



# The New Wave of Udder Health Management

## APT-X is an innovative, antibiotics-free solution using acoustic waves

The prevalence of udder infections on dairy farms ranges from 30-40% during lactation, and treatment is primarily by antibiotics.

### Mastitis is the leading cause of profitability losses in the herd

Udder infections reduce milk yield and quality, and increase the need for culling.

### APT - Proven effectiveness

Thousands of cows with clinical and subclinical mastitis have been successfully treated at commercial dairies, proving the benefits of using the APT-X device.

APT treatments immediately improve herd profitability, reducing costs and increasing income as a result of lower SCC levels, higher milk yield per cow, improved bulk-tank milk quality, and less involuntary culling.



Easy to use



Higher quality & saleable milk



Uses green energy



Safe, non-invasive and painless



Rapid restoration of udder function



Short duration of treatment

## APT-X is an acoustic wave-based solution for treating bovine mastitis. Without any antibiotics.

This unique solution, designed to address the specific needs of the dairy farm, is based on acoustic pulse technology, widely used in the treatment of human patients.

Acoustic pulses trigger natural healing processes by:

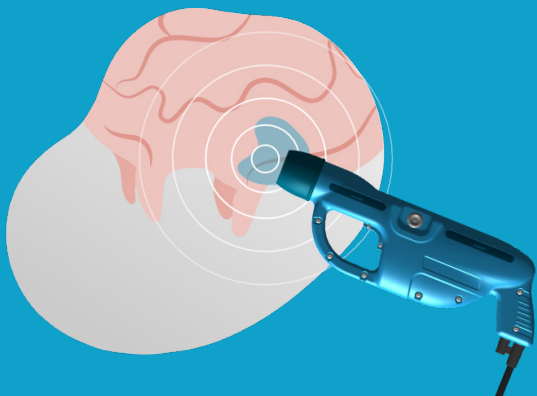
Releasing anti-inflammatory factors that lower somatic cell counts



Generating new blood vessels that increase milk production



Stimulating the immune system to eliminate invasive bacteria

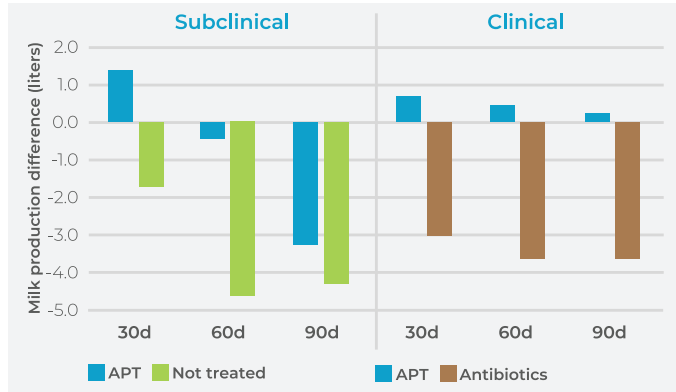


# APT Results from Commercial Dairies\*

APT reduces the somatic cell count in milk, increases milk yield, and decreases involuntary culling.

## APT increases the cow's daily milk production ●

The difference in daily milk production (in liter/lbs). Clinical cows treated with antibiotics and untreated subclinical cows compared to cows treated with APT.



Subclinical and clinical cows treated with APT produced more milk.

### Clinical:

Milk/day: An average of 3.9 liters/8.58 lbs more than the cows treated with antibiotics.

Total milk quantity: 33% more milk into the tank (not including discarded milk due to antibiotics).

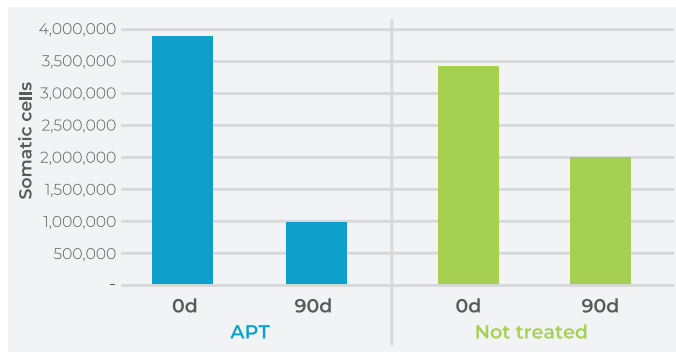
### Subclinical:

Milk/day: An average of 2.7 liters/5.94 lbs more than the untreated group.

Total milk quantity: 7% more milk into the tank

## APT increases the quality of bulk-tank milk ●

Somatic cell contribution to the tank. Untreated cows versus cows treated with APT.



APT treatments rehabilitate the udder, producing higher quality milk than untreated cows.

### Somatic cells in the tank:

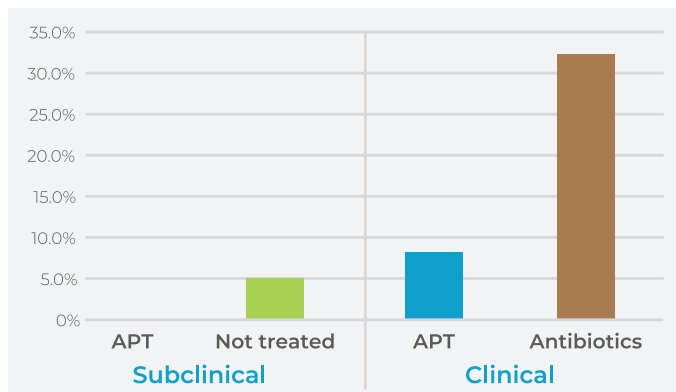
74% decrease in somatic cell count with APT, as opposed to a 41% decrease without treatment.

### Percentage of cows with SCC under 250,000 cells/mL:

65.5% with APT as compared to 35.6% of the untreated cows. In addition, the milk yield of cows treated with APT was higher than that of the untreated cows and increased the quality of the milk in the tank.

## ● APT reduces involuntary culling

Culling due to mastitis – 90 days after treatment (%)



APT treatments reduce involuntary culling due to udder infections and increase herd profitability.

**Clinical:** 8.5% culling of cows treated with APT, as opposed to 32.2% of those treated with antibiotics.

**Subclinical:** None (0%) culling of cows treated with APT, as opposed to 5.1% of those untreated.

“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.”

Dr. Todd A. Whitehead, DVM, USA

\* Based on a study of 236 cows in commercial dairy farms.

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