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Research Gate

- An easy way to find many full-text publications
- https://www.researchgate.net/profile/Odd_Heglund/publications?pubType=article



Removal of gonads

- In males: the testicles
 - Compare the origin of *testify*
- Cultural differences: USA and Australia reports 50-85% of dogs are castrated



Why castrate?

- Medical reasons:
 - Cryptorchidism, perineal hernia, perianal adenoma, prostatitis, prostatic enlargement, prostatic cysts, testicular tumor...
- Other reasons: "male dog aggression", stray, hyper-sexuality, urinary marking



“Normal castration” – 2 questions

- Closed or open orchidectomy
 - (closed = *tunica vaginalis* included in ligation)
- Where to make the incision:
 - Pre-scrotal
 - Scrotal incision / scrotal ablation



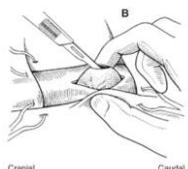
Male dog: Closed or open

- Hamilton et al 2014, Open orchidectomy is associated with a higher overall complication rate in the first 10 days after surgery than closed orchidectomy.
 - Both “orchiectomy” and “orchidectomy” are used

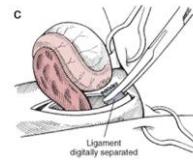


Castration male dog

- Fossum, 27-7

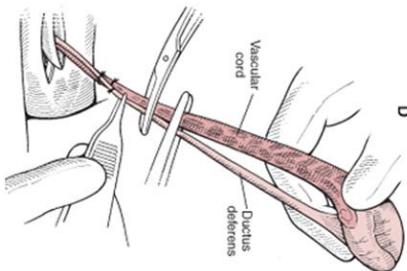


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- Open technique
- You may ligate tissue at distal end: tunica / gubernaculum / m.cremaster.
- Large scrotum – remove

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- Double ligatures encircling vascular cord and ductus deferens, ca 5-7 mm apart. Fossum has individual ligatures at ductus deferens and vascular cord – this is NOT our tradition.

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From Peter Holt "Urological disorders of the dog and cat"



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The distal ligature may be anchored



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Scrotal ablation male dog



Indicated at "pendelous scrotum"

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Ligate tissue in the same way...



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Cryptorchidism "hidden testis"

- Diagnosis after 6 months of age.
- Ca 10% of all males
- Infertility due to higher temperature (3-4°C) compared to scrotum
- Increased risk (ca x 10) for tumor, torsion
- Treatment: "Wait and see" or castration

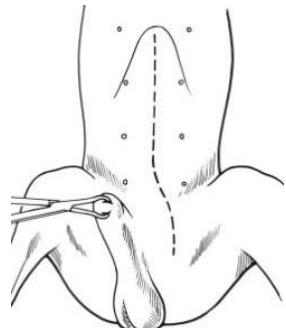


Fig 19-2: Ligate or cauterize large branches of the caudal superficial epigastric vein at the cranial aspect of the prepuce.



Castration male cat

- Male cat – open (cut through all layers)
- The wound is left open – not sutured. Why?
 - Tradition

Castration male cat





- Open castration – cut through layers
- The tunica may bleed – crush tissue or ligate



- Ligation in groove – crushed tissue
- Inspect ligated tissue and tunica

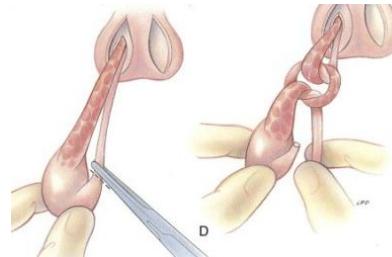
Castration male cat

- Method without suture...



Castration male cat

- * Method without suture... FIG 27-8



Gonadectomy – males

- Dog – open or closed, pre-scrotal or scrotal
- Cat/Feline – open
- Rabbit – closed (or open)
 - Prefer closed if the skin is not sutured
- Guinea pig – closed, intra-cutaneous suturing
 - Leave the fat (next slide)!



Generally: always careful handling with tissue

- And ALWAYS inspect the ligatures

Questions?

