

# *meloxi-care*<sup>TM</sup> oral suspension



Easy, Long Lasting, Proven Pain Relief.



**PARNELL**<sup>®</sup>  
living SCIENCE





# *meloxi-care*<sup>™</sup> 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

- |                      |           |   |            |   |            |   |          |   |
|----------------------|-----------|---|------------|---|------------|---|----------|---|
| <b>Calves:</b>       | Dehorning | ✓ | Disbudding | ✓ | Castration | ✓ | Branding | ✓ |
| <b>Adult Cattle:</b> | 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 <sup>1,\*</sup>, Steven Roche <sup>1</sup> and Merle Olson <sup>2</sup>

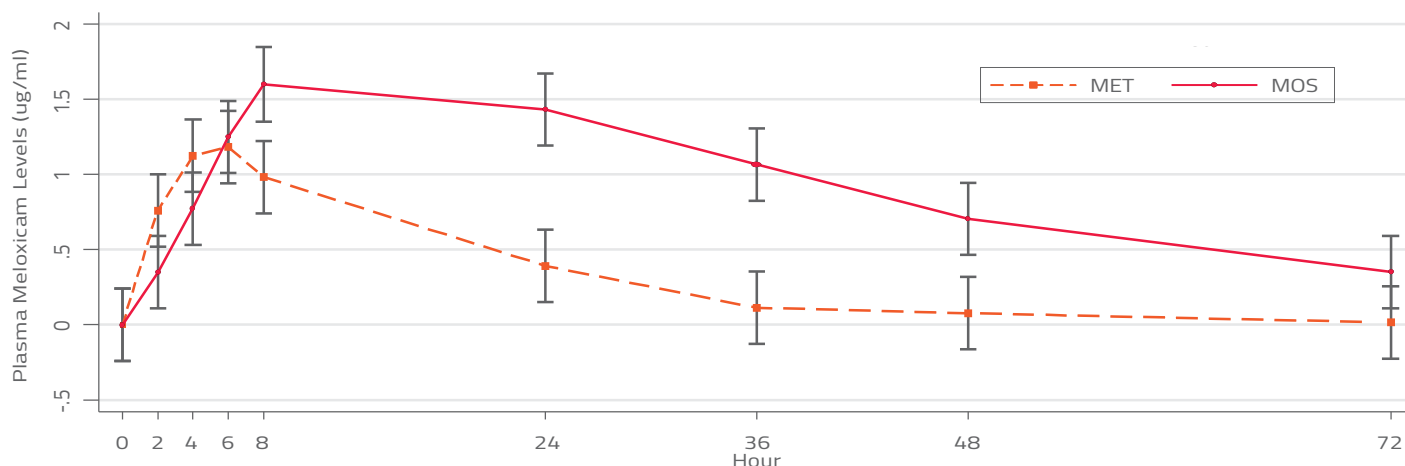
<sup>1</sup> ACER Consulting, Guelph, ON N1G 5L3, Canada

<sup>2</sup> 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.



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# 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

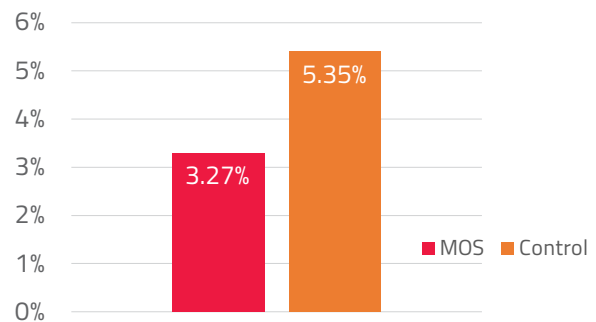
**meloxi-care™** oral suspension treated cows produced 0.64 kg/day more milk over 3 consecutive test days, greater than 30 days apart. (P = 0.03)

Daniel A. Shock<sup>1\*</sup>, David L. Renaud<sup>1,2\*</sup>, Steven M. Roche<sup>1,2\*</sup>, Robert Poliquin<sup>3†</sup>, Roger Thomson<sup>3†</sup>, Merle E. Olson<sup>3†</sup>

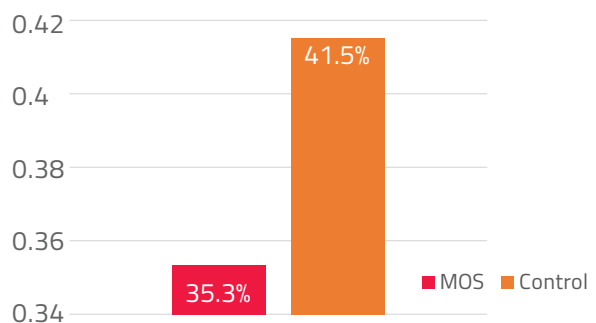
**1** Agricultural Communications and Epidemiological Research (ACER) Consulting, Guelph, Ontario, Canada, **2** Department of Population Medicine, University of Guelph, Guelph, Ontario, Canada, **3** Solvet Animal Health, Calgary, Alberta, Canada

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

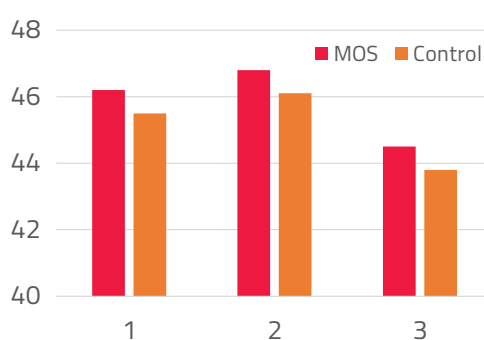
Exits (culls + deaths) in the 1st 60 DIM



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

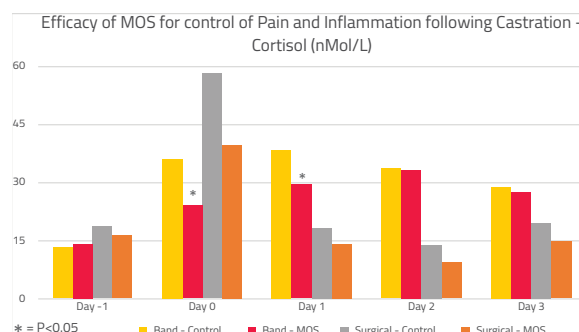
M. E. Olson<sup>1\*</sup>, Brenda Ralston<sup>2</sup>, Les Burwash<sup>2</sup>, Heather Matheson-Bird<sup>3</sup> and Nick D. Allan<sup>4</sup>

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.

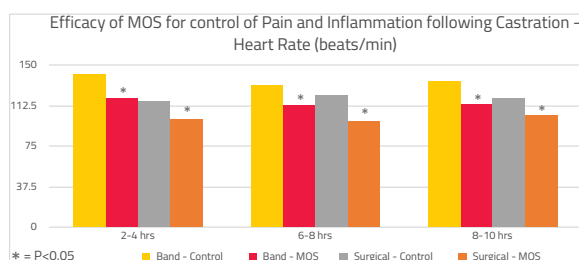
Efficacy of MOS for control of Pain and Inflammation following Castration - Cortisol (nMol/L)				
	Band -		Surgical -	
	Control	MOS	Control	MOS
Day -1	13.2	14.2	18.7	16.4
Day 0	36.1	23.9*	58.0	39.6
Day 1	38.4	29.6*	18.2	14.1
Day 2	33.6	33.4	13.7	9.3
Day 3	28.7	27.6	19.6	14.9

\* = P<0.05



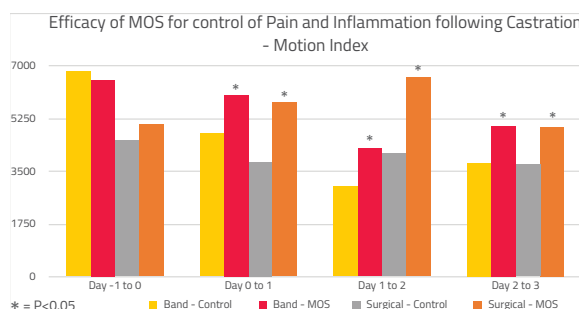
Efficacy of MOS for control of Pain and Inflammation following Castration - Heart Rate (beats/min)				
	Band -		Surgical -	
	Control	MOS	Control	MOS
2-4 hrs	141.2	119.3*	116.6	100.2*
6-8 hrs	131.3	112.9*	122.9	98.4*
8-10 hrs	134.8	113.3*	119.0	103.2*

\* = 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



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# Ease of delivery for calves



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

Daniel Shock<sup>1</sup>, Steven Roche<sup>1\*</sup>, Denis Nagel<sup>2</sup>, Merle Olson<sup>2</sup>

<sup>1</sup>ACER Consulting, Guelph, Canada

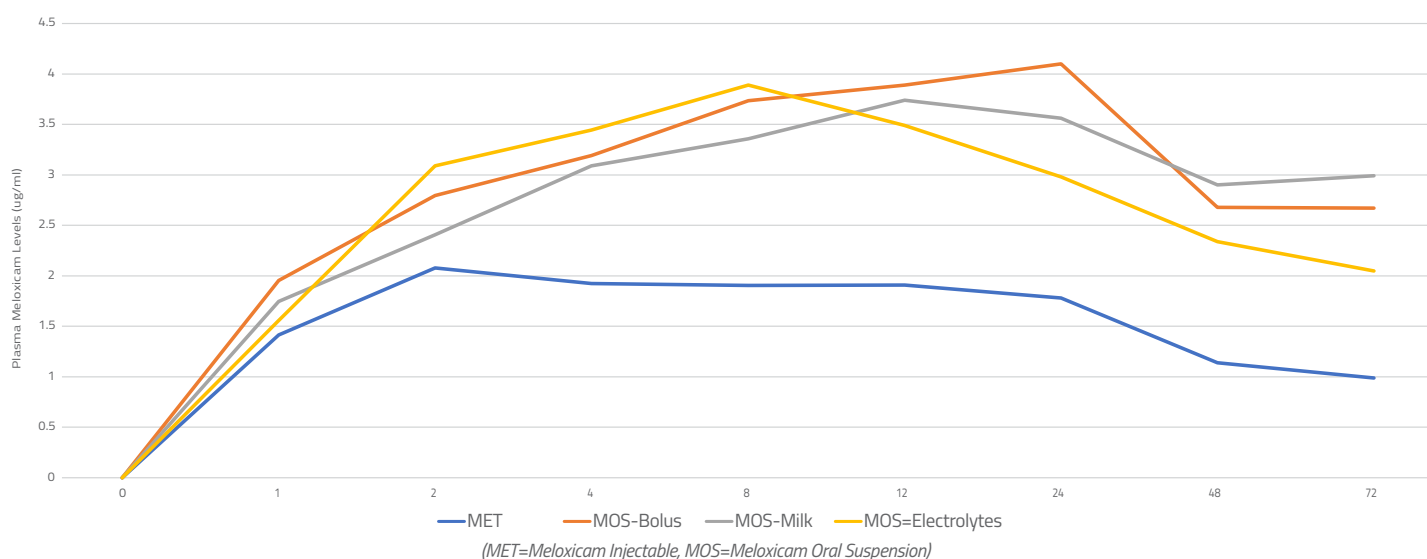
<sup>2</sup>Alberta Veterinary Labs/Solvat Inc., Calgary, Canada

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***<sup>TM</sup> oral suspension

- Pain can affect productivity and reproductive performance.
- Control of pain and inflammation are necessary components of good animal welfare.
- ***meloxi-care***<sup>TM</sup> oral suspension provides longer duration of activity than meloxicam inj.
  - Only one treatment is recommended.
- ***meloxi-care***<sup>TM</sup> oral suspension has proven herd benefits.
- Benefits of ***meloxi-care***<sup>TM</sup> 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



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