



# **REPRODUCTIVE HERD HEALTH**

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## **COLOLOSTRUM MANAGEMENT IN NEWBORNS**

The continuity of the herd in cattl breeding depends on the success of the healthy calf breeding program



management

# 15-20% of calf deaths are due to misfeeding methods.



With a good care-feeding method, the mortality rate can be reduced to 3-5%.



colostrum is a unique food source f minimizing health problems



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Colostrum starts to be produced during colostrogenesis. especially Ig is different from normal milk. After 24 hours, it starts to return to normal milk. It becomes normal at 72 hours.



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management

# Immediately after birth, the offspring should absorb their mother to provide passive immuni



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#### management

İçerik	Kolostrum	Transit süt		Normal süt
	(1. gün)	(2. gün)	(3. gün)	
Kuru Madde (%)	23.9	17.9	14.1	12.6
Yağ (%)	6.7	5.4	3.9	3.6
Yağsız KM (%)	16.7	12.2	9.8	9.6
Top. Protein (%)	14.0	8.4	5.1	3.2
Laktoz (%)	3.3	4.0	4.7	5.0
Mineral (%)	1.03	0.90	0.81	0.74
Ig (%)	6.0	4.2	2.4	0.09

According to Ig concentration, colostrum is divided into three classes: a) Weak <22 mg / ml b) Medium 22-50 mg / ml c) Very good> 50 mg / ml

#### management Level of immunoglobulin fractions of colostrum and normal milk

Ig fraksiyonu	Kolostrum	Normal süt
IgG1 (mg/ml)	52.0-87.0	0.32-0.40
IgG2 (mg/ml)	1.6-2.1	0.03-0.08
IgM/mg/ml)	3.7-6.1	0.03-0.06
IgA (mg/ml)	3.2-6.2	0.04-0.06

#### management colostrum consumption after birth

Doğum sonrası tüketim zamanı (saat)	Tüketildikten 24 saat sonraki plazmadaki Ig yoğunluğu (mg/ml)	Absorbsiyon (%)
6	52.7	66
12	37.5	47
24	9.2	12
36	5.4	7
48	4.8	6

management Factors affecting colostrum quality

- Race
- Age
- Colostrum administration time
- Feeding before birth
- Corticosteroid use
- Early birth