

ANGELL REFERRAL GUIDE

Angell Animal Medical Center
350 South Huntington Avenue | Boston, MA | 617-522-5011 (Referrals) or 617-522-7282 (Clients)

MSPCA-Angell West
293 Second Avenue | Waltham, MA | 781-902-8400
As of late fall 2027: MSPCA-Angell West | 62 Fourth Avenue | Waltham, MA | 781-902-8400

MSPCA-Angell Clinics
Low-cost Clinics | Boston, Methuen, Centerville | angell.org/clinics

angell.org | angell.org/referrals

angell® animal medical center

CONTENTS

Service Contact Information 2
Veterinarian Contact Information 3
Referrals and Pharmacy 5
Outpatient Abdominal Ultrasound 6
Referring Veterinarian Portal 8
Clinical Articles 9
MSPCA-Angell West 10
MSPCA-Angell Clinics 11

ANGELL SERVICES

24/7 Emergency & Critical Care 13
Anesthesiology 16
Avian & Exotic Medicine 17
Behavior 18
Cardiology 19
Dentistry 20
Dermatology 21
Diagnostic Imaging 22
Internal Medicine 23
Nuclear Medicine, I-131, Synovetin OA®, and GFR 25
Neurology 27
Oncology 28
Ophthalmology 29
Pathology 30
Pathology: Necropsy 31
Surgery 32
Urgent Care 34

THANK YOU FOR THE TRUST YOU PLACE IN ANGELL

We value your feedback as our referring partner in providing quality, comprehensive care for your patients and clients. We are pleased to offer our services with the convenience of two full-service hospital locations — Angell in Boston and the MSPCA-Angell West in Waltham — as well as the MSPCA-Angell Clinics at Boston, Nevins Farm (Methuen, MA), and on Cape Cod (Centerville, MA).

This Referral Guide contains important information to ensure you and your clients have a positive experience using the services at any of our locations. We strive to offer the best specialized veterinary care while providing the one-on-one compassion and customer service your clients and patients deserve. Angell's staff is committed to working with you to ensure the best overall health of your patient.

Angell remains focused on investing in three crucial areas: advanced medical equipment and technology, space renovation, and the endowment of mission-based financial aid programs to help pet owners in need receive life-saving care for their animals.

Please note that Angell is open on major holidays, including Martin Luther King, Jr. Day, Presidents' Day, Indigenous Peoples' Day, and Veterans Day.

Thank you for your continued referrals to Angell Animal Medical Center. I hope you will use Angell as a resource, and I encourage you to call or email our specialists with questions when faced with a complex case, regardless of whether it is a referral.

If you have any questions, please contact me at 617-541-5619 or via email at mwhelan@angell.org.

Sincerely,

Megan Whelan, DVM, DACVECC, CVA
Chief of Staff
Angell Animal Medical Center



SERVICE CONTACT INFORMATION

Phone numbers apply for both Boston and Waltham

24/7 EMERGENCY & CRITICAL CARE

Boston: 617-522-5011 (Referrals) or 617-522-7282 (Clients) | Waltham: 781-902-8400

BOSTON AND WALTHAM

ANESTHESIOLOGY
Phone: 617-541-5048 Fax: 617-989-1660
anesthesia@angell.org
angell.org/anesthesia

AVIAN & EXOTIC MEDICINE
Phone: 617-989-1561 Fax: 617-989-1613
avianexotic@angell.org
angell.org/avianandexotic

BEHAVIOR & TRAINING
Phone: 617-989-1520 Fax: 617-989-1627
behavior@angell.org
angell.org/behavior

CARDIOLOGY
Phone: 617-541-5038 Fax: 617-989-1653
cardiology@angell.org
angell.org/cardiology

DERMATOLOGY
Phone: 617-524-5733 Fax: 617-989-1613
dermatology@angell.org
angell.org/dermatology

DIAGNOSTIC IMAGING
Phone: 617-541-5139 Fax: 617-989-1617
diagnosticimaging@angell.org
angell.org/diagnosticimaging

INTERNAL MEDICINE & OUTPATIENT ULTRASOUND
Phone: 617-541-5186 Fax: 617-989-1657
internalmedicine@angell.org
angell.org/internalmedicine

SURGERY
Phone: 617-541-5048 Fax: 617-989-1660
surgery@angell.org
angell.org/surgery

URGENT CARE*
Phone: 781-902-8400
urgentcare@angell.org
angell.org/urgentcare

BOSTON ONLY

DENTISTRY
Phone: 617-522-7282 Fax: 617-522-4885
dentistry@angell.org
angell.org/dentistry

I-131 THERAPY
Phone: 617-522-7282 Fax: 617-989-1657
i131@angell.org
angell.org/i-131

NEUROLOGY
Phone: 617-541-5140 Fax: 617-989-1666
neurology@angell.org
angell.org/neurology

NUCLEAR MEDICINE
Phone: 617-541-5139 Fax: 617-989-1617
diagnosticimaging@angell.org
angell.org/nuclear

ONCOLOGY
Phone: 617-541-5136 Fax: 617-989-1668
oncology@angell.org
angell.org/oncology

OPHTHALMOLOGY
Phone: 617-541-5095 Fax: 617-989-1647
ophthalmology@angell.org
angell.org/eyes

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pathology@angell.org
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** Available only in Waltham*
*** Service is located in Boston, but serves both Boston & Waltham*

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** Service is located in Boston*
*** Service is located in Boston, but serves both Boston & Waltham*

STREAMLINED ONLINE REFERRAL FORM

Boston Phone: 617-522-5011 | Boston Fax: 617-989-1635 | Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410

Our streamlined Angell referral form offers a faster and easier referral experience. This form is for both the Boston and Waltham locations. You can also send medical records, X-ray images, and DICOM links to diagnostic images via our referral form.

Check out angell.org/referrals to find a link to the form and additional referral information.

Referral forms for MSPCA-Angell Clinics in Boston, Cape Cod, and Nevins Farm (Methuen) are available at angell.org/clinics.



PHARMACY

Boston Phone: 617-524-5700 | Boston Fax: 617-524-5604 | Waltham Phone: 781-902-8400
pharmacy@angell.org | angell.org/pharmacy

Please encourage your clients to review their pets' Angell-prescribed medications and submit any requests for renewal a week in advance, particularly for prescriptions that are expired or without remaining refills that will require approval of the prescribing veterinarian.

For pharmacy hours and prescription refill guidelines, visit angell.org/pharmacy.

** Both pharmacy locations are closed on Thanksgiving and Christmas.*



OUTPATIENT ABDOMINAL ULTRASOUND

Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410 | diagnosticimaging@angell.org | angell.org/ultrasound

Angell West provides outpatient abdominal ultrasounds for stable dogs and cats daily. A referral form is required before scheduling. Online referral forms can be found at angell.org/ultrasound.

This service is not for sick patients needing hospital admission. If we identify urgent issues (e.g., intestinal obstruction, free air, or hemorrhagic effusion) during the ultrasound, we will consult with you and expedite emergency admission if requested.

Fine-needle aspirates or cystocentesis are not performed during outpatient ultrasounds. For these procedures, please refer the patient for an internal medicine appointment, where an estimate and same-day scheduling are available. For anxious patients, pre-visit oral sedation should be prescribed; injectable sedation requires referral to the Emergency or Internal Medicine Service.

The service has a 60 lbs weight limit for dogs due to the need for sedation in larger dogs. Dogs exceeding this limit should be referred for an internal medicine appointment, where sedated ultrasounds can often be performed on the same day.



OUTPATIENT ABDOMINAL ULTRASOUND

Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410 | diagnosticimaging@angell.org | angell.org/ultrasound

GUIDELINES FOR REFERRAL

- Non-critical patients only; those in need of urgent medical, surgical, or emergency care should be referred to one of those services directly
- This service does not offer fine-needle aspirates or sedation. If either sedation or aspirates are indicated for this exam, the client should make an appointment through our Internal Medicine service at 617-541-5186 (Boston) or 781-902-8400 (Waltham).
- The referral form can be found at angell.org/referrals. It can be completed online. You may also download and fax the completed form to 617-989-1617. Once we receive the form, we will contact the client to schedule an appointment. If the client prefers to call us at their convenience, please indicate this on the form. If you prefer, you may make the appointment for your client by calling 781-902-8400.
- Please clarify with your client that an Internal Medicine consult with the client is not part of the outpatient ultrasound service. A separate appointment must be made for a consult.

PROCEDURE DETAILS

Please discuss the following with your client before their arrival.

- The patient should be fasted to allow for optimal evaluation of the cranial abdomen
- The patient's abdomen will be shaved and a complete ultrasound performed
- Should the ultrasound exam results warrant urgent intervention, you should prepare the client for possible admission to the hospital via the Emergency Service at your discretion and in consultation with the client.
- Angell's internist will communicate findings to your office via fax. You can share the report with the client at that time.
- Clients are encouraged to direct follow-up questions to you, their primary care doctor of record. The internist does not typically speak to the client after the study.
- The client will be escorted to the front desk for payment. Payment via credit card or cash is expected at the time of service.

TO MAKE AN APPOINTMENT

Please provide your client's contact information on a completed form, and we will contact your client to arrange an appointment time. If you prefer, you may make the appointment for your client by calling 781-902-8400. Clients may call or email us at diagnosticimaging@angell.org.



ANGELL REFERRING VETERINARIAN PORTAL

24/7 ACCESS TO YOUR REFERRED PATIENTS' RECORDS

The portal provides 24/7, secure, mobile-friendly access to your referred patients' records. The system automatically updates throughout the day and provides access to:

- Online medical records
- Check-in status
- SOAPs
- Diagnostic images
- Lab results
- Referral reports
- Discharge instructions
- Prescriptions

Settings can be customized to receive notices by email or fax, and you may list multiple emails to receive notices.

Visit angell.org/vetportal or call our Angell Referral Coordinator at 617-522-5011 to gain access to your account.



CLINICAL ARTICLES

Angell has a robust library of clinical articles written by staff veterinarians. Please visit angell.org/articles to view the complete list. Scan the QR codes to read the sampling of articles below.

NEUROLOGY

Speed, Strength, and Stamina: Reliance on Muscle in Health and Conditions of Failure

Rob Daniel, DVM, DACVIM (Neurology)

PATHOLOGY

Canine Testicular Neoplasia

Pamela Mouser DVM, MS, DACVP (Anatomic Pathology)

SURGERY

Primary Hyperparathyroidism: An Endocrinopathy for Surgeons

Jennifer Peterson-Levitt DVM, MS, DACVS-SA

EMERGENCY AND CRITICAL CARE

Ethylene Glycol Toxicity in Small Animals

Molly Graham, DVM, DACVECC

DIAGNOSTIC IMAGING

Computed Tomography Angiography

Ruth Van Hatten, DVM, DACVR

CARDIOLOGY

Approaching the Canine Myxomatous Mitral Valve Disease in General Practice

Terry Huh, DVM, DACVIM (Cardiology)

DENTISTRY

Jaw Fractures: A Dentist's Point of View

Jessica Riehl, DVM, DAVDC

ANESTHESIA

Treating Anesthetic Hypotension: Beyond the Fluid Bolus

Becca Reader, DVM, DACVAA

MSPCA-Angell West
Waltham, MA

293 Second Avenue, Waltham, MA | Phone: 781-902-8400 | Fax: 781-622-1410 | angell.org/waltham
– As of late fall 2027: MSPCA-Angell West | 62 Fourth Avenue | Waltham, MA | 781-902-8400

The MSPCA-Angell is thrilled to share our plans to move the MSPCA-Angell West in Waltham to a new and expanded Waltham location in late fall 2027! Located in the central Route 128 corridor just a short distance across from our current facility, the new state-of-the-art facility at 62 Fourth Avenue will be 70% larger and designed to meet the growing need for world-class care in MetroWest. With more exam and procedure rooms, species-specific waiting areas, well-equipped treatment spaces, and ample parking, the new hospital will allow us to increase access to advanced veterinary care, reduce wait times, and create a more comfortable environment for patients and their families.

The new MSPCA-Angell West will expand its existing services–such as 24/7 Emergency and Critical Care, Avian & Exotic Medicine, Dermatology, Internal Medicine, Surgery, Urgent Care, and Cardiology services–and offer additional, highly sought-after specialty services, such as Ophthalmology and Medical Oncology in our new Waltham location.

Until the new hospital opens, we will continue providing care at our current Second Avenue location. We're grateful to you, our referring partners, who have trusted the MSPCA-Angell West with your patients' care over the last 12 years, and we're excited to build upon that legacy.

ANESTHESIOLOGY
Phone: 617-541-5048
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24/7 EMERGENCY & CRITICAL CARE
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mspca angell® west

MSPCA-Angell Clinics in Boston, Methuen, and Cape Cod

Offering subsidized veterinary care to help keep pets and families together

The MSPCA-Angell Clinics provide subsidized veterinary care, including spay/neuter services and acute, outpatient, and surgical care, to families in need, helping keep pets and families together.

MEDICAL PROCEDURES PERFORMED AT THE MSPCA-ANGELL CLINICS

- Diagnostics: bloodwork, urinalysis, radiographs, histopathology
- Spay for pyometra or dystocia
- Wound and laceration care
- Amputation (tail, digit, limb)
- Splinting
- Umbilical hernia repair
- Cystotomy
- Mass removal when quality of life is impacted
- Nasopharyngeal/oral polyp removal
- Enucleation
- Foreign body surgery for stable pets who do not require 24-hour hospitalization



CLIENTS MUST FINANCIALLY QUALIFY FOR TREATMENT

To receive care at the MSPCA-Angell clinics, clients must be on one of the public assistance programs listed below or have an income under the Massachusetts poverty guidelines (https://aspe.hhs.gov/poverty-guidelines).

The ultimate determination of suitability for this program will be made on a case-by-case basis at the discretion of the MSPCA-Angell managers and veterinarians.

- SNAP/EBT benefits
- WIC
- Residency in public housing
- SSI
- Fuel assistance
- TAFDC
- EAEDC
- VA assistance

For more information, please visit **angell.org/clinics**.

mspca angell® clinic

Boston | Cape Cod | Nevins Farm

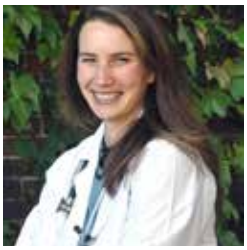
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MSPCA-ANGELL WEST | 293 SECOND AVE, WALTHAM | 781-902-8400
– As of late fall 2027: MSPCA-Angell West | 62 Fourth Avenue | Waltham, MA | 781-902-8400

ANGELL SERVICES



24/7 EMERGENCY & CRITICAL CARE

Emergency Veterinarian Referral Line: 617-522-5011
Boston Phone: 617-522-7282 | Boston Fax: 617-989-1633 | Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410
emergency@angell.org | angell.org/emergency



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24/7 EMERGENCY & CRITICAL CARE

Emergency Veterinarian Referral Line: 617-522-5011
Boston Phone: 617-522-7282 | Boston Fax: 617-989-1633 | Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410
emergency@angell.org | angell.org/emergency



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24/7 EMERGENCY & CRITICAL CARE

OVERVIEW

The highly-trained Emergency and Critical Care service veterinarians treat pets with life-threatening trauma and disease. Referring veterinarians can alert the staff to incoming cases via our referral phone line, while the general public can use our walk-in emergency clinics 24/7, 365 days a year.

Angell's Supportive Care Unit (SCU) and Intensive Care Unit (ICU) provide enhanced features and comforts such as: species separation with noise control, natural lighting bays for mechanical ventilation and dialysis, a built-in isolation ward, continuous cardiac telemetry, blood pressure monitoring, and advanced therapy options.

EMERGENCY & CRITICAL CARE SERVICES

- Board-certified criticalists in Boston and Waltham
- Dedicated nursing staff in emergency receiving and critical care. The nursing staff is trained in monitoring critically ill patients on mechanical ventilators, those requiring continuous drug infusions, and a host of other technical procedures.
- Emergency blood transfusions and blood products.
- Oxygen administration options include high-flow therapy and advanced ventilator support.
- Point-of-care 24-hour monitoring capabilities include:
  - direct and indirect arterial blood pressure
  - coagulation parameters
  - blood chemistries and blood gases
  - lactate
  - blood osmolality
  - pulse oximetry
  - capnography
  - electrocardiography (EKG)
  - co-oximetry
- Co-oximetry helps staff measure methemoglobin and carboxyhemoglobin levels for suspected acetaminophen or carbon monoxide poisoning. It also allows monitoring of blood osmolality and colloid oncotic pressure, aiding in precisely adjusting fluid therapies and medications.
- Consultations with specialists are available throughout the hospital.



- Daily cage-side rounds allow for repeated case re-evaluation and prompt treatment adjustments
- The critical care team in the ICU provides support to veterinarians, receives emergencies, and monitors and assesses patients. The team includes senior staff, residents, associate veterinarians, and nurses that handle:
  - peritoneal dialysis
  - open abdomen management
  - mechanical ventilation
  - severe pancreatitis
  - diabetic ketoacidosis
  - sepsis, polytrauma
  - nutrition techniques

ANESTHESIOLOGY

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OVERVIEW

Angell's top priority is patient care and safety. Our anesthesiologists collaborate with Angell specialists to ensure safe and effective anesthesia protocols. Certified veterinary technicians closely monitor patients during anesthesia using advanced equipment to measure vital signs. Services range from routine sedation for radiographs to general anesthesia for complex surgeries.

Angell's Anesthesia service focuses on safe and comfortable anesthesia and sedation, including nerve blockade, anesthetic management, acupuncture, and pain management.

ANESTHESIA SERVICES

Case Consultation and Continuing Education

The Anesthesiology Service provides individualized and optimal analgesia to patients during and after procedures. Angell anesthesiologists are available for case planning and consultation to provide safe and effective anesthesia for all patients. Clients and referring veterinarians can ask for specialized services for difficult or concerning problems related to anesthesia and pain management. Continuing education is available on multiple topics related to pain management and anesthesia.

Locoregional Anesthesia

- Epidural anesthesia/analgesia
- Spinal analgesia/anesthesia
- Specific nerve blocks (nerve stimulation and ultrasound-guided localization)
- Specific regional blocks
- Intra-articular analgesia
- Local catheter infusions

Multimodal Anesthesia

- Total or partial intravenous anesthesia protocols
- Continuous-rate analgesic infusions

Special Species Anesthesia

- Consults or direct management
- Avian, reptile, and small mammal anesthesia
- Sedative and analgesic protocols

Specialized Airway/Ventilation Management

- Difficult intubation solutions
- Tracheostomy and pharyngostomy tube
- Positive end-expiratory pressure and support ventilation

Continuous monitoring of:

- Blood pressure
- Carbon dioxide
- Oxygen
- Heart rate

AVIAN & EXOTIC MEDICINE

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OVERVIEW

The Avian and Exotic service is made up of four full-time veterinarians, three of whom are board-certified avian specialists. They provide specialty care for exotic pets, including rabbits, rodents, ferrets, and reptiles, offering wellness, and emergency and critical care services. Their facility is equipped with specialized diagnostic and treatment protocols and state-of-the-art equipment for these special species.

Our doctors are available by appointment for primary and urgent care and consultation or referral of avian and exotic cases.

AVIAN & EXOTIC SERVICES

- Emergency and critical care for avian and exotic pets available through our 24/7 Emergency and Critical Care Service
- Primary care and wellness appointments available seven days a week
- Specifically designed general and isolation wards for the care of avian and exotic patients, including avian incubators and specialty reptile hospital caging
- Veterinary care for individual fish or aquarium collections. Services include water quality evaluation and recommendations, physical examination, fin and gill biopsies, fecal examinations, radiographs, anesthesia and surgery, humane euthanasia, and necropsy
- Specialists in surgery, radiology, dentistry, internal medicine, and ophthalmology assist in providing in-depth case management for special species
- Specialty services include chemotherapy, endoscopy, radiology, clinical pathology, ultrasonography, surgery, and advanced diagnostics, including infectious disease testing
- Beak and nail trims
- Complete dental exam and teeth trimming for rodents and rabbits
- Gender identification of birds

BEHAVIOR

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OVERVIEW

Our behavior specialists offer consultations for cats and dogs, available either in person or via video conference, if the behavior can be appropriately assessed remotely. Patients are seen in Boston and Waltham.

BEHAVIOR SERVICES

Client Plan Development

Following consultation, clients receive a detailed plan for their pet to modify behavior, and each consultation includes three months of email and phone follow-up to see how their pet is doing following the consultation.

We offer positive-based behavior modification treatment plans for issues such as:

- Aggression towards people and/or other animals
- Separation anxiety
- Noise phobias
- House soiling and marking
- Generalized anxiety
- Situational anxiety
  (car rides, slippery floors, vet visits)
- New baby acclimation
- Furniture scratching
- Excessive vocalization
- Cognitive dysfunction
- Compulsive behavior

Behavior appointments are available Tuesday through Friday.

- **Dr. Terri Bright**
  Wednesdays, Thursdays, and Fridays (Boston)
- **Dr. Allyson Salzer**
  Tuesdays and Thursdays (Waltham)

For more information on dog training, please visit angell.org/dog-training.

CARDIOLOGY

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OVERVIEW

Angell's Cardiology service is staffed by two board-certified cardiologists and three cardiology residents, and emphasizes clinical excellence, client service, and animal care. They provide outpatient hours six days a week in Boston and one day a month at Angell West in Waltham. Emergency services are available on Sundays, holidays, and overnight. The team also focuses on resident education and provides continuing education opportunities for staff cardiologists.

CARDIOLOGY SERVICES

Diagnostic Procedures

- Digital radiography
- Outpatient Ambulatory ECG Diagnostic Services
  - 24-hour Event/Holter monitoring
  - Inpatient continuous telemetric ECG recording
- Outpatient and Inpatient Echocardiography
- Clients may remain with their pet during routine outpatient cardiology visits (including the echocardiogram)
- Outpatient and Inpatient Electrocardiography
- Fluoroscopy
- Outpatient and Inpatient Blood Pressure Determination
- Parks Doppler, Dynamap, and Passport
- Pet MAP Doppler blood pressure

Therapeutic Procedures

Full-Service Cardiac Catheterization Laboratory

- Balloon dilatation for pulmonic stenosis, aortic stenosis
- Amplatz canine ductal occluder (ACDO) placement
- Coil embolization for patent ductus arteriosus
- Diagnostic cardiac catheterization and angiography

Interventional Procedures

- Patent ductus arteriosus (PDA) closures
- Balloon valvuloplasty for pulmonic stenosis
- Pacemaker implantation

Full-Service Pacemaker Program

- Transvenous pacemaker implantation (temporary, permanent)
- Surgically placed epicardial pacemaker implantation

Cardiac Surgery Program

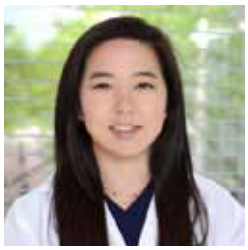
- Pericardiectomy
- Surgical PDA ligation
- Valvotomy for pulmonic stenosis
- Epicardial pacemaker implantation

Minimally Invasive Thoracic Surgery Program — Thoracoscopy

- Pericardial window for recurrent pericardial effusion
- Exploratory thoracoscopy for idiopathic pleural effusion

DENTISTRY

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OVERVIEW

The MSPCA-Angell Dentistry service provides quality oral health care to pets and education to clients and veterinarians. They are experienced in treating high-anesthesia-risk patients and coordinate with other specialty services at Angell to provide optimal patient care.

DENTISTRY SERVICES

Periodontal Treatment

- Dental examination
- Dental radiography
- Dental scaling and polishing
- Advanced periodontal pocket therapy
- Surgical tooth extraction

Fractured Teeth

- Dental radiography and CT scanning
- Endodontics, including root canal treatment with Lightspeed Endodontic System, vital pulpotomy, and surgical tooth extraction

Malocclusion

- Deciduous/permanent tooth extractions
- Orthodontic treatment

Oral Neoplasia

- Dental radiography
- Biopsy/histology
- Maxillectomy/mandibulectomy
- Coordination with Oncology department for adjunctive therapy

Jaw Fractures

- Dental radiography
- Intraoral fixation
- Fracture fixation

DERMATOLOGY

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OVERVIEW

The Angell Dermatology service provides comprehensive veterinary dermatology in a hospital setting, working closely with other specialties to diagnose and manage dermatologic and otic conditions. The team sees patients by appointment and offers extended appointment hours. Referring veterinarians should fax a referral form and medical records before the appointment.

DERMATOLOGY SERVICES

Allergy Diagnosis and Management

- Intradermal and serologic allergy testing
- On-site, custom immunotherapy formulation
- Diet recommendations for food allergies

Ear Clinic for the Diagnosis and Management of Chronic Ear Disease

- Clinical evaluation of ears
- Identification and management of underlying skin or systemic disorders affecting ear health
- Video otoscopic ear examination
- Ear biopsies and myringotomies
- Ear cytology
- Ear bacterial culture
- Ear flushing and cleaning under general anesthesia
- Myringotomy
- CT scan evaluation of tympanic bullae
- Otic surgical consultations and procedures with the Angell Surgery service

General Dermatology

- Cytologies, skin scrapes, trichograms
- Aerobic and anaerobic bacterial cultures
- Fungal culture
- Skin biopsies
- Laser surgery
- Hormone-level testing to evaluate hormonal causes of skin diseases
- Cryosurgery for small mass removal

Dermatopathology

- Histopathologic evaluations of skin biopsies with the Angell Pathology service

DIAGNOSTIC IMAGING

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OVERVIEW

The Diagnostic Imaging service supports the specialty services of the hospital by providing comprehensive in-house diagnostic expertise and technology for both our Boston and Waltham locations.

SERVICES

- Contrast studies
- Barium studies of the intestinal tract (esophagram and upper GI series)
- Bone scans to evaluate for lameness, including bone tumors
- Real-time GFR analysis for evaluation of renal function prior to nephrectomy
- Transplenic portosystemic shunt studies
- Iodinated contrast to image the urinary tract (excretory, urography, cystourethrography)
- In-house services include:
  - Radiology
  - Ultrasonography
  - Fluoroscopy
  - Multi-slice computed tomography (CT)
  - Magnetic resonance imaging (MRI)
  - Nuclear Scintigraphy
  - I-131 Treatment for Feline Hyperthyroidism
- 1.5 Tesla MRI has improved our ability to image neurologic patients, orthopedic disease, as well as abdominal and vascular abnormalities
- The 80-slice CT is capable of image reconstruction in multiple planes, including 3-D reconstructions, for optimal surgical planning. Given the rapid acquisition time, many orthopedic patients, if they are good anesthetic candidates, can be scanned under heavy sedation alone. The CT can also perform computed tomographic angiography (CTA), thoracic CT, and abdominal CT
- Fine-needle aspirates and biopsies are performed under ultrasonographic, fluoroscopic, and CT guidance
- Reading and reporting on referral radiographs, MRI, and CT studies
- OFA hip and elbow exams

INTERNAL MEDICINE

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INTERNAL MEDICINE

OVERVIEW

The Internal Medicine service provides specialized care and outpatient services for cats and dogs. The team has decades of clinical experience and offers state-of-the-art diagnostics and treatment options in various medical disciplines.

SERVICES

- Endocrinology
- Extracorporeal therapy
- Gastroenterology
- Hematology
- Hepatology
- Immunology
- Infectious disease
- Nephrology/urology
- Nuclear medicine
- Respiratory disease

AREAS OF EXPERTISE

- Bone marrow aspiration
- Bronchoscopy
- Colonoscopy
- Computed tomography (CT)
- Cystoscopy
- Endoscopy
- Endotracheal washes
- Esophageal ballooning
- Extracorporeal therapy
- Fecal transplants
- Hemodialysis
- Chronic renal replacement therapy (CRRT)
- Total plasma exchange
- Hemoperfusion
- Feeding tube placement
- Nasogastric
- Esophagostomy
- Percutaneous gastrostomy
- I-131 treatment
- Interventional radiology
- Fluoroscopy
- Joint fluid aspiration
- Laparoscopic liver biopsy
- Lithotripsy
- Magnetic resonance imaging (MRI)
- Metabolic and endocrine testing
- Parenteral nutrition
- Radiography
- Rhinoscopy
- Tracheal and urethral stenting
- Ultrasonography
  - Outpatient abdominal ultrasounds
  - Ultrasound-guided aspirates and biopsies



NUCLEAR MEDICINE

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Phone: 617-541-5186 | i131@angell.org | angell.org/i-131

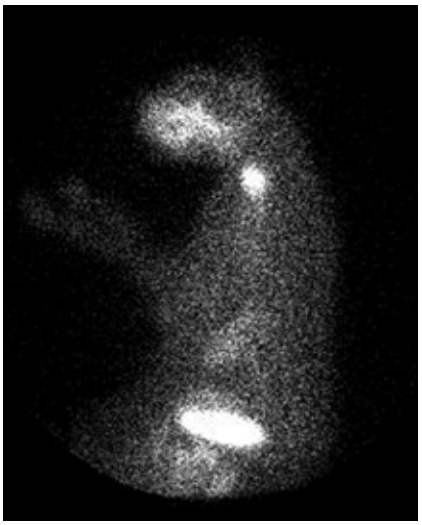


The Nuclear Medicine service at Angell is a unique imaging modality that falls under the umbrella of diagnostic imaging. This technique allows us to administer a radioactive substance (radionuclide) either by injection or by mouth and observe the activity within the patient, providing both morphologic (form and structure) and functional information. Services include **I-131 therapy, Synovetin OA® injections, thyroid scintigraphy, GFR studies, and transsplenic portal scintigraphy (TSPS)**.

RADIOACTIVE IODINE (I-131) THERAPY

What distinguishes Angell's I-131 program to treat feline hyperthyroidism:

- Comprehensive thyroid imaging
- Fast access to treatment (consults in 1–2 weeks, treatment in 2–4 weeks)
- Individualized iodine dosing to improve effectiveness and reduce side effects
- High-dose treatment available for severe cases
- Extended post-treatment boarding (up to 2.5 weeks)
- Experienced, compassionate care, and sedation for anxious cats
- On-site advanced diagnostic services
- Seamless collaboration with referring veterinarians
- No automatic exclusions for pre-existing conditions



HOW I-131 WORKS

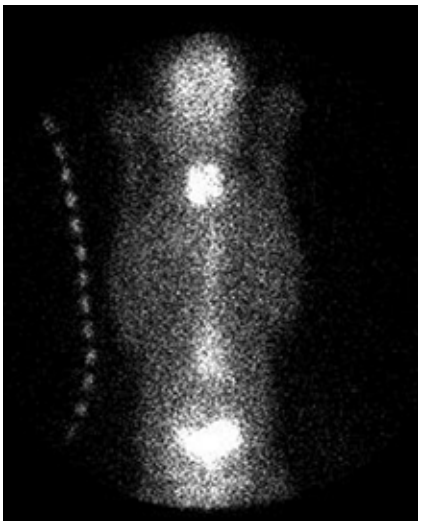
This treatment is radioactive, so once injected into the body, it is absorbed by the thyroid gland. Once the abnormal thyroid tissue is destroyed by the radioiodine, the remaining tissue will perform normally.

WILL THE RADIATION HURT THE NORMAL THYROID TISSUE?

The normal tissue is relatively protected from the radiation because most of the hyperfunctional (abnormal) tissue takes in the radioiodine.

HOW LONG WILL THE TREATMENT AND RECOVERY TAKE?

Hospitalization varies from six days to about two weeks. Initially, the thyroid must be scanned to determine the necessity and proper dosage of I-131. Following the scan, there is only a single injection; however, once injected, the cat cannot be released any earlier than three days after treatment under any circumstances due to radiation safety concerns.



WHAT MAKES ANGELL'S I-131 PROGRAM UNIQUE?

- We are the only thyroid treatment program that scans cats first. Some hyperthyroid cats do not need to be treated because they do not have thyroid tumors, despite an elevated T4 level. The scan identifies these cats and negates the need for treatment with I-131.
- Our program has a doctor on the premises 24 hours a day
- We are the only facility that treats cats with major medical issues that could complicate I-131 treatment of hyperthyroidism
- Our license permits release after three days, but we also provide boarding for clients who do not want the responsibility of the radiation issues and handling concerns at home

NUCLEAR MEDICINE

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SYNOVETIN OA®

Offered by Angell's Surgery service, **Synovetin OA** is a low risk, minimally invasive treatment that relieves canine osteoarthritis pain and inflammation for up to a year. Angell is one of only two hospitals in Massachusetts with trained doctors authorized to deliver this targeted joint injection.



GFR (GLOMERULAR FILTRATION RATE)

GFR is the gold standard measure of renal function, directly quantifying how effectively the kidneys filter plasma. It allows earlier detection of reduced renal function than serum creatinine or BUN, which don't rise until ~75% of nephron function is lost.

- Acquired as a dynamic (moving) study in real-time
- Useful for evaluation of renal function before nephrectomy
- An inexpensive way to evaluate renal function



NEUROLOGY

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OVERVIEW

Angell offers diagnostic evaluation and treatment in the specialty of small animal neurology.

Our neurologists provide optimal care in diagnosing and treating small animal neurological diseases, both medical and surgical, with state-of-the-art equipment and facilities.

NEUROLOGY SERVICES

- Neurologists available six days per week for consultations for patients who are admitted to the hospital as emergencies
- Neurosurgical procedures include laminectomies, craniotomies, and cervical vertebral stabilization with methyl methacrylate and locking plate implants
- **Treatment of Spinal Disorders**
  - Cervical and thoracolumbar intervertebral disc extrusions
  - Vertebral fractures/luxations
  - Atlantoaxial luxations
  - Vertebral and spinal cancer decompressions
  - Lumbosacral decompression
  - Cervical stabilization (for Wobbler's syndrome)
  - Inflammatory and infectious spinal disorders
  - Discospondylitis
  - Degenerative myelopathy
- **Treatment of Brain Disorders**
  - Seizure diagnosis and treatment
  - Encephalitis
  - Brain tumor diagnosis and surgery
  - Brain trauma
  - Hydrocephalus and intracranial malformations
  - Chiari malformation
  - Stroke
  - Vestibular dysfunction
- **Treatment of Neuromuscular Disorders**
  - Myasthenia gravis
  - Polyneuropathy
  - Neuritis
  - Myositis/myopathy
- **Diagnostic Services**
  - Computed tomography (CT)
  - CSF Tap (cerebrospinal fluid) with in-house analysis
  - Muscle and nerve biopsies
  - Digital radiography
  - Fluoroscopy
  - In-house labwork
  - Magnetic resonance imaging (MRI)
  - Electrodiagnostics
  - Ultrasonography

ONCOLOGY

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OVERVIEW

At Angell, we provide advanced, multi-disciplinary cancer diagnosis and treatment with a focus on improving patients' quality of life. Our expertise includes cancer diagnostics, chemotherapy, radiation therapy, biological therapies, and immunotherapy. We actively participate in veterinary clinical trials and collaborate with human medical professionals to offer cutting-edge treatments.

ONCOLOGY SERVICES

- Oncology-dedicated technicians and one radiation therapist to support our oncologists
- Routine use of vascular access ports (VAP) for radiation patients
- Board-certified surgeons available for timely surgical intervention, including major tumor resections involving reconstructive surgery
- Cutting-edge diagnostic imaging facilities, including helical computed tomography, MRI, ultrasound, and fluoroscopy
- Sophisticated equipment for optimal radiation delivery, including a 6MV linear accelerator and a Varian 2100 C/D linear accelerator
- Intensity-modulated radiation therapy (IMRT)
- Volumetric modulated arc therapy (VMAT) or RapidArc® radiotherapy technology
- Stereotactic radiation treatment that reduces the number of radiation treatments required
- Convenient outpatient radiation therapy and chemotherapy services
- **Treatment for**
  - Lymphoma – lymphosarcoma
  - Mast cell tumors and other skin tumors
  - Bladder tumors – transitional cell carcinoma
  - Splenic tumors – hemangiosarcoma
  - Bone tumors – osteosarcoma
  - Leukemia
  - Soft tissue sarcomas
  - Vaccine-associated sarcomas
  - Mammary tumors
  - Intestinal tract tumors
  - Respiratory tract tumors
  - Histiocytic tumors
- **Surgical Oncology Services**
  - Biopsy and staging of neoplasms
  - In-hospital consultations with Oncology & radiation therapy services
  - Laser-assisted surgery
  - Ligasure surgical unit
  - Soft tissue stapling devices
  - Tumor resection and reconstruction
  - Harmonic scalpel

OPHTHALMOLOGY

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OVERVIEW

The Ophthalmology service offers comprehensive diagnosis and treatment for various eye conditions in a wide range of species. Services include cataract removal with lens implantation, laser and cryotherapy for glaucoma, iris tumors, and retinal detachment.

SERVICES

- Cataract surgery
- Corneal grafting and surgery
- Cryosurgery
- Companion Animal Eye Registry (CAER) / OFA Eye Certification exams
- Electroretinography
- Eyelid surgery
- Fluorescein stain for ulcers
- Glaucoma surgery
- Laser cyclophotocoagulation
- Microscopic exam of eyelids, iris, cornea, lens
- Ocular ultrasound



- Retinal examination
- Surgery for glaucoma
- Surgery for dry eye
- Surgical repair of corneal ulcers
- Tear test for dry eye
- Tonometry for glaucoma
- **Treatment for Eyelid Abnormalities**
  - Entropion and ectropion
  - Ectopic cilia
  - Distichiasis
  - Eyelid tumors
  - Trichiasis
  - Eyelid agenesis
- **Corneal Disease**
  - Corneal ulcer
  - Indolent corneal ulcer
  - Descemetocele
  - Corneal sequestrum
  - Feline herpesvirus keratitis
  - Chronic superficial keratitis
- **Lens Disease**
  - Cataracts
  - Lens luxation
- **Retinal Disease**
  - Retinal detachment
  - Retinal degeneration
  - Retinal dysplasia
- **Other Disease**
  - Prolapsed gland of the third eyelid (cherry eye)
  - Keratoconjunctivitis sicca (dry eye)
  - Anterior uveitis
  - Glaucoma
  - Orbital tumors and abscesses
  - Intraocular tumors

PATHOLOGY

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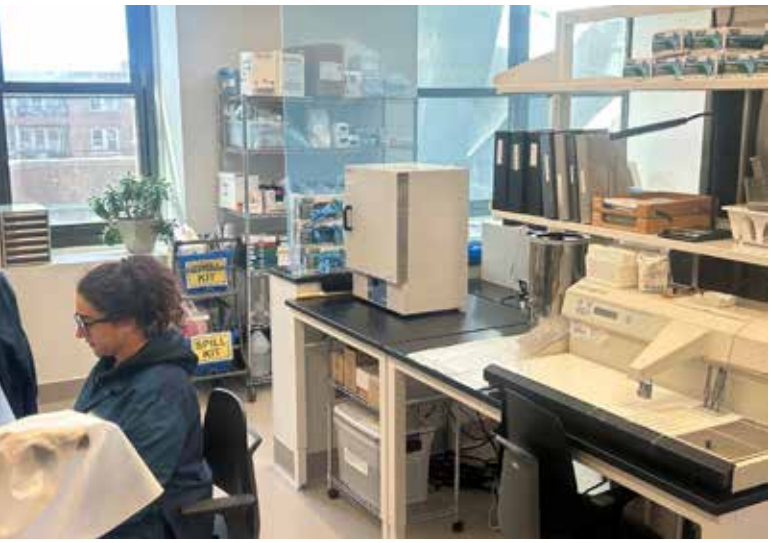


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OVERVIEW

The Pathology team provides quality diagnostic services, promotes education and professional development, and supports the mission of the MSPCA-Angell. Our laboratory accepts mail-in submissions for cytology, histopathology, and clinical pathology testing; courier pickup of samples is available in some areas of eastern Massachusetts. Angell's Pathology service serves both our Boston and Waltham facilities.

The Pathology staff includes two board-certified veterinary pathologists (anatomic and clinical pathology), a department manager, two supervisors, a lead technologist, two senior technicians, three clinical laboratory technicians, three histologists, and three pathology assistants. Our highly trained laboratory professionals include ASCP-certified medical technicians, medical laboratory technicians, histotechnicians, a certified hematology specialist, one certified veterinary technician, and one foreign-certified medical technician. State-of-the-art clinical laboratory equipment includes automated hematology, clinical chemistry, coagulation, and urinalysis and microbiology analyzers. Our histology laboratory has been renovated and updated with new tissue-processing and slide-staining equipment.

PATHOLOGY SERVICES AND LAB UPGRADE

Our Pathology service provides rapid, accurate diagnostic testing for veterinary patients, delivering detailed reports, practical case insights, and competitive turnaround times—typically within 24 to 48 hours of sample receipt. Our team evaluates tissue samples, fluid specimens, and surgical biopsies, and offers in-house histochemical staining, along with a wide range of diagnostic services including hematology, clinical chemistry, coagulation, urinalysis, microbiology, and parasitology.

To support this work and meet growing demand, we've recently completed a full renovation of our lab space. The expanded and modernized main lab improves workflow, enhances safety, and accommodates additional state-of-the-art instruments. New equipment includes advanced automated analyzers and upgraded histology tools. We've also expanded our microbiology capabilities with the addition of a MALDI system (matrix-assisted laser desorption ionization), allowing for faster and more precise bacterial identification through DNA analysis. Our necropsy lab continues to operate, providing essential support for both clinical cases and city and law enforcement investigations.

PATHOLOGY: NECROPSY

OVERVIEW

We recognize that sometimes there are unanswered questions following a pet's passing. A necropsy examination can help provide answers to some of these questions. At Angell Pathology, we offer necropsy examinations to gain insights into a pet's passing. Our objectives include determining the cause of death, assessing the extent of any diseases, identifying other concurrent illnesses, and providing information to all involved parties. Some cases will be discussed in monthly pathology rounds to encourage open dialogue.

SERVICES OFFERED

Our board-certified anatomic pathologist can perform full necropsies on dogs, cats, and small exotic pets. The necropsy includes histopathology of collected tissue samples. Additional charges may apply for ancillary tests. Following the procedure, all pets submitted for necropsy will be cremated, and ashes can be returned to the owner upon request.

SUBMITTING A NECROPSY CASE

- All necropsy submissions must be accompanied by a necropsy requisition form, which can be completed by the submitting veterinarian and is available on our website at angell.org/lab or by contacting us at 617-541-5014
- If the owner brings a deceased pet to Angell for a necropsy examination without a completed and signed necropsy form from their veterinarian, the owner will be seen by an Angell veterinarian through the emergency service.
- Necropsy is most valuable when performed within 12 hours of death. If this isn't possible, it can still provide useful information within 24 to 48 hours, depending on how the body is preserved. If you can't bring the pet immediately, keep the body refrigerated but not frozen to reduce postmortem decomposition.
- The deceased pet should be transported to Angell by the client, veterinarian, or a representative of the veterinarian. At the time of submission, this individual will be required to sign a necropsy release form.
- Please clearly indicate on the necropsy requisition form if an infectious disease is suspected so that appropriate precautions can be taken and testing can be performed if needed. Examples include rabies and other potentially zoonotic diseases.
- Necropsies are performed Monday–Friday at Angell Pathology. Contact the laboratory at 617-541-5014 to confirm pathologist availability before referring a case. Final results are reported within seven to 14 days to allow additional processing (such as decalcifying of bone) if necessary.

IMPORTANT POINTS ABOUT NECROPSY FOR THE VETERINARIAN AND PET OWNER

- There is no guarantee that the cause of death will be determined in every case
- Reduced sample quality, such as occurs with postmortem decomposition, can preclude a final diagnosis
- The pet’s body will not be released to the veterinarian/owner following necropsy. Angell Pathology requires cremation, with the option of the pet’s ashes being returned to the owner
- Ancillary tests, such as bacterial culture or toxicology testing, can result in additional charges to be paid by the submitter
- Microscopic examination of tissues (histopathology) and collection of tissue samples for ancillary tests will occur at the pathologist’s discretion
- Necropsy samples, findings, and/or photographs may be used for teaching purposes, quality-control programs, or scientific publication

SURGERY

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OVERVIEW

The Surgery team is well-equipped to perform various orthopedic and soft tissue procedures utilizing advanced technologies. The board-certified surgeons on staff offer a wide range of expertise and hold national professional leadership in small animal surgery. Coordinating and consulting with the other specialty services at Angell helps to provide optimal patient care.



SURGERY SERVICES

Orthopedic Surgery
- Cruciate ligament repair (TPLO, TTA, Extracapsular)
- Fracture repair
- Arthroscopic examination/procedures
- Limb prosthetics
- Total hip replacement
- Corrective joint surgery
- Acquired/congenital limb deformity repair
- Pulse-Vet shock wave therapy–muscle and tendon injuries

Surgical Oncology Services/Reconstructive Surgery
- Biopsy and staging of neoplasms
- In-hospital consultations with oncology & radiation therapy services
- Laser-assisted surgery
- Ligasure surgical unit
- Tumor resection and reconstruction
- Skin and subcutaneous tissues
- Oral/facial/nasal
- Ear canal/pinna
- Cervical
- Thoracic/abdominal wall reconstruction
- Paw/digits/metacarpal–metatarsal pads
- Soft tissue stapling devices
- Harmonic scalpel

Upper Respiratory Surgery
- Laryngeal paralysis tie-back procedure
- Soft palate
- Stenotic nares
- Tracheal collapse
- Nasal cavity disease
- Nasal planum disease

Otic Surgery
- Ear canal ablation
- Lateral/vertical canal resection
- Tumors/trauma of the pinna
- Pinna reconstructive surgery
- Bulla osteotomy procedures

Cervical Surgery
- Salivary gland
- Laryngeal
- Tracheostomy procedures
- Esophageal procedures
- Thyroid tumors
- Parathyroid tumors

Thoracic Surgery
- Pulmonary
- Cardiovascular

Abdominal Surgery
- Gastric
- Small intestine
- Large intestine/rectum
- Hepatic/gallbladder
- Spleen, pancreas, adrenal
- Urinary tract, upper and lower
- Thoracic wall reconstruction

Plastic & Reconstructive Surgery
- Skin flaps
- Skin grafts
- Muscle and myocutaneous flaps
- Foot pad flaps/grafting techniques
- Comprehensive wound management
- Problematic wound closure
- Esophageal reconstruction
- Thoracic and abdominal wall reconstruction

Neurosurgery
- Brain and spinal tumors
- Spinal fractures
- Disc disease
- Compressive spinal lesions

Dental/Oral Surgery
- Comprehensive dental care – Angell's Dentistry service
- Maxillary and mandibular tumors
- Oronasal fistulas
- Laser-assisted techniques

Minimally Invasive Surgery
- Laparoscopy (ovariectomy, gastropexy, cryptorchid testicles, biopsy, etc.)
- Thoracoscopy (biopsy, pericardial windows, etc.)
- Arthroscopy (knee, shoulder, etc.)

Laser Surgical Procedures
- Tumor resection
- Oral – nasal surgery

Diagnostics
- Deep tissue and bone biopsy
- Computed tomography (CT scan)
- Fluoroscopy
- MRI
- Oropharyngeal/laryngeal exams
- Radiographs
- Ultrasound

Other Services
- Antibiotic therapy
- Bandage, cast, or splint placement
- Blood transfusions
- Intra-articular therapies (joint injections)
- General anesthesia
- Open wound/fracture management
- Pain management
- Platelet-rich plasma in veterinary medicine
- Shockwave therapy

URGENT CARE

Phone: 781-902-8400 | urgentcare@angell.org | angell.org/urgentcare



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Natasha Pakravan, DVM
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Julie Shields, DVM
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OVERVIEW

In addition to our Emergency & Critical Care service, the MSPCA-Angell West (Waltham, MA) offers an Urgent Care service Mondays–Wednesdays for dogs and cats. Our team can help clients discern if their animal's condition is an Urgent Care or Emergency case. Urgent care for exotic animals is also available through our Avian and Exotic service in Waltham.

Same-day Urgent Care appointments for exotic animals can be made Monday through Friday by calling 617-989-1561.

URGENT CARE SERVICES:

- Treatment of non-life-threatening, urgent injuries or illnesses
- Bloodwork
- Point of care ultrasound
- X-rays
- In-house transfer to Emergency service if needed
- End-of-life care / euthanasia
- **Treatment for:**
  - Abscesses
  - Allergies (nasal/eye discharge, sneezing)
  - Anal gland issues – scooting, licking
  - Back pain without trouble walking
  - Constipation
  - Coughing/sneezing
  - Decreased appetite (with normal energy level)
  - Diarrhea (2-3 days or less)
  - Ear infections/ear mites
  - Eye squinting, eye discharge
  - Fleas
  - Lethargy (with no other health concerns/ eating drinking normally)
  - Limping
  - Lump/bump evaluation
  - Minor wounds: bite, puncture, lacerations (Send to Emergency service for severe wounds or if over ribcage or soft part of abdomen)
  - Pacing, panting, crying, won't settle
  - Parasites/worms
  - Rashes and skin infections
  - Signs of pain
  - Skin allergies/infection/scratching/lesions
  - Swelling of face or limbs
  - Tick removal/tick disease
  - Torn toenails or ingrown nails
  - Urinary tract infections
  - Vomiting





24/7 EMERGENCY & CRITICAL CARE

Boston: 617-522-5011 (Referrals) or 617-522-7282 (Clients) | Waltham: 781-902-8400

BOSTON AND WALTHAM

ANESTHESIOLOGY
P: 617-541-5048 F: 617-989-1660
anesthesia@angell.org
angell.org/anesthesia

AVIAN & EXOTIC MEDICINE
P: 617-989-1561 F: 617-989-1613
avianexotic@angell.org
angell.org/avianandexotic

BEHAVIOR & TRAINING
P: 617-989-1520 F: 617-989-1627
behavior@angell.org
angell.org/behavior

CARDIOLOGY
P: 617-541-5038 F: 617-989-1653
cardiology@angell.org
angell.org/cardiology

DERMATOLOGY
P: 617-524-5733 F: 617-989-1613
dermatology@angell.org
angell.org/dermatology

DIAGNOSTIC IMAGING
P: 617-541-5139 F: 617-989-1617
diagnosticimaging@angell.org
angell.org/diagnosticimaging

INTERNAL MEDICINE
P: 617-541-5186 F: 617-989-1657
internalmedicine@angell.org
angell.org/internalmedicine

SURGERY
P: 617-541-5048 F: 617-989-1660
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angell.org/surgery

URGENT CARE*
P: 781-902-8400 F: 781-622-1410
urgentcare@angell.org
angell.org/urgentcare

BOSTON ONLY

DENTISTRY
P: 617-522-7282 F: 617-522-4885
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angell.org/dentistry

I-131 THERAPY
P: 617-522-7282 F: 617-989-1657
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angell.org/i-131

NEUROLOGY
P: 617-541-5140 F: 617-989-1666
neurology@angell.org
angell.org/neurology

NUCLEAR MEDICINE
P: 617-541-5139 F: 617-989-1617
diagnosticimaging@angell.org
angell.org/nuclear

ONCOLOGY
P: 617-541-5136 F: 617-989-1668
oncology@angell.org
angell.org/oncology

OPHTHALMOLOGY
P: 617-541-5095 F: 617-989-1647
ophthalmology@angell.org
angell.org/eyes

PATHOLOGY**
P: 617-541-5014 F: 617-522-7356
pathology@angell.org
angell.org/lab

* Available only in Waltham
** Service is located in Boston, but serves both Boston & Waltham

FOR ADDITIONAL REFERRAL ASSISTANCE

Boston Phone: 617-522-5011 | Boston Fax: 617-989-1635
Waltham Phone: 781-902-8400 | Waltham Fax: 781-622-1410

Phone numbers apply for both Boston and Waltham (with the exception of Emergency & Critical Care)