Do males have a surge and tonic center?

NO - only a tonic center

What animal does NOT have an ampulla?

Boar Lenlargement of vas deferens.

What are the 2 stages of the luteal phase?

Metestrus 4 diestrus

Luteinization is ...

- a.) the process by which granulosa cells (large luteal cells) and theca cells (small luteal cells) are transformed into luteal cells
- b. the process whereby luteal tissue (CL) undergoes regression and cell death
- c. a material that promotes luteolysis (death of CL)
- d. having a stimulating action on the development or assisting in maintaining the CL

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If False, correct the statement to be True:

True / False. Functional luteolysis is always second because it must undergo structural changes before it can changes its function. Its always IST DIC P4 production

True (False: The testes need to be warmer than the body to help the sperm not deal with cold shock.

The testes need to be cooler than the body to help sperm not be neat stressed

Explain the difference between functional and structural luteolysis:

Functional: (always 1st) - decreuses P4 production · Uterine P672a binds LLC = 1 in Oxytocin

· PAFZa signaling: V LDL receptors on Lutealcell + LH recep.

Structural: (U-10 hrs after 1/4 tellysis) = Lutal Cell death (apoptosis)

- Small luteal cells + endothelial (blood) cell die 1st; LLC die 2nd.

- Immune Cells digest/remove Fragments.

PGF2a & blood flow to the CL

1 in Oxytoun (LLC)

SLC have an oxytoun Receptor

What is required for luteolysis?

Uturne PAFaa

Is testosterone still produced in cryptorchids?

Ves, thermoregulation is nindered

What are the 3 parts of the penis?

- · Base: (100+) attachment portion
- · Smuft: main portion
- · Glans penis: (tip) homologous to the ditons in female -List and describe the types of penile tissue and what species may be associated with each:
 - · MUSCUlovascular: lots of erective Hissue, little connective Hissue

exi Stallion, numan, doa

Fibro elastic: dense more ct, sigmoid flexure allows penis

Ex: Bull: 1 = 300° counterclock wise)

Boar: (u turns erect; iturn maintains until erection

Kam (sprays formx vaging thicid)

(Filipper against are the muscles associated with the penis?

Retractor nemic according

· Retractor penis muscle: paired - maintains "s" snape & nelps Penis

· Ischio cavernosus: paired - Stop the return of bloodflow [Steaks]

e parts of the sperm head and the functions

List the parts of the sperm head and the function: · Nucleus (naploid): condensed DNA stabilized by disulfide bonds until fortilization occurs — mactive until fortilization

- · Plusmu membrane: little cytoplasm remaining in sperm; surrounds tail.
- · Apical Ridge: indicates viability not present = sperm death. Bind to zona pellucida
- · Acrosome: similar to lysosome: onzymes faciliate spein penetration of oocyte. upper 213 of Sperm nead. Hyaluronidiase, acrosin, corona penetratingenz.
- · Post acropmal ridge: Sperm attaches nead to vitelin membrane of oayte during fertilization

What's the difference between primary and secondary sperm abnormalities?

1º - arise in TESTES blc faulty differentiation

2° - arise in EPIDIDYMIS b/c faulty transit and/or materiation

Describe the 3 portions of the epididymis and their functions:

· Caput: 1 put a cap on your nead - top): fertilization factors are added. Sperm are NOT motile or fertile. Proximal cytoplasmic droplet

· Corpus: I middle | body): (army gear) decapitation factors added. Some motility cytoplasmic droplet moves down.

o Canda: (bottom/(rwer): "Swimming" factors are added stored here. distal and added stored here. distal and bat order:

In what order, do spermatozoa get transported? (1-11)

Corpus Epididymis Seminiferous Tubules Urethra Rete Tubules Caput Epididymis Vas Deferens -- Notpresent in boar Cauda Epididymis Ampulla Efferent Duct Colliculis Seminalis Mediastinum

to reduce Metabolis

What binds to the zona pelucida?

The apical ridge

What are most sensitive to heat stress? Why?

spermatids ble they undergoing morphological changes.

Cycle of Seminiferous Enithelium

Species:	Length of Time (days):
Bull 🖟	13.5
Boar	8.3
Ram	10.
Stallion	22

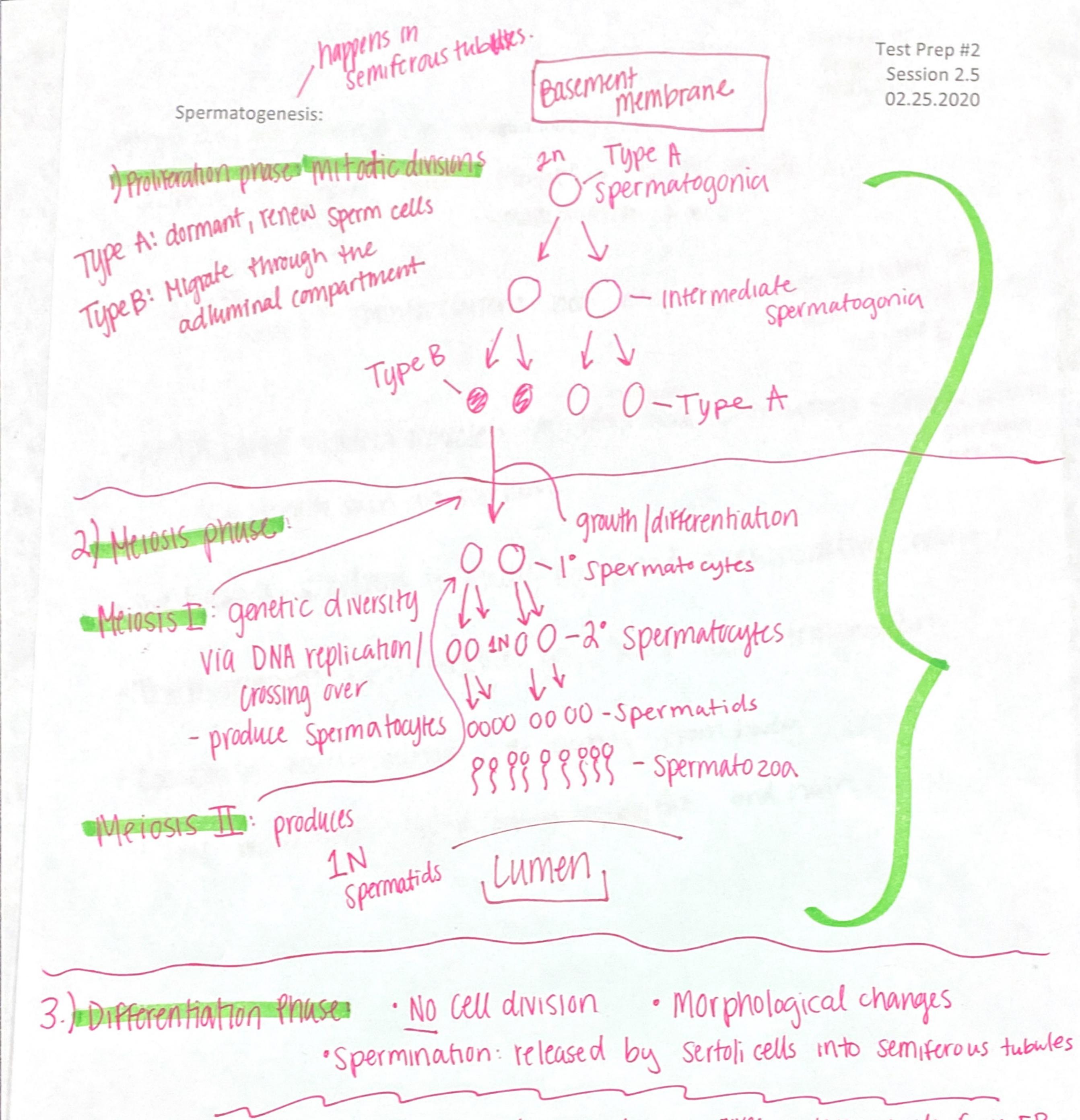
How long is a bull's length of spermatogenesis in days?

days
Stallion/Ram: 49 days

What would a producer look out for in their male species?

· Scrotal circumference | size · Morphology · motility · daily sperm production

Draw out and label the male reproductive tract.



- Golgi phase. Making of acrossome. Golgi apparatus receives proteins + lipids from ER.
 It modifies, sorts, concentrates, 4 packs them into Jealed tubules.
- cap phase: granules flatten to form cap over nucleus primitive tail forms
- acrossmal phase: sperm head begins to take shape nucleus elongates, acrossme spreads over 2/3 chromatin condenses, extension of Augelium, mitochondria originates towards neck. Thickus,

- Monthwighton phase: results in spermatids w/ motile potential

· DNA compacts + sperm is mert:

- · Cremaster Muscles: "fight or flight" -> Sketetal muscle -> manipulation of testes.
- · pampinform ; counter current heat exchange; cools the blood to testes & warms blood to body.
- TUNICA Dartos: Smooth muscle: can the stam contractions: change location 4 surface area
- · Sweat glands: Scrotum is fully equipped. = evaporative cooling
- · Thermoreceptors: Nerves control response of testes temperature
- · Location of testes: outside & away from body

· Low insulation: Mick SKIn, Subg. Fat, and nair.