

What are the main ideas that occur during each phase in the Differentiation phase?

Golgi phase- acrosomic vesicle forms

Cap phase- acrosomic vesicle spreads

Acrosomal phase- elongation of head

Maturation phase- final assembly

What kind of ejaculation does the bull, ram, and buck have? How long does it take them to ejaculate?

Non fractionated ; fraction of a second

What does non-fractionated ejaculate mean?

The ejaculate is mixed together (sperm and accessory fluid)

Where does the pre-ejaculation dribble come from? And what does it do?

Cowper's gland – it's a clear fluid that cleans out the urethra before mounting

What about the ejaculate?

Seminal vesicles (major volume) and prostate (minor volume)

What kind of ejaculation does the stallion and boar have?

Fractionated

How long does it take for the stallion to ejaculate?

30-45 seconds

What are the portions of the stallion's ejaculate?

Pre-sperm : urethral and Cowper's gland (low sperm #s)

Sperm rich : epididymal, ampulla, and prostate (high sperm #s)

Post-sperm : gel fraction from seminal vesicles

Penile Drip : prostate and Cowper's (drainage after ejaculation to clean out urethra)

How long does it take the boar to ejaculate?

3- 20 minutes

What are the portions of the boar's ejaculate?

Pre-sperm – Prostate -> clear fluid

Sperm Rich – Seminal Vesicles and Prostate -> very high sperm concentration

Post-sperm – Gel fraction from Cowper's Gland -> small gel plugs which adhere together in the cervix to block semen backflow into vagina