We have useful instruments for soft palate surgery. Plus a range of flexible instruments designed to pass through the speculum of an otoscope to help examine and treat ear conditions.

Bulla osteotomy can be challenging – we have a specially designed retractor and a good range of rongeurs to help with your surgery.

If you cannot see what you need, please call us. We may be able to find what you need, or suggest an alternative.
Upper Airway Surgery in the Dog and Cat
Alasdair Hotston Moore MA VetMB CertSAC CertVR CertSAS CertMEd MRCVS - Bath Veterinary Referrals

Surgery of the upper airway is both a rewarding and challenging part of the portfolio of the soft tissue surgeon. These surgeries have the potential to transform the lifestyle of the patient, but can also cause life threatening complications. For them to be performed with a good chance of success, four factors should be available within the clinic: an experienced and trained surgeon, a well equipped operating theatre, post operative nursing care and the correct instrumentation. Absence of any of these will jeopardise the outcome of the surgery. Particular theatre requirements are excellent illumination (with ceiling lights and a surgical headlamp), positioning aids and surgical suction (a Frazier tip has wide application in ENT and oral surgery).

Reflecting on the surgeries most often performed, the two commonest conditions managed in the dog are laryngeal paralysis and brachycephalic obstructive airway syndrome (BOAS). Laryngeal paralysis remains an underdiagnosed disease in the opinion of many specialist surgeons. Some practitioners make the diagnosis frequently and make frequent referrals, whilst others rarely recognise the disease at all: this suggests that some clinicians are more aware of the typical clinical presentation than others. Numerous surgical procedures have been described to address the obstruction of laryngeal paralysis, but a unilateral laryngoplasty is considered the most appropriate. In the hands of experienced surgeons, a successful outcome is expected in 90% of dogs (the outcome in cats, which are affected much less commonly, is somewhat poorer).

Key equipment requirements for this surgery are self retaining retractors (Gelpi pattern), reliable ratcheted needle holders (high quality Mayo pattern) and of course a laryngoscope. For post op care, a suitable tracheotomy tube must be to hand. In the typical larger dog, disposable metal tubes are ideal for these patients. Surgical diseases in the cat are rather less common and more diverse. Laryngeal diseases of various types are reported (e.g. neoplasia, inflammatory disease, paralysis). Cup biopsy forceps are useful to collect biopsies per os in cases of uncertainty. However these cases are managed, again the clinic should have suitable tracheotomy tubes available as a precaution, since laryngeal obstruction can occur even after biopsy. Nasopharyngeal obstruction is a more common presentation; however, due to nasopharyngeal foreign bodies, nasopharyngeal polyps or (rarely) nasopharyngeal stenosis. Most foreign bodies (typically blades of grass) can be retrieved with forceps: the small right angled forceps designed for thoracic surgery are particularly helpful for exploration of the nasopharynx. The same forceps are also ideal for traction of nasopharyngeal polyps and stretching open of the strictures seen in feline nasopharyngeal stenosis.

Airway surgery is an interesting clinical challenge. The potential for post operative complications, such as worsening respiratory obstruction, should prompt the surgeon to plan carefully, ensuring the necessary equipment and aftercare is provided for the best outcomes.
**Airway Surgery**

**Soft Palate Clamp**

An overlong palate is a common cause of dyspnoea in the brachiocephalic dog. Shortening the soft palate in an atraumatic manner provides almost immediate relief.

The Soft Palate Clamp was designed by Geoff Lane FRCVS. The jaws have a special atraumatic grip to hold the very slippery soft palate.

**SOFT PALATE CLAMP**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>014040</td>
<td>Soft Palate Clamps Large 26 x 12mm</td>
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<tr>
<td>014050</td>
<td>Soft Palate Clamps Small 18 x 7mm</td>
<td>£123.60</td>
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</tbody>
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**Tonsillectomy Clamp**

The standard Negus clamp may be used in pairs for soft palate resection. A right angled version designed by Stephen Baines at the Willows is also available.

**TONSILLECTOMY CLAMP**

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>014038</td>
<td>Tonsillectomy Clamp Right Angle</td>
<td>£61.29</td>
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<tr>
<td>014039</td>
<td>Tonsillectomy Clamp Curved</td>
<td>£61.29</td>
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**Satinsky Clamp**

Useful for intra-thoracic surgery, trimming soft palates and even ears. Atraumatic design maximises haemostasis and minimises trauma.

**SATINSKY CLAMP**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>2685/03</td>
<td>Satinsky Clamps 20mm Jaw 160mm Long</td>
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</tr>
<tr>
<td>2685/05</td>
<td>Satinsky Clamps 30mm Jaw 200mm Long</td>
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**Tracheostomy Tube**

Where temporary or permanent upper airway obstruction occurs placement of a tracheostomy tube is a life saving procedure. Our Tubes are silver plated with a removable lining for easier cleaning. Metal tubes have a much thinner wall than plastic tubes. This becomes particularly critical in smaller patients.

**TRACHEOSTOMY TUBE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>014070</td>
<td>Tracheostomy Set (Silver Plate) (6,8,11)</td>
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<tr>
<td>014071</td>
<td>Tracheostomy Tubes 6mm (Silver Plate)</td>
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<tr>
<td>014072</td>
<td>Tracheostomy Tubes 8mm (Silver Plate)</td>
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<tr>
<td>014073</td>
<td>Tracheostomy Tubes 11mm (Silver Plate)</td>
<td>£133.90</td>
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<tr>
<td>014074</td>
<td>Tracheostomy Tubes 13mm (Silver Plate)</td>
<td>£139.05</td>
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</tbody>
</table>

**Tracheostomy Tube Disposable**

Although wall thickness does restrict air flow in the smallest size, the Disposable Tracheostomy Tube can be a life saver.

**TRACHEOSTOMY TUBE DISPOSABLE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>014076</td>
<td>2.5mm Internal Diameter 4.0mm External Diameter</td>
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<tr>
<td>014077</td>
<td>4.0mm Internal Diameter 6.0mm External Diameter</td>
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<tr>
<td>014078</td>
<td>5.5mm Internal Diameter 8.0mm External Diameter</td>
<td>£37.60</td>
</tr>
<tr>
<td>014079</td>
<td>7.0mm Internal Diameter 10.0mm External Diameter</td>
<td>£37.60</td>
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**Buster Starlight Diagnostic Set**

A simple torch based set for easy intubation.

**BUSTER STARLIGHT DIAGNOSTIC SET**

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<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>270500</td>
<td>Buster Starlight Diagnostic Torch 155mm</td>
<td>£56.14</td>
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</tbody>
</table>
Soft Tissue Biopsy Forceps

Designed to take samples of soft tissue masses from the ear or via the mouth.

Fits down all usual aural speculae.

Two sizes for most patients.

SOFT TISSUE BIOPSY FORCEPS

014087  Cup Biopsy Forceps 2mm Diameter Shaft 75 x 3.6mm
014087A Cup Biopsy Forceps 2mm Diameter Shaft 100 x 3.6mm
014088  Cup Biopsy Forceps 3.5 x 8mm Shaft 105 x 5.6mm

Mini Gelpis

Ideal for retraction in and around small joints or in very small patients. The curved version allows slightly deeper retraction.

MINI GELPIS

0013301 Gelpi Mini Flat 45mm Spread 90mm Long
0013302 Gelpi Mini Curved 45mm Spread 90mm Long

Hart Pinna Haematoma System

Surgical management of aural haematomas is a common procedure in veterinary practice. Once drained the haematoma must be prevented from filling up again. In addition the layers of skin and cartilage must be supported during the healing phase to prevent the development of a cosmetically unacceptable crumpled ear flap.

Historically the layers are stitched, sometimes alone but also using buttons or xray film to spread the pressure evenly to restore the ear to as normal a state as possible.

Nick Hart, a veterinary practitioner, has spent a number of years developing a dedicated system which makes the procedure straightforward. The System comprises a pair of Clamp Forceps which apply a Fenestrated Plastic Implant under controlled pressure which is then stitched into place.

Once the haematoma has been removed from the ear the pinna pads are inserted into the Forceps which are then applied to either side of the pinna. The amount of pressure is controlled using a thumb screw on the forceps. Too much pressure will cause necrosis, too little will allow re-filling. The suture needle and material of choice is passed through the holes in the pad and tied off in the usual way. The holes are unevenly sized to ease the passage of the needle which enters through the smaller hole and exits the larger hole on the ‘blind side’. The pads need to be loaded into the forceps accordingly. The Forceps are then removed leaving the pair of pads stitched in place. The process is repeated as necessary.

HART AURAL HAEMATOMA SYSTEM

014600 Hart Haematoma System (Forceps plus 24 Implants)
014601 Spare Implants Pack of 12 Sterile
014602 Spare Implants Pack of 24 Sterile
Removal of hard wax and other debris from the canine horizontal canal without causing trauma is a common problem in veterinary surgery. It is now accepted that the use of Ear Loops is more effective than cotton tipped products. Most human ear loops are too large and too short for use with the much longer veterinary speculae. Veterinary Instrumentation’s Canine Ear Loop is slimmer and longer to facilitate debris removal without obscuring the visual field. The Flexible Ear Loop is very fine and flexible for added safety. It is not cheap but should last a lifetime. Also illustrated is the Canine Ear Model, a valuable aid when explaining aural problems and procedures.

**CANINE EAR LOOP**
- 012526  | VI Canine Ear Loop 170mm Long
- 012528  | Flexible Ear Loop Cat/ Small Dog Size 160mm Long
- 012529  | Flexible Ear Loop Medium/ Large Dog Size 160mm Long
- AMJ772  | Canine Ear Model X-section

**AbsorbENT™ Ear Wick**

Ear wicks have been around for a long time in human medicine. AbsorbENT™ Ear Wick is designed as an aid in the treatment of Otitis Eterna. When liquid medication (antibiotic or corticosteroid) is applied to the sterile, compressed sponge, it gently and evenly expands to fill the ear canal, dispersing the medication and applying gentle pressure to the tissue. Available in 2 lengths, in Packs of 10.

**EW915**  | Ear Wick 9mm Diameter x 15mm Length
**EW924**  | Ear Wick 9mm Diameter x 24mm Length

**Malleable Instrument Set**

Fully flexible instruments are difficult to control. Malleable instruments allow the tips to be positioned exactly where the surgeon needs them. The forceps are available as graspers or as biopsy forceps. The Malleable Loops are available in two loop diameters 2mm and 4mm. The Instruments may be purchased as a Set in a Stainless Steel Autoclave Case. The Case comes free when purchased as a Set.

**MALLEABLE INSTRUMENT SET**
- 014098  | Malleable Grasping Forceps 145mm Shaft
- 014099  | Malleable Biopsy Forceps 2mm Cup 145mm Shaft
- 012528  | Malleable Ear Loop Curette 2.0mm Diameter
- 012529  | Malleable Ear Loop Curette 4.0mm Diameter
- 014125  | Malleable Instrument Set in Stainless Steel Case

**Fine Flexible Grasping Forceps**

The Fine Flexible Grasping Forceps have a maximum diameter of 1.7mm and are therefore ideal for small working channels and speculae.

**FINE FLEXIBLE GRASPING FORCEPS**
- 014067  | Fine Flexible Grasping Forceps 160mm Shaft

**Crocodile Forceps**

Examination of the external ear is an essential part of any investigation of otitis. For Otoscopes and Optics see chapter 20 Diagnostics. Removal of foreign bodies, particularly grass seeds, is achieved using long crocodile forceps. Available in traditional designs or as a fine tubular shaft design.

**CROCODILE FORCEPS**
- 014091  | Extra Fine Croc Forceps Tubular 3” Shaft
- 014092  | Extra Fine Croc Forceps Tubular 5” Shaft
- 014093  | Extra Fine Croc Forceps Tubular 7” Shaft
- 014089  | Extra Fine Croc Forceps Tubular 9” Shaft
- 014094  | Aural Crocodile Forceps Standard Jaw 3” Shaft
- 014095  | Aural Crocodile Forceps Standard Jaw 5” Shaft
- 014096  | Aural Crocodile Forceps Standard Jaw 7” Shaft
FireFly Wireless Otoscope

FireFly is the industry’s first Wireless High Precision Digital Video Otoscope with image and video capture capabilities. It provides unprecedented accuracy in observing the ear canal. This is a powerful tool which can be used to aid and record both medical and surgical examinations as well as improving client compliance as they will be able to see the problem for themselves. Unlike older electronic otoscopes, FireFly delivers these breakthrough capabilities – and much more – at a highly economical cost.

Performs accurate and clear otoscopy observations.
- Wirelessly captures snapshots & videos.
- Integrates easily with computer Veterinary Database Systems.
- Magnifies objects up to 50x (optical) and up to 150x (digital).

FireFly is controlled directly with the FireFly Pro Professional Image Processing Software which is bundled with the product. This state-of-the-art software enables users to capture, store, recall, view, manipulate and measure images and videos in real time. Its intuitive interface empowers users to get right to work anytime and anywhere.

FireFly Extended Speculae Set

The FireFly Extended Speculae Set consists of 6 x Aluminium Speculums in a presentation case. One Speculum contains a working channel for use with the FireFly Malleable Instruments.

FireFly Instrument Set

The FireFly Instrument Set contains Malleable Grasping Forceps and Malleable Biopsy Forceps which have longer shafts for use with the extended length FireFly Speculae.

The Instrument Set is presented in a Stainless Steel Case with Liner.

Retro Rhinoscopy Set

Examination of the retro pharynx usually requires good endoscopic equipment. However this deflecting mirror system will allow the average practice to examine the retro pharynx without a full set-up. This allows visual control over foreign body retrieval and biopsy collection. The Mirror angle is adjustable. Supplied as a complete unit with battery handle light source taking 3 x AAA batteries.

Kit contains:
E-24 Light Carrier complete with Battery Handle
E-24-21 Choanae Mirror
E-22-2 Choanae Hook
E-22-71 Antifog Fluid
K-3325-61 Storage Box

Retro Rhinoscopy Set

E-24-2166-SE  Retro Rhinoscopy Set

FireFly Wireless Otoscope

014300  FireFly Wireless Otoscope
014306  FireFly Extended Speculae Set
014124  FireFly Instrument Set (2 Instruments)
FIREFLYBOTH  FireFly Complete Set (3 Products listed above)
TECA
Total Ear Canal Ablation

Achieving adequate exposure is essential to the proper performance of lateral bulla osteotomy and debridement. Maintaining a dissection as close to the aural cartilages as possible helps avoid iatrogenic damage to the surrounding structures. In most cases, especially in broad headed breeds such as Shar Peis and Staffordshire Bull Terriers, this will mean working down a narrow and surprisingly deep corridor.

Following the suggestion from Pieter Nelissen of Dick White Referrals, we have developed a purpose made TECA Retractor based on our small gelpis. The 40mm long legs are at 80° to the handles to reach deep into the hole created. The cross-over tips are only 3mm across when closed enabling insertion with no edges protruding to snag tissues.

TECA RETRACTOR
001338 TECA Retractor 105mm Long 40mm Cross-over Legs

Successful Total Ear Canal Ablation (TECA) depends on the complete removal of the ear canal including those parts of skin closely attached to the auditory meatus. Curettage is rarely completely successful. Most surgeons elect to remove the rim of the meatus together with any skin using rongeurs. Standard rongeurs with beak type jaws struggle to cut the very hard sclerotic bone of the area unless they are so big as to obscure the site of interest.

Kerrison Type Punch Forceps are both small and powerful. The jaw design of V.I.'s TECA Kerrisons are designed for ear surgery. The tip of the insert is placed into the meatus and pushed against the rim. Closing the handles punches out a small segment of bone/skin which is retained within the instrument. The insert is designed to rotate 360 degrees within the handle while remaining fully functional allowing the surgeon to remove the whole meatus rim without changing position or grip. The debris gradually moves up the self cleaning canal and may be removed when visible. The tips do not require cleaning after each bite as is the case with standard Kerrisons.

MODULAR TECA KERRISON WITH THREE INSERTS
1.5, 2.5 & 3.5MM
014800 Modular TECA Kerrison with 3 Inserts
014801 Spare 1.5mm Inserts
014802 Spare 2.5mm Inserts
014803 Spare 3.5mm Inserts

Mini-Friedman

Useful in bulla osteotomy.

MINI-FRIEDMAN
142501 Mini-Friedman Rongeur Curved 3mm Bite 155mm Long
Bulla Osteotomy & Total Ear Canal Ablation

Bulla osteotomy is greatly facilitated by specialised instruments. A rongeur is more effective than a curette. In addition a Penrose Drain may be necessary. Consider 3mm Smith Kerrison Spine Punch Forceps or modular TECA Kerrison. Access the bulla using I/M pin or trephine.

Penrose Drains

- Latex rubber. Use to maintain drainage from infected wounds.
- Also useful to retract soft tissues such as blood vessels and nerves.

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>090168</td>
<td>Penrose Drain 1/4&quot; 40cm 1 1/2&quot; Long Sterile</td>
<td>£4.59</td>
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<tr>
<td>090165</td>
<td>Penrose Drain 1/2&quot; 40cm 1 1/2&quot; Long Sterile</td>
<td>£4.59</td>
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Bulla Osteotomy Rongeurs

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<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>142280</td>
<td>Bulla Osteotomy Rongeurs 8&quot; 200mm Long</td>
<td>£231.75</td>
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</table>

Langenbeck

- The sclerotic bone around the auditory meatus of the diseased ear is some of the hardest found in the body. Total ear canal ablation (TECA) requires that the rim of the meatus is nibbled away to ensure that all skin is removed. The Bulla Rongeurs have a small bite (3mm) but are relatively heavy in construction. The compound action allows the appropriate force to be applied without undue effort on the part of the surgeon.

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<tr>
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<td>Bulla Osteotomy Rongeurs 8&quot; 200mm Long</td>
<td>£231.75</td>
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</table>

Lempert Straight

- Lempert Rongeurs Straight 3mm Bite 190mm Long

DeBakey - Atraumatic

- DeBakey Dissecting Forceps 6"