

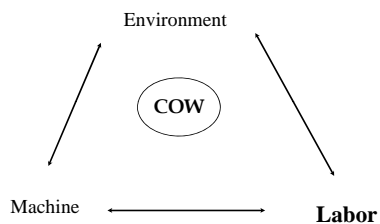
Functional milking equipment

**Milking Equipment Does Not  
Come With a Lifetime Warranty**

**Milking Machine Maintenance...  
getting it done!!!**

- Written Plan
- Who is Responsible?
- How often?
- What exactly should be done? (e.g. regulator)
- DOCUMENT!!!!

## Control Triangle



**Biggest Challenge in  
Mastitis Control**

Fine Tune Milking  
Practices

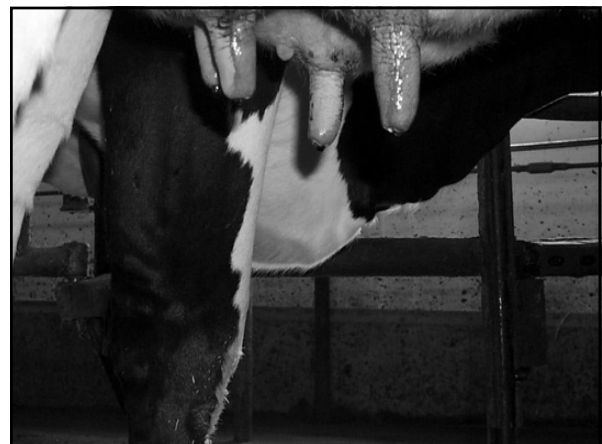
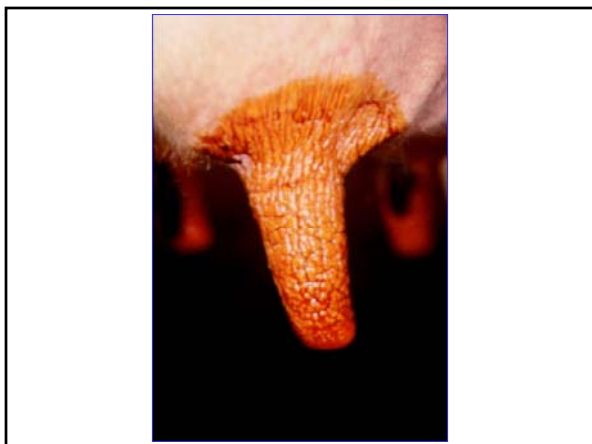
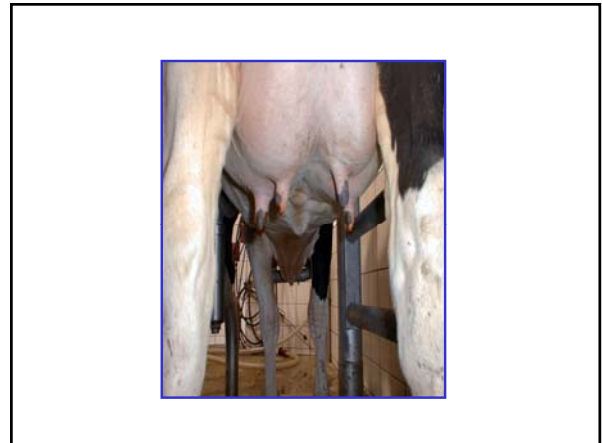
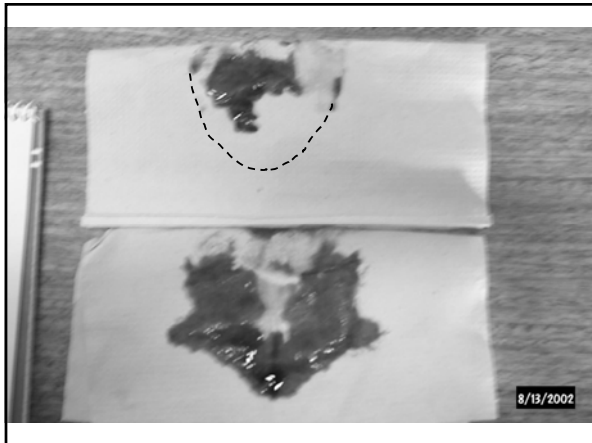
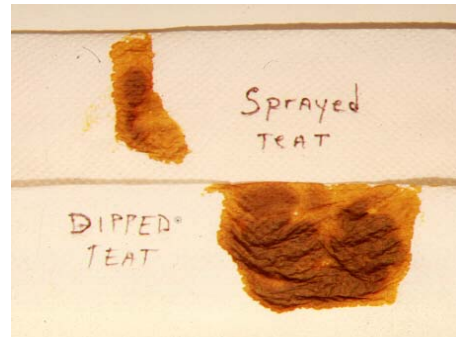
**“Milkability”**

The Goal is to Attach a  
Machine to a Clean,  
Dry, Well Stimulated  
Teat!

# The Routine

- Predip
- Strip
- Dry
- Attach
- Alignment
- Removal
- Postdip

Dip all teats after milking





### Best Ways to Reduce Bacteria on Teats Compared to No Udder Prep

Dry Towel Only	-4%
Wet Towel Only	-40%
Wet Towel + Udder Sanitizer	-44%
Wet Towel and Manual Dry	-77%
Wet Towel, Udder Sanitizer, and Manual Dry	-85%
Predip and Manual Dry	-85%

Source: Cornell University

### Natural Exposure Predip vs. No Predip % Reduction new IMI

* Staph Aureus	69.2%
* Environmental Streps	44.6%
* Strep Uberis	64.0%
* E Coli	43.7%
* Clinicals	26.3%

U of Tenn 15 months/423 cows



### 3

#### Treat clinical cases

- Type of infection
  - Different sources
  - Different control measures
  - Different treatment strategies

## Reducing Bacterial Challenge

### Type of Organism

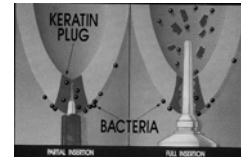
Infectious

Environmental

## Mastitis: lactation treatment principles

### Ab mastitis treatment during lactation:

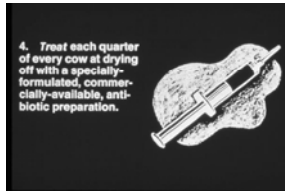
1. use an effective Ab (culture & sensitivity test)
2. use Ab long enough to be effective
3. intramammary trt. is more effective than systemic trt.
  - high levels Ab to site
  - less costly
  - less withholding time



## Mastitis; treatment principles; dry trt

### Dry treatment:

- new mastitis infections most prevalent at calving (early postpartum) and dry-off
- dry treatment is most effective way to prevent new mastitis infections
  - protect udder during dry period
  - cure mastitis from previous lactation



## Mastitis; lactation treatment, cont'd

### Ab mastitis treatment during lactation:

#### a) always treat systemically sick cows:

- temp. > 103
- depressed, off feed, very abnormal milk
- systemic (Naxel, Excenel) and intramammary Ab
- frequent stripping
- aspirin, banamine, oxytocin  
???



## Mastitis; lactation treatment, cont'd

### Ab mastitis treatment during lactation:

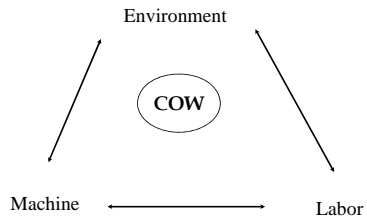
- b) treat new infections
  - early detection matters!
  - use a strip cup
- c) avoid treating chronic cows during lactation
  - frequent stripping
  - use oxytocin



## The Secret to Mastitis Control

1. Reduce the Bacteria Load on the Teat
2. Prevent the Bacteria from Getting into the Udder

# Control Triangle



# Environment



## Dysfunctional free stalls

- Design
- Poor Stall Maintenance
- Poor Bedding Maintenance

## Dirty Legs, Do They Matter?



Clean Legs



Very Dirty Legs



**Tails Are A Major Source of Filth To The Cow!**

## Bedding

- Organic
- Inorganic

As Bedding is Allowed to Build Up,

Environmental Bacteria Numbers Increase.

Changing Bedding Often is Best.

