**Dogspiral Instructions**

**Package Contents**
Sterile IUD
Sterile catheter (insertor)
Sterile insertion rod

The insertion and removal of the IUD should only be performed by a qualified veterinarian in a properly equipped room.

Note: A demonstration video of the procedure is available at: http://www.dogspiral.com

Dogspiral is available in the following sizes:
S - for dogs under 11 lbs (5kg)
M - for dogs between 11 - 33 lbs (5kg - 15kg)
L - for dogs over 33 lbs (15kg)

**What is Dogspiral?**
Copper/silver Finish
Dogspiral is an intrauterine device (IUD) for dogs with 99.9% reliability. It consists of a copper-plated/silver-plated fibrous V-shaped spring with curved legs. A nylon removal cord is located at its base.

**Mechanism of Action**
Dogspiral is a type of mechanical contraceptive. It works based on a) the presence of a "foreign body coil" in the uterus, and b) the electrochemical properties of the copper/silver plating.

a) "Foreign body coil"
The presence of the IUD in the uterus intentionally causes a mild aseptic inflammation. As a result, the uterine lining is changed in such a way that the implantation of a fertilized egg is not possible. In addition, there is an increase of neutrophils, which phagocytose the sperm. Furthermore, in the literature, an increase of prostaglandins is described.

b) Electrochemical effect
Even more important is the electrochemical effect of the IUD. The metals copper and silver are very reactive because they discharge very lightly positively charged ions, which attract the negatively charged sperm, reduce their mobility and kill them. In addition to the spermicidal effect of copper and silver, they also act as antivirals, bactericides, and fungicides. The described effect is localized to the uterus, fallopian tubes, and cervix. In human medicine, the electrochemical action of the IUD has been demonstrably shown to last for at least 8 years. We are taking advantage of this information with the Dogspiral as well.

**Gold Finish**
The gold-plated IUD is used to treat uterine diseases such as inflammation, polyps or cysts. The healing effect is based on the clockwise polarization of gold.
Instructions for Use

Preparation of the dog
Use sterile gloves

1. The presence of dog’s owner is highly desirable in order to calm and relax the animal, and to avoid stress as much as possible.

2. The procedure can be performed with mild sedation, or if necessary with anesthesia. The animal feels no pain during surgery and is fit and agile as soon as the effect of the sedative wears off.

3. Place the dog in the dorsal position on the operating table. Clean the outer labia and the entire genital area thoroughly with a colored antiseptic solution. Clean the mucus-covered cervix with sterile swabs/pads.

Preparation of the IUD
Use sterile gloves and be sure to follow aseptic techniques

1. Check the condition and state of the IUD in the sealed sterile package. The wings of the IUD protrude about halfway out of the catheter and must lie horizontal to the vertical mark on the lower end of the catheter.

2. Place the package on a pre-sterilized instrument table. Carefully open the package at the end marked “OPEN” just until the thickened end of the catheter is exposed. With one hand, secure the catheter inside (!) the package, and carefully pull the nylon thread with the other hand until the wingtips of the IUD lie exactly at the upper opening of the catheter. Make sure that the wings are still horizontal to the vertical mark.
3. Fold back the upper part of the opened packaging film and secure the catheter (while still in the packaging) with one hand. With the other hand gently pull the two nylon thread ends so that they are even and hold them in this position with the thumb and index finger of the first hand. Now pull the insertion rod out of the packaging and slowly insert it into the catheter until it touches the base of the IUD. PLEASE NOTE: Do not let the nylon thread wrap or twist around the insertion rod. Only touch the insertion rod at the thickened end. The insertion rod must not be used to measure the depth of the uterine cavity.

4. The IUD is now ready for application and can be taken completely out of the package. Keep the component set in a horizontal position and make sure that it remains sterile.

Inserting the IUD
1. Insert the speculum. Inject 2 ml of Lidocaine-gel 2% into the cervix using a sufficiently long cannula and wait 2-5 minutes until the cervical muscles are dilated. Before application, the vagina, cervix and uterus must be positioned to achieve the proper insertion of the IUD. In order to do this, either grasp and pull the cervix with a sterile instrument such as a tenaculum, up to the labia, or use your fingers to first pull the labia to dorsalcaudal and then into the area of the ventral commissure of the rima pudendi. We prefer the second option.

2. Check whether the marking on the lower, thickened portion of the catheter is pointing upwards, so as to ensure that the wings of the IUD can spread out laterally in the direction of the uterine horns.

3. Insert the catheter very gently through the cervix and the uterine body until you feel a slight resistance when it meets the fundus of the uterus. Often this resistance is not felt, making it difficult get it to rest against the fundus. Depending on the size of the dog, the length of the uterine body varies between 0.6 in. (1.5cm) and 1.2 in. (3cm). After passing through the cervix, the catheter is inserted further to this distance.
4. Secure the catheter with one hand and with the other hand push the insertion rod completely into the catheter. The IUD is now in the correct position.

5. Remove the insertion rod from the catheter.

6. Pull the catheter out gently.

7. Following this, check the correct position of the IUD by tightening the nylon thread that protrudes from the vagina. Cut the nylon thread close beside the cervix. If the thread remains too long, there is a risk that the IUD will be pulled out during coitus.

8. Remove the speculum.

**How to remove the IUD**
Slowly and carefully pull out the nylon thread attached to the IUD. Be careful not to tear the nylon fibers. There may be slight bleeding. After removal of the IUD, the dog is soon able to become pregnant.

**Contraindications**
*Dogspiral* is not to be used:
- During pregnancy
- With dogs under one year old
- If a sexually transmitted disease is present
- With cachectic and chronically sick animals
- If the dog has an allergy to components of the IUD
- With the English Bulldog breed

**Warnings**
There should be an annual check-up at the vet to determine whether the IUD is still in the uterus.
*Dogspiral* is a new method of contraception for dogs. Prior experience with this type of contraception does not exist, apart from certain analogies with the intrauterine devices used in human medicine.

**Liability**
The manufacturer is not liable for the consequences of improper insertion or removal of the IUD. The manufacturer is not liable for any other consequences not listed here. The veterinarian handling the device and the dog owner bear responsibility for the application or removal of the IUD.
Storage

Dogspiral is intended for single use only. Store at room temperature in a dry place. Keep out of direct sunlight.