

# Veterinary Endoscopy Solution



# WHAT IS ENDOSCOPY ?

- **Endoscopy** Greek Word “Endo” means “Inside” “Skopeen” means “To See”, Examination of the interior of a canal or hollow viscus by use of a special instrument, such as an endoscope.
- **Endoscopy:** Is a procedure that allows a doctor to examination of the inside of the patients body by using a lighted, flexible instrument called an endoscope. In general, an endoscope is introduced into the body through a natural opening such as the mouth, nostrils or anus or from small incision.

# History of Endoscopy

**FIRST ENDOSCOPE by Philip Bozzini 1806**

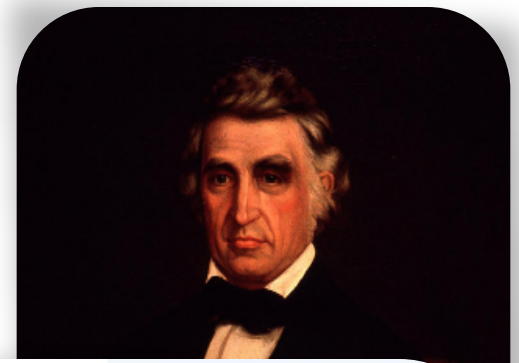


'Lichtleiter



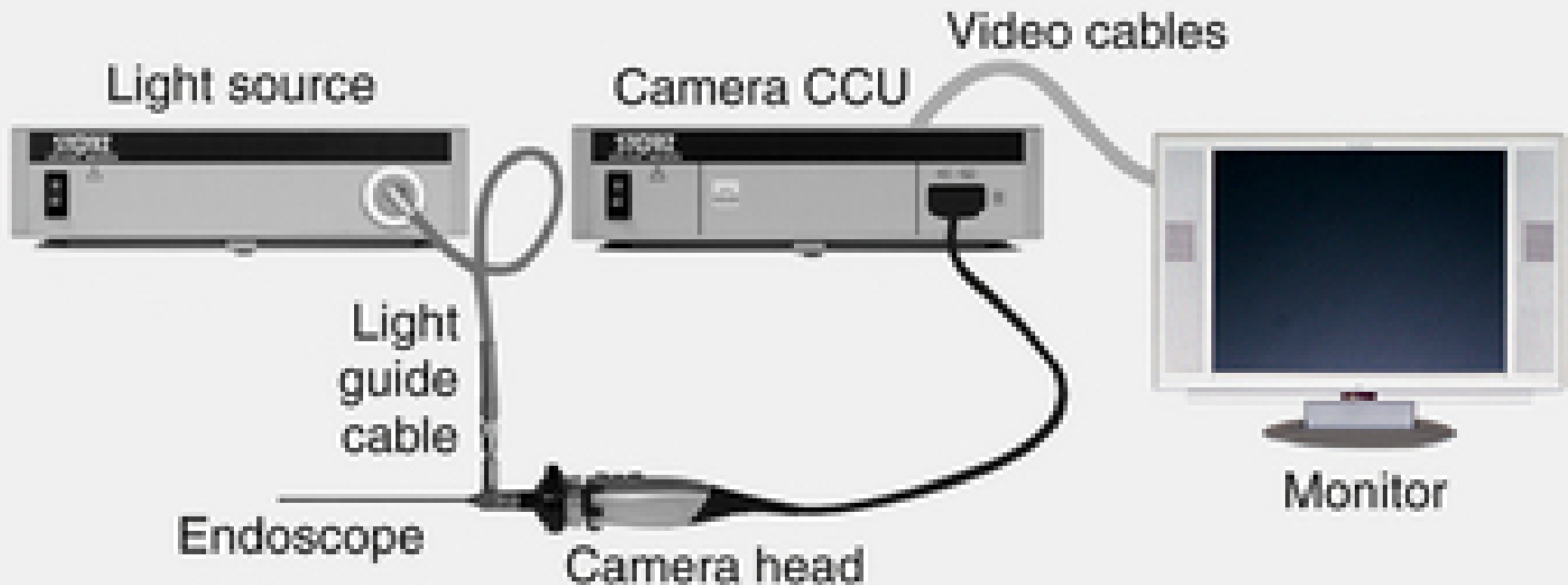
# History..... Continue.....

- 1822 **William** Beaumont , first introduced into human being.
- Maximilian **Nitze** ( 1848 – 1906) modified Edison`s light bulb and created the first electrical light bulb for using it for urological procedures
- Developement of first fiberoptic endoscope by **Basil Hirschowitz** in 1958.



# Endoscope System

- The endoscopy imaging chain includes a light source, light transmitting cable, endoscope, camera, and monitor





Instruments endoscopy setup





**Instruments  
endoscopy  
setup for  
Laboratory  
animals**



# Types of Endoscope

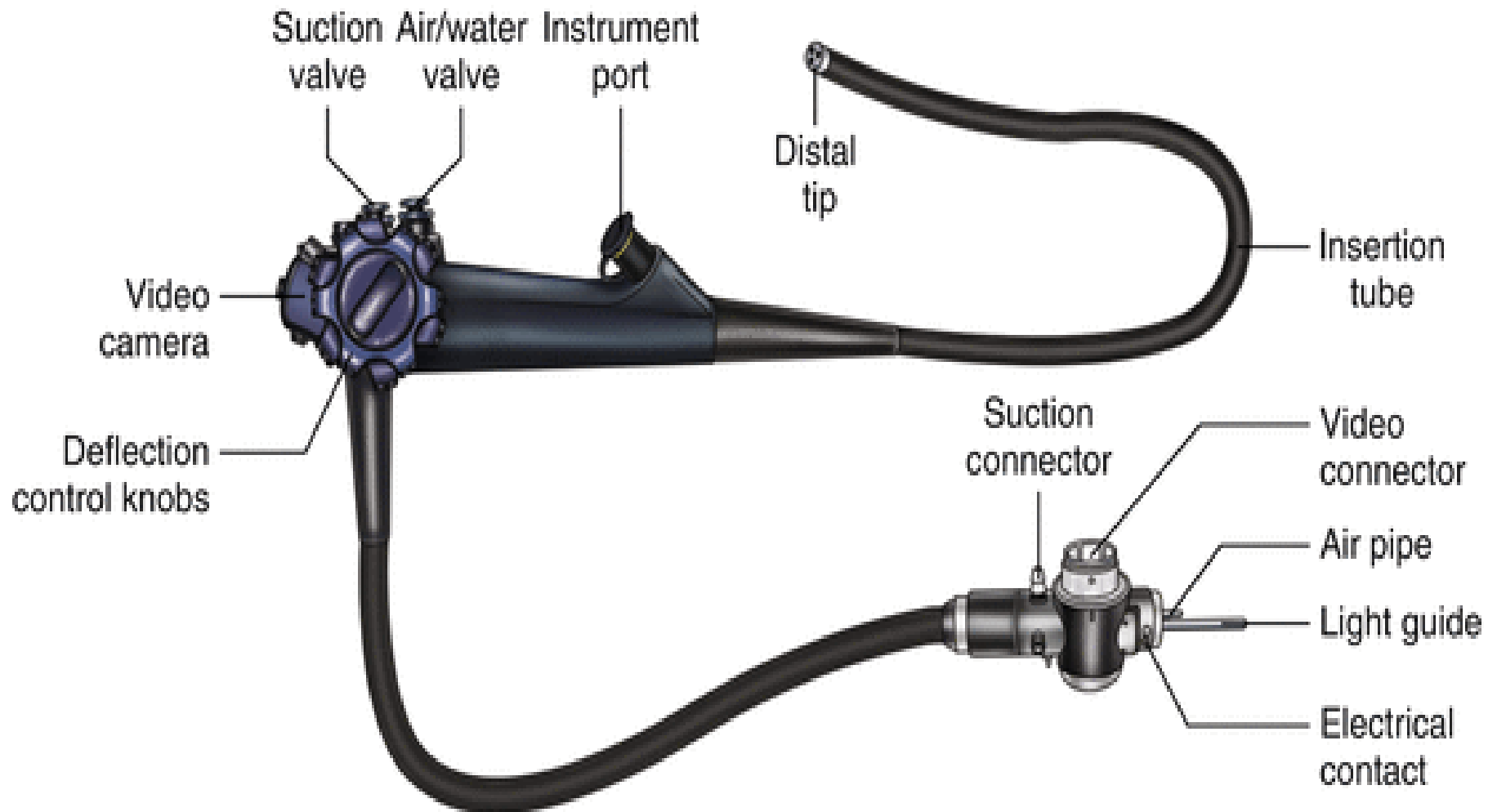
There are three type of endoscope:-

1. Flexible Endoscopes
2. Rigid Endoscopes and
3. Semi-rigid Endoscopes.

Allow the physician the ability to examine the esophagus, stomach, small and large intestine, upper and lower respiratory tract, and other organs of the body in a noninvasive manner.



# A typical flexible endoscope





# **Flexible endoscope**

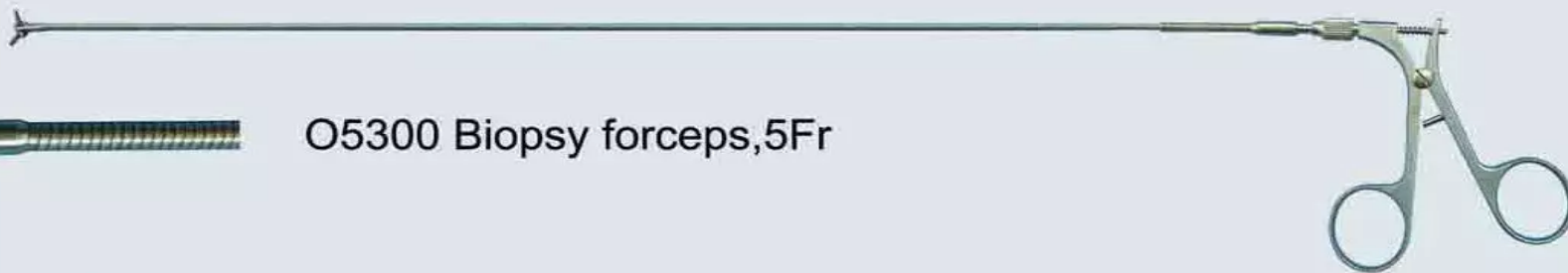
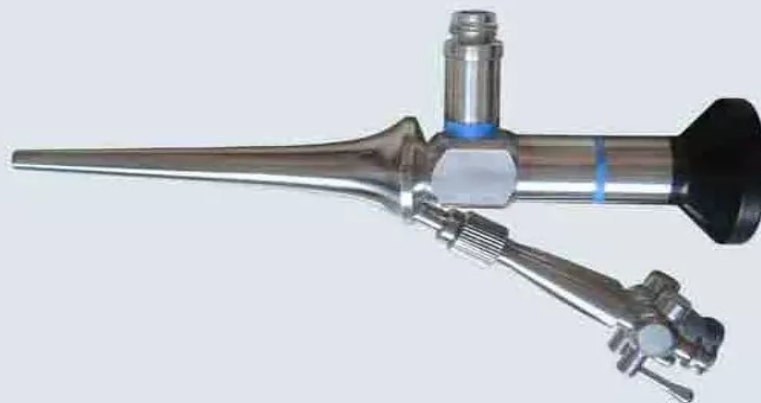
## **FIELD OF APPLICATIONS**

- Gastroenterology (GIT)
- Gynecology – Outpatient Hysteroscopy
- Urology - Percutaneous Renoscopy
- Urology – UrethroCystoscopy
- Respiratory Endoscopy (all parts)

# RIGID ENDOSCOPE



O5008 Vet otoscope(0° ,  $\phi$  5x85mm)  
Sheath with 2mm channel



O5300 Biopsy forceps,5Fr



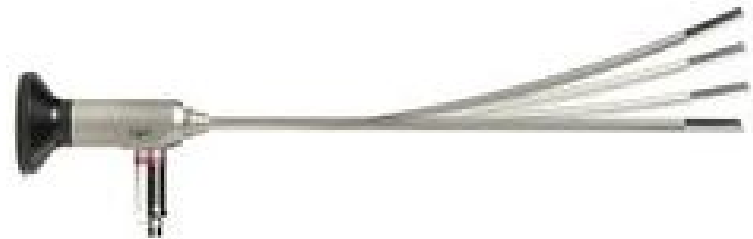
O5310 Grasping forceps,5Fr,alligator

# **RIGID ENDOSCOPE**

## **FIELDS OF APPLICATION**

- ❑ Upper GI Endoscopy
- ❑ Lower GI Endoscopy
- ❑ Ear Endoscope (Otoscope)
- ❑ Upper Respiratory Endoscopy
- ❑ Arthroscopy

# Semi-rigid Endoscope



# SEMI-RIGID ENDOSCOPY

## FIELDS OF APPLICATION

- Urology- Urethrocystoscopy
- ENT – sialendoscopy
- Arthroscopy
- Ophthalmology – tear channel endoscopy



# **Main Uses of Endoscope**

