



Maternal Behavior

Domestic Animal Behavior





Basis of maternal behavior

- Innate behavior
- Experience
- Learned
- Hormones
 - Estrogen>
 - Progesterone<
 - Oxytocin>>>>>
- Vaginal stimulation



Basis of Maternal Behavior

Olfaction

Visual

- Recognition of the young
 - Signature mixture
 - Maternal labeling





Pigs



Pig Maternal Behavior (Free-ranging)

- Pre-partum
 - Nest-seeking
 - Nest-Building
- Parturition
 - At night
 - Placentophagia
- Post-partum
 - Stay in the nest for two days
 - Weaning at 14-17 weeks.



Pig Maternal Behavior

• Nursing

- How they found the udder??
- Cyclic and consistent
- Sow call the piglets
- Piglets massaging and grunt
- Quiet phase
- Final massage

Maternal recognition and clinical problems

- Olfaction
 - Feces, udder
- 1-7 days
- Reject piglets after two days
- Maternal aggression
- Cannibalism
- MMA





Sheep



- Parturition
 - Any time of the day
 - Restless, vocalization, rubbing flank, pawing
 - Eating and rumination ceases
 - 30-60 minutes

- Post-partum behavior
 - Special vocalization for first hour
 - Licking the newborn
 - Correlated with estrogen levels
 - Lamb stand within 30m
 - 2-3 hours firs suckling

- Nursing
 - Odor, thermal and tactile cues
 - 6-14 times
 - 20-40 sec
 - Ewe standing and vocalization
- Acceptance of the lamb
 - Licking
 - Olfaction

- Recognition of the lamb
 - Visual- the most important
 - Olfactory
- Recognition of the ewe
 - Visual and auditory
 - Colostrum intake



Goat





Goat Maternal Behavior

- Pre-partum
 - Leave the herd
 - Agitated, kicking, pawing,
- Post-partum
 - Licking and vocalization
 - Kid hide
- Recognition
 - Visual





Cow



Cow Maternal Behavior

- Parturition
 - Do not live the herd
 - Noon-midnight
 - Placentophagia
 - Licking
 - No kind recognition
 - No recognition



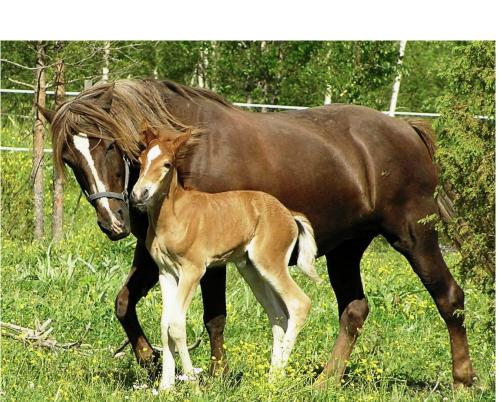
Cow Maternal Behavior

- Nursing
 - Within 3 hours
 - During the day
 - Tail waging
 - Cow lick perineum
 - Allosuckling
- Weaning
 - 11 month











Mare Maternal Behavior

- Parturition
 - Stage one
 - Stage two
 - Stage 3
- At night
- Licking
- Maternal recognition



Mare Maternal Behavior

- Suckling
 - 2 hours
 - 4 times/h
 - 2 minutes
 - Fillies more than colt
- Weaning
 - 40 weeks
- Recognition
 - Auditory and olfactory





Cat



Cat Maternal Behavior

- Parturition
 - Hide areas
 - Restless, licking
 - Placentophagia
 - Licking the kittens
 - U form
- Nursing
 - 1-2
 - Olfactory cues
 - 3 stages
- Nest changing
- Long maternal behavior







Dog



Bitch Maternal Behavior

Parturition

- Nest building
- Restless, licking, decrease in body temperature
- Labor interruption
- Placentophagia
- Licking
- Nest cleaning

Nursing

- Blind and death
- Puppies vocalisation
- Clinical problem
 - Pseudopregnancy



