



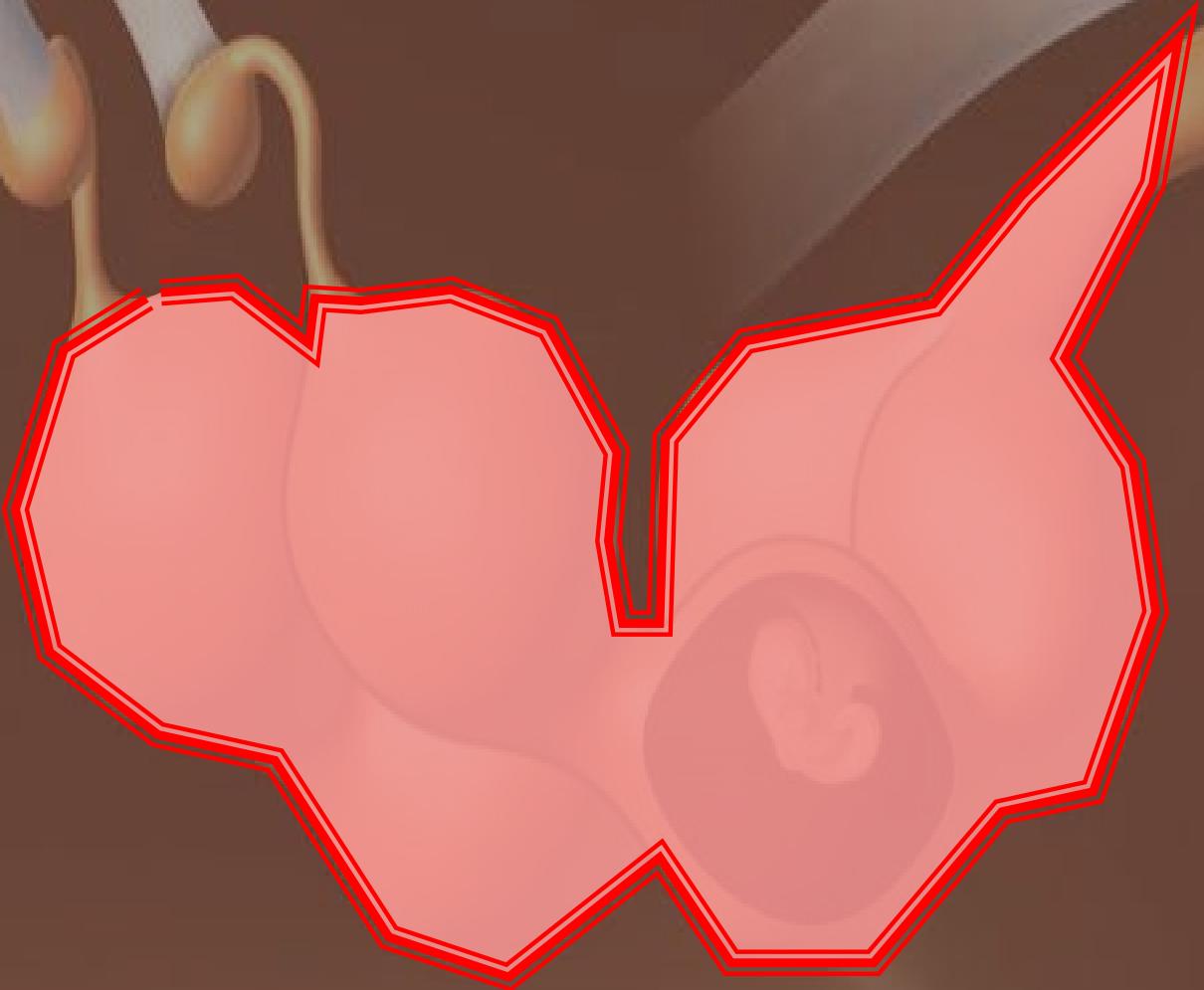
Canine Uterine Disorders

The end of the reproductive career ?

Dr Emmanuel Fontaine
Royal Canin Canada



FERTILITY
INFERTILITY



?

?

?



The story of

G E N O A

The title consists of two parts. The first part, "The story of", is written in a black, cursive, sans-serif font. The second part, "GENOA", is in a bold, blocky font where each letter is split vertically: the left half of each letter is red with white text, and the right half is white with black text. The letters are G, E, N, O, and A, arranged horizontally.

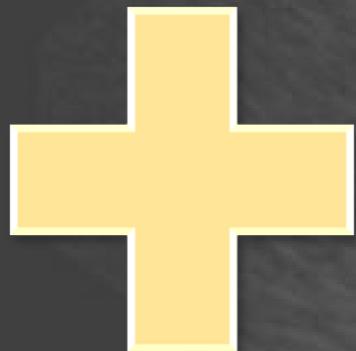
Consulting for : **VAGINAL DISCHARGE**

PYOMETRA
OVHX

= pus in the uterus

1.3cm
1.34cm

INFECTION



HORMONAL

1.30cm
1.34cm

Reproduction in Domestic Animals

Reprod Dom Anim 49 (Suppl. 2), 28–32 (2014); doi: 10.1111/rda.12302

ISSN 0936-6768

PGF₂α

Dogs

Contents

~~+/-~~ Pyometra is a reproductive disorder that occurs in bitches over 8 years of age in which physiological effects of progesterone on the uterus play a major role. The traditional therapy for pyometra is ovariohysterectomy. The main advantage of ovariohysterectomy over medical management is that it is both curative and preventive for recurrence. However, surgery is associated with the risk of death. During the last 10 years, treatments have been proposed to treat cervical pyometra. The most effective minor side effects seems to be the replacement of it with a single dose of progestrone with or without the additional treatment with low doses of prostaglandins.

AGI-PRIST OABERGO!!

moderate. The uterine horns are narrow in diameter and the lumen cannot be distinguished on ultrasound. In

Transcervical endoscopic catheterization technique (TECT) with uterine lavage to improve clinical outcomes of medically managed pyometra in the bitch:

Case Studies

Marthina Greer, DVM, JD*; J. Curtis Zella MS, DVM*, Cheryl Lopate, MS DVM**, and John Verstegen DVM, MSc, PhD***

*Veterinary Village LLC, International Canine Semen Bank-Wisconsin, N11591 Columbia Drive, Lemira, Wisconsin USA, www.smallanimalclinic.com

**Reproductive Revolutions, 9275 SW Barber St Wilsonville OR USA www.reproductive-revolutions.com

*** MOFA Global, Verona WI USA, www.mofaglobal.com



Something I must tell you about: TECT, a weird acronym but a great breakthrough in canine reproduction

Posted by Emmanuel PRO Technical Service on August 20, 2014 at 6:30am [View Blog](#)





Fertility after medical treatment of uterine diseases in the bitch: a retrospective study on 24 cases

Virbac
ANIMAL HEALTH



E. Fontaine ^a, G. Bassu ^b, X. Levy ^c, A. Grellet ^d, A. Fontbonne ^e

CERCA, Animal Reproduction, Alfort National Veterinary College, 94700 Maisons-Alfort (Paris)
France. efontaine@vet-alfort.fr

RESULTS

Data regarding the population are presented in Fig 2. Treatment of pyometra or CEH efficiency was 95.8% (23/24 bitches). Further pregnancy rate was 79.2% (19/24 bitches), and mean litter size was 4.5 ± 3.6 puppies (from 1 to 11). Repartition of the litters according to their size was considered (Fig 3). Variations of the litter size according to the size, age and breeding management are presented in Fig 4. Pyometra recurred in 20.8% (5/24 bitches) during the following luteal phase: none of these five bitches was pregnant.



The story of

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Medical Treatment: *PGF_{2α} + Aglepristone*

A German Shepherd dog with a tan and black coat is lying down on a light-colored surface against a plain, light gray background. The dog is positioned horizontally across the frame, with its head towards the left and its body extending to the right. It has a serious, attentive expression, looking directly at the viewer.

No the end
of her reproductive career

The story of

MAEVA

Consulting for : ***INFERTILITY***

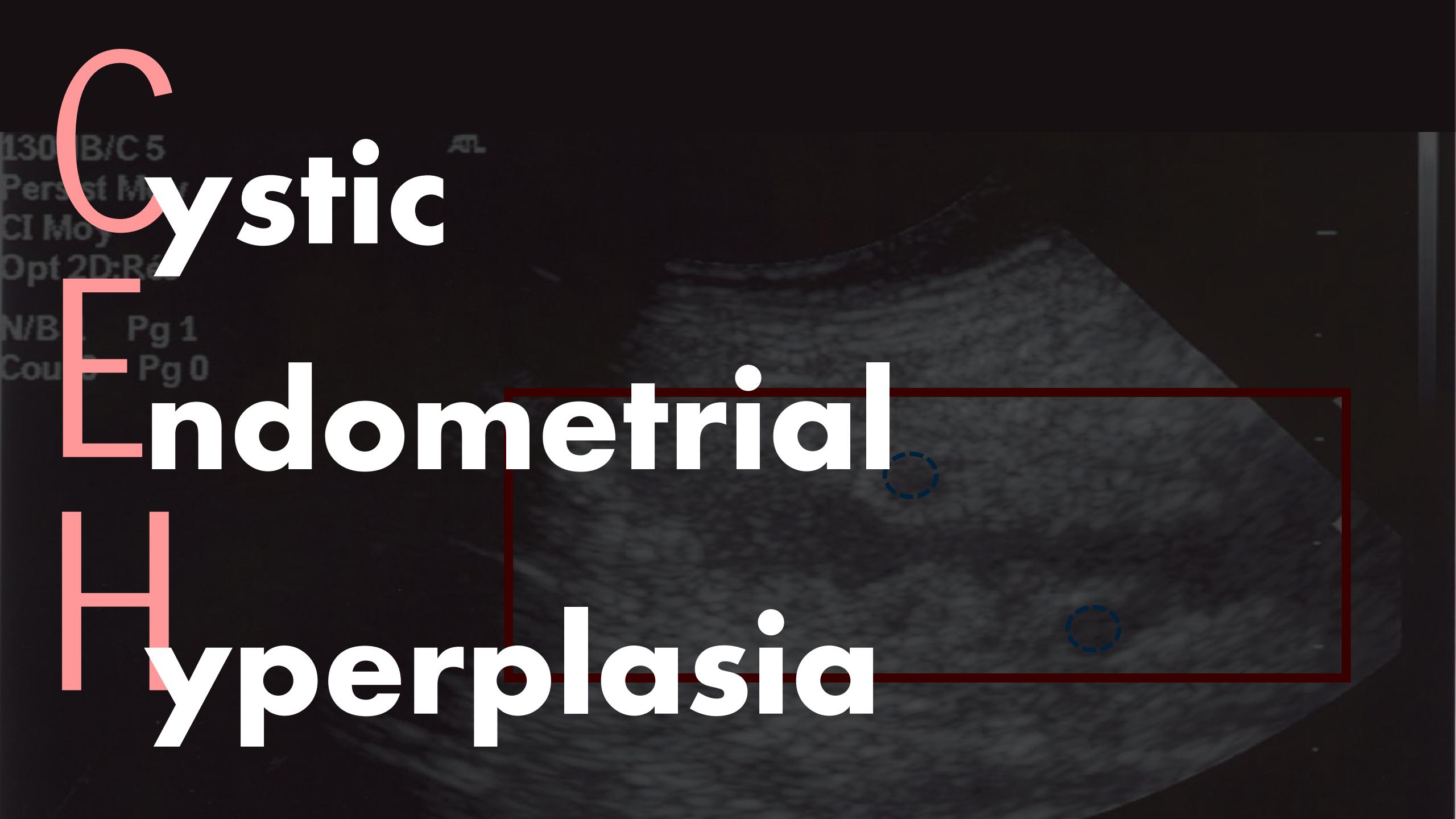


130 B/C 5
Pers st Moy
CI Moy
Opt 2D:R

N/B Pg 1
Cou Pg 0

Cystic
Endometrial

Hyperplasia



MUCOCOMET

= mucus in the uterus

DA

Absolutely
NOTH...
ing

The story of

A ENDOMETRITIS

What would you do?
Uterine Biopsy



Histopathologic findings in uterine biopsy samples from subfertile bitches

Gifford AT¹, ...

Author information

Abstract

OBJECTIVE: To describe the histopathologic findings in uterine biopsy samples from subfertile bitches.

DESIGN: Retrospective study.

ANIMALS: Dogs.

PROCEDURES: Uterine biopsies were evaluated from 100 dogs from which uterine samples were taken during ovariohysterectomy or hysterectomy.

The prevalence of endometritis was 60%.

RESULTS: The most prevalent histopathologic finding was lymphocytic endometritis, which was significantly more common in older age groups.

CONCLUSIONS AND CLINICAL RELEVANCE: Endometritis may be related to subfertility in bitches. Endometritis is an important diagnostic finding in dogs with endometritis.

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NSA

...

Use of a nonsteroidal anti-inflammatory drug after insemination in bitches with previous infertility or pregnancy loss: a retrospective study in 15 bitches

Borges P.^{*}, Maenhoudt C.[†],
Fontbonne A.
CERCA (Centre d'Etude et de Recherche
Ecole Nationale Vétérinaire d'Alfort,
orges@vet-alfort.fr

CARPROF MELOXICA

during 5 days post AI

Combination of intrauterine insemination and nonsteroidal anti-inflammatory drugs administration is efficient method of achieving pregnancies in normal and subfertile bitches

Wojciech Niżański, Honorata Bodnar, Hanna Mila, Marta Gotowiecka

Department of Reproduction, Wrocław University of Environmental and Life Sciences,
Poland

wojtek.nizanski@gmail.com

Intrauterine insemination is an effective method of achieving pregnancies in cases of subnormal semen quality in bitches.

Semen polymorphism, epithelial inflammation and steroid inflammatory drugs (cyclosporine, flunixin meglumine) were used to compare the results of insemination in normal and subfertile bitches.

The aim of the study was to compare the results of insemination in normal and subfertile bitches with the use of different methods of insemination.

MELOXICA

2-4d AND 15-17d post ovulation

Material and methods. A total of 100 bitches of different breeds and ages of current breeds inseminated in Wrocław Department of Reproduction on 2013-2016. The age of bitches varied 2 to 7 years (mean 4.8 ± 2.1). Females were divided into 2 groups. Group I ($n=40$) consisted of normal bitches with history of previous pregnancies and without any problems with conception and delivery and Group II ($n=60$) consisted of subfertile bitches with history of previous pregnancies and with problems with conception and delivery.

The story of

MAEVA

Medical approach: *Meloxicam after Als*



A golden retriever dog sits in a blue tub, looking towards the right. Several puppies of the same breed are nestled around her, some looking towards the camera and others looking away. The background is dark and out of focus.

No the end
of her reproductive career



SEVERE FIBROSIS

*The story of
the dog*

Consulting for : **INFERTILITY**

A black and tan dog, possibly a Bernese Mountain Dog or similar breed, stands in a grassy field. The dog is facing towards the right of the frame, with its head turned slightly back over its shoulder. It has a dark coat with tan markings on its face, chest, and paws. The background is a lush green field under a clear sky.

The end
of her reproductive career

of

EMBRYOT

Seunghoon Lee[✉], Minghui Zhao[✉], Jingu No, Young Hur, Hyo-Jeong Kim, Kyung-Hwan Kim, Hyun-Jae Kim, Seung-Hwan Kim, Young Hur*

National Institute of Animal Science, RDA, Wanju,

● These authors contributed equally to this work.

* tyohur@gmail.com

transfer



STEM

CELL

therapy

J Dairy Sci. 2014 May 15. pii: S0022-0302(14)00368-3. doi: 10.3168/jds.2013-7832. [Epub ahead of print]

Effect of trace mineral supplementation on selected minerals, energy metabolites, oxidative stress, and immune parameters and its association with uterine diseases in dairy cattle.

Bicalho ML¹, Lima FS¹, Ganda EK¹, Foditsch C¹, Meira EB Jr¹, Machado VS¹, Teixeira AG¹, Oikonomou G¹, Gilbert RO², Bicalho RC³.

Fertil Steril. 2014 Mar;101(3):759-66. doi: 10.1016/j.fertnstert.2013.11.008. Epub 2013 Dec 17.

Female dietary antioxidant intake and time to pregnancy among couples treated for unexplained infertility.

Ruder EH¹, Hartman TJ², Reindollar RH³, Goldman MB⁴.

Vet Res Commun. 2003 Feb;27(2):159-74.

The influences of dietary intakes and supplementation with selenium and vitamin E on reproduction diseases and reproductive efficiency in cattle and sheep.

Hemingway RG.



Thank you for your attention !



emmanuel.fontaine@royalcanin.com



www.linkedin.com/in/emmanuelfontaine



www.facebook.com/emmanuel.fontaine.758



www.twitter.com/DrEFontaine



www.google.com/+EmmanuelFontaine974

