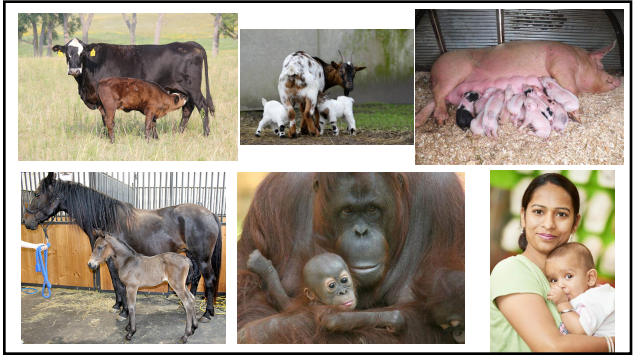
# Animal Science/Dairy Science 434



Reproductive Physiology
Female Anatomy

John Parrish, Professor, UW-Madison

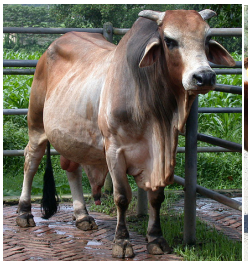
1



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## Bovine - Cattle

Male → Bull



Female → Cow



3

## Equine - Horse

Male → Stallion



Female → Mare



4

## Ovine - Sheep

Male → Ram



Female → Ewe



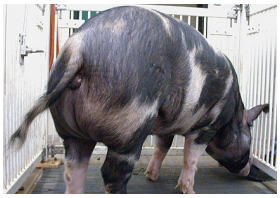
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## Porcine - Swine - Pig

Male → Boar



Female → Sow



6

## Avian - Chicken

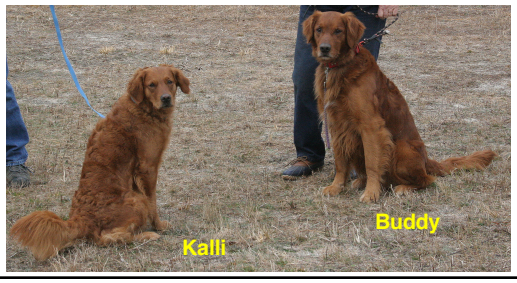
Male → Rooster  Female → Hen



7

## Canine

Female → Bitch  Male → Dog




8

## Feline

Female → Queen  Male → Tom





9

## Quiz 1a

Pause this video and take the quiz below by writing you answers on your notes.

What is the name of the female for each of the following:

Bovine –
Equine –
Porcine –
Canine -



10

## Quiz 1a

Pause this video and take the quiz below by writing you answers on your notes.

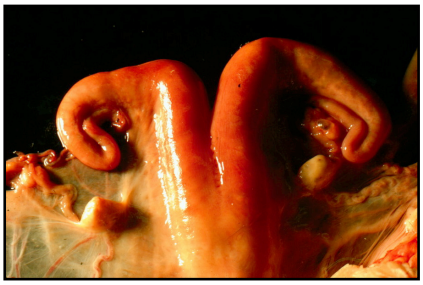
What is the name of the female for each of the following:

Bovine – Cow or Heifer
Equine – Mare or Filly
Porcine – Sow or Gilt
Canine - Bitch

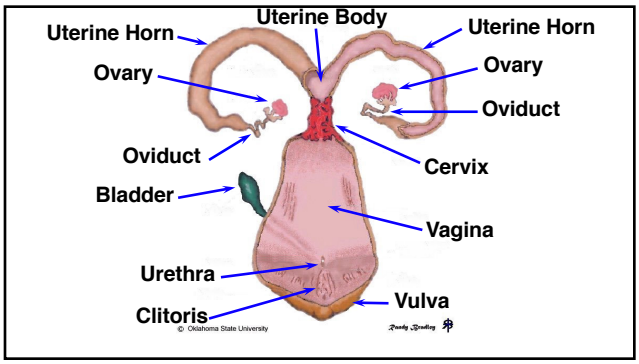



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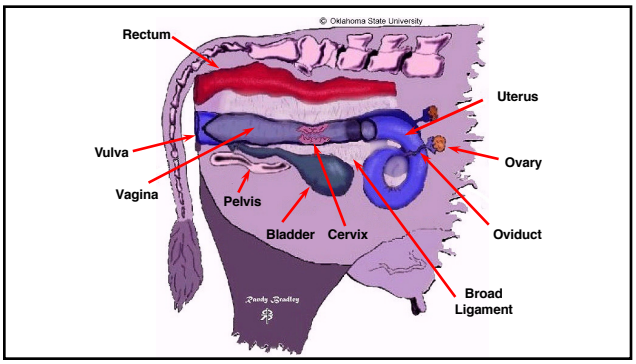
## Female Reproductive Tract Anatomy



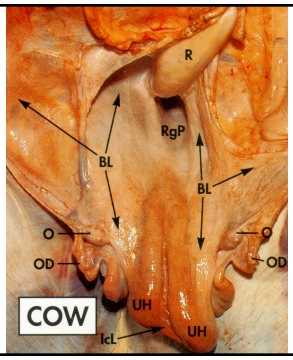
12




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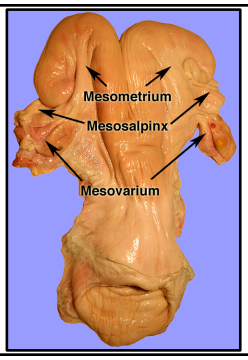



## Broad Ligament

BL - *Broad Ligament*
UH - *Uterine Horn*
O - *Ovary*
OD - *Oviduct*

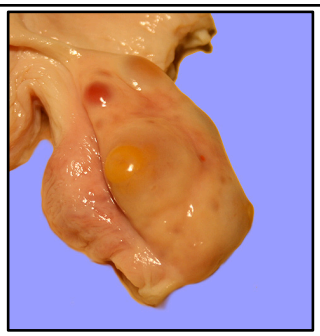
15

## Broad Ligament



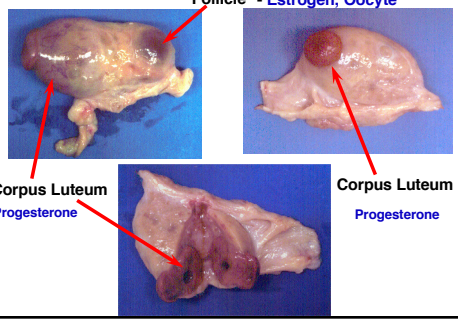

16

## Ovary

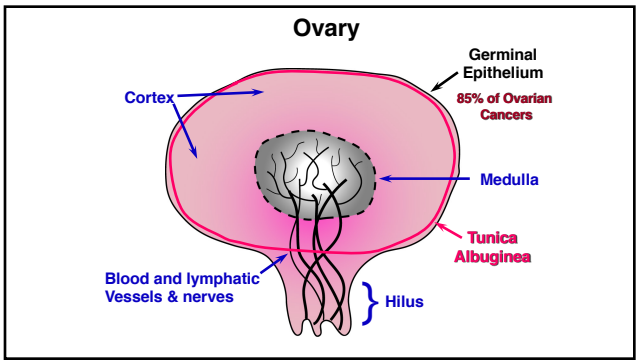


17

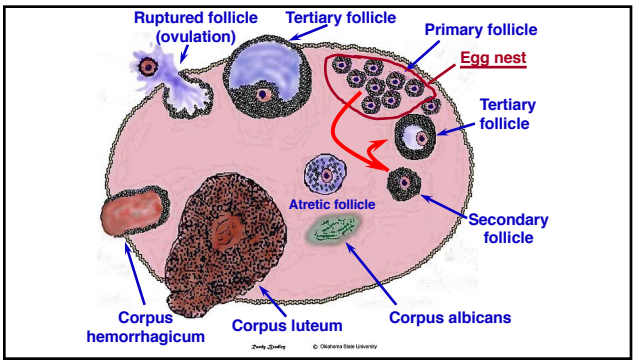
## Ovary



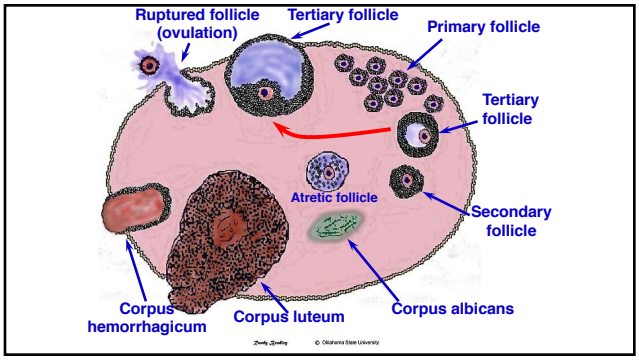

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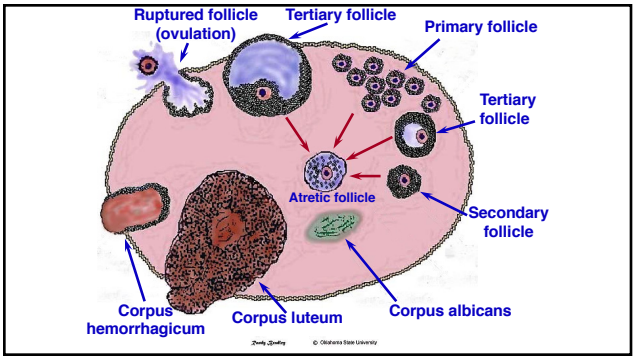

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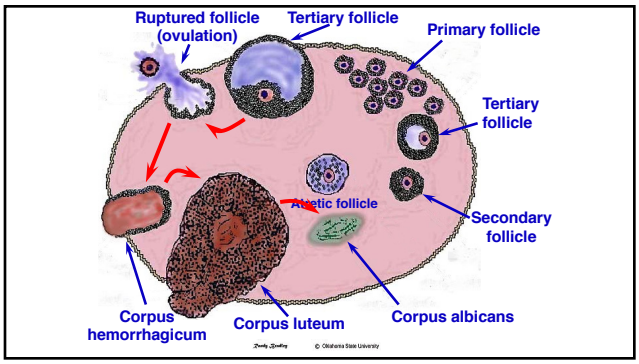

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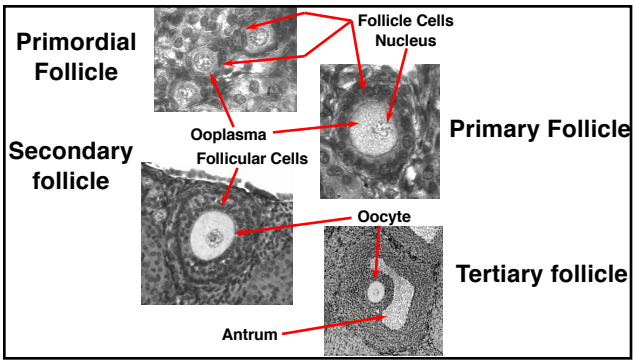

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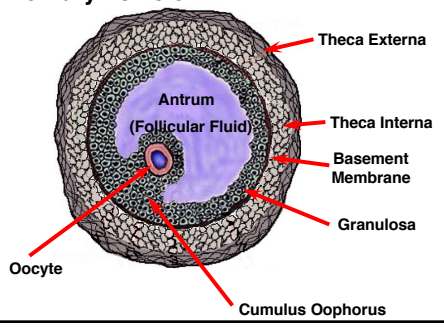



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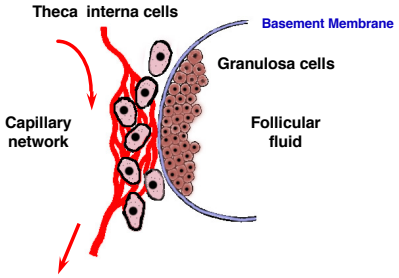

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## Tertiary Follicle




25

## Follicular Blood Supply




26

## Quiz 1b

The follicle progresses from the primordial, primary, secondary, tertiary, Corpus hemorrhagicum, Corpus luteum and finally the Corpus Albicans in a counter circular motion around the ovary of the cow.

True
False



27

## Quiz 1b

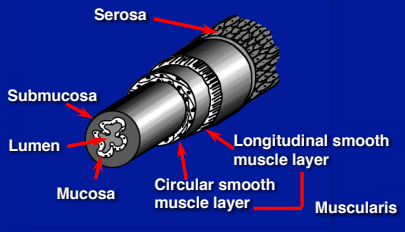
The follicle progresses from the primordial, primary, secondary, tertiary, Corpus hemorrhagicum, Corpus luteum and finally the Corpus Albicans in a counter circular motion around the ovary of the cow.

True
False ✔

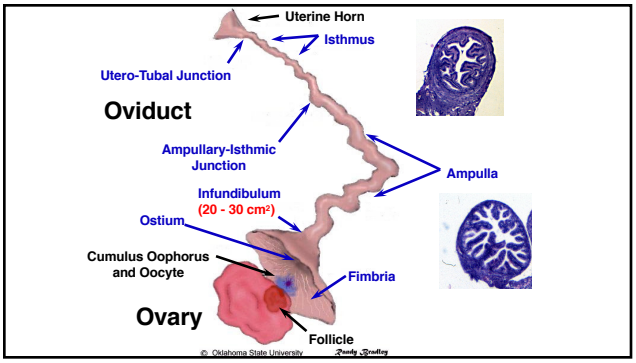


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## Secondary Sex Organ: A Series of Tubes to Convey the Oocyte/Embryo/Fetus to the Outside

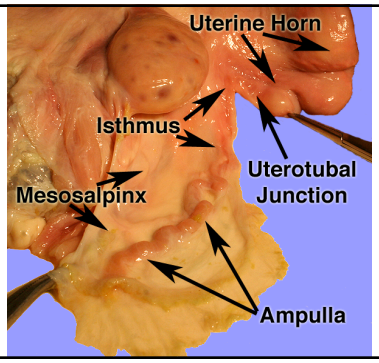



29



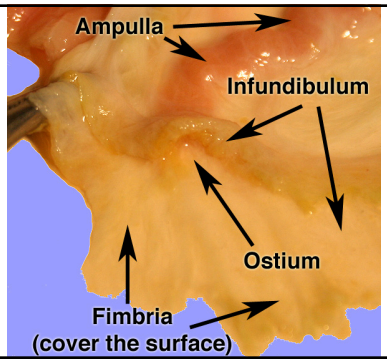

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Oviduct



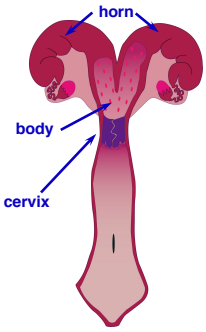

31

Oviduct



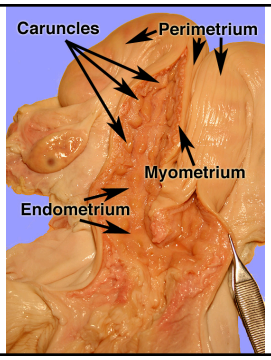

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Uterus (bovine)



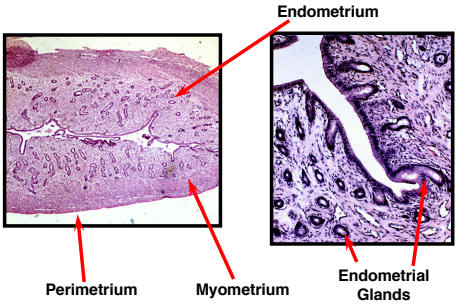

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Uterus



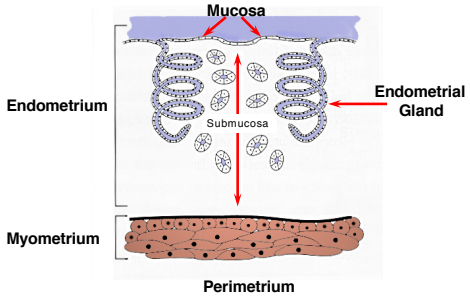

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Uterine Histology

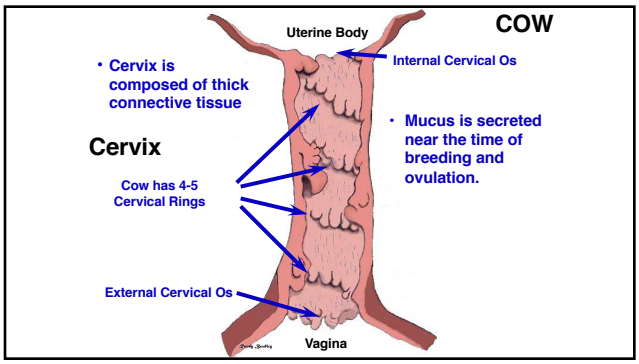



35

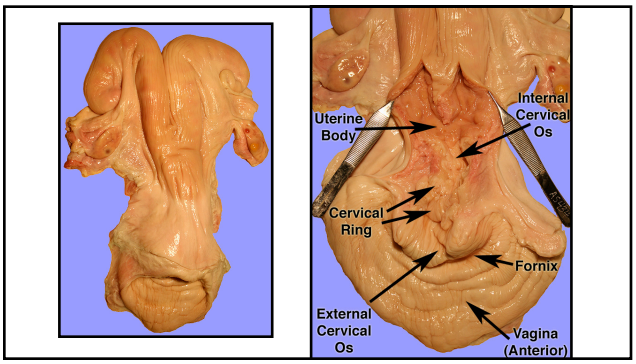
Uterine Histology



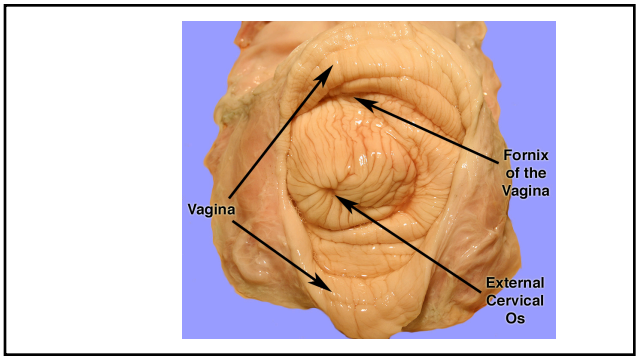

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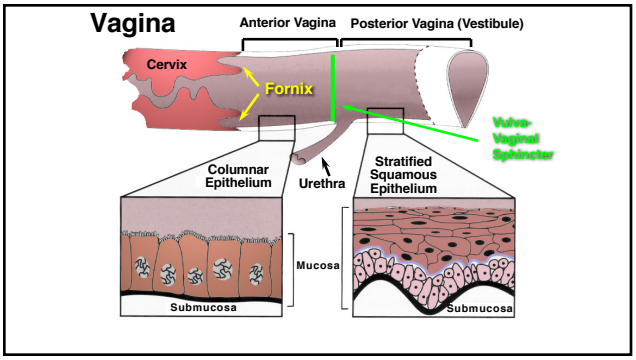

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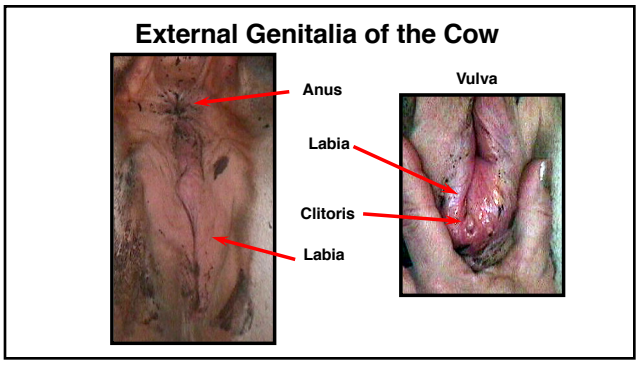

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41

## Quiz 1c

What are the key components that ensure the bovine has only 1 or at most 2 calves ?




42

## Quiz 1c

What are the key components that ensure the bovine has only 1 or at most 2 calves ?

The ovary only ovulates 1 or at most 2 oocytes at a time.

The uterus is not large enough to handle more than 1 or 2 calves as they fill an entire horn each.




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## Phenomena For Fertility

- vagina dentata - a vagina with teeth
- female bedbug - no vagina
- hysterectomy - if woman went to long without becoming pregnant then uterus would wonder in body causing hysteria and other distresses
- hyena - clitoris is very large and looks like the male penis; female also has a false scrotum (labia); female is the dominate sex and produces more testosterone

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