

# Multidisciplinary Referral Centre

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## **WELCOME**

Welcome to Southern Counties veterinary specialists. We are a multi-disciplinary veterinary referral hospital based on the south coast in the New Forest.

Offering services in a range of disciplines, our specialist-led teams of veterinarians and veterinary nurses pride themselves on offering your clients and their pets a professional, caring and quality referral service 24/7.

Our disciplines include:

- Anaesthesia
- Cardiology
- Dermatology
- Diagnostic Imaging
- Internal Medicine
- Interventional Services

- Neurology
- Oncology
- Orthopaedic Surgery
- Physiotherapy and Hydrotherapy
- Soft Tissue Surgery.

All supported by a knowledgeable and experienced team of Veterinary Nurses.

Our hospital is located in Ringwood, Hampshire and offers modern and cutting edge facilities including:

- 3 fully equipped operating theatres
- ECG
- Digital radiography
- 64 slice CT
- 1.5T MRI
- Sonocure and Brainsight for neurology cases

- Fluoroscopy
- Ultrasound
- · Oncology suite
- Fully equipped on-site laboratory
- Physiotherapy and hydrotherapy suite.

Our reports are written to the referring vet within 24 hours of consultation.

We will always try to attain a satisfactory solution within your client's budget. We want to help, so don't hesitate to call and discuss the problem, even if it is just for advice.



## **OUR TEAM**

SCVS is one of the largest Specialist multidisciplinary referral centres in the country. We have 23 specialists (and 6 board-eligible clinicians) covering all the major referral disciplines. Our Specialist team is supported by a large team of residents, interns and nurses.

## ANAESTHESIA & ANALGESIA

**Derek Flaherty**BVMS DVA DipECVAA
MRCA FHEA FRCVS

Adam Auckburally
BVSc CertVA DipECVAA
PGCAP FHEA MRCVS

Hamaseh Tayari DVM PhD MRCVS Post-Resident Clinician

DVM MRCVS Resident Ricardo Felisberto DVM MRCVS Resident Vincenzo Casoria

Vincenzo Casoria
DVM MRCVS Resident

#### **CARDIOLOGY**

Ana Gomez

Stephen Collins BVetMed DVC MRCVS

**Tobi Wagner**DrMedVet DipECVIM-CA
(Cardiology) MrCVS

Julia Sargent
BVSc MVetMed DipACVIM
(Cardiology) MRCVS

Omri Belachsen
DVM CertAVP MRCVS
Post-resident Clinician

Victoria Greet BVM&S PGdipVCP MRCVS Post-resident Clinician

#### **DERMATOLOGY**

Jeanette Bannoehr DVM Dr.MedVet DipECVD PhD MRCVS

Siobhan Buswell DVM Cert VD MRCVS Clinician

#### DIAGNOSTIC IMAGING

Beatriz Moreno
DipEDVDI MRCVS

Alessandra Destri MRCVS Post-resident Clinician

Emma Lewis BSc (Hons) PGCert MRI HCPC

Teresa Totman HCPC Diagnostic

#### INTERNAL MEDICINE

Florence Juvet
DVM DipECVIM-CA MRCVS

Valerie Lamb BVM&S DipECVIM-CA MRCVS

Andrea Di Bella DVM DipECVIM-CA CertSAM MRCVS

Darren Kelly MVB DipECVIM-CA MRCVS

Lara Baptista
DVM MSci MRCVS
Resident

Judith Cruzado Perez BVetMED MRCVS

Charlotte Lea BVSc MRCVS Resident

# NEUROLOGY & NEUROSURGERY

Nadia Shihab MA VetMB DipECVN MRCVS

Raquel Trevail
DipECVN MRCVS
Francesca Raimondi
DVM DipECVN MRCVS
Ricardo Fernades

DVM DipECVN MRCVS Filipa Lourinho

DVM MSci MRCVS Post-Resident Clinician

Camila Cardoso Diogo DVM MSc MRCVS Resident

#### **ONCOLOGY**

Charlotte Johnston
DVM MVetSc DipACVIM
(Oncology) MRCVS

Florence Juvet
DVM DipECVIM-CA MRCVS

Valerie Lamb BVM&S DipECVIM-CA MRCVS

Andrea Di Bella DVM DipECVIM-CA CertSAM MRCVS

Darren Kelly
MVB DipECVIM-CA MRCVS

#### ORTHOPAEDIC SURGERY

Juan M Marti LV CertSAO MVN DipACVS DipECVS MRCVS

Karen Harris BVetMed DipECVS MRCVS

Andrew Craig
BVSc PGCert(SAS) DipECVS
MRCVS

Rob Quinn BVMS(Hons) CertAVP DipECVS MRCVS

Barney Dean BVSc PGDip(VCP) CertAVP DipECVS MRCVS

Diogo Miraldo
DVM MSci MRCVS
Post-resident Clinician

Claudio Motta DVM MRCVS Resident

Daniele Serrani DVM MSVM MRCVS Resident Maria Zurita

**DVM MRCVS Resident** 

SOFT TISSUE SURGERY

Tony Ryan MVB CertSAS DipECVS MRCVS

Juan M Marti LV CertSAO MVN DipACVS DipECVS MRCVS

Karen Harris BVetMed DipECVS MRCVS

Andrew Craig BVSc PGCert(SAS) DipECVS MRCVS

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**Diogo Miraldo**DVM MSci MRCVS
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Claudio Mott
DVM MRCVS Resident

Daniele Serrani DVM MSVM MRCVS Resident

Maria Zurita
DVM MRCVS Resident

#### **REHABILITATION**

Andrew Gardiner Head Veterinary Physiotherapist

Samantha Gifford Veterinary Physiotherapist

Danae Charalambous Veterinary Physiotherapist

Lauren Tofield Hydrotherapist

Sarah Meecham Hydrotherapy Manager



## **ANAESTHESIA**

At SCVS, our anaesthesia service is led by Specialists in Veterinary Anaesthesia & Analgesia (Pain Management), supported by Anaesthesia Residents, Interns and Anaesthesia Nurses.

The priority of our team is to ensure the safety and comfort of your pet before, during and after procedures whilst they are with us. The service is available 24 hours, 7 days a week for any animal requiring anaesthesia and emergency procedures.

Depending on the procedure to be performed, your pet may be sedated or anaesthetised. Whilst you may not meet the anaesthetist responsible for your pet, be assured that we remain in constant contact with sedated and anaesthetised animals during the entire procedure, right through until the animal is awake and responsive. For this reason, we are not always available to meet owners.

General anaesthesia is often something that worries owners, but SCVS we use modern drugs and techniques to ensure that every animal in our care will not experience pay and stress throughout its stay in the hospital.

Pain management is paramount, and each patient will have an individualised analgesic plan depending on any pre-existing condition and the type of surgery planned. We often combine a variety of drugs, including local, regional, and neuraxial anaesthesia techniques to make sure every patient is as comfortable as possible. During the procedure our sophisticated anaesthetic equipments, identical to that used in human hospitals, will be used to monitor a range of parameters such as heart rate, respiratory rate, blood pressure, oxygen levels and body temperature.

Once the procedure is over, dedicated ward or intensive care Nurses will closely monitor your pet. If your pet requires critical care then anaesthetists are often involved in this too. A patient will only be discharged from the practice once we are satisfied that any remaining pain is mild and can be adequately managed at home with painkillers given by the owner.

We use extensive range of monitoring equipment and facilities:

- All anaesthetic stations are equipped with multi-parameter monitor (ECG, capnography, pulse oximetry, spirometry, gas monitoring, invasive and non-invasive blood pressure, oesophageal temperature)
- Mechanical ventilators (included MRI compatible)
- On side equipment including blood gas analysis, continuous haemoglobin measurement
- Electrical nerve stimulator for neuromuscular blockade monitoring
- Ultrasound guided loco-regional anaesthesia
- Syringe infusion pumps with customized drug library
- · Defibrillators.



## **CARDIOLOGY**

We have one of the largest and most experienced teams of Specialist Cardiologists in the country. We offer a comprehensive diagnostic and interventional cardiology service; however, we enjoy the challenge of all cardiology cases no matter how simple or complex the problem.

We provide a practical and affordable cardiology referral service, always putting the clients' and animals' needs first.

Our team of cardiology specialists at SCVS have considerable experience in referral as well as first opinion practice; we really understand what referring vets and animal owners need from a referral service.

We will always take the time to understand and discuss the pet's problem, explain what investigations are required and why. Our findings are explained clearly to owners Reports are written to referring vet within 24 hours of consultation and we are always happy to discuss cases and provide on-going advice. We aim to work as a team with referring vets and the pet owner's to ensure their animals receive the very best care. We are here to help, so don't hesitate to call and discuss the problem, even if it is just for advice. Our Services Include:

#### **Consultations in Cardiology**

Investigation of:

- Heart murmur
- Arrhythmia
- Collapse/syncope/seizures
- Reduced exercise ability
- Cough
- Breathing abnormalities.

#### **OUR STATE-OF-THE-ART EQUIPMENT**

#### Ultrasound

Echocardiography (we use the very best ultrasound equipment; GE Vivid E95, GE Vivid iQ, trans-oesophageal echocardiography).

#### **ECG**

- 12 channel ECG recording/monitoring
- Digital ambulatory ECG monitoring (Holter) – allows ECG recording in the home environment for up to 7 days
- ECG telemetry for remote monitoring of critical patients
- Implantable reveal devices subcutaneous ECG devices useful for investigation of intermittent collapse.

#### Thoracic Radiography

Direct (DR) digital for instant high quality thoracic radiographs – often without the need for sedation.

#### Thoracic CT and Angio-CT

Siemens Somatom Perspective – 64-slice ECG gated CT (advanced cardiac imaging useful for complex congenital heart disease

#### Full Interventional Cardiology Service

- Percutaneous closure of PDAs predominantly using the Amplatz Vascular Plug II which allows minimally invasive closure in patients of almost any size.
   Patients as small as 1kg can be treated
- Balloon Valvulplasty (pulmonic stenosis)
- Permanent Pacemaker implantation (single and dual chamber)
- Other more complex interventions as stenting of pulmonic stenosis, Vena Cava stenting, treatment of other cardiac and vascular anomalies.
- Surgical ligation of PDAs Pericardectomy (surgical and key hole)
- Pericardiocenthesis.





### DERMATOLOGY

Our Specialist-Led Dermatology department has all the facilities required for investigation of dermatological cases, including on-site intra-dermal allergy testing, histopathology, cultures, CT and MRI scanning for investigation of ear diseases.

Typical conditions we can help with include:

#### Investigation of:

- Investigation of pruritus
- · Allergy testing
- Ectoparasitosis
- Pyoderma
- Alopecia and hormonal disorders
- Keratinization disorders
- Autoimmune diseases
- · Feet and claw diseases

- Control of atopic dermatitis (controlling skin allergies)
- Chronic or recurrent otitis

   (in conjunction with our soft tissue surgery & neurology)
- Skin neoplasia (in conjunction with our soft tissue surgeons and internal medicine specialists).

We are available for telephone consultations for veterinary surgeons who may want to discuss a referral or need advice for cases that cannot be referred.



## DIAGNOSTIC IMAGING

SCVS has a specialist-led team of veterinary radiologists and radiographers, who work closely with all of our other disciplines to provide the best and most cost-effective imaging for our patients. Our diagnostic imaging facility is one of the most advanced in the UK.

#### **MRI**

Available 7 days a week with same-day reporting by our specialist radiologists. Our 1.5 Tesla Hallmarq scanner is designed specifically for small animal veterinary use, allowing us to optimise image quality for the great variety of shapes and sizes of our patients. Our images are produced in a short period of time and are of a high resolution. Anaesthesia time is also minimised to help the welfare and comfort of patients.

#### CT

Available / days a week with same-day reporting by our specialist radiologists. Our 64 slice sate-of-art Siemens scanner produces rapid high resolution scans allowing many patients to be scanned under sedation rather than general anaesthesia. Cardiac gating software allows us to eliminate motion blur and obtain detailed images of the heart and computer software is used to manipulate cross-sectional images for multi-planar and 3D imaging.

#### **ULTRASOUND**

All non-cardiac ultrasound examinations are performed by a board-certified specialist or a resident under the direct supervision of a specialist. We use a top of the range Samsung RS-80 with prestige machine which while largely used to image the abdominal organs, also gives us high resolution images of the musculoskeletal system (to allow diagnoses of tendon and ligament pathology)

and of the neck (to diagnose thyroid and parathyroid pathology). Ultrasound is an excellent technique for detecting pathology however definitive diagnoses required tissuesampling. Our experienced and skilled radiologists use ultrasound guidance, often under a short sedation, to sample organs and save the need for more invasive (and expensive) procedures.

#### **FLUOROSCOPY**

We have 2 mobile image intensifiers which allow us to view instant moving x-ray images. Our mobile Phillips Pulsera is used mainly for soft tissue and cardiology procedures and our Hologic mini C-arm is used primarily for orthopaedic procedures.

#### **DIGITAL RADIOGRAPHY**

We have a direct digital (DR) x-ray system which produces superb quality images in a matter of seconds. All our imaging facilities are fully digital and are stored on our PACS server. Images can be accessed on any of the computers around the hospital, so they can be viewed in the operating theatres and shown to clients in the consulting rooms.

Radiography reporting – a verbal report is free of charge. Both hard copies and digital images are welcome (films or DICOM images are required for a written report). Our radiologists will liaise with other specialist departments within SCVS to give you the best possible advice.

## INTERNAL MEDICINE

Our Internal Medicine Specialists are supported by a dedicated team of clinicians, veterinary nurses and interns. They are passionate about providing the highest standards of care for their patients.

The Internal Medicine team have the benefit of working alongside other specialists in Neurology, Cardiology, Surgery, Dermatology and Diagnostic Imaging, enabling us to adopt an integrated multi-disciplinary approach to patients with complex medical conditions.

#### Our medical facilities include:

Investigation of:

- Fully equipped professional laboratory (VPG Ltd) on site
- Olympus video endoscopy
- Colour flow Doppler ultrasound using the latest state-of-the-art scanners (Samsung RS80, GE Vivid E95, Ge Vivid iQ)
- Direct digital (DR) X-ray
- · On-site high field MRI
- On-site 64 slice helical CT with 3D reconstruction and virtual endoscopy
- Separate air-conditioned cat and dog wards, staffed by qualified nurses and interns 24/7 every single day of the year.

We can investigate all medical problems including;

- Gastrointestinal
- Endocrine
- Respiratory
- Urinary tract
- Immunology
- · Hepatic.





## **ONCOLOGY**

Our Oncology referral service is run by our medical oncologists. The service is supported by a dedicated team of veterinary nurses and interns. The Oncology Department work closely with our multidisciplinary team to provide the best care to their patients.

D Oncology is a branch of medicine that specializes in the diagnosis and treatment of cancer. At SCVS we offer medical support for pets diagnosed with cancer from the time of diagnosis and throughout the course of the disease. Our oncologist are committed to ensure that all pets with cancer enjoy an exceptional quality of life, while receiving the most up-to-date anti-cancer treatments.

Diagnostic facilities offered on-site include:

- Fully equipped professional laboratory (VPG Ltd) on-site
- On-site 64 slice state of art Siemens CT with 3D reconstruction, with the possibility to obtain CT guided biopsies
- Top of the range Samsung RS-80 with prestige ultrasonography
- On-site high field MRI
- Direct digital (DR) x-ray.

#### Conditions treated:

- Epithelial Tumours (Carcinoma)
- Tumours if connective tissues (Sarcoma)
- Hematopoietic Neoplasia
- Lymphoproliferative Disorders

#### We are able to provide:

- Surgical Treatment
- Chemotherapy
- Immunotherapy.



## ORTHOPAEDIC SURGERY

The orthopaedic service at SCVS is one of busiest in the south and run by a Specialist team of Orthopaedic Surgeons.

The department uses state-of-the-art diagnostic equipment, including digital radiography, fluoroscopy, CT and MRI to identify problems in the joints, muscle or bone. At SCVS we have a multi-disciplinary approach to patient care, and surgical patients benefit from input from neurology, cardiology, internal medicine and diagnostic imaging colleagues when required. The surgical facilities are extensive allowing SCVS to investigate and treat a wide variety of conditions including:

- Lameness investigation
- Arthrodesis (joint fusion)
- Arthroscopic investigation and treatment of joint disease
- Hip dysplasia investigation and management (including Triple Pelvic Osteotomy and Juvenile Pubic Symphodesis)
- Cemented and uncemented canine and feline total hip replacement (BioMedtrix)
- Biomedtrix total knee replacement (TKR)

- Management of bone and joint tumours
- Intervertebral disc disease
- Cranial cruciate ligament disease (Tibial plateau levelling osteotomy (TPLO) and tightrope techniques)
- Linear and Circular external skeletal fixation, locking plates and screws for the management of complex fractures and angular limb deformities.

All of the orthopaedic cases receive comprehensive 24-hour care from our dedicated and highly skilled nursing staff.

In addition, we have qualified physiotherapists on site who play a vital role in rehabilitating patients following surgery.



## NEUROLOGY AND NEUROSURGERY

Our large, specialist-led neurology service provides comprehensive diagnostics and care of patients presenting with a wide range of neurological impairments.

With the luxury of on-site radiologists and imaging facilities, including high field MRI and 64-slice CT, 24-hour care by highly skilled nursing staff, and a collaborative multidisciplinary environment, the team can provide comprehensive management of the often critical and complex neurological patients. Our dedicated physiotherapy service enhances patient care and create rehabilitation treatment plans. The neurology team benefit from access to our three operating theatres and surgical equipment, including a SonoCure ultrasonic aspirator, and access to gold-standard electro-diagnostic equipment.

#### Typical conditions we treat include:

- Seizures
- Brain tumours
- Brain infarcts (stroke)
- · Vestibular disease
- Brain malformations (hydrocephalus, caudal occipital malformation syndrome with associated syringohydromyelia)
- Encephalitis and/or meningitis Intervertebral disc disease

- · Spinal arachnoid diverticula
- · Vertebral fractures and luxation
- · Spinal cord tumours
- Fibrocartilagenous embolism
- Myelitis Neuromuscular disorders (myopathies, neuropathies, myasthenia gravis).



## PHYSIOTHERAPY AND HYDROTHERAPY

SCVS has a hydrotherapy/physiotherapy suite, run by the Physio and Hydro teams, who are all fully qualified veterinary physiotherapists with a team of support assistants. This ensures that all patients receive appropriate physical therapy post treatment and during their convalescence for optimum recovery.

Rehabilitation following neurological and orthopaedic injury or disease is well established in humans and is considered a key component of recovery. Our aim is to maintain comfort and return our patients to activity as quickly as possible. We can achieve optimum recovery because of the combined ongoing reassessment of the physiotherapist and specialist veterinary teams.

The goals of physical therapy are to help restore function, improve mobility, relieve pain and prevent or limit permanent physical disabilities in patients with injury or disease. Physical therapy is also used to reduce swelling, inflammation, muscle spasm, promote healing and prevent secondary complications.

To achieve these goals various items of equipment and therapeutic modalities are available to aid recovery.

Our medical facilities include:

#### Investigation of:

- Underwater treadmill
- Shockwave therapy
- Thermotherapy (heat and cold application)
- Therapeutic ultrasound
- Transcutaneous electrical nerve stimulation (TENS)

- Neuromuscular electrical stimulation (NMES)
- · Low level laser therapy
- Acupuncture
- Specific exercise equipment including physiotherapy-rolls, wobble boards, air-filled cushions and cavaletti rails.

With the cooperation of the owner, physiotherapist and the veterinarian, all patients are provided with home exercises and equipment tailored to match their particular requirements. A plan of care and physical therapy is instituted immediately after surgery and continued until the patient leaves the hospital whereupon owners are shown how to perform rehabilitation exercises with their pet at home.

All rehabilitation exercises are demonstrated by our staff to ensure that owners feel comfortable and happy applying physical therapy at home.

At SCVS, every orthopaedic and neurological condition we treat is provided with some form of physical therapy. We also accept external referrals for neurological and post-operative orthopaedic case.

## **SOFT TISSUE SURGERY**

The Soft Tissue Surgery team accept a wide variety of general surgery referrals as part of a multi-disciplinary referral service. Our three operating theatres and diagnostic equipment, including digital radiography, endoscopy, fluoroscopy, in-house CT scanner and MRI scanners are available to ensure comprehensive investigation of all conditions.

The Soft Tissue Surgery Service is supported by a team of highly experience interns and nurses providing 24-hour care for hospitalised patients. Our surgeons are also available for telephone consultations with veterinary surgeons who may want to discuss a referral or need advice for cases that cannot be referred.

Our Soft Tissue Surgery Services includes:

## EAR, NOSE AND THROAT SURGERY

- Total ear canal ablation with lateral bulla osteotomy and ventral bulla osteotomy
- Brachycephalic airway disease, laryngeal paralysis and tracheal collapse
- Brachycephalic airway disease and laryngeal paralysis/collapse

#### **CARDIOTHORACIC SURGERY**

- Pericardiectomy and patent ductus arteriosus ligation
- Intercostal thoracotomy/median sternotomy
- Lung lobectomy
- Mediastinal mass resection
- Diaphragmatic rupture/ peritoneo-pericardial diaphragmatic hernia repair
- Management of chylothorax.

## GASTROINTESTINAL/ HEPATOBILIARY SURGERY

- A range of gastrointestinal surgeries are performed from elective gastropexy to management of peritonitis
- Perineal herniorrhaphy
- Adrenalectomy
- Portosystemic shunt investigation and attenuation.

# WOUND MANAGEMENT AND ONCOLOGICAL SURGICAL RECONSTRUCTION

- Complex reconstruction following mass resection
- Mandibulectomy/maxillectomy
- Thoracic/body wall reconstruction.

#### **UROGENITAL SURGERY**

- Cvstostomv/urethrostomv
- Investigation and treatment of urinary incontinence
- Ureteric stenting

#### PALLIATIVE CARE

- Gastrotomy tubes
- Low-profile cystostomy tubes.



## INTERVENTIONAL SERVICES

Southern Counties Veterinary Specialists has one of the most experienced interventional teams in the UK when it comes to minimally invasive and percutaneous/pervascular (keyhole) procedures.

We are proud to offer a number of interventional procedures which are not offered anywhere else in the UK. Our portfolio of interventional techniques is continuously growing and covers all organ systems such as:

- Cardiac
- Hepatic
- Respiratory
- Urinary Tract
- Gastrointestinal

Examples of some of our cardiac interventional services:

#### **PDA CLOSURE**

The team at SCVS has offer a novel keyhole method for PDA closure in the UK, which allows us to close PDAs in patients as small as 1kg and preserves the femoral artery, which is not possible with the more routinely used ACDO technique. At SCVS, the PDA is closed with a special vascular plug following percutaneous puncture of the femoral vein and retrograde catheterisation of the heart and ductus. The recovery time is very short

and patients usually can be discharged the following day. Other cardiac interventions: Balloon Valvuloplasty, Pacemaker implantation (single and dual chamber pacemakers), Vascular stents and other more complex cardiac and vascular interventions.

# TRACHEAL AND BRONCHIAL STENTING FOR TREATMENT OF AIRWAY COLLAPSE

Airway collapse (tracheal, bronchial or both) is a very common cause of chronic respiratory signs in dogs. While patient signalment may increase the suspicion of airway collapse in certain cases, for example tracheal collapse in Yorkshire Terriers or left mainstem bronchus collapse in Cavalier King Charles Spaniels with mitral valve disease, airway collapse should be considered as a major differential in any toy or small breed dog presenting with chronic respiratory signs. Clinical signs can include a chronic cough, decreased exercise tolerance, episodes of collapse / syncope, and heat intolerance. These clinical signs can be very worrying for owners and >>

can severely affect the quality-of-life of both the patient and owner. More importantly, life-threatening sequelae can be seen in cases with advanced airway collapse and can include hypoxic episodes and pulmonary hypertension.

At SCVS, we offer both tracheal and bronchial stenting and stock a range of stent sizes so that patients presenting with acute deterioration or as an emergency can be treated without delay. Collapse of the left mainstem bronchus should be considered an important differential in any patient with mitral valve disease presenting with syncopal episodes or other signs such as coughing, which are refractory to cardiac medications or where there is no evidence of pulmonary oedema.

## Other respiratory tract interventions include:

- Balloon dilation and stenting for nasopharyngeal stenosis
- · Choanal atresia
- Minimally invasive treatment of nasal Aspergillosis.

# BALLOON DILATION AND URETHRAL STENTING FOR OBSTRUCTIVE URETHRAL DISEASE

For some patients with obstructive urethral disease (such as TCC or benign urethral strictures), interventional management

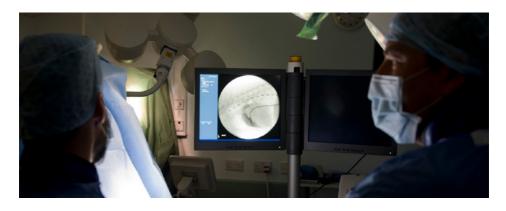
with balloon dilation or stenting may be the most appropriate first step for management. Balloon dilation is considered the most appropriate intervention in the first instance for patients with benign urethral strictures and balloon dilation has recently been shown to result in significant improvement with regards to clinical signs in patients with obstruction due to prostatic or urethral neoplasia. These procedures can be performed with endoscopic or fluoroscopic guidance (or a combination of both) and usually result in rapid improvement of clinical signs.

Other urology interventions include:

- Cystoscopic urethral bulking agent injection for treatment of USMI
- Ureteral stenting
- Percutaneously placed, low-profile cystostomy tubes.

#### Gastrointestinal interventions include:

- Endoscopy-assisted prophylactic gastropexy for prevention of GDV
- Balloon dilation, balloon-oesophagostomy tube management and oesophageal stenting for oesophageal strictures
- Low-profile tube placement for megaoesophagus
- Endoscopic oesophageal and gastric foreign body removal.





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