Isolated, innervated guinea pig preparations were also used to study the effects of DMSO on skeletal, smooth muscle contractions, heart rate or coronary flow, although high intravenous doses in the rat and cat resulted in a temporary but marked local reaction which would occur. This was due to the ability of DMSO to carry these high doses, and was noted to result in increased permeability of vessels and capillaries (34).

In most cases the local irritation of the skin characterized by erythema, vesicle or blister formation and scurfing appears even with continued treatment. This phenomenon has been described as “accommodation” or “hardening” of the skin, and has been noted with other solvents.

The unidified compound has low toxicity but a marked local necrotizing and inflammatory effect when it comes in contact with the skin. In rat, the subcutaneous injection of 10 g/kg of the intravenous injection of 2.5 g/kg of undiluted DMSO for 2 weeks showed no definite indication of systemic toxicity. The local necrotizing effects produced at these dose levels, however, prevented a longer period of treatment.

When toxicity was altered by DMSO it increased in all instances except one (22). No significant hematologic or biochemical changes were noted in 3 dogs receiving 0.4 g/kg for 33 days (24). Another study was conducted in the dog to determine the effects of DOMOSO Solution at a total daily dose of 20–60 mL administered topically for 21 consecutive days. No clinically meaningful ophthalmological effects were noted.

In rabbits, the application of 70% DMSO, adjacent to but not on the wound incision site, appeared to increase in vitro metabolism of corticosterone by rat liver slices is not affected by the intravenous administration of 100 mg DMSO/kg body weight during the 7 subsequent days.

In summary, DOMOSO Gel is recommended as a topical application to reduce acute swelling due to trauma.
ADMINISTRATION AND DOSAGE
DOMOSO Gel should be administered topically to the skin over the affected area. Doses may be adjusted according to individual needs. For topical application, use a sterile swab or cotton tip applicator to apply a thin layer of the gel directly to the affected area. The gel should be applied twice daily or as directed by the veterinarian.

SIDE EFFECTS

In general, adverse reactions are local, and while they may prove to be annoying to some patients, they are usually not of a serious nature. Upon topical application, an occasional animal may develop transient erythema, associated with local “burning” or “smarting.” Even when erythema or vasoconstriction occurs, they are self-limiting, reversible states, and not necessarily an indication to discontinue medication. Dryness of the skin and an oyster-like breath odor have been reported. These effects are temporary and are not considered to be of serious consequence. Changes in the refractive index of the lenses of the eye and nuclear cataracts have been observed in animals, with the use of this drug. This appears to be related to dosage and duration of therapy.

PRECAUTIONS AND CONTRAINDICATIONS

Contact between DOMOSO Gel and the skin should be avoided. Rubber gloves should be worn while applying this drug. Forcemeats and seams may be used to facilitate application. If absorbed through the skin, DOMOSO Gel may cause odorous breath and unpleasant mouth taste. Mild sedation or drowsiness, sensations of warmth, burning, itching, and mild erythematous localized or generalized dermatitis have been reported in some persons following exposure to DOMOSO Gel. Treatment of such side effects is symptomatic. Consult a physician immediately if adverse effects appear.

DOMOSO Gel may mask certain disease signs such as seen in fractures, etc.; this does not obviate the need for specific therapy in such conditions.

Since DOMOSO Gel effectively alters the biologic membrane, it will in some cases facilitate the systemic absorption of other topical applied drugs and may have a potentiating effect on drugs administered systemically.

DOMOSO Gel should be judiciously used when administered in conjunction with other pharmaceutical preparations, especially those affecting the cardiovascular and central nervous systems.

DOMOSO Gel may enhance the absorption of other materials into the skin. The veterinarian should make certain that other medications are not present prior to its application.

Keep DOMOSO Gel out of the reach of children.

DOMOSO Gel is recommended for topical application only. DO NOT ADMINISTER BY ANY OTHER ROUTE.

DOMOSO Gel should not be used under occlusive dressings.

DOMOSO Gel is contraindicated in horses and dogs intended for breeding purposes.

DOMOSO Gel is a potent solvent and may have a deleterious effect on fabrics, plastics and other materials. Care should be taken to prevent physical contact with DOMOSO Gel.

DOMOSO Gel should not be administered to horses that are to be slaughtered for food.

CAUTION: HYDROSCOPIC, CLOSE CAP TIGHTLY AFTER USE. AVOID FREEZING, DUE TO THE RAPID ABSORPTION OF OTHER TOPICALLY APPLIED DRUGS AND MAY HAVE A POTENTIATING EFFECT ON DRUGS ADMINISTERED SYSTEMICALLY.

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