

NOW!
Register for May 12th
Biannual Breeders Seminar

What is
Available Over
the Weekend?

Get Your Dogs'
Eyes & Heart Certified
Freeze Your Studs' Semen!
- Sunday April 29th

INFERTILITY
IN MALE DOG

EMA &
REIKO
Breeding Success Story



BROADVIEW REPRODUCTIVE SERVICES

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**QUALITY CARE
WITH COMPASSION**



Broadview Reproductive Services

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What's New



On March 3, 2018, I traveled to the Breeder's Excellence Seminar at the University of Pennsylvania Veterinary School in Philadelphia. Dr. Norris, Carrey, Kala and I attended lectures on male infertility, parasitology, dermatology, genetics, and an update on herpes and brucellosis. There was also a seminar comparing pros and cons as well as the most recent success rates of vaginal insemination vs trans-cervical insemination (TCI) and surgical insemination.

Based on recent studies it is recommended that more TCIs be performed as they are considered very safe because general anesthesia is not required and they produce higher conception rates than vaginal inseminations. There is no healing and recovery

time after a TCI. No need for the "cone of shame!" We can perform two TCIs compared to one surgical insemination during an estrus cycle, allowing live sperm to be present in the uterus for a longer period of time. There is also consideration for the scar tissue that builds up after surgery. If you keep cutting into scar tissue after surgical inseminations and C-Sections, healing may become an issue.

TCI is not completely without risk, however. There have been rare reports of uterine rupture with the catheter. Moving the catheter from the vaginal canal into the uterus could potentially introduce bacteria with it. Given that, we do not see an increased incidence of infection after TCI compared to natural covers.

We often recommend a surgical AI instead of TCI for one or more of the following reasons. Litter sizes and pregnancy rates decrease with age. This is often due to cystic endometrial hyperplasia. Therefore, surgical insemination is recommended if the bitch is over 5 years old so that we may examine the uterus and rupture any endometrial cysts. Surgical instead of trans-cervical insemination is also recommended if the bitch has not become pregnant with previous breedings, and an anatomical problem with the uterus or ovaries is suspected. Lastly, when the semen to be used is in limited quantity and/or only one breeding is available.

Often, a TCI is elected instead of a vaginal insemination due to suboptimal semen quality. In other cases, a TCI is elected because the beginning of estrus was missed and progesterone tracking was incomplete.

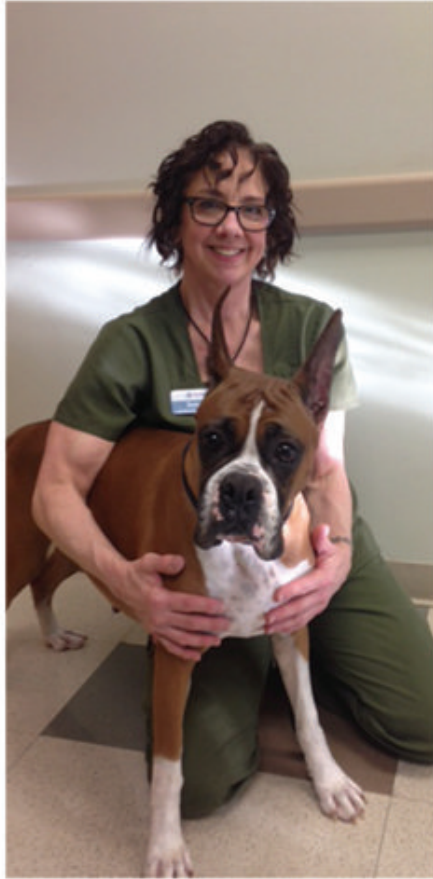
Given a young healthy bitch with good progesterone timing and a high-quality semen sample, pregnancy rates with TCIs are equal to those with surgical insemination. We have to weigh all the risks and benefits when we decide the best plan for your breeding programs.

I am pleased and proud to report that Broadview's Reproductive Services Department pregnancy success rates for vaginal and surgical inseminations continue to be at or above national averages. During our Breeders Seminar presentation on whelping and neonatal care, I will be giving a review of canine herpes virus, brucellosis, and the importance of deworming. See you on May 12th!

Dr. Heather Berry

What's New

Sandi Deines, CVT



I grew up in Rhode Island with a passion for sailing and animals which led me to attend the University Of Rhode Island for a B.S. in Zoology.

I moved to Maine where I became licensed as a veterinary technician and also worked doing genetic research for the Heart, Lung & Blood Mutagenesis Program at Jackson Laboratory. Along with my veterinary skills I also have experience as a phlebotomist working in human hospitals for many years. For the past several years, I have volunteered with a dachshund rescue, fostering many dogs while helping them find their new forever homes. It has been a very rewarding experience. I moved to New Hampshire in 2006 and have been at Broadview Animal Hospital since 2010, primarily working as a surgical technician as well as a member of the reproductive team.

I am very excited to offer my experience and skills in assisting our repro clients and patients to better improve their breeding programs.

New Team Members

I grew up on Martha's Vineyard where our family bred and raised Rottweilers, leading to my interest of animal science. This is how I started my career as a veterinary assistant sixteen years ago. I also volunteered with sea turtle and marine wildlife rescues, as well as caring for and rescuing wild baby cotton tail rabbits. My compassion for animals, science, medicine and canine reproduction then brought me to the Seacoast area. Not only did I want to pursue my career at Broadview Animal Hospital due to their compassionate care, but the vast knowledge and medicine in their reproduction department drew me closer.

Jennifer Jordan



Broadview Reproductive Services:

What's available
over the weekend?

At Broadview Reproductive Services we know that your breeding program isn't just running Monday through Friday. Dogs aren't keeping banker's hours, and a breeding or Caesarian section isn't going to wait until Monday morning. In order to better meet your needs Broadview Animal Hospital's Reproductive Services are available throughout the weekend. Full services are available Saturdays 8am to 1pm and limited urgent care services are available Saturday 1pm to 5pm and Sunday 8am to 5pm. We have a Veterinarian with advanced training from Minitube of America for Progesterone timing, Vaginal Insemination, Transcervical Insemination, and Surgical Insemination scheduled seven days a week.

- Breeding Soundness Exam and Initial Progesterone
- Progesterone Tracking
- Pregnancy Ultrasound
- Pregnancy Radiographs
- Vaginal, Transcervical and Surgical insemination
- Semen Collection for Chilled Shipment
- Planned Caesarian Section
- Emergency Caesarian Section
- Pyometra
- Neonate Tail and dewclaw removal
- Neonatal Emergencies

SATURDAY

8 AM — 1 PM

So, what can you expect on Urgent Care Saturday afternoon and Sundays?

Broadview Reproductive Service's offers Emergency/Urgent Care services on Saturday afternoons and Sundays. Healthy pet appointments are not seen during these hours so we may provide the best possible care for our sick patients. Accordingly, the Repro Doctors and Technicians are seeing emergency/urgent care appointments and will not always be immediately available for messages or non-emergency questions.

Routinely, progesterone levels are not reported until late in the day. If you need earlier results to make same day travel or urgent breeding plans, please inform the front desk and your technician so they can expedite the interpretation by the Veterinarian.

If you have a bitch in labor, a sick neonate, or other emergency, please call prior to arriving to allow our team to prepare for your arrival. Emergency Caesarian Sections will always be our top priority, but if our Doctor is already in another surgery, we may in rare cases need to refer to an ER.

Emails are reviewed daily, however, if you have an emergency, or a time sensitive question please call.

Emergency/Urgent Care services include the following and are by appointment only:

- Progesterone Tracking
- Vaginal, Transcervical and Surgical insemination
- Planned Caesarian Section
- Emergency Caesarian Section
- Pyometra
- Neonatal Emergencies

*Please be aware that there may be additional fees for appointments and for all procedures performed during our urgent care hours.

The following services are generally not available during emergency/urgent care hours:

- Semen Freezing
- Puppy health certificates
- Ultrasound for Pregnancy Confirmation

Broadview Reproductive Services is dedicated to providing you and your breeding program the best possible care and customer service. If you have special requirements or a restrictive time schedule we will do our absolute best to accommodate you. We are much more likely to be able to meet your needs if we are given advance notice of your plans. This especially applies to breeding and surgical procedures. If you have a bitch coming into heat, a planned breeding with your stud requiring a chilled shipment, or a bitch due to whelp, please let our reproduction department know as soon as possible. We look forward to supporting you while you improve your breeding program.

Dr. Sara LePine



nfertility In The Male Dog

Dr. Michael Norris

Recently we were presented with a proven bitch which had a natural breeding. Routine ultrasound at days 30 revealed that she was not pregnant. Looking into the history, it was found that multiple females bred by that stud

during that time period did not conceive as well.

Given the investment, both monetary and emotional, in finishing a dog for show or competition it is easy to see how devastating male infertility can be to a breeding program.

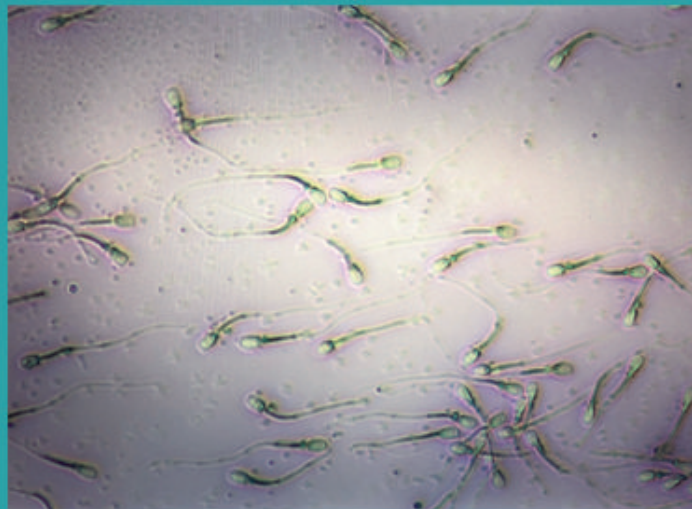
Not to mention the heartbreak that goes

along with the inability to preserve a blood line. Fortunately, with proper diagnosis, treatment, breeding timing and management many times we are able to successfully produce litters from sires which experienced infertility in the past.

The causes of male infertility can be broken down into 3 general categories, failure to copulate or ejaculate, poor semen quality and disease of the reproductive tract including the prostate and testes. In all cases a detailed

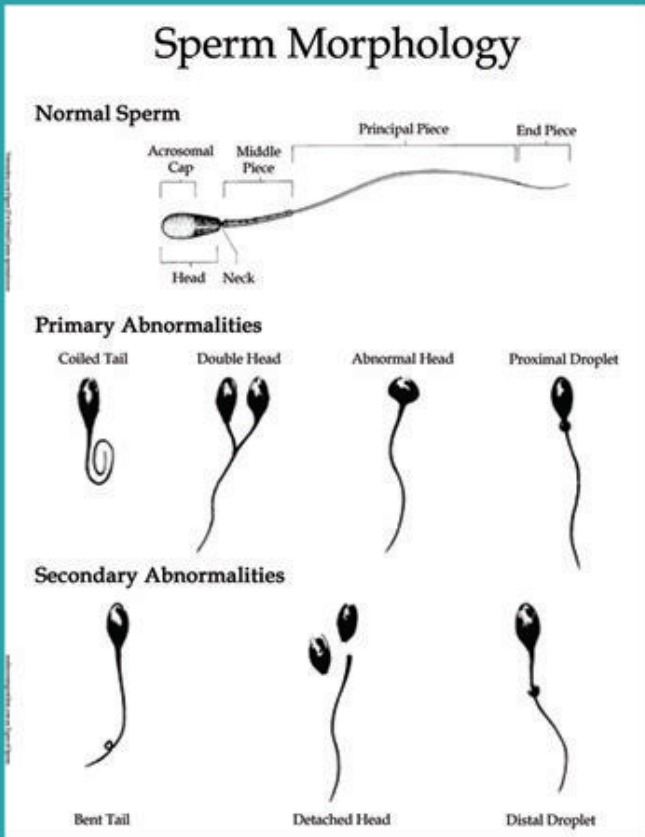
history is necessary.

This should include previous breeding history, diet including supplements, travel history, medical history and possible environmental exposures including cleaners, insecticides and medications used by those in contact with the dog. In all



cases 3 to 5 semen collections obtained over several days should be evaluated. A complete physical exam, CBC, Urinalysis, Chemistries, Heartworm and tick borne disease screening, and Brucellosis screening should serve as a minimum data base.

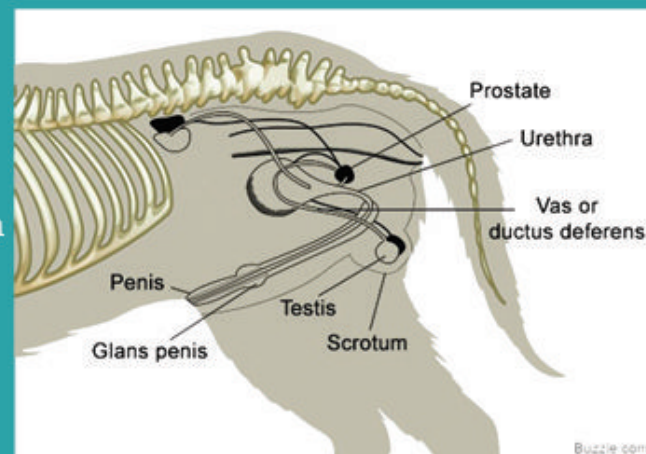
Failure to copulate or ejaculate may be due to physical or behavioral causes. Poor libido has multiple causes which are purely behavioral such as inexperience, dominant female or breed preference. A good physical exam is essential to look for medical causes. Pain due to orthopedic conditions of the spine or rear limbs must be ruled out as a cause. Disease of the penis including trauma, tumors and inflammation once identified can often be treated. Retrograde ejaculation, a condition where the male ejaculates into the bladder can often be treated medically.



Poor semen quality can be subdivided into three categories. Azoospermia is the absence of sperm in semen. Asthenospermia is abnormal sperm motility. Lastly, Teratospermia is abnormal sperm shape (morphology). Azoospermia is caused by a lack of production of sperm or a blockage not allowing sperm to leave the testicle and epididymus. An Alkaline Phosphatase test can be run on the ejaculate to determine which. Lack of sperm production may often be reversible. Blockages have a poorer prognosis for recovery. All 3 of the above can be the result of endocrine abnormalities such as hypothyroidism or Cushing's disease, drug exposure, fever, or immune mediated disease. Many times if these conditions are treated, fertility will improve after 60 days. Poor semen quality may be due to genetic disorders. In this case examination of bloodline is important to prevent future problems.

Diseases of the reproductive tract are a common cause of infertility in the male dog. Prostatic disease is thought to be the cause of 25 to 50% of male dog reproductive issues. We see prostatitis and benign prostatic hyperplasia (BPH) most commonly. Prostatic cysts, abscesses and tumors occur less frequently. All dogs with prostatitis should be screened for *Brucella canis* and if positive removed from the breeding program immediately. Ultrasound of the prostate and culture of prostatic fluid or biopsy are helpful in determining the cause of the prostatic disease and devising a treatment plan. Often BPH can be treated successfully with the drug finasteride and infection treated with antibiotics. It is important to note that BPH alone often does not cause fertility issues. Luckily, in many cases of male infertility involving poor quality semen related to asthenospermia or teratospermia, we are able to achieve successful breeding's utilizing progesterone timing and surgical insemination. Certainly there is a higher risk of not becoming pregnant or a small litter but, we are more often successful than not.

This is meant to be a general outline of how we approach male infertility. The important point to take away is that although it may take some time, once we determine the cause of infertility, with proper treatment and breeding management many stud dogs can go on to produce healthy litters.





Breeding Success Story

Hena-C Kennel was established in 1987. We breed German Shepherds from East German and Czechoslovakian bloodlines. Rieko von Hena-C was born in 1994. He is from old East lines that are very hard to find today. He was sold to a pet home and when he turned 1 year old I was lucky enough to buy him back. He was a fantastic dog with lots of working drive, correct confirmation and a super temperament. I immediately started training him to compete in the sport of Schutzhund and worked him towards other titles. By 1998 he obtained a bunch of working titles and his confirmation title.



He was V-Rieko von Hena-C SchHI,AD,TT,CGC,CD,HIC. Rieko was an outstanding producer for my kennel as well as many other breeders. When Rieko was seven-years-old I learned about collecting semen to freeze for further use. We did his first collection then and then again at nine years old. I was very excited to have this to use later down the road when all his kids had passed. I waited a very long time to find the right female to use on him. Unfortunately I tried once 4 years ago and it did not work out.



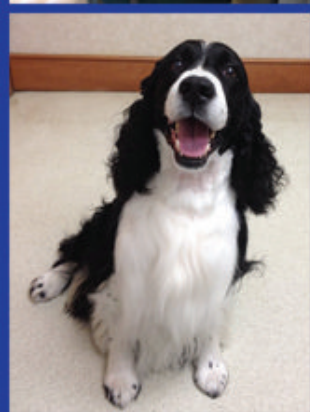
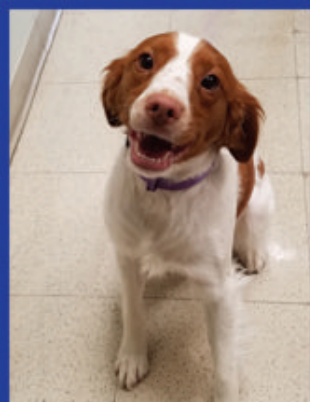


I had heard great things about Broadview Reproductive Services and decided to try again. I had just obtained Ema from Czechoslovakia and she was the sweetest girl and also possessed excellent working drives. She has some fantastic bloodlines and I thought between her and Rieko I would get some very nice puppies. So I went to

see Broadview and went through all of the required steps to make this happen. They were fantastic to work with and even though we ran into a little hitch when we thawed his semen, we still crossed our fingers and hoped for the best. We were so happy to find out that she had gotten pregnant and she delivered 6 beautiful healthy puppies in January 2018. It is so exciting to have Rieko babies back again! I will definitely be trying this again through Broadview Reproductive Services.

Pam Lake
Hena-C Kennel





Quality Care with Compassion
**Thank you for
a wonderful year**

