



Animal Health Matters.  
For Safe Food Solutions.



Schweizerische Eidgenossenschaft  
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Education and Research EAER

**State Secretariat for Economic Affairs SECO**



# Herds management and calf rearing

Viktoria Lets, National lead expert

# Herds management and calf rearing

## Everything starts with calves growing...



Calves

<http://dovidkam.com/>



Heifers

<http://cherkasy.all.biz/>



Cows



# Herds management and calf rearing

From what the risk control by proper growing of calves begins?

## 1. Genetic

## 2. From dry cows

- Pass cow on dry in 60 days before calving
- Anti-mastitis program
- Vaccination against diseases of newborn



# Herds management and calf rearing

## First day - the foundation of the calf life

- hygiene
- premises
- personnel training
- timely drinking of the colostrum
- umbilical



# Herds management and calf rearing

## Colostrum "provides" a newborn calf with:

- immunity against infectious diseases
- nutrients
- growth factors



# Herds management and calf rearing

## Colostric key

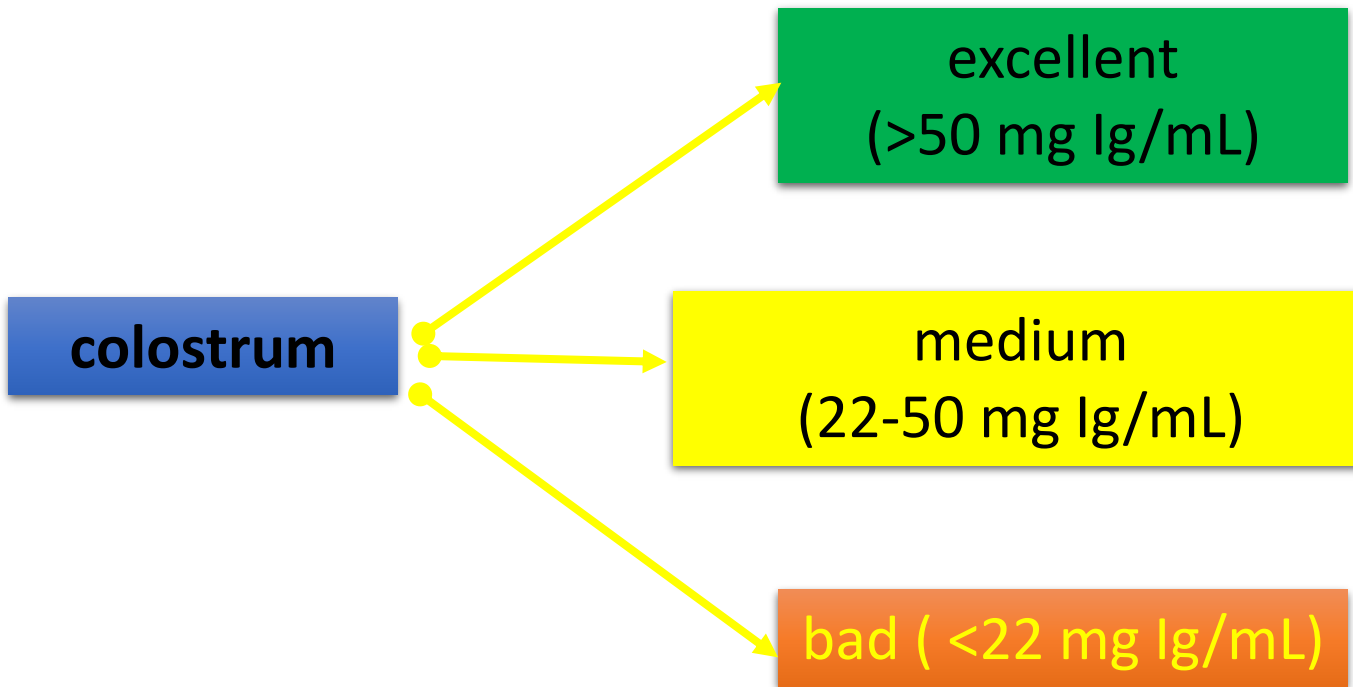
### Three Q's

- Quality
- Quantity
- Quickness



# Herds management and calf rearing

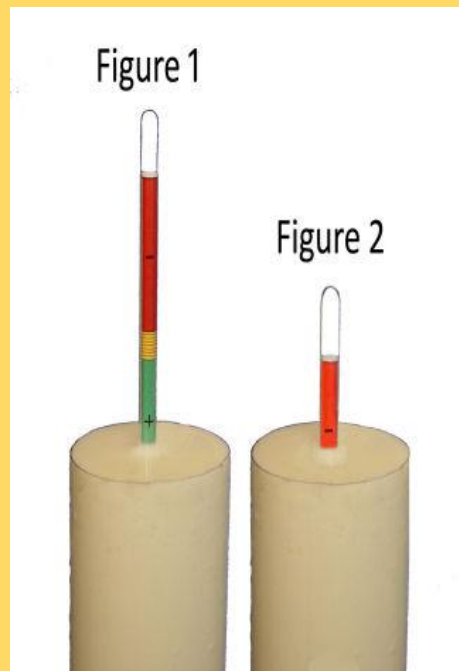
## Determination of quality of the colostrum by colostrimeter



# Herds management and calf rearing

## What should be done

- Determine using colostrometer



## Do not use colostrum!

- from sick animals (tuberculosis, etc)
- animals from other farms
- of watery consistency (especially from firstborns)
- from cows with mastitis
- with blood
- pasteurized





# Herds management and calf rearing

**For prevention of diseases of digestive system and immunodeficiency condition in newborn calves it is recommended:**

- To have colostrum bank
- To use supplements and colostrum substitutes

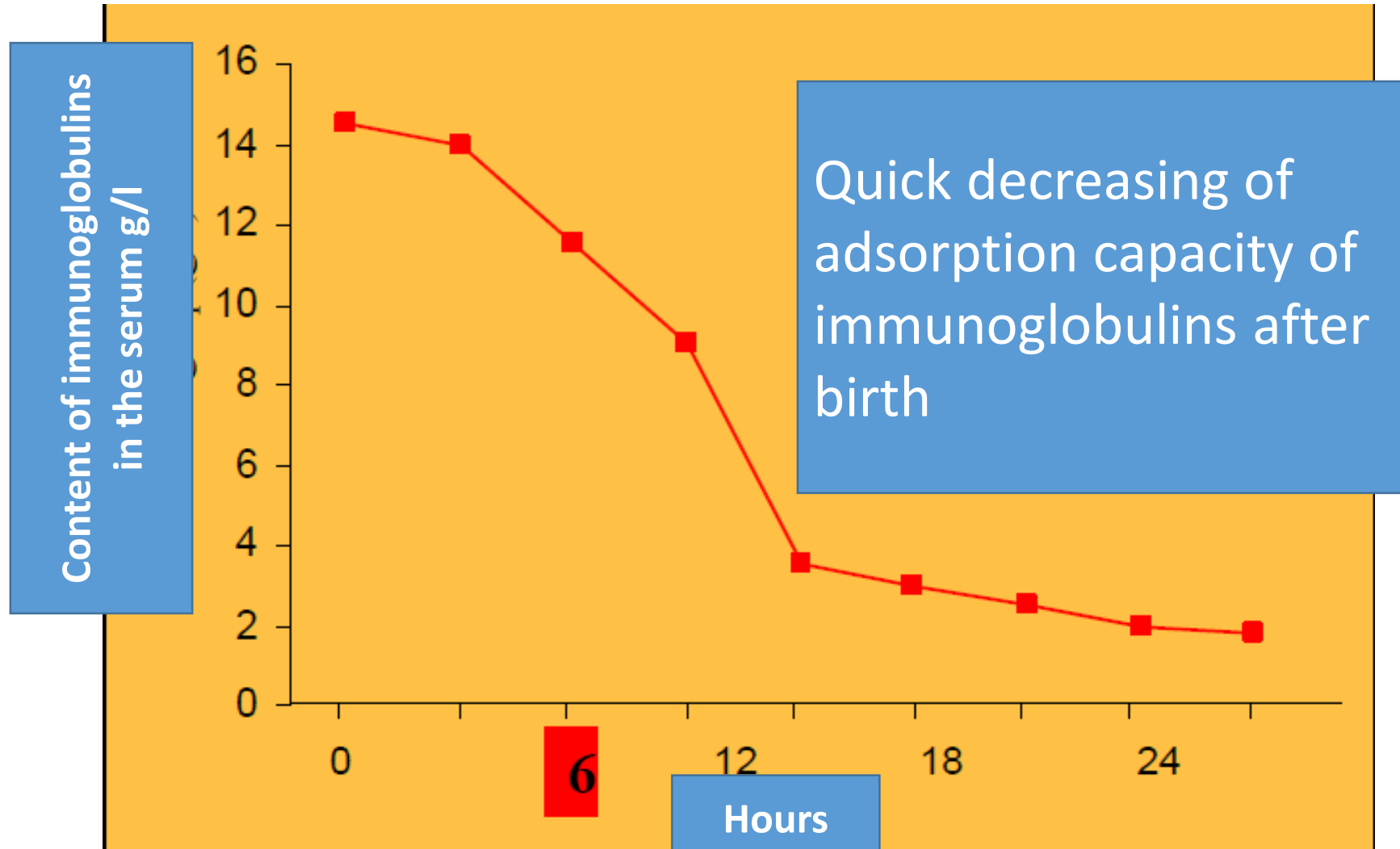


<http://soft-agro.com/telyata-2/novye-tendencii-v-kormlenii-telyat-chast-1.html>



# Herds management and calf rearing

## Age of calf at the first feeding by colostrum



Calves that got colostrum during first 6 hours of life have the level of immunoglobulins in the serum > 10 mg/ml



# Herds management and calf rearing

- Calves should drink **100 grams of IgG1** in the first hours of life; in 66-85% cases - it equivalent **3 - 4 l**

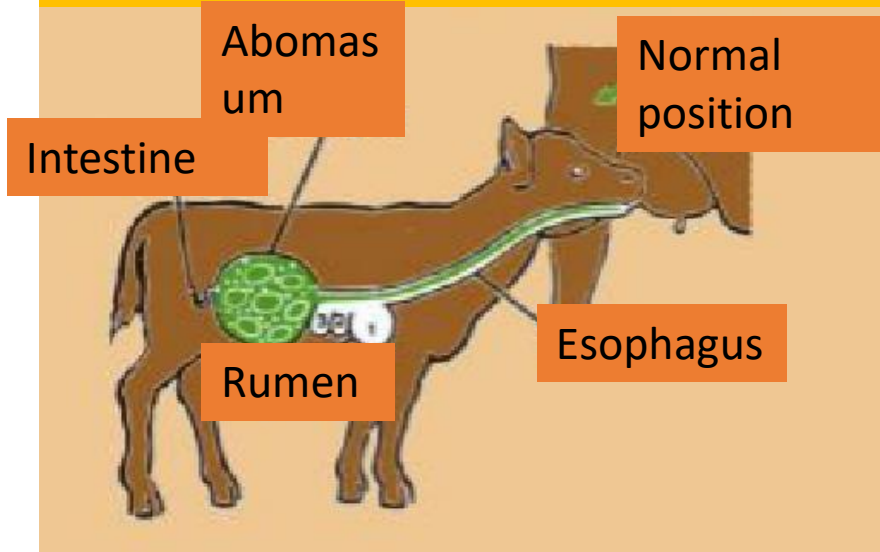


<https://www.fginsight.com/news/news/colostrum-antibody-levels-affect-calf-growth-15979>

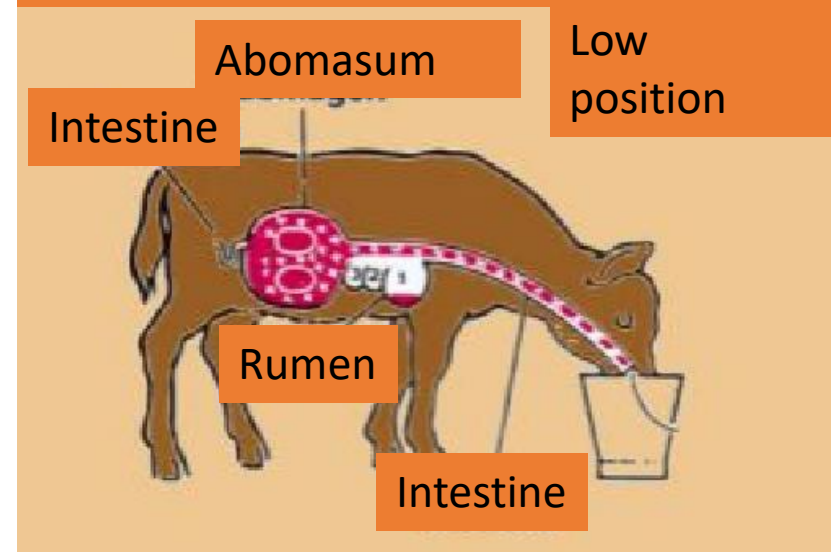


# Herds management and calf rearing

- What should be done



- Avoid !



# Herds management and calf rearing

## How to evaluate the effectiveness of housing of newborn calves?

- To check the concentration of immunoglobulins in the blood of calves at the age of 2-3 days

Refractometr



[intermed.ua](http://intermed.ua)



# Herds management and calf rearing

## Which is better: whole milk or calf milk replacer (CMR)?

Before 5 weeks age

- whole milk



[hrunya.ru](http://hrunya.ru)

After 5 weeks age

- CMR based on vegetable protein



# Herds management and calf rearing

## Important prerequisites for rumen development of calves:

- high-quality concentrated feed from the first week of life
- free access to high-quality hay
- free access to clean water
- high level of hygiene



# Herds management and calf rearing

What do you see?

What does it mean?

What should be done?





# Herds management and calf rearing

What should be done



Avoid!



# Herds management and calf rearing

## Housing in age groups

- Avoid!

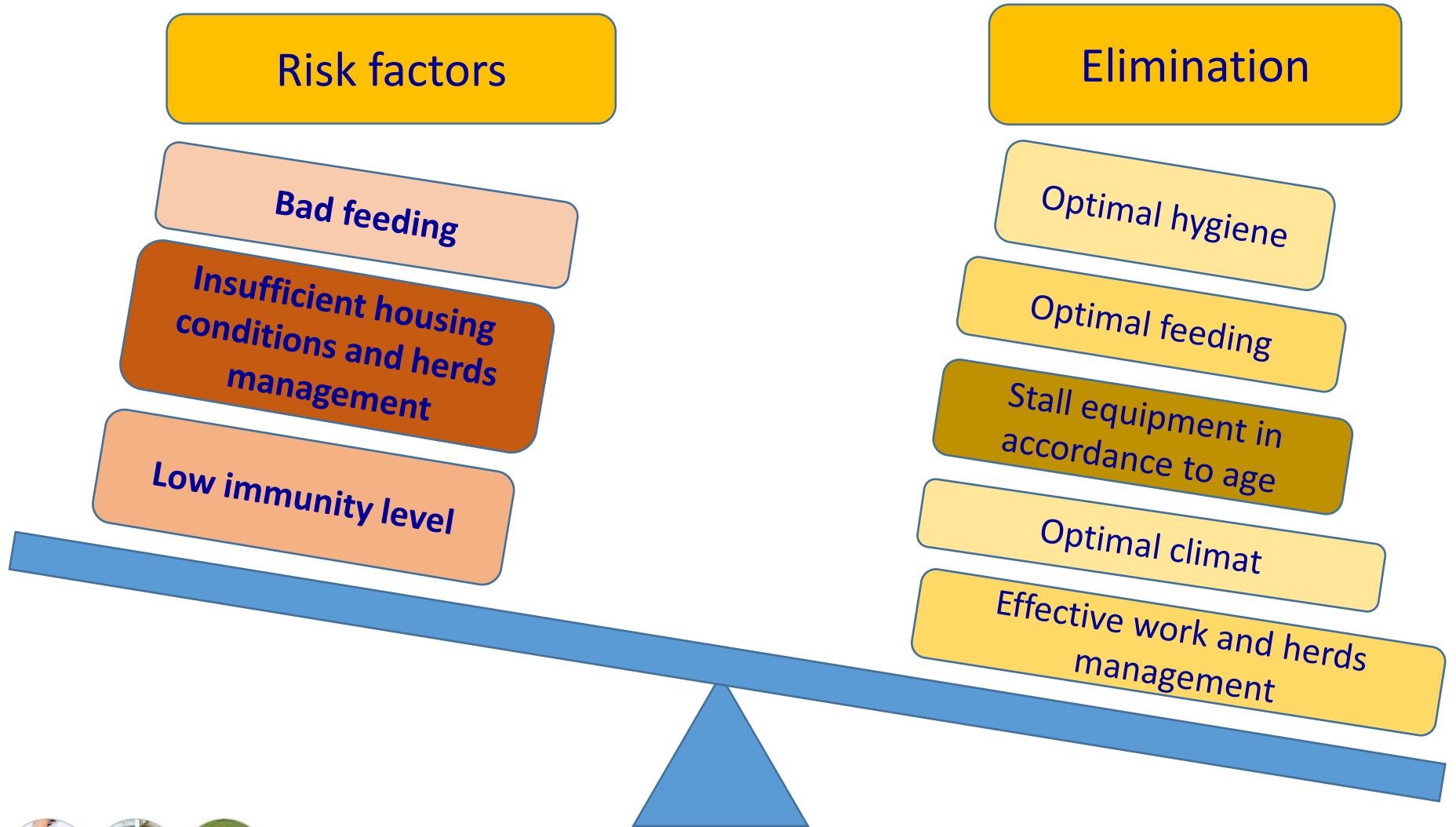


- What should be done



# Herds management and calf rearing

## To create a balance



# Herds management and calf rearing

## The key to proper rearing of calves

### The five C's formula:

- 1) Colostrum
- 2) Cleanliness
- 3) Comfort
- 4) Calories
- 5) Consistency



<http://fermer.ru/>



<http://молсправи.com.ua/index.php/pro-nas>

adapted from «Managing the Young Calf – Keep It Simple!»

Sheila M. McGuirk, University of Wisconsin-Madison





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# Thank you for the attention!