

ARMENTA

Caring for your herd

Lifting the burden of bovine mastitis with a unique, udder-based, non-antibiotic treatment.



Armenta is an agritech company dedicated to developing innovative solutions that transform the standard care of dairy cattle, with a focus on mastitis and its impact on the profitability of dairy farming.

APT Clinical Studies: Milk Quality, Yield, and Herd Culling

6 countries

Cows with clinical or sub-clinical mastitis in 6 countries were treated with APT.

3 years

The current Armenta treatment program was developed over three years

300+ cows

It is based on results from more than 300 cows treated with APT.

Sub-clinical Mastitis (>1,000,000 cells/ml)		Clinical Mastitis	
Armenta APT	Control (No Treatment)	Armenta APT	Control (Antibiotics)
311	86	36	32

Higher Milk Yield



206 cows
with
sub-clinical
mastitis



80 Days

● APT
treatment group
(n = 163)

● Untreated
control group
(n = 43)



46 cows
with
clinical
mastitis



50 Days

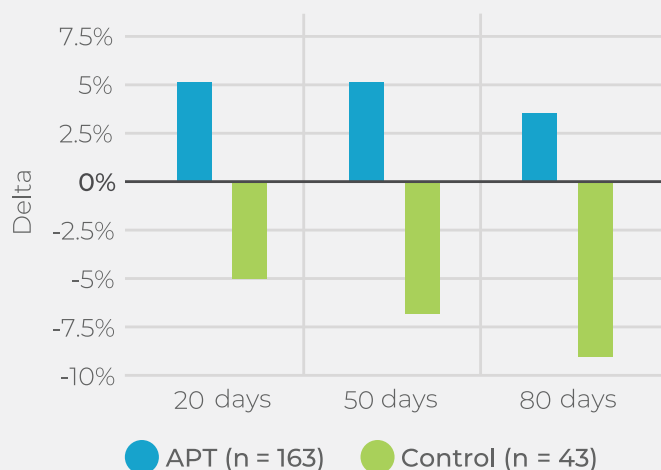
● APT
treatment group
(n = 13)

● Antibiotics
group
(n = 33)

Sub-clinical Mastitis:

Daily milk yield from time of treatment

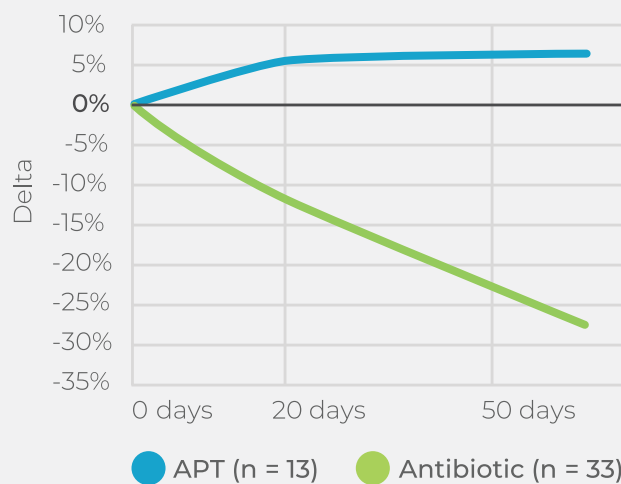
*Day in milk was similar in both groups



Clinical Mastitis:

Sum of milk yield from time of treatment

*Not including the discarded milk due to antibiotics



The reduction in the bulk tank milk is due to: Culling, Drying of quarter, Reduced milk production after recovery.

The Impact: Higher Productivity

>10% increase in daily milk yield over no treatment and >30% in total milk production

Expert Testimonial

Dr. Todd A. Whitehead, DVM, USA

"The equipment performed well, the treatments were simple to administer, the cattle showed minimal resistance, and the Armenta team was knowledgeable and professional. With 70% of the treated animals showing a decrease in SCC, APT appears to be a viable alternative in the treatment of mastitis in dairy cattle."



Higher Milk Quality



397 cows
with
sub-clinial
mastitis

**APT
treatment group**
(n = 311)

**Untreated
control group**
(n = 86)



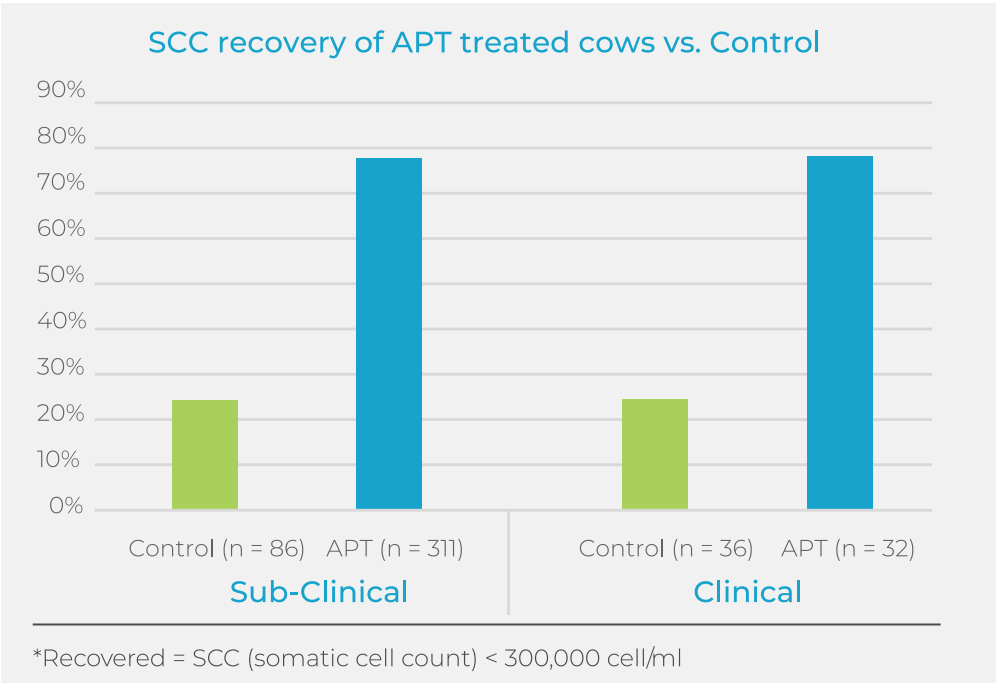
68 cows
with
clinical
mastitis

**APT
treatment group**
(n = 32)

**Antibiotics
group**
(n = 36)



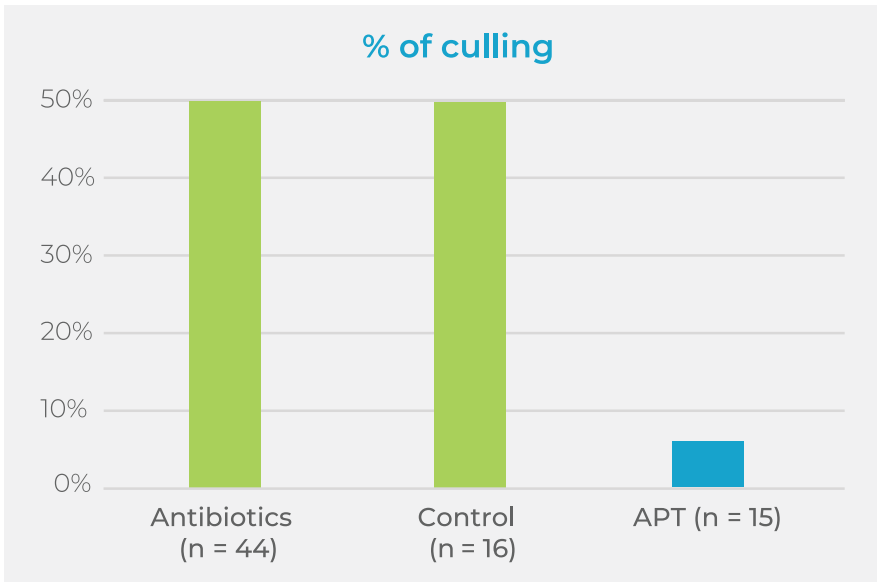
60 Days



The Impact: Better Milk

>70% curing the inflammation regardless Clinical or Sub-Clinical Mastitis

Lower Culling Rates





75 cows



80 Days

identified with clinical
mastitis (visually or due to SCC
elevations > 1,000,000 cell/ml)

**APT
treatment group**
(n = 15)

Antibiotics
(n = 44)

Control
(n = 16)

The Impact: Less Forced Culling

Using APT; over 80% decrease in culling rates

Antibiotics are No Longer the Answer

Clinical and sub-clinical mammary infections affect 20-40% of dairy cows, placing a major economic burden on farmers due to a reduced yield, poor quality milk, and increased forced culling. Traditional treatments have low cure rates and global legislation is mandating a reduced use of antibiotics in animal farming.

An Alternative is Urgently Needed.

Acoustic Pulse Technology (APT or shockwave Technology), widely used in the medical field for more than 20 years, triggers biological responses that help fight a variety of human inflammatory diseases.

Could this non-antibiotic treatment be used for bovine mastitis, as well?

Armenta said “YES!” and designed a unique APT-based device to treat dairy cows rapidly, easily, and cost-effectively.

The Armenta APT Solution: Fast, Simple, Effective



3 treatments



3 minutes per treatment



400 acoustic pulses each time



2-day intervals between sessions



Large and deep application zones



2 locations on the udder



A compressed air energy source



Therapy completed in one week

Over 70% Recovery and 10% Increased Milk Yield

Armenta's APT treatment was administered successfully to over 600 cows with clinical and sub-clinical mastitis. The results were clear: over 70% mastitis recovery rates (normalized SCC and infection-free), an increased milk yield of around 10%, and a marked reduction in culling rates.

Armenta's APT is a Dairy Farming Game-Changer

- Disruptive technology
 - Effective on both clinical and sub-clinical mastitis
 - Normalizes the somatic cell count
 - Increases milk production
 - Reduces culling
 - Improves the dairy farm's profitability
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