

1

Effective Milking SOPs

Goals:

- Gentle handling of cows
- Rapid, gentle milk harvest
- Identification of abnormal milk
- Hygienic harvest of food

Photo credit: Sandy Stutgen

Extension UNIVERSITY OF WISCONSIN-MADISON Milking Skills Module

2

Effective SOPs include

- Workers that enjoy and understand cows
- Zero tolerance for cow mistreatment
- Well-trained milking personnel
- Methods to monitor protocol drift

Photo credit: Sandy Stutgen

Extension UNIVERSITY OF WISCONSIN-MADISON Milking Skills Module

3

The overall goal of milking

To harvest milk as *quickly* and *cleanly* as possible

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

4

High Quality Milk

- Visually normal with no odors
- Low in SCC (<200,000)
- Low in bacteria (<10,000 CFU)

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

5

Maintain a milking Schedule

- Cows love routine
- Milk at the same time every day
- Interrupting the schedule may lead to mastitis issues



Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

6

Personal Protective Equipment

- Gloves
- Sleeve protectors/ Apron
- Rubber boots
- Eye protection




Photo credit: Katherine Heibl

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

7

Complete Milking Routing

- Forestrip
- Disinfect
- Dry
- Attach
- Post-Dip



Photo credit: Heather Schlessler

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

8

Forestrip

- Examine milk for signs of clinical mastitis
- Stimulates milk letdown
- First streams have high bacterial count

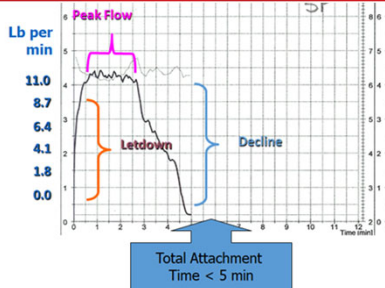
Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

9

Disinfect

- Use an approved product
- Need complete coverage of the teat
- Dips, sprays, foamers
- Contact time is critical - ≥ 30 seconds
- Remove disinfectant before unit is applied

10



11

Oxytocin

- Hormone in bloodstream
- Brain - Blood - Udder
- Causes milk let down and release
- Stress interferes with its release

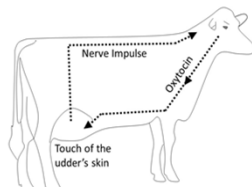


Photo credit: Heather Schlessler

12

Prep Lag Time

- First stimulation - unit attachment
- Recommended lag time = 1 - 3 minutes

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module

13

Post-Dip

- Provides the teat end with protection from bacteria
- Complete coverage is necessary



Complete Incomplete Complete Incomplete

Extension UNIVERSITY OF WISCONSIN MADISON Milking Skills Module


14

Cleanliness

Extension UNIVERSITY OF WISCONSIN MADISON

15

Udder flaming or clipping



Before After

Extension
UNIVERSITY OF WISCONSIN-MADISON

Milking Skills Module

16

Housing Facility

- Clean alleys regularly
- Remove soiled bedding
- Frequently add fresh bedding



Extension
UNIVERSITY OF WISCONSIN-MADISON

Milking Skills Module

17

Teat cleaning



Extension
UNIVERSITY OF WISCONSIN-MADISON

Milking Skills Module

18

Summary

- Have a routine
- Train employees on the routine
- Check for protocol drift

Extension UNIVERSITY OF WISCONSIN-MADISON Milking Skills Module

19

Extension UNIVERSITY OF WISCONSIN-MADISON

DAIRY WORKERS' TRAINING MODULE 1 MILKING SKILLS Milking preparation

DAIRY WORKERS

20

Presentation Originally Created by Pamela Buergs, DVM, MS, PhD, Michael J. Maroney, DVM, Humberto Rivera, MS, MSW, UW Department of Animal and Dairy Science

Presentation Reviewed and Edited by Heather Schlesser | Extension Dairy Educator UW Madison Extension Marathon County

Sandy Stutzman | Extension Agriculture Educator UW Madison Extension Taylor County


Thank you to the following individuals for use of slides and providing review:

DAIRY WORKERS' TRAINING MODULE 1 MILKING SKILLS Milking preparation


DAIRY WORKERS

21

Resources:
<https://topmilk.msu.edu/>



DAIRY WORKERS'
 TRAINING MODULE **1**
MILKING SKILLS
 Milking preparation




22

At University of Wisconsin-Madison Division of Extension, we are working to integrate accessibility into our web, video, and audio content. If you experience accessibility barriers using web, audio, or video content, or would like to request complete captions or other alternative formats, please contact accessibility@extension.wisc.edu. You will receive a response within three business days.

An EEO/AA employer, Extension provides equal opportunities in employment and programming, including Title VI, Title X, and the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act requirements.



DAIRY WORKERS'
 TRAINING MODULE **1**
MILKING SKILLS
 Milking preparation



23
