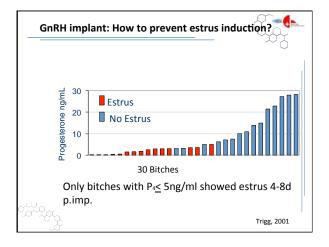


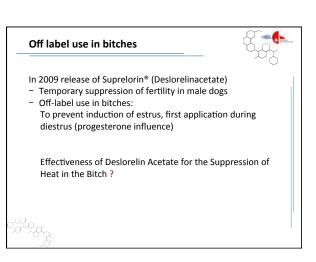
GnRH analogue implant



Trigg et al., 2001: Use of a GnRH analogue implant to produce reversible long-term suppression of reproductive function in male and female domestic dogs

- Deslorelin at all doses increased duration of the mean interestrous interval and suppressed estrus for periods of up to 27 months
- 6/9 bitches became pregnant in first heat after recovery
 - 4 gave birth to healthy litters
 - 2 were necropsied close to parturition
 - ightarrow treatment-induced effect on fertility is reversible
- No inflammation at site of implantation





Material and methods

Retrospective study

- Inclusion criteria:
 - Intact bitch
 - At least one Suprelorin® implant to suppress estrus
- Telephone interview with the owner (questionnaire)
- Interview with the veterinarian of the patient
- History of the dog
 - Time of first implantation
 - Stage of estrus cycle, weight of the dog
 - Implant size and number of retreatments
- Success of treatment
- Side effects
- Failure of estrus suppression



Bitches



n=102

- Patients from our clinic (n=31)
- Patients from 20 other veterinary clinics/practices (n=71)
- 47 different pure breeds and 7 mongrels: Eurasier, Boxer, Cocker Spaniel....
- Median weight 26 kg

Implantation

- Time of first implantation: median age 21 months
- P4 in 54 bitches (values above 5 ng/ml)
- Dosage/dog: 4.7 mg, 2 x 4.7 mg, 9.4 mg
- Frequency of implantation: 1 to 5 times

Median observation period of 316 d

Material and methods

Def: Failure of estrus suppression

Estrus signs

A: Major criteria

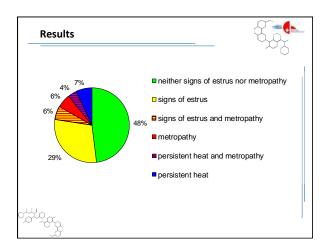
- Mating observed
- Acceptance for mating
- Estrogen level increased
- Superficial cells in vaginal smear

B: Minor criteria

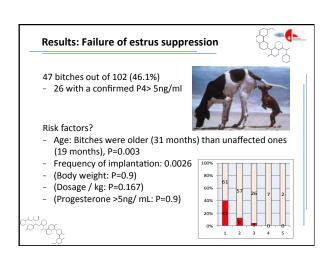
- Attractiveness to males
- Enlarged vulva
- Bloody vaginal discharge
- Bilateral alopecia

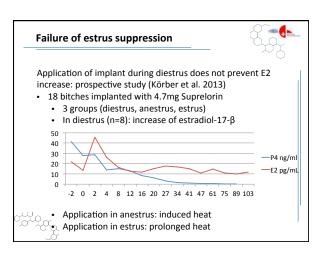
One major criteria, two minor criteria

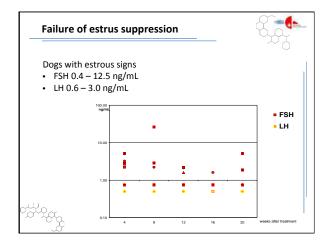


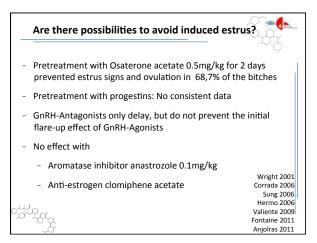


ACC&D 5th International Symposium on Non-Surgical Contraceptive Methods of Pet Population Control









Prepubertal bitches



Trigg 2006:

- 9.4mg deslorelin at 4 mo of age (n=6)
- 9.4mg deslorelin at 7 mo of age (n=6)
- Placebo at 4 mo of age (n=6)
- → All bitches implanted at 7 mo of age showed estrus signs 1-2 wk p.imp.
- ightarrow No bitch implanted at 4 mo showed estrus signs during observation period (36 wk)
- ightarrow Control group: 5 showed first estrus 12-28 wk p.imp.

Schäfer-Somi 2012

- 10 bitches (mean age 4 months) 4.7mg deslorelin
- No signs of estrus but increase in superficial cell index

Body development unaffected

Six prepubertal bitches in our study



Effectiveness

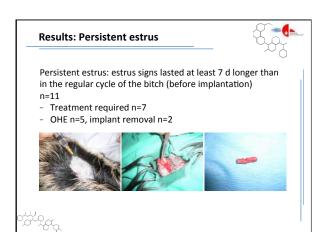
5 dogs (6-8 months) showed for 1-21days signs of heat (2-13d after GnRH-treatment)

1 bitch (5.5 months) no signs of heat

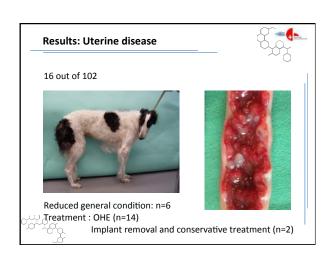
Retreatments

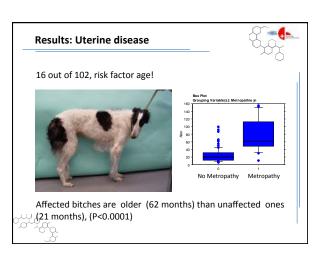
- Once n=2,
- Twice n=3
- Three times n=1

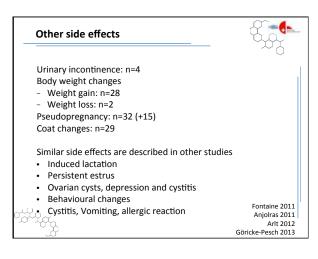
All owners are satsified (n=1) or very satisfied (n=5)

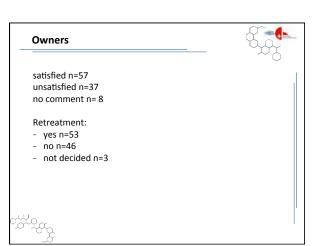


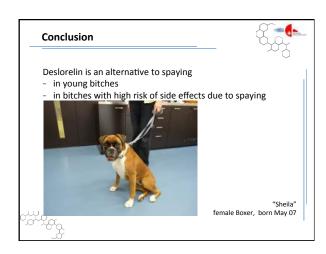












Conclusion



Deslorelin is an alternative to spaying

- in young bitches
- in bitches with high risk of side effects due to spaying

Owner should be advised about

- possibility of failure of estrus suppression despite application during diestrus
- possible necessity of implant removal or spaying

Application at the umbilical region

Further studies are needed!



Thank you for you attention!

Devenda Zaich
Kink for Improbaktionsredition