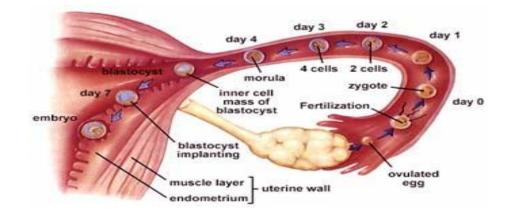




REPRODUCTIVE HERD HEALTH

Doç. Dr. Halit Kanca

EMBRYONIC IN MILK COW DEATH WITH BACTERIAL AND CLINICAL APPROACH TO VIRAL ABORTUS



Continuity of Dairy Cattle Depends on Economic Balance

Depreciation of plant and equipment Provision of animal existence Personnel expense Health Service ROUGH AND CONCENTRATED FEED





In order to create economic value, farm components must work in harmony

PLANING



HOUSING-NUTRITION-VACCINATION AND BIOSAFETY

Importance of Measurement and Evaluation System

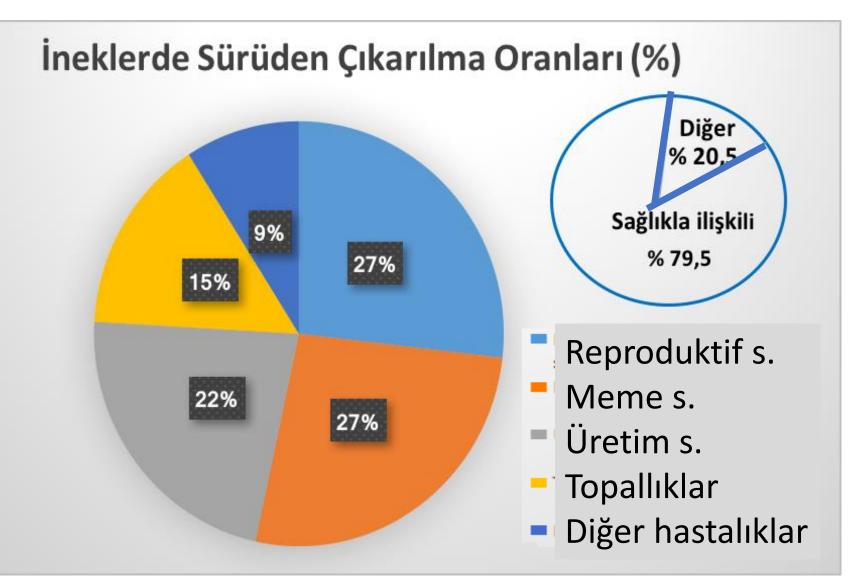
- FERTILITY PARAMETERS AND APPLICATIONS
- MILK PRODUCTION
- DISEASES
- SUCCESS OF APPLICANTS

You can't measure and control, you can't manage

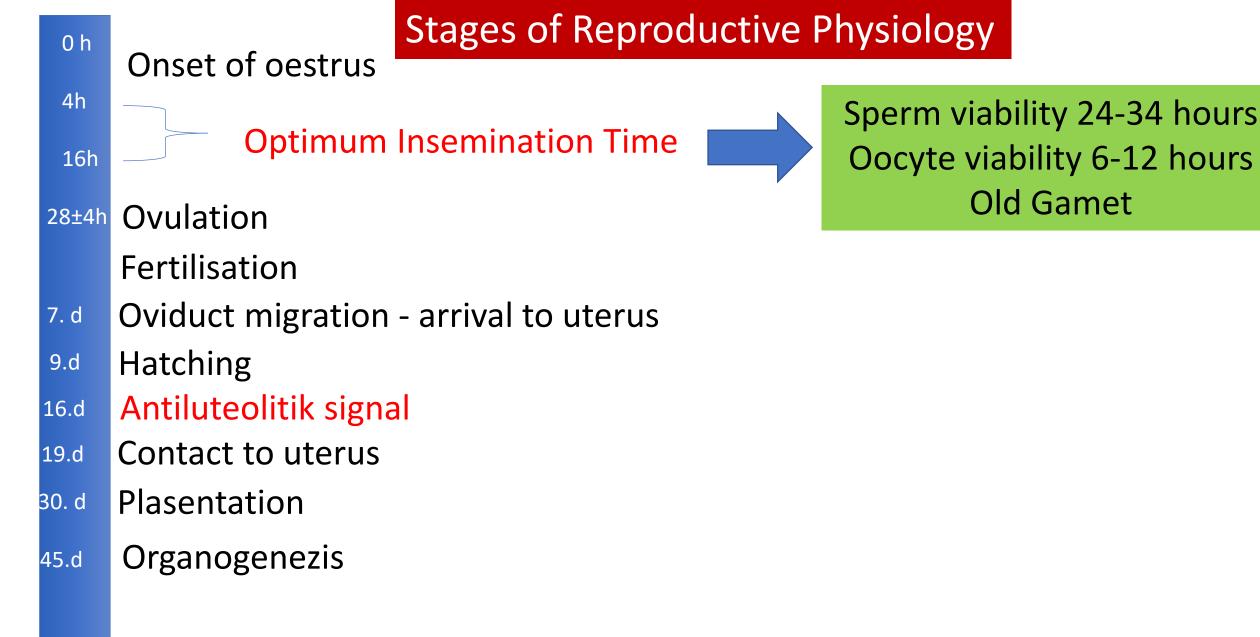
P.P PROBLEMS / INCIDENCE AND DEFINITION RATE

Mean%		
Dystocia	7	
Hipocal	6,5	
Retensiyo sec.	8,6	
Udder edema	97	
Metritis	10,1	
Mastitis	14,2	
Ketozis	4,8	
Abomasum	2 - 5	
Disp.		
Laminitis	7	

Lifetime: 90% Lifetime culling 60%



(Stevenson, 2009; Roberts ve ark., 2012).



Parturition

From Insemination to Calving: A Hypothesis

- Number of inseminated cows: 100
- Number of cows giving birth: 45
- Where does 55% loss occur?
- Since 1980, the success of artificial insemination is reduced by 1% / year.
- Milk yield increases / Fertilte decreases. ENERGY NUTRITION

Early EMBRONIC Death **EMBRONIC** Death Late **EMBRONIC** Death

From Insemination to Calving: Losses

- Lack of fertilization (0) 10%
- Early embryonic deaths (0-15 days)
- Late embryonic deaths (15-45 days)
- Early fetal death (45-90 days)

Abortions (90-270 days)



Etiopathogenesis of embryonic deaths is a multifactorial syndrome.



EMBRIYONIC DEATH





www.dairyfarmingtoday.org



Major Factors in Embryonic Deaths

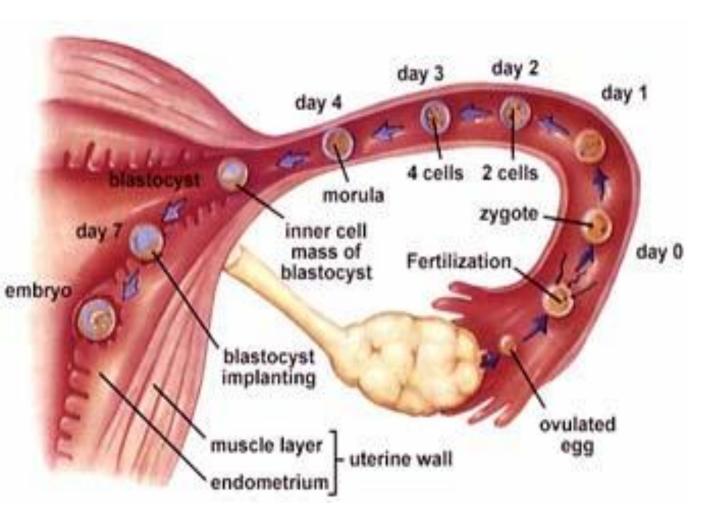
- Genetic factors
- Infections (local or systemic)
- Viral (BVD, IBR)
- Bacterial
- Protozoal (N.caninum)
- Environmental Factors
- Heat Stress
- Housing conditions and Grouping Stress
- Seasonal effect
- Nutrition (Deficiency or excess of some substances)

Major Factors in Embryonic Deaths

- toxins
- Local toxins (Metritis, Mastitis Toxins)
- Toxins from feed (Mycotoxins)
- Toxic plants
- Immunological Factors

mportant predisposition factors to embryonic deaths

- Nutrition
- VKS
- Heat stress
- Oxidative stress
- Insufficient P4 oscilla



(Anonim, 2017)

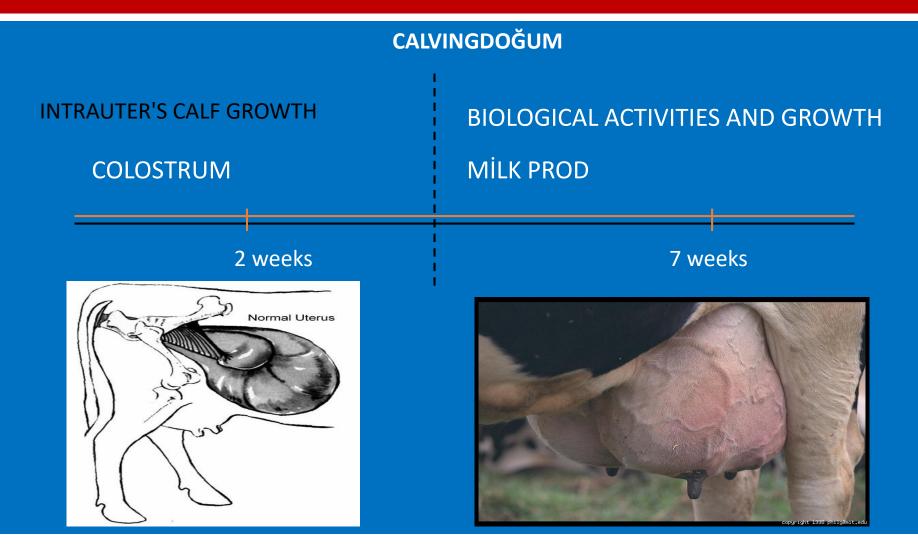
Importance of P4 Levels After Ovulation Low P4 = Embryonic Death

- Basic Effects of P4;
- Protein synthesis from uterus
- Growth rate of embryo
- Antiluteolytic signal strength increases.
- Goal: To ensure rapid development of Cl
- Direct (Nutrition)
- Induce indirect P4 synthesis (GnRH, hCG, PMSG)

Embryonic death - BCS-NEB

Embryonic Death in BCS protectors: 4% Embryonic Death in BCS Losers: 11%

Relationship Between Nutrition and Embryonic Deaths: NED (All Nutritional Components)



Pre-post Partum NEB- RESULTS

Mcal/gün

