Laparoscopy and Thoracoscopy in Equine Practice
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Minimally invasive procedures offer several advantages over traditional abdominal and thoracic surgery in the horse: Reduced morbidity, reduced hospitalization, reduced incidence of infections, faster recovery, improved visualization and/or surgical access, and improvement/development of procedures that could not be achieved with open surgery. Indications for laparoscopy in the horse include visual examination, organ biopsy, acute or chronic cholic, cryptorchidectomy, castration, inguinal hernia, ovariotomy, neoplasia, cystic calculi, nephrectomy, ablation of nephroplenic space, and embryo transfer. Equine thoracoscopy is most commonly indicated in horses with pleuropneumonia or intra-thoracic masses.
Fig. 1: Inguinal hernia
Fig. 2: Cryptorchidectomy
Fig. 3: Cryptorchidectomy
Fig. 4: Hernia repair
Fig. 5: Ovarian pedicle transection
Fig. 6: Biopsy of lung mass
Fig. 7: Retained testicle
Fig. 8: Transection of mesorchium and vas deferens
Laparoscopes

HOPKINS® Straight Forward Telescope 0°,
diameter 10 mm, length 31 cm, autoclavable,
fiber optic light transmission incorporated,
color code: green

HOPKINS® Forward-Oblique Telescope 30°,
enlarged view, diameter 10 mm, length 31 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red

HOPKINS® Straight Forward Telescope 0°,
enlarged view, diameter 10 mm, length 57 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green

HOPKINS® Forward-Oblique Telescope 30°,
enlarged view, diameter 10 mm, length 57 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red
Trocars

Size 11 mm

62103 MPL Trocar, size 11 mm
including:
Trocar only, with pyramidal tip
Cannula, working length 20 cm
Multifunctional Valve

62103 MP Same, working length 10.5 cm

60103 TXR TERNAMIAN ENDOTIP Cannula,
with thread and rotatable insufflation stopcock,
size 11 mm, working length 20 cm,
color code: green
including:
Multifunctional Valve
Seal Set, 60/10
Mandrel, for opening automatic valves

Size 6 mm

62160 MPL Trocar, size 6 mm
including:
Trocar only, with pyramidal tip
Cannula, length 20 cm
Multifunctional Valve

Reducer

62141 DB Reducer, 11 mm/5 mm
Operating Instruments, size 10 mm for use with trocars size 11 mm

60531 WSL CLICKLINE Scissors, rotating, robust, serrated, single action jaws, size 10 mm, length 43 cm including:
- Metal Handle, without ratchet
- Outer Sheath, insulated
- Scissors Insert

60531 SGL CLICKLINE BABCOCK Grasping Forceps, atraumatic, for large organs, double action jaws, jaw length 70 mm, size 10 mm, length 43 cm including:
- Metal Handle, without ratchet
- Outer Sheath, insulated
- Forceps Insert

60532 FSL CLICKLINE Claw Forceps, rotating, 2 x 3 teeth, single action jaws, size 10 mm, length 43 cm including:
- Metal Handle, with MANHES style ratchet
- Outer Sheath, insulated
- Forceps Insert

60532 BCL CLICKLINE BABCOCK Grasping Forceps, atraumatic, double action jaws, size 10 mm, length 43 cm including:
- Metal Handle, with MANHES style ratchet
- Outer Sheath, insulated
- Forceps Insert
Operating Instruments, size 5 mm, for use with trocars size 6 mm or 11 mm with reducer

60421 DB CLICKLINE Dissecting and Biopsy Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with Luer-Lock irrigation connector for cleaning, single action jaws, size 5 mm, length 43 cm including:
- Plastic Handle, without ratchet
- Metal Outer Sheath, insulated
- Forceps Insert

62178 T Palpation Probe, with cm-marking, size 5 mm, length 43 cm

62178 P Injection Cannula, Luer-Lock, needle diameter 1.2 mm, size 5 mm, length 43 cm

66083 ET Embryo Transfer Instrument, diameter 5 mm, working length 40 cm
### Needle Holders

26178 KPF  KOH Macro Needle Holder, with tungsten carbide insert, ergonomic pistol handle with disengageable ratchet, ratchet position left, jaws straight, size 5 mm, length 43 cm

26178 KPL  Same, jaws curved to left

26178 KPR  Same, jaws curved to right

### Knot Tier

26596 C  CROCE Knot Tier, for extracorporeal knotting, size 5 mm, length 55 cm
CO₂ ENDO-ARTHROFLATOR-VET

Special Features:
- One unit with laparoscopy and arthroscopy mode
- High operating safety
- Continuously adjustable insufflation pressure
- Easy to use
- Fully automatic, electronically controlled gas refill (in case of gas loss when changing instruments)

62 4325 01  CO₂ ENDO-ARTHROFLATOR-VET,
power supply 100-240 VAC, 50/60 Hz
including:
Silicone Tubing Set, sterilizable
Universal Wrench
Gas Filter, sterile, for single use, package of 10

Optional Accessories

20 4001 43  Silicone Tubing Set, sterilizable

03 1122-10  Gas Filter, sterile, for single use, package of 10

NOTE:
The pressure hose and CO₂ bottles must be ordered separately, see catalog:
Veterinary Endoscopy, Large Animals
IMAGE1 S™ HD Imaging System

The IMAGE1 S™ HX camera system is a cost-effective video imaging system which delivers brilliant, true color, FULL HD images (1920 x 1080p, 16:9 aspect ratio). Compatible with both rigid and flexible endoscopes, the IMAGE1 S™ modular platform adapts to individual customer needs and can be expanded as requirements change.

TH 110

IMAGE1 S™ HX One-Chip FULL HD Camera Head, 50/60 Hz, fixed focus, progressive scan, soakable, gas- and plasma-sterilizable, focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™

TC 200EN*

IMAGE1 S CONNECT™, connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz including:
- Mains Cord, length 300 cm
- DVI-D Connecting Cable, length 300 cm
- SCB Connecting Cable, length 100 cm
- USB Flash Drive, 32 GB
- USB Silicone Keyboard, with touchpad, US

TC 301

IMAGE1 S X-LINK, link module, for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT™ TC 200EN including:
- Mains Cord, length 300 cm
- Link Cable, length 20 cm

* Also available in the following languages: DE, ES, FR, IT, PT, RU
Light Source

Special Features:
- 300 Watt Xenon Lamp provides extremely high light intensity
- Light intensity can be continuously adjusted manually
- Natural color temperature of 6000 Kelvin

20134001  Cold Light Source XENON NOVA® 300,
  power supply 100–125/220–240 VAC, 50/60 Hz
  including:
  Mains Cord

20133028  XENON Spare Lamp,
  300 W, 15 V

69495 NCS  Fiber Optic Light Cable,
  diameter 4.8 mm, length 250 cm