) in casts. Peak drug concentrations of 1.1 meg/ml. can be expected to occur within 1.5 hours following a 0.3 mg/kg subcutaneous injection in cats. The volume of distribution (Vol.4) in cats is approximately 221 Mg, with an estimated total systemic clearance of 0.013 L/hr/kg. The drug is 97% bound to feline plasma proteins.

Cats: The effectiver ess of meloxicam injection was demonstrated in a masked field study involving a total of 138 cats representing various breeds. This study used butorphanol as an active control. Cats received either a single subcutaneous injection of 0.3 mg/kg meloxicam injection or 0.4 mg/kg butorphanol prior to onychectomy, either alone or in conjunction with surgical neutering. All cats were premedicated with acepromazine, induced with propofol and maintained on isoflurane. Pain assessment variables evaluated by veterinarians included additional pain intervention therapy, gait/lameness score, analgesia score, sedation score, general impression score, recovery score, and visual analog scale score. Additionally, a cumulative pain score, which was the summation of the analgesia, sedation, heart rate and respiratory rate scores was evaluated.

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A palpometer was used to quantify the pain threshold.
A substantial number of cats required additional intervention in the 0-24 hour post-surgical period, with the majority of these interventions taking place within the first hour. Therefore, the percentage of cats in each group that received one or more interventions was designated as the primary assessment variable. Approximately half of the cats in each group received a pair intervention as a result of the first (time 0) post-surgical evaluation, i.e., extubation. At this point, the need to provide a pain intervention was not statistically significant between the two groups (p-0,715). However, the median number of interventions was one per cat in the meloxicam group and two per cat in the butorphanol group and this difference was statistically significant (p-0,0021). The statistical evaluation supports the conclusion that the meloxicam test article is non-inferior to the butorphanol active control. Forty-eight of the 72 cats in the meloxicam group received one or more interventions (66.7%), and 47 of 66 cats in the butorphanol group received one or more interventions (71.2%). The number of interventions administered to the meloxicam group was less than the butorphanol group at 1, 3, 5, 8, 12, and 24 hours post-surgery.

Cats receiving meloxicam injection showed improvement in the pain assessment variables.

Animal Safety

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Cats: 3 Day Target Animal Safety Study - In a three day safety study, subcutaneous meloxicam injection administration to healthy cats at up to 1,5 mg/kg (5X the recommended dose) resulted in vomiting in three cats (1 of 6 control cats and 2 of 6 cats in 5X) and loose stook in four cats (2 of 6 control cats and 2 of 6 cats in 5X). Fecal occult blood was detected in ten of the twenty four cats, including two cats in the control group. This was not a dose-related event.

Clinically significant hematologic changes seen included increased PT and APTT in two cats (1 of 6 control cats and 1 of 6 cats in 5X), and elevated white blood cell counts in cats having renal or GI tract lesions. Serum chemistry changes observed included decreased total protein in four of 24 cats (1 of 6 cats in 1X, 2 of 6 cats in 3X and 1 of 6 cats in 5X), concomitant increases in blood urea nitrogen (BUN) and creatinine values in 2 of 6 cats in 5X.

Histological examination revealed gastrointestinal lesions ranging from inflammatory cell infiltration of the mucosa of the Giractic resoins. Mesenteric Miphaderopathy and identified in 1 of 6 cats in 1X, Rand changes ranged from dilated mediulary (2 of 6 cats in 1X, 1 of 6 cats in 3X, and 1 of 6 cats in 3X, and 1 of 6 cats in 3X, and 3 of 6 or fibrosis (2 of 6 cats in 3X and 2 of 6 cats in 5X) of the interstitium to necrosis of the tip of the papilla (5 of 6 cats in 5X).

Subsequent oral dosing - In a nine day study with three treatment groups, meloxicam injection was given as a single subcutaneous injection using doses of 0 mg/kg Isalin injection, 102 mg/kg and 105 mg/kg on 20 kg Mg/kg Mg/kg on 20 kg Mg/kg Mg/ cet. The gross necropsy report includes observation of reddened GI mucosa in 3 of 4 cats in the QS mg/kg group and 1 of 4 cats in the QS mg/kg group. All saline-treated cats were normal. By Day 9, one cat in both the QS mg/kg group and the Da mg/kg group and the Da mg/kg group day and mg/kg group and the QS mg/kg group and the Da mg/kg group was morbund. The cause of death for these cats could not be determined, allowing the pathologic reported pyloric/duodenal ulceration in the cats in Q6 mg/kg group. The safety studies demonstrate a narrow margin of safety.

Injection Site Tolerance - Histopathology of the injection sites revealed hemorrhage and inflammation, myofiber atrophy, pamicultis, fibrin deposition, and fibroblast proiferation. These findings were present in cats in all groups, with the 3X cats having the most present. No safe repeat dose has been established in cats.

Storage Information: Store at controlled room temperature, 68-77°F (20-25°C), Use within 180 days of first puncture and puncture a maximum of 51 times.

How Supplied: Loxicom 5 mg/mL Solution for Injection: 10 mL and 20 mL vial

Slingsby L.S., A.E. Waterman-Pearson. Companison between meloxicam and carprofen for perative analgesia after feline ovariohysterectomy. Jour of Small Anim Pract (2002)43:286-289.

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