

CINNATUBE – Dry Cow



Proven Effective
Single shot
Antibiotic Residue Free
Tested Worldwide
No blocked filters
No milk withhold
Complies with the PMO
Exempt from 15r of the PMO



FDA Evaluated and Permitted



The **ONLY** dry cow tube permitted in
Organic Production





What is Cinnatube?



A new form of Dry Cow Therapy with 20 years of research to back it up.



Formulated with essential plant based extracts., including Tea Tree Oil.



Achieves its primary purpose of preventing mastitis in the dry period by mimicking the cow's natural defence until involution complete.



Helps provides a natural barrier to new infection.

Why Cinnatube?



Effective and Proven - comparable to using sealant and antibiotic combination.



Antibiotic Residue Free.



Less risk of Trauma.



Tested & Reviewed in US and EU Research.



No blocked filters or hard to remove residues in the milk



No requirement for milk withdrawal or withhold



FDA evaluated and permitted – No demerit
under the PMO – Exempt from 15r of the PMO



ONE versus TWO

So how does ONE shot of Cinnatube compare to the TWO shot Current Gold Standard?



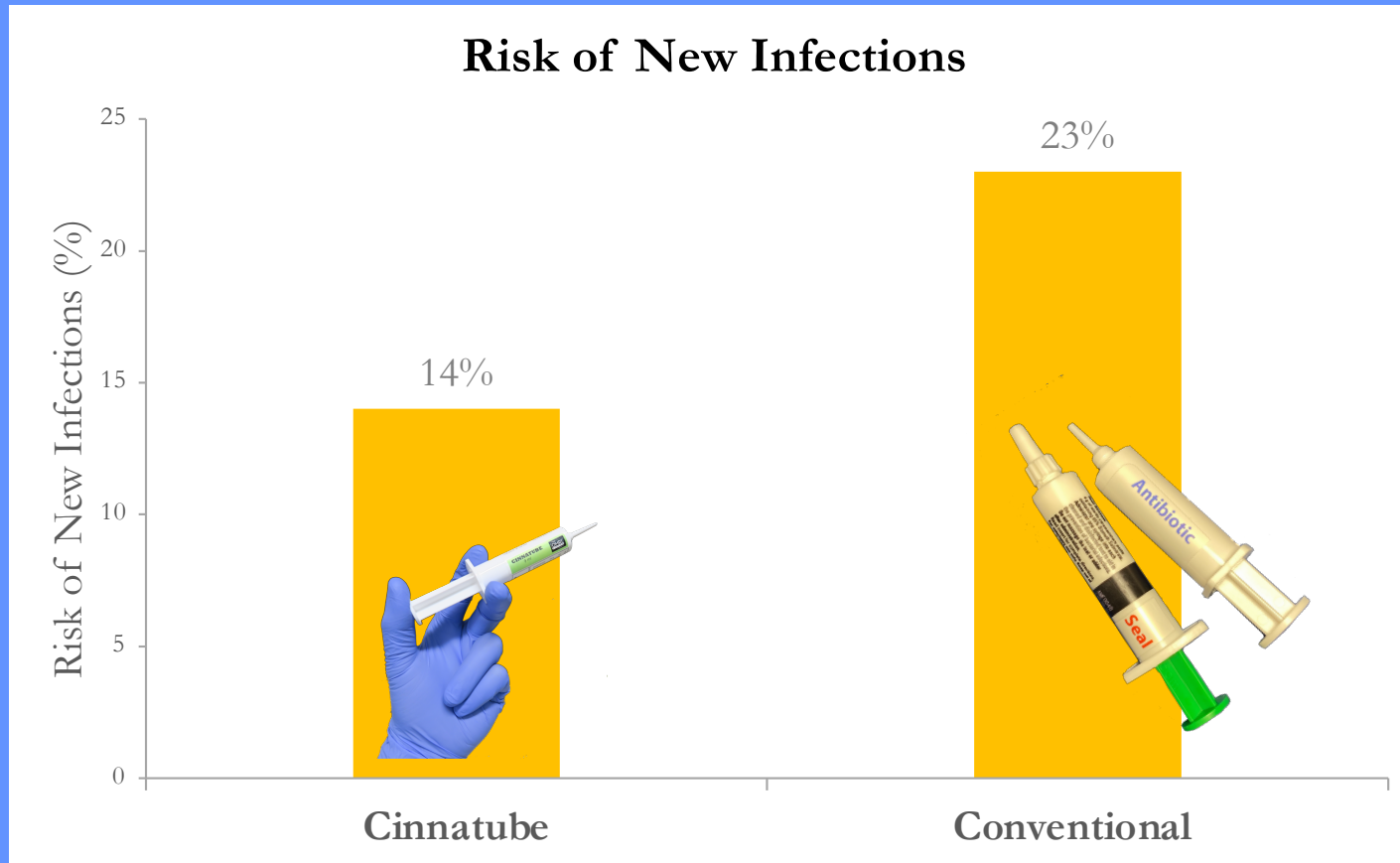
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USDA/SARE Funded Research

North Carolina State University
Published in Journal of Dairy Science

*Journal of
Dairy Science*
Official Publication of the American Dairy Science Association



Note - Conventional = The Current Gold Standard of Orbeseal and Quartermaster

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- “The risk of new infections for each treatment were $14\pm 7\%$ for CIN[Cinnatube]... $23\pm 20\%$ for CON[Quartermaster with Orbeseal]....Cinnatube appeared to have a protective effect versus new infections compared with no treatment...Cinnatube, was also effective at preventing future infectionseliminating the risk of antibiotic residues in milk/meat and by lowering the contribution of the dairy industry to the development of antibiotic-resistant bacteria.”
- Peer reviewed and published in the prestigious Journal of Dairy Science.
- Note this is no sponsor bias as the research was paid by USDA/SARE

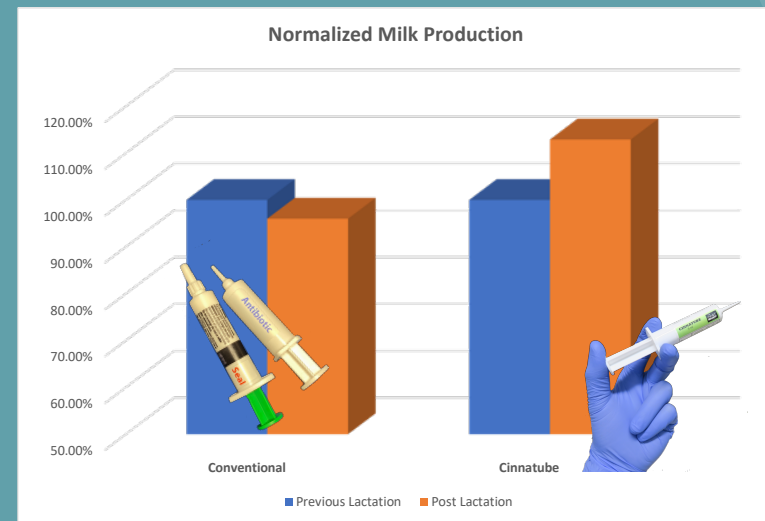
USDA/SARE Funded Research

North Carolina State University

- The researcher, Dr. Keena Mullen, noted,
- “The difference in milk production from the lactation Cinnatube is a more advantageous dry cow therapy than conventional antibiotic + teat sealant therapy because in this trial, **Cinnatube had no negative effect on SCC, had a similar cure rate to conventional therapy, and had a lower new infection rate than conventional therapy.**

USDA/SARE Funded Research North Carolina State University

- The researcher, Dr. Keena Mullen, noted,
- “....**Cinnatube- treated cows had higher milk production in the lactation following treatment whereas conventional-treated cows had lower milk production.**”

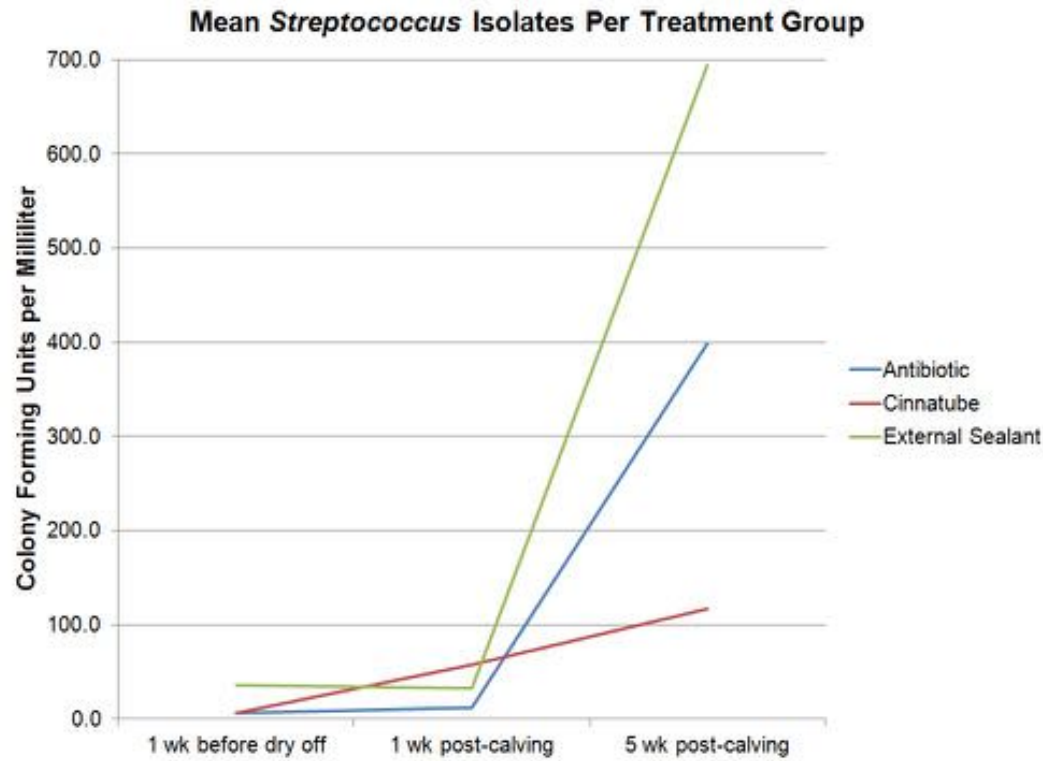


Meta Analysis of Teat Sealants

- “Use of internal teat sealants for preventing acquisition of new intramammary infections - **Regarding prevention of IMI acquisition over the dry period, we conclude with a high level of confidence that all ITS (bismuth subnitrate [Orbeseal]- and beeswax-based [Cinnatube]) are efficient at preventing IMI and would reduce risk of IMI incidence by roughly 52% compared with untreated quarters.**”
- Citation - Dufour, Simon, et al. "Non-antimicrobial approaches at drying-off for treating and preventing intramammary infections in dairy cows. Part 1. Meta-analyses of efficacy of using an internal teat sealant without a concomitant antimicrobial treatment." *Animal Health Research Reviews* 20.1 (2019): 86-97.

UK Research Work

Aberdeen University. E.K.S. Green, J.F. Robertson and E.J. Allan
Published in Proceedings of the British Mastitis Conference (2003)



Holsteins, treated with an antibiotic (Cephalosporin; Cepravin, Schering- Plough Animal Health), Cinnatube, or an external teat sealant (DryFlex, DeLaval Ltd.).

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