## 11. Milking

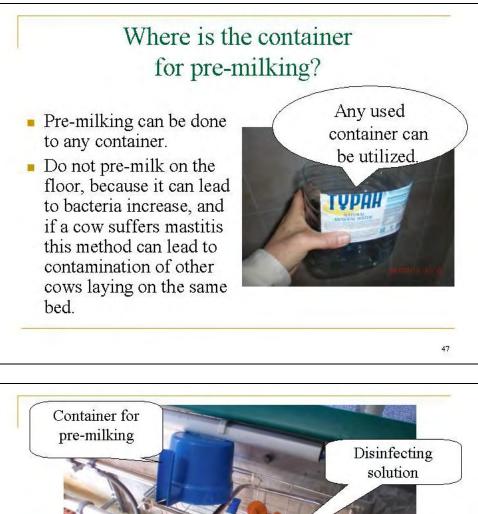
The measures against mastitis.

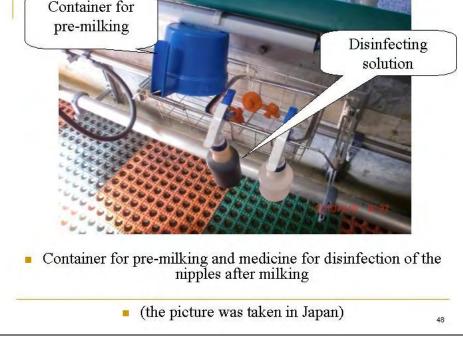
The measures to mastitis is primary importance, since, the body cell of a normal udder may be increasing apparently, and a frequent check is required. The range of body cell unusual is 300,000/ml in European countries.

(1) The milk squeeze out 3 to 4 times from each nipple to the cup before udder washing and the existence of un-usual milk is checked. Do not carry out on the floor.

(2) Management of milking apparatus and fresh milk. Since milking apparatus contacts fresh milk directly, at the time of the end of work washing and its disinfection are important. Furthermore, about fresh milk, cooling immediately after milking is important.

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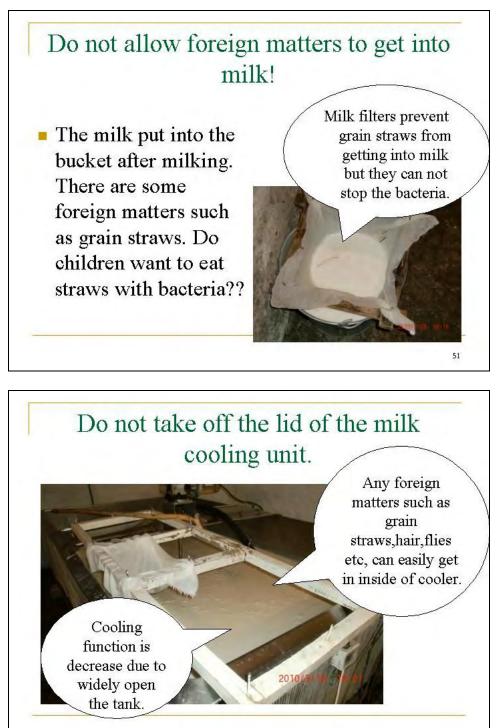
## Udder washing should be done with clean water.

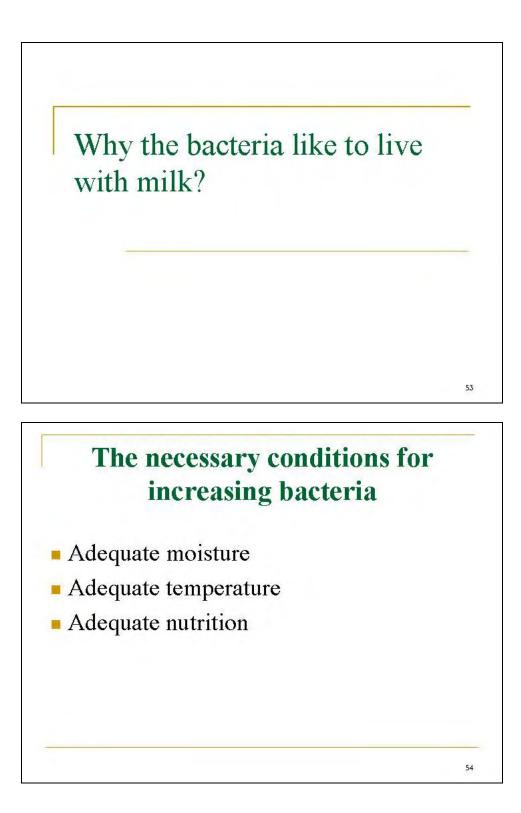
 The udder should be washed away with clean water, and water should be changed frequently especially during winter time. because udder is so dirty with manure. Using lager sized bucket is advisable

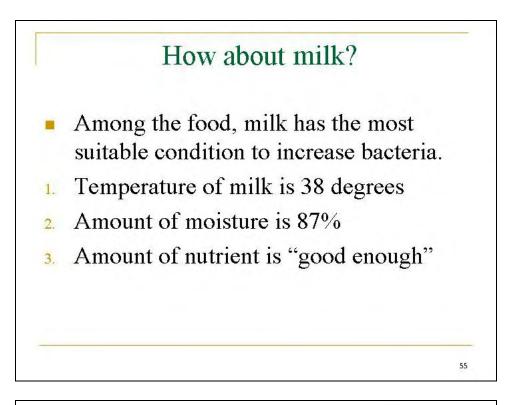
Wiping udder before attaching milking device.

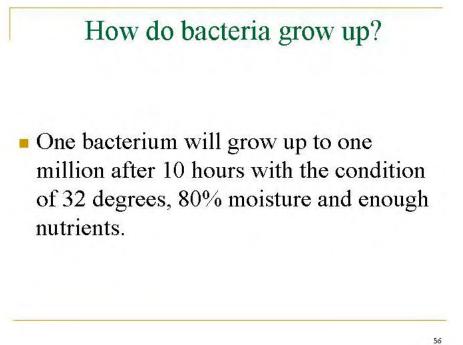
 After wash the udders, the udder should be wiped with dry and clean cloth before attaching milking device. Because if udder is wet, the dirty water with bacteria is easily get inside the milking device, then, it will be mixed with raw milk.

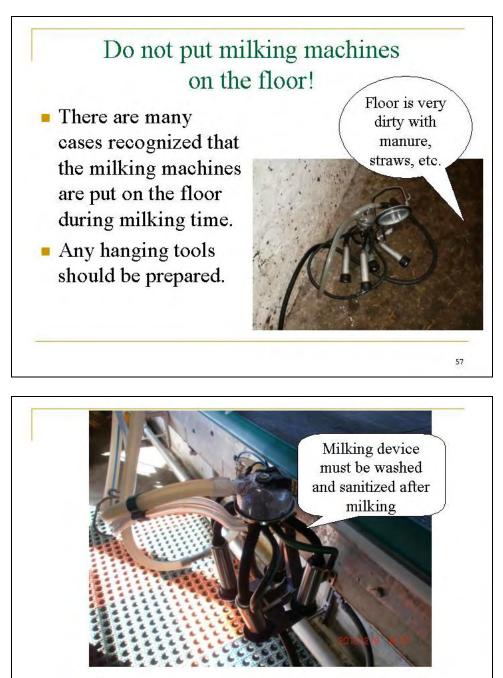
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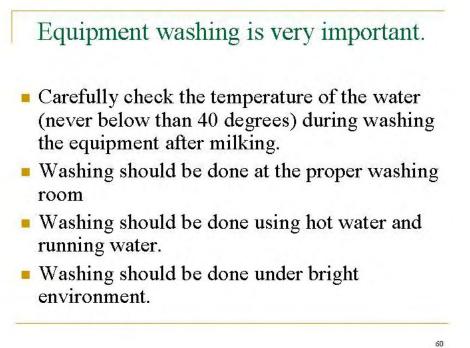


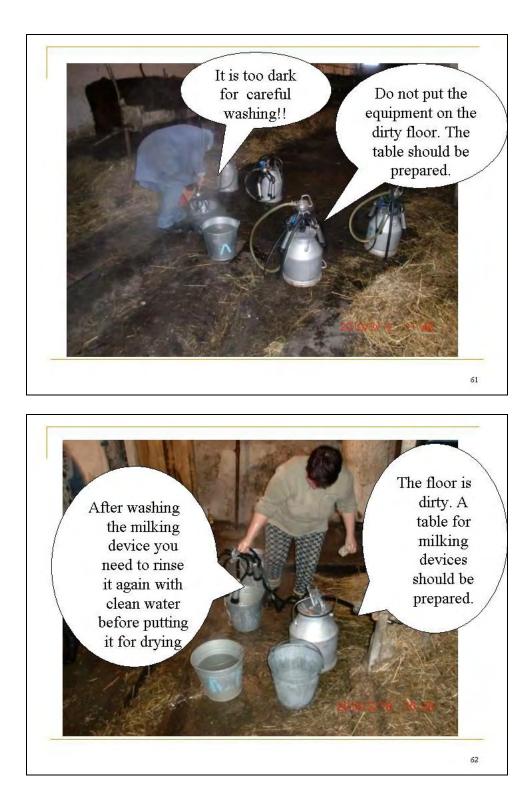


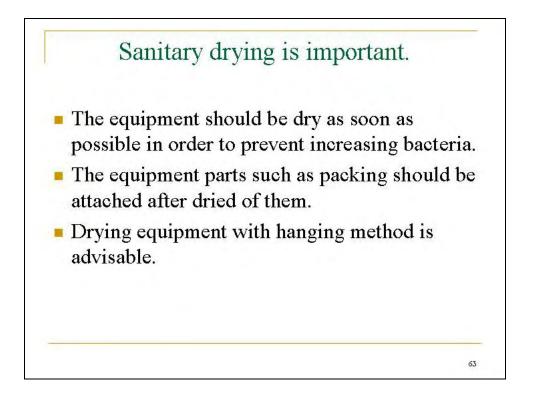


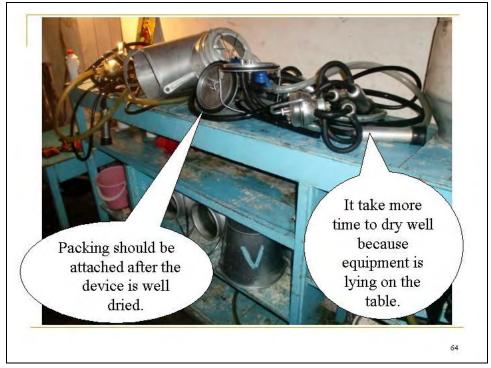
 All milking equipment must be well washed after milking
 (the picture was taken in Japan)
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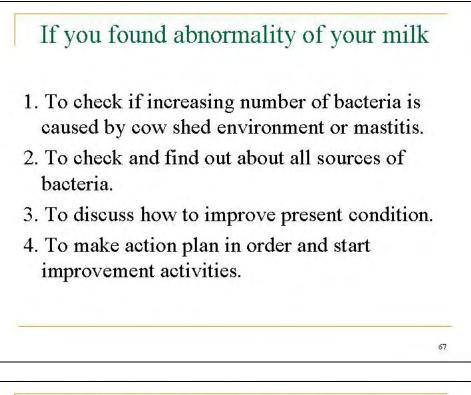
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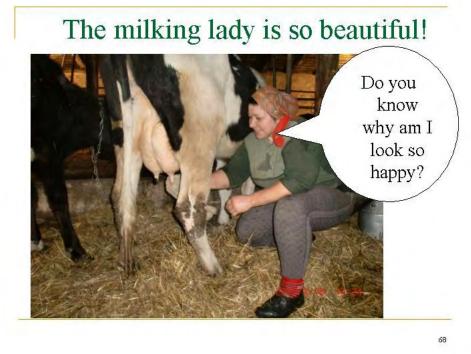
## Washing plates and washing milking machineries

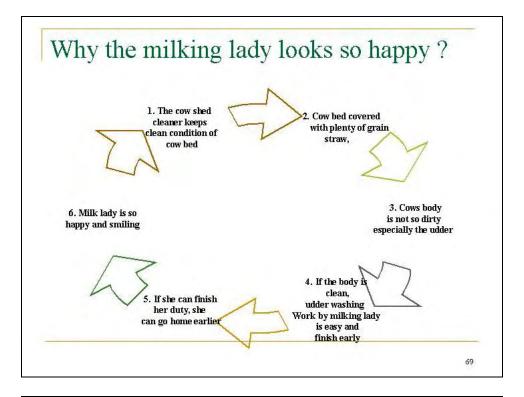
 You must keep in your mind about deference's of washing dish at home and washing milking machineries at dairy farm, that is, the aim of washing dish is just clean the dish, but the aim of washing milking machineries are to avoid living environment of bacteria.

Remember again what is important

- Maintain udder and nipples of the cows clean
- Provide washing of the udder and avoiding invade of any bacteria into nipples.
- Regularly milking procedure is important.
- Always to take care about the condition of milk quality
- Always to take care about the data concerning number of bacteria.
- To check carefully the condition of milking machines before milking time.







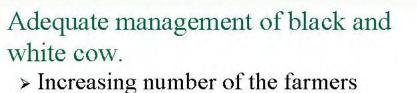


## The owner of dairy farm should remember

- The owner of dairy farm should not forget that "I am a farmer." Whenever visit his farm, do not wear neck tie but wear working cloth and work shoes. Any good employee does not care about your dairy farm as you are doing.
- He should initiate holding staff meeting and discuss the condition of the farm

What is clean cow shed????
Any person has difficulty to do without good example.
The owner of dairy farm have to seek good example for his staff.
The owner of dairy farm have to send the staff to see and learn about good example
The staff can understand "what is clean cow shed"
The staff can introduce the way of cleaning to his farm.

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- Increasing number of the farmers introducing black and white cattle. Why?
- > Because she has an advantage which native cow does not have, that is more milk production.
- On the other hand, black and white cow is need to special care more than native cow.
- It is necessary to have any opportunities to introduce adequate management about black and white cattle before too late especially feeding management.
- In my observation, there are some cases already happening not so good management about black and white cattle.
- > How can we find and introduce those useful techniques to the farmer?

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