

meloxi-care[™] oral suspension



Easy, Long Lasting, Proven Pain Relief.



PARNELL[®]
living SCIENCE



meloxi-care[™] oral suspension

Easy to administer, long lasting,
proven NSAID for pain control
in Cattle

Now
available in
Australia



Easy, Long Lasting, Proven Pain Relief.

A **WELFARE** Revolution in Pain Relief

- | | |
|---------------------------------------|---------------|
| ✓ Proven active (Meloxicam 15mg/ml) | ✓ Fast acting |
| ✓ No injection site abscesses or pain | ✓ Palatable |
| ✓ Long lasting pain relief | ✓ Easy to use |



Indications for use of **meloxi-care™** oral suspension



Analgesia and anti-inflammatory effects during painful/stressful procedures

- | | | | | | | | | |
|---------------|-----------|---|------------|---|------------|---|----------|---|
| Calves: | Dehorning | ✓ | Disbudding | ✓ | Castration | ✓ | Branding | ✓ |
| Adult Cattle: | Dystocia | ✓ | Surgery | ✓ | Lameness | ✓ | Mastitis | ✓ |

Evidence Based, Long Lasting Pain Relief



Article

A Comparative Pharmacokinetic Analysis of Oral and Subcutaneous Meloxicam Administered to Postpartum Dairy Cows

Daniel Shock ^{1,*}, Steven Roche ¹ and Merle Olson ²

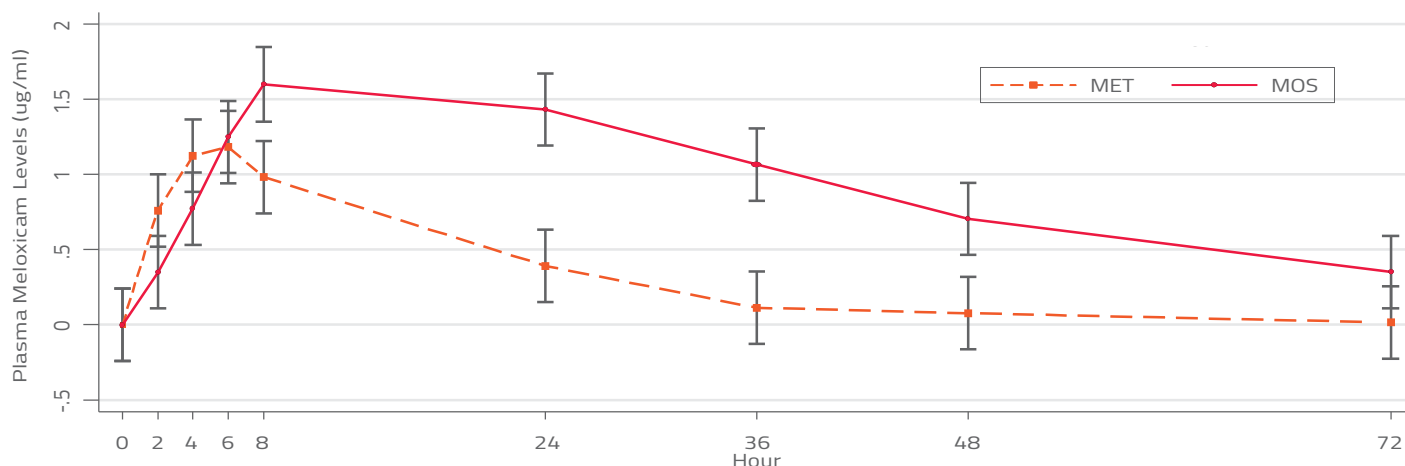
¹ ACER Consulting, Guelph, ON N1G 5L3, Canada

² Alberta Veterinary Laboratories, Calgary, AB T2E 6J7, Canada

* Correspondence: dshock@acerconsult.ca

Vet. Sci. 2019, 6, 73; doi:10.3390/vetsci6030073 www.mdpi.com/journal/vetsci

Subcutaneous Injectable Meloxicam (MET) vs Meloxicam Oral Suspension (MOS)



Mean Therapeutic Duration		
Injectable Meloxicam (MET)	13.5 hrs (0.7 ug/ml)	45.8 hrs (0.2 ug/mL)
Meloxicam Oral Suspension (MOS)	30.3 hrs (0.7 ug/mL)	93.0 hrs (0.2 ug/mL)

- **meloxi-care™** oral suspension duration of activity is 2X greater than injectable.
- **meloxi-care™** oral suspension reaches therapeutic levels within 15 minutes, and maintains efficacy for greater than 72 Hours.



Easy, Long Lasting, Proven Pain Relief.

Evidence Based Herd Benefits

RESEARCH ARTICLE

Evaluating the impact of meloxicam oral suspension administered at parturition on subsequent production, health, and culling in dairy cows: A randomized clinical field trial

Total study group: 2,653 cows.
Treatment group: 1,009 cows.
Control group: 1,644 cows.

Reduced Culling/Death risk

meloxi-care™ oral suspension treated cows had a approximate 40% reduction in the up to 60 day culls. (P = 0.013)

Reduction of SC Mastitis

meloxi-care™ oral suspension treated cows had a 15% reduction in risk of subclinical mastitis. (P = 0.001)

Improved Milk Weights

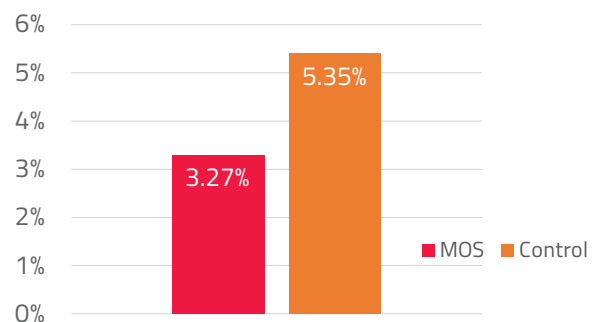
meloxi-care™ oral suspension treated cows produced 0.64 kg/day more milk over 3 consecutive test days, greater than 30 days apart. (P = 0.03)

Daniel A. Shock^{1*}, David L. Renaud^{1,2*}, Steven M. Roche^{1,2*}, Robert Poliquin^{3†}, Roger Thomson^{3†}, Merle E. Olson^{3†}

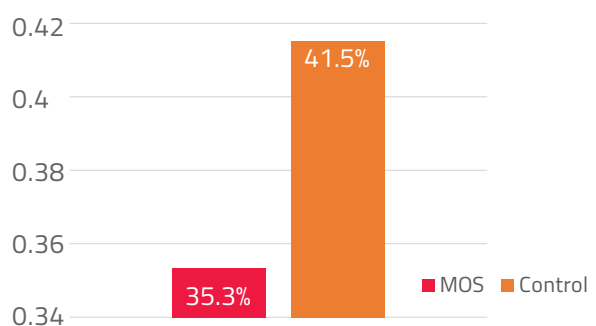
1 Agricultural Communications and Epidemiological Research (ACER) Consulting, Guelph, Ontario, Canada, **2** Department of Population Medicine, University of Guelph, Guelph, Ontario, Canada, **3** Solvet Animal Health, Calgary, Alberta, Canada

PLOS ONE | <https://doi.org/10.1371/journal.pone.0209236> December 12, 2018

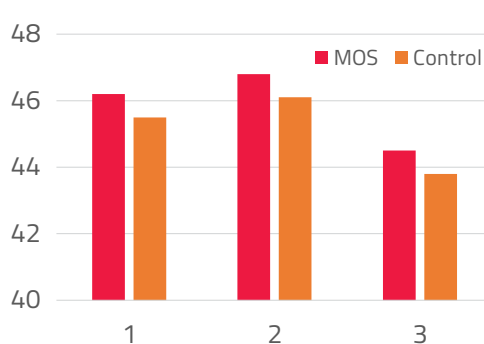
Exits (culls + deaths) in the 1st 60 DIM



Percentage of cows with Subclinical Mastitis



Test Day Milk Weight (kg)



WELFARE Benefits for Calves

BMC Veterinary Research

RESEARCH ARTICLE

Open Access



Efficacy of oral meloxicam suspension for prevention of pain and inflammation following band and surgical castration in calves

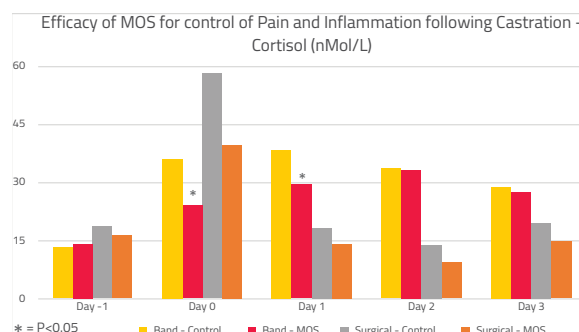
M. E. Olson^{1*}, Brenda Ralston², Les Burwash², Heather Matheson-Bird³ and Nick D. Allan⁴

Olson et al. BMC Veterinary Research (2016) 12:102
DOI 10.1186/s12917-016-0735-3

- meloxi-care™** oral suspension provides proven **WELFARE** benefits for calves undergoing painful procedures.

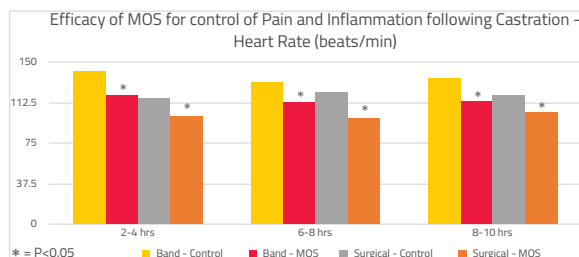
Efficacy of MOS for control of Pain and Inflammation following Castration - Cortisol (nMol/L)				
	Band -		Surgical -	
	Control	MOS	Control	MOS
Day -1	13.2	14.2	18.7	16.4
Day 0	36.1	23.9*	58.0	39.6
Day 1	38.4	29.6*	18.2	14.1
Day 2	33.6	33.4	13.7	9.3
Day 3	28.7	27.6	19.6	14.9

* = P<0.05



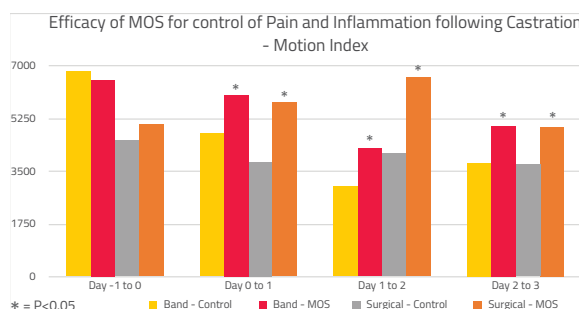
Efficacy of MOS for control of Pain and Inflammation following Castration - Heart Rate (beats/min)				
	Band -		Surgical -	
	Control	MOS	Control	MOS
2-4 hrs	141.2	119.3*	116.6	100.2*
6-8 hrs	131.3	112.9*	122.9	98.4*
8-10 hrs	134.8	113.3*	119.0	103.2*

* = P<0.05



Efficacy of MOS for control of Pain and Inflammation following Castration - Motion Index				
	Band -		Surgical -	
	Control	MOS	Control	MOS
Day -1 to 0	6835	6563	4510	5066
Day 0 to 1	4778	6041*	3836	5786*
Day 1 to 2	3001	4255*	4114	6639*
Day 2 to 3	3769	5030*	3748	4985*

* = P<0.05



- meloxi-care™** oral suspension demonstrates efficacy for up to 72 hours by:

Physiology:

Reduced Heart Rate



Reduced Plasma Cortisol



Reduced Substance P



Behaviour:

Increased pen movement



Less time lying



Decreased VAS



(VAS=Visual indicators of pain)

Inflammation:

Reduced scrotal swelling



Easy, Long Lasting, Proven Pain Relief.

Ease of delivery for calves



The Effect of Delivery Method on the Pharmacokinetic Properties of Meloxicam in Pre-Weaned Dairy Calves with Diarrhea

Daniel Shock¹, Steven Roche^{1*}, Denis Nagel², Merle Olson²

¹ACER Consulting, Guelph, Canada

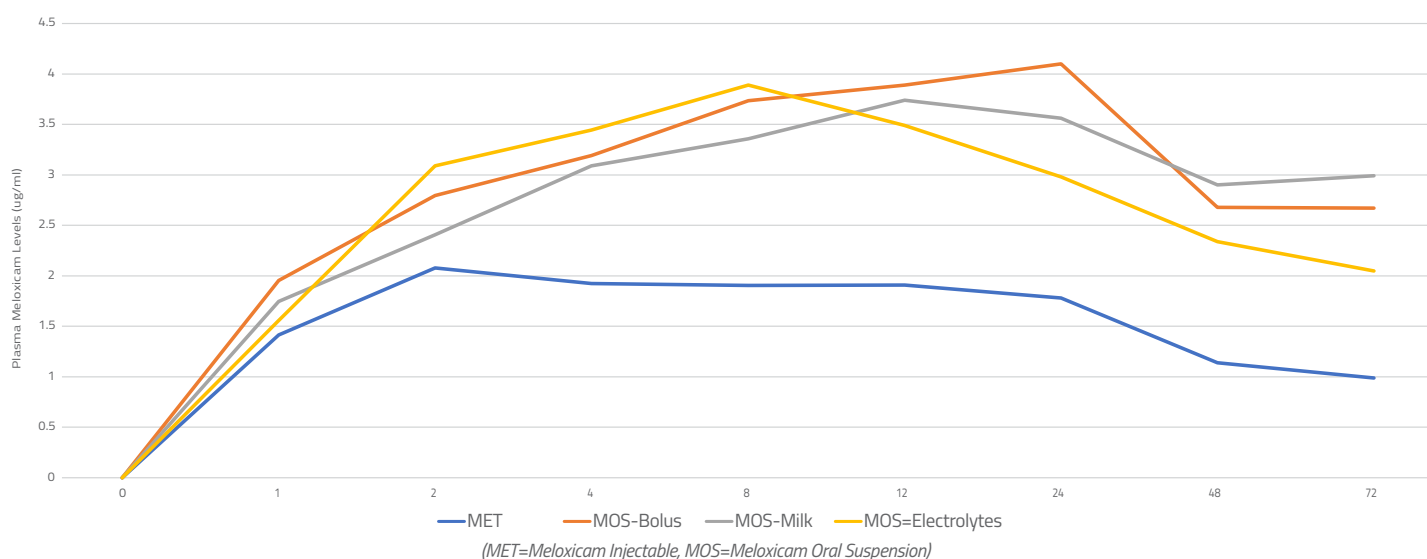
²Alberta Veterinary Labs/Solvat Inc., Calgary, Canada

DOI: 10.4236/ojvm.2020.103003 Feb. 28, 2020 Open Journal of Veterinary Medicine

- Can I treat scours by putting **meloxi-care™** oral suspension into the milk/electrolyte?



Comparison of Meloxicam Blood Levels in Scouring Calves Over Time



meloxi-care[™] oral suspension

- Pain can affect productivity and reproductive performance.
- Control of pain and inflammation are necessary components of good animal welfare.
- ***meloxi-care***[™] oral suspension provides longer duration of activity than meloxicam inj.
 - Only one treatment is recommended.
- ***meloxi-care***[™] oral suspension has proven herd benefits.
- Benefits of ***meloxi-care***[™] oral suspension are not affected by method of delivery

1. Improved Animal Welfare



2. Reduced Risk of Mastitis



3. Reduced Risk of Culling



4. Improved Production



Parnell Living Science
Unit 4. Century Estate
476 Gardeners Road
Alexandria NSW 2015
Australia
E: infoanz@parnell.com

parnell.com

