



ANNUAL REPORT

Maddie's® Shelter Medicine Program, Cornell University

Objectives for September 1, 2013 – August 31, 2014

Executive Summary:

Year 9 has been another very productive year for the Maddie's® Shelter Medicine Program at Cornell. Our activities span education and training, consultation and research. The requests for our services continue to grow beyond what we are reasonably able to provide at current staffing levels, a fact we find both exciting and daunting!

Of course training veterinary students is core to our mission, and so we continue to provide three elective didactic courses in Companion Animal Welfare and Shelter Medicine within the veterinary curriculum; these courses are well-subscribed and reviewed by students.

Additionally, the Maddie's® Shelter Medicine Clinical Rotation is now well established and forty-five students have successfully completed a 2 week rotation in shelter medicine with us. We have had no difficulty with student subscription to the rotation. Furthermore, we continue to offer opportunities for externs from other colleges who do not have access to a shelter medicine rotation. In this year we have had six externs from other veterinary colleges join us. Our Shelter Medicine Club continues to be the most active on the vet school campus, with weekly rounds, clinics, and special projects: our vet students are in the shelter, talking shelter, and providing shelter to foster animals on a regular basis.

Year 9 shelter medicine interns (Drs. Boes and Hoshizaki) graduated in June 2014. Dr. Boes has started as a Shelter Veterinarian at the Toronto Humane Society in Ontario, Canada; Dr. Hoshizaki remains in the Shelter Medicine Program as the Janet L. Swanson resident. We are successfully training our 9th shelter medicine intern, Dr. Delgado, for Year 10 of Maddie's® Fund funding. Dr. Delgado is a Cornell University Veterinary Medicine graduate. We could not be more pleased with the enthusiasm and quality of our new intern who hit the ground running with a solid foundation in shelter medicine having completed our course series and our rotation as a veterinary student.

Our collaboration with the SPCA of Tompkins County continues as a fee-for-service relationship, and the collaboration grows stronger and more intricate with additional programming for interns and veterinary students. This is such a highly successful, mutually beneficial relationship. Drs. Berliner and Putnam have the opportunity to train our young veterinarians and veterinary students in an Adoption Guarantee shelter, and the shelter has benefited by a significant decline in the length of stay of their animals, as well as a concomitant decline in the upper respiratory rates among the shelter's cats (among a host of other health care benefits). The shelter has also expanded its transport programs, and is financially more stable than ever before. Dr. Berliner serves on the Board of Directors (BOD) and as Chair of the Animal Issues committee, which serves to strengthen the administrative elements of the relationship, and increase exposure of the interns to the workings of a BOD.

We experienced a growth in the number and extent of our external consultations requiring shelter visits outside of Tompkins County. Regionally we have been helping several shelters within a two-hour radius with facility renovations and design. We have also provided clinical services to

several organizations, including the Beverly Animal Shelter, Humane Society of Schuyler County, Binghamton Humane Society, SPCA serving Alleghany County, Finger Lakes SPCA, and Chemung County SPCA. These are time-consuming, but we do our best to meet needs. Outside of our region, we have travelled to Scotia, NY to the American Protective Foundation for an initial on-site shelter consultation. Dr. Berliner visited the Humane Society of Boulder Valley, Humane Society of Platte County, and Longmont Humane Society while passing through Denver. She also traveled to Santa Fe to consult with shelters on revamping their housing and their medical programs. This past year Drs. Berliner and Boes also visited a couple large shelters in Phoenix Arizona (Arizona Humane Society and Mariposa County Animal Care and Control) after a RAVS trip earlier in 2014. We continue to provide support to shelters by phone and email, and have been listed in the Cornell University Hospital's Referral Directory so that DVMs can be directed to our service for questions regarding population health and infectious disease management.

We collaborated again with the ASPCA to conduct the 11th Annual ASPCA/ Maddie's® Shelter Medicine Conference at Cornell. This year the conference ran three tracks (for veterinarians, veterinary technicians and shelter administrators) and continuing education credits were provided to eligible attendees. Approximately 330 people attended the 2 1/2 – day conference with raving reviews.

Dr. Scarlett is in final stages of her book on shelter metrics entitled, *Every Nose Counts: Understanding, Assessing and Using Your Animal Shelter's Data a Maddie's Guide*. Writing is complete with the exception of the Goals chapter. All three appendices are complete. The Glossary remains to be finished. The Table of Contents and Index will be completed when the final page numbers are known. All completed sections have been submitted to the designer. We are awaiting a date when the designer anticipates finishing her work.

It is also an exciting time as the AVMA Executive Board voted unanimously in favor of granting provisional recognition to the Shelter Medicine Practice specialty within the American Board of Veterinary Practitioners, on a recommendation from the AVMA's American Board of Veterinary Specialties this past April 2014. Both Drs. Scarlett and Berliner are serving on the Organizing Committee, and actively engaged in the credentialing process. Furthermore, Dr. Berliner was elected to the Association of Shelter Veterinarian's Board of Directors, which is entering its 12th year and in an active phase of strategic planning for the future of the Shelter Medicine Specialty. Additionally, Drs. Berliner and Scarlett maintained heavy involvement in shelter medicine movements at the state level, working with the New York Federation of Humane Societies to develop guidelines specific to New York for animal shelters.

Finally, Cornell's Development offices continue to work on behalf of the program. They have arranged for both Drs. Berliner and Scarlett to present or visit with prospective donors. The college Communications office has continued to highlight the program in various college publications, the website, and digital monitors throughout the college. Dr. Berliner also serves on the Executive Board of the Alumni Association, facilitating communication with DVM alumni who are often in contact with potential donors and the sheltering community.

With the help of Communications we filmed a video, "A Day in the Life of Shelter Medicine," to help the college and community members more clearly understand all of our various programs

and efforts. This is available at the University's CornellCast webpage,
<http://www.cornell.edu/video/>

We are saddened to announce the retirement of two members of our team, although we wish them the best possible in their newfound free time. Dr. Scarlett retired as of October 1, 2014, although she has graciously agreed to continue to support the epidemiology and study design training of our intern and resident, as well as consulting on issues of shelter medicine research. Sue Honig, our data technician, also retired this year.

As always we are eternally grateful for past and present Maddie's® Fund support!

Sincerely,

A handwritten signature in blue ink that reads "Elizabeth Berliner, DVM". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Dr. Elizabeth Berliner , DVM, DABVP

Janet. L Swanson Director of Maddie's Shelter Medicine Program

I. CONTINUE AND EXPAND VETERINARY STUDENT TRAINING

A. Continued Training

1. Offered three elective courses

Name of course	Course No.	Offered to	Enrollment 2013	No. years offered
Companion Animal Welfare	VTMED 6734	First and second year students	39	16 years
Shelter Medicine I	VTMED 6425	Third and fourth year students	11	10 years
Shelter Medicine II	VTMED 6434	Third and fourth year students	13	7 years

(The 2013 lecture schedules for these courses are provided in **Appendix I**.)

2. Continued:

- a. Teaching of two sessions of Maddie's® Shelter Medicine Rounds during the CPS clinical rotation for ***all*** veterinary students.
- b. Exposure of students taking the core Block IV "Host, Agent, and Defense" course to shelter-based examples. These are used to teach principles of epidemiology and statistics using examples derived from program experiences.
- c. Coordination of tours at the SPCA of Tompkins County during the spring semester for all first-year veterinary students. This is the first exposure of all of our veterinary students to the SPCA of Tompkins County and the first exposure of many to an animal shelter.
- d. Lecture to all first year students the first week of matriculation on the "Normal Behavior of Cats," and an introduction to minimal handling techniques for clinical procedures.
- e. Teaching of the cat-handling laboratory for Block 7, demonstrating minimal and humane restraint of cats during medical examinations and procedures. This laboratory is core for all veterinary students.
- f. Rotation of all third or fourth-year students through the "CPS Surgery" where students travel to one of four shelters to spay and castrate cats and dogs (under the supervision of an experienced spay/neuter veterinarian). One of these shelters is the Adoption Guarantee shelter, the SPCA of Tompkins County.

- g. Offering weekly Shelter Medicine Club clinics at the SPCA of Tompkins County. Students and interns provide medical support to the shelter every Saturday during the academic year.
 - h. Maddie's® Shelter Medicine Case Rounds, a series of lunchtime lectures on interesting clinical cases in shelter medicine. These weekly, 45-minute, brown-bag rounds are open to all members of the veterinary college, and attract students from all four classes. Sessions are case-based and interactive, with shelter medicine faculty or interns presenting a medical or behavioral scenario, and leading students through diagnosis and management of a condition in a shelter setting.
 - i. Extracurricular presentations open to the College Community entitled:
 - Parasites in the Shelter (Dr. Putnam)
 - Surgery Tips and Tricks, along with suture practice (Drs. Berliner, Putnam, Boes, and Hoshizaki)
 - Surgery Tips and Tricks, along with suture practice (Drs. Berliner, Putnam, Boes, and Hoshizaki)
 - Panel Discussion: Senior Cats (Dr. Berliner)
 - Opportunities for Outreach with the Rural Area Veterinary Service Program (Dr. Berliner)
 - Pets Only Vets Students Love: Neonates and Special Needs Foster Care in the Shelter Setting (Dr. Berliner)
 - So, You Want To Be a Surgeon? Panel Discussion (Dr. Putnam)
 - j. Presentation in Feline Infectious Diseases (VTMED 6524):
 - Managing Disease in Cat Populations (Dr. Berliner)
3. Expanded training opportunities in shelter medicine:
- a. Completion of nine, two-week Clinical Rotations in Shelter Medicine: Principles and Practice. This clinical rotation exposes 3rd and 4th year students to the principles and practice of veterinary medicine in a shelter setting. While much time is spent providing direct veterinary medical care to individual shelter animals, there is also directed focus on introducing students to population-level principles. Topics include (but are not limited to) infectious disease diagnosis, treatment, and management; shelter wellness protocols; high-quality, high-volume spay-neuter; shelter data management; sanitation and disinfection; and population and capacity planning. The daily schedule includes clinical work, daily shelter rounds, and daily topic rounds. A total of 19 students completed the rotation in year 9.
 - b. Six shelter medicine externs spent time with us:

- Stacy Godfrey (St. George) – 2 weeks
- Dana Hardisky (Ross) – 2 weeks
- Hayley Inkpen (Prince Edward Island) – 2 weeks
- Theo Nelson (Ross) - 2 weeks
- Frances Kaminski (St. George) – 2 weeks
- Rachel Mays (St. George) – 2 weeks

c. Externships were awarded by the Maddie’s® Shelter Medicine Program for Cornell students to travel to other shelters/humane organizations. Four were awarded, two with ASPCA funding and two with Maddie’s® Fund funding:

- Colleen Cassidy, Humane Society of Boulder Valley (ASPCA Funding)
- Sara Wengert, Animal Shelter Costa Rica (AHPPA), Heredia, Costa Rica (ASPCA Funding)
- Caitlin Lacey, Casa Cuna Gatuna Veterinary Clinic, San Jose, Costa Rica (Maddie’s® Fund funding)
- Michael Freifeld, Casa Cuna Gatuna Veterinary Clinic, San Jose, Costa Rica (Maddie’s® fund funding)

d. Special presentations and guided tours (of the SPCA of Tompkins County) were given to students regarding animal sheltering and shelter medicine in the United States (Including the Adoption Guarantee philosophy)

II. TRAINING OF SHELTER MEDICINE INTERNS

A. Recruitment

Cornell posted our shelter medicine internship in October 2013 through the American Association of Veterinary Clinicians Veterinary Internship and Residency Matching Program (www.virmp.org). Dr. Tiva Hoshizaki is the Janet L. Swanson Resident in Shelter Medicine, completing in 2016. Dr. Christina Delgado is the Maddie’s® Intern in Shelter Medicine for 2014-2015.

B. Training Experiences

1. Drs. Boes and Hoshizaki continued training in shelter medicine practice via the full-time collaboration between the SPCA of Tompkins County and the program. All medical and surgical services are provided by the interns with supervision by shelter medicine faculty and with assistance of professional students and the program LVT.
2. Drs. Boes and Hoshizaki completed training in exotic animal medicine, emergency and critical care, internal medicine, dentistry, clinical pathology, necropsy, radiology, dermatology and community practice service.

3. Drs. Boes and Hoshizaki each spent two weeks training at Lollypop Farm, the Humane Society of Greater Rochester.
4. Drs. Boes and Hoshizaki (accompanied by Drs. Berliner and Putnam) attended the North American Veterinary Conference for the Association of Shelter Veterinarians in Orlando, Florida.
5. Drs. Berliner and Boes, along with Anne Marie McPartlin, program LVT, attended the Midwest Veterinary Conference in Columbus, Ohio.
6. Dr. Boes attended the Zoonotic Disease Symposium that took place at Cornell University, College of Veterinary Medicine.
7. Drs. Boes and Hoshizaki presented yearly intern seminar presentations to the college:
 - Dr. Boes, “All Breed and No Bite. A review of breed specific legislation.”
 - Dr. Hoshizaki, “Testing for Food Aggression in Shelter Dogs.”
8. Drs. Boes and Hoshizaki completed a five-day independent study of study design and literature with Dr. Scarlett. This element was developed to enhance our interns’ ability to intelligently consume the shelter medicine literature.
9. Drs. Boes and Hoshizaki completed the Veterinary Forensics course as well as VIN Euthanasia Continuing Education course on-line.
10. Dr. Boes and Hoshizaki completed a Veritas Online Continuing Education course in Cardio Pulmonary Resuscitation (CPR), and Dr. Boes completed the Veritas Physical Rehabilitation course.
11. Drs. Boes and Hoshizaki participated in bi-weekly professional development rounds conducting research, teaching students and participating in academic scholarly pursuits.
12. Dr. Boes served on a week-long RAVS (Rural Area Veterinary Service) trip to White Mountain, Arizona. Dr. Hoshizaki served on a ten-day-long RAVS trip to Washington State.
13. Dr. Hoshizaki participated in a mock animal based trial case with law students and advisors from the Cornell Law School.
14. Drs. Berliner, Scarlett, Boes and Hoshizaki had a week-long consultation at the American Protective Foundation in Scotia, New York.

15. Dr. Hoshizaki completed three semester long courses to complete the Maddie's® Graduate Certificate in Shelter Medicine through the University of Florida.

16. Drs. Boes, Hoshizaki, Scarlett, Berliner and Putnam hosted the Community Outreach Club of the Ontario Veterinary College from January 10-12, 2014. In addition to giving tours at the SPCA of Tompkins County and the Cornell University Hospital for Animals, they gave presentations on topics including:

- Metrics
- An Introduction to Shelter Medicine
- ASV Guidelines
- Case Presentations

From this event, two Ontario Veterinary College students have booked externships with the program, and Dr. Berliner was invited to speak at the Ontario Veterinary College student Symposium on Animal Welfare in the Fall of 2014.

17. Dr. Delgado participated in the week-long Community Cat Management workshop in August of 2014 at the University of Florida Maddie's® Shelter Medicine Program. Here she learned valuable lessons in community cat management, and met members of other shelter medicine programs as well as other shelter veterinarians.

18. Continued participation in monthly Infectious Disease Group meetings (composed of members of Shelter Medicine, the Animal Health Diagnostic Center, and clinical college faculty) to discuss interesting developments and outbreaks in infectious disease for the purposes of education and fostering collaboration.

19. Continued participation of twice monthly Grand Rounds with University of California, Davis, University of Florida, and other shelter medicine faculty and trainees.

- Dr. Boes presented: "All bark and no bite? A review of Breed Specific Legislation."
- Dr. Hoshizaki presented "Testing for Food Aggression in Shelter Dogs."

20. Continued facilitation of weekly shelter medicine Journal Club to discuss recent shelter medicine relevant literature.

21. Continued weekly content-based emergency seminars and common emergency cases.

22. Continued once-monthly comparative rounds with students, interns and faculty in collaboration with the Weill Medical School's Rural Animal Rotation at Cayuga Medical. Dr. Putnam is a faculty organizer of these rounds.

23. Continued Shelter Medicine Clinical Rounds with presentations by interns to veterinary students during on-going lunchtime lectures on interesting clinical cases. Teaching in this series provides opportunities for the interns to enhance their presentation skills and research on relevant topics in the field of Shelter Medicine.

Representative topics included:

- Oh, Behave! Behavior Evaluation, Modifications and Decision Making in a Shelter Environment
- Polyarthropathy in a Cat
- Orthopedics in a Shelter Setting
- Quality of Life Issues in Senior Shelter Cats
- Top Ten Rules of Shelter Medicine
- Osteomyelitis in a Cat
- Managing Blindness in Shelter Dogs
- Details of Field Medicine
- A Visit to the Hong Kong SPCA
- Cat Housing and Honolulu Humane Toxoplasmosis
- Practical Parasitology
- Feline Lungworm

C. Graduation:

1. We completed the fourth year of our Maddie's® Shelter Medicine Internship Program with the graduation of the two 2013 interns.
2. Dr. Boes is currently employed as a shelter veterinarian at the Toronto Humane Society, Toronto, ON, Canada.
3. Dr. Hoshizaki remains in the Shelter Medicine Program as the Janet L. Swanson Resident.

III. ADDED DEPTH AND BREADTH TO OUR SHELTER MEDICINE OUTREACH EFFORTS

A. SPCA of Tompkins County

1. Continued collaboration with the SPCA of Tompkins County during which Cornell Shelter Medicine Program provided daily oversight and primary care for the medical program at the shelter. Aspects of the collaboration included:
 - a. The creation of policies and protocols for the shelter's medical program.
 - b. Ongoing staff training programs.

- c. The re-design of spaces to address wellness, infectious disease protocols and humane housing.
- d. Increased primary care experience for the interns in Shelter Medicine, including medical care, high quality, high volume surgical and anesthesia experience.
- e. Ongoing educational presentations relating to shelter animal care at weekly shelter staff meetings, including:
 - “Weight Loss in Cats,” presented by Dr. Putnam
 - “Compassion Fatigue,” presented by Dr. Putnam
 - “Kitten Orientation,” presented by Dr. Berliner
 - “Minimal Restraint Techniques for Cats,” to be followed by wet labs. Presented by Anne Marie McPartlin, LVT
 - Rotation/extern presentations to staff of the SPCA of Tompkins County at the shelter’s weekly staff meetings.
- f. Improved collaboration between the college and the shelter on cruelty cases, emergency care of homeless animals and outbreak diagnosis and management.
- g. Increased assistance in investigations and cruelty cases in Tompkins County in collaboration with Animal Control.
- h. Creation of reporting template for intake and outcomes-related metrics for the SPCA of Tompkins County programs.
- i. Continued presence of Dr. Berliner on the Animal Issues Committee, with her assuming the role of Chairperson of the Committee for the shelter in November 2011. Dr. Putnam and interns participate in this committee as well.
- j. Facilitation of an orientation at the college for veterinary students interested in volunteering at the shelter in behavioral, medical, or foster care. This has led to increased involvement in animal fostering by both shelter medicine club members and veterinary students at large. Veterinary students have been critical in several very challenging medical and behavioral cases where foster care has been life saving.
- k. The March for the Animals is the biggest fundraising event for the SPCA of Tompkins County, helping to raise money towards the medical care of nearly 3,000 animals. This year, the SPCA of Tompkins County exceeded its goal of \$100,000 by raising a total of over \$108,000. New registration and attendance records were reached with over 312 people registering for the March, 52 teams participating, and more than 54 youth fundraisers. The

Shelter Medicine Club sponsors a team each year, bringing the fundraiser to the college.

- l. More than 200 shelters and rescues in 14 communities throughout the United States participated in the fifth annual Maddie's® Pet Adoption Days sponsored by the Pleasanton, CA based Maddie's Fund®. Maddie's® Pet Adoption Days is held annually to increase awareness of homeless animals, boost adoptions, and support the shelters and rescue organizations in the 14 participating communities. This year the SPCA of Tompkins County adopted out 99 pets to loving homes during Maddie's® Pet Adoption Days. All of these animals had been medically prepared for adoption by the Maddie's® Shelter Medicine team at Cornell University.
- m. The program regularly monitors specific intake and outcome within shelter metrics to evaluate progress towards goals in these areas.

B. Continued Outreach to Other Shelters

1. *Animal Protective Foundation, Scotia, NY*: Initial on-site week-long intensive consultation regarding full shelter operations, improvement of the medical program and improved humane housing.
2. *Animal Care Sanctuary (ACS) in Pennsylvania*: Continued consultation with this Adoption Guarantee Shelter. Animal Care Sanctuary has successfully transitioned from a sanctuary to a shelter. They have a fully functional spay/neuter clinic, providing subsidized services to a growing clientele. They have acquired a second shelter facility in a nearby community, which has extended their life-saving capabilities. Renovations will begin soon to parts of their dog housing areas and the majority of their cats are now housed in humane housing units. Dr. Scarlett serves on the ACS Advisory Committee that meets approximately 6 weeks a year.
3. *Binghamton Humane Society, Binghamton, NY*: Dr. Berliner traveled to collaborate on their shelter design.
4. *Beverly Animal Shelter, Waterloo, NY*: Drs. Berliner and Hoshizaki had launched a six-month outreach project to improve the health and welfare of animals on-site. Dr. Hoshizaki traveled to the shelter weekly with the assistance of faculty, staff and veterinary students to advise and provide a comprehensive shelter consultation.
5. *Finger Lakes SPCA, Bath, NY*: Initial on-site consultation with the staff and the Executive Director regarding a preliminary discussion on the development and construction/renovation for a future shelter building that would be affordable and ideal to their needs. Recently the program and shelter had a follow-up meeting to discuss their architectural plans. They have broken ground on their new shelter at this point.

6. *Chemung County SPCA*: Continuing education has been provided for shelter staff by the Maddie's® Shelter Medicine Program rotation and extern veterinary students and LVT, with the focus on shelter data, euthanasia protocols, dog/cat enrichment, compassion fatigue, and fecal labs.
 7. *SPCA of Alleghany County*: Dr. Berliner met with the board in regards to building plans, which is at the stage of a capital campaign.
 8. *Humane Society of Schuylers County*: The program continues to offer on-going consultation on shelter design and TNR clinics.
 9. *PAWS of Rochester, New York*: Continued presence of Dr. Putnam as a member of their Advisory Board. She is helping to establish protocols and train staff.
 10. Dr. Berliner was awarded \$38,900 from the Wiederhold Foundation for the on-going support of the program's work to aid shelters with large-scale hoarding and breeding mill cases in regional shelters.
 11. Continuation of Maddie's® Shelter Medicine Consultation E-mail Service (for veterinarians, shelters, and other interested parties). During the last year, we have received approximately 60 E-mails, of which most concern infectious disease, vaccination, cleaning and disinfection and animal transport.
 12. ASPCA / Maddie's® Shelter Medicine Program Annual Conference
(See **Appendix II**)
- There were approximately 330 attendees to the 2014 shelter medicine conference. The conference was highly successful, exceeding our expectations. Three tracks (veterinary and veterinary technician, staff and volunteers, and administrative) were offered. Also, continuing education credit was obtained for the veterinarians and veterinary technicians. Plans are currently underway for the 2015 conference by the planning committee.
13. Continued additions and updates were made to the Maddie's® Shelter Medicine Website at Cornell.
 14. Newly initiated Shelter Medicine blog publications at, <http://blogs.cornell.edu/cornellsheltermedicine/>, were written by Shelter Med veterinarians, interns, LVT and students on topics including:
 - A Shelter Medicine Crash Course for Canadian Veterinary Students
 - A Rescue Story from Brookfield
 - The Meaning of Shelter Medicine (to a 4th year student)
 - Kitten Season
 - My Shelter Medicine Internship in a Nutshell
 - Variety is the Spice of Life (regarding rat surgery and medicine)

- Kittens, Puppies, and Ascarids, Oh My!
 - The 5 “W”s of Breed Specific Legislation
 - Trichostrongylus axei
 - Making a Difference One Conversation at a Time
 - ASPCA/Cornell/Maddies® 2014 Recap: Foreign Bodies in Shelter Dogs
 - Kitten Season is Here: Pre-Surgical Pediatric Examination
 - Don’t Let Isospora Run Your Shelter Down
 - Kitten Cuddling 101
 - Cuterebra
 - Pet Point Summit 2014 Highlights
 - Rethinking Community Cats
 - HSVMA RAVS: Life Changing
 - Diary of a Bottle Feeder
15. Working with a Cornell videographer, the program produced a Cornell University Video Cast of, “A Day in the Life of Shelter Medicine.” This overview of the Maddie’s® Shelter Medicine Program demonstrates how it directly serves and impacts the quality of life of homeless animals on a daily basis. The video is currently streaming on social media Internet forum, YouTube, as well as Cornell University’s video and audio cast webpage, <http://www.cornell.edu/video/maddies-shelter-medicine-program>

C. Outreach to Communities:

1. Southside Community Center: Drs. Berliner, Putnam, interns and LVT continue a regular clinical presence at the twice-monthly subsidized wellness clinic offered by veterinary students for low-income owners in downtown Ithaca. This is an important component of shelter medicine because:

- a. This has resulted in increased numbers of clients applying for subsidized spay/neuter services through the local Shelter Outreach Services Program.
- b. This has also provided students with insight into proactive ways to keep shelter pets healthy and in loving homes, especially in times of financial stress.
- c. This enables low-income animal owners to provide basic care (e.g. vaccinations) that may be life-saving and enable owners to provide medical costs that might lead to relinquishment.

2. Central NY Animal Welfare Coalition: Dr. Berliner continues to consult regarding the on-going sustainable monthly veterinary wellness clinic for low-income pet owners in urban Syracuse.

- a. In the last year the Coalition held six clinics and served the medical needs of more than 1,000 animals annually. This is the third year of the program.
- b. Dr. Berliner has managed the veterinary services at each of the clinics, with each of the Maddie's® Shelter Medicine Program interns and the program's summer work-study veterinary student attending at least one clinic. In addition, more than 100 Cornell University College of Veterinary Medicine students provided support at the clinics.

D. STATE/NATIONAL OUTREACH

1. Dr. Scarlett continued participation on Committee seeking Shelter Medicine Specialty status. Dr. Berliner joined this group in April 2012 and is part of the Credentials Committee. In April, the Association of Shelter Veterinarians Board Specialty Organizing Committee announced that the American Board of Veterinary Practitioners (AVBP) accepted the petition to create a specialty in Shelter Medicine. Drs. Scarlett and Berliner are active participants in writing the specialty exam.
2. Dr. Berliner continues to serve on the Association of Shelter Veterinarian's Board of Directors. In this role she attended a three-day strategic planning session in December 2013, and serves on the Position Statement Committee which is actively revising and writing defining statements for the organization. She also serves on the Scholarship Committee and is faculty advisor to the student chapter of the ASV at Cornell Veterinary College.
3. National Council for Pet Population: Dr. Scarlett continues to participate on the Council. The Council is co-sponsoring a one-day Research Day entitled, "Speaking of Behavior: The Impact and Application of Behavioral Science in Animal Shelters," on November 9, 2014 in Dallas, Texas in conjunction with the Society of Animal Welfare Administrators Research Symposium.
4. Dr. Scarlett presented at the National Council Research Day Conference in Tempe, Arizona.
5. The program has on-going participation by Drs. Berliner and Scarlett in the New York State Standards Task Force to create shelter standards and propose progressive legislation supporting shelters in New York State.
6. Dr. Scarlett has been working with the National Animal Interest Alliance to conduct a survey to evaluate the pet market in the United States, including the proportion of people who would choose to adopt their next animal from an animal shelter. The survey is complete and was administered by Survey Monkey in October 2013. Dr. Scarlett will analyze and help draft a manuscript.
7. Dr. Berliner gave a lecture to the shelter medicine evening club on, "Pets Only Vet Students Love: Neonate and Special Needs Foster Care in the Shelter Setting."

8. Dr. Berliner presented at the Board of Directors Presentation at the Alumni Association Executive Board Meeting, “The Role of Shelter Medicine at Cornell University.”
9. Dr. Putnam attended the Primary Care Conference in Purdue.
10. Dr. Berliner presented at the Quebec Veterinary Conference on:
 - Flow-Through Planning
 - Quality of Life
 - Decision-Making in Shelters
11. Dr. Berliner attended the 18th Annual American Board Veterinary Practitioners Symposium, Phoenix, AZ at which Shelter Medicine was well received for a three-day specialty track.
12. Drs. Berliner, Putnam, Boes and Hoshizaki attended the North American Veterinary Conference for the Association of Shelter Veterinarians in Orlando, Florida.
13. Drs. Berliner and Boes, and program LVT, Anne Marie McPartlin attended the Shelter Medicine track at Midwest Veterinary Conference in Columbus, Ohio.
14. Dr. Berliner was selected by the college to attend a week-long CALS Workshop on Leadership and Development in January 2014.
15. Drs. Berliner and Putnam attended several Cornell Teaching Excellence Seminars to continue to improve Shelter Medicine training.
16. Dr. Berliner visited the Humane Society of Boulder Valley, Humane Society of Platte County, and Longmont Humane Society. Drs. Groshong and Rappaport provided tours and insight into the challenges in this community.
17. Dr. Scarlett presented at the May 2014 Robert Dyar Epidemiology Lectureship at the University of California, Davis. The presentation was entitled, “What are the Risks Associated with Neutering Dogs and Cats? How Well You Decide.”
18. Drs. Berliner and Scarlett continue to be part of college conversations and development with the City University at Hong Kong’s Center for Animal Welfare. It is anticipated they will continue to present at the international symposium, new course offerings and on-line training.
19. Dr. Berliner presented at the City University at Hong Kong’s Center for Animal Welfare First International Symposium on, “Animal Sheltering Systems and Maximizing Animal Welfare.”
20. Dr. Scarlett presented at the APSCA Spay/Neuter Conference in New York City on, “The Risks and Benefits of Spay/Neuter.”

21. Dr. Berliner continues the role as a lead veterinarian in the Humane Society Veterinary Medical Association – Rural Area Veterinary Services Program (HSVMA-RAVS). HSVMA-RAVS is a non-profit veterinary outreach program combining community service and veterinary education to bring free veterinary services to underserved rural communities (where poverty and geographic isolation make regular veterinary care inaccessible). This past year approximately 300 students participated on a national scale, with approximately 30 students from Cornell along with program intern, Dr. Boes and program LVT, Anne Marie McPartlin.

22. CT Shelter – Cornell Student Scholarship?

IV. CONTINUE CONDUCT OF ANIMAL SHELTER-RELATED RESEARCH

A. Barn Cat Study Follow-Up Project (In progress)

Dr. Berliner's initiation of Barn Cat Study follow-up in collaboration with veterinary student, Ada Norris, has launched the first stage of the project. The SPCA of Tompkins County and Lollypop Farms have enrolled.

B. National Animal Information Alliance (In progress)

Dr. Scarlett is collaborating with the National Animal Information Alliance on a study regarding sources of pets and attitudes toward transport programs. Publication is being prepared.

C. Growth Rates, Disease, and Mortality in Fostered and Shelter Kittens (In Progress)

Drs. Berliner and Scarlett are working with a second year veterinary student, Allison Cowan, to conduct a study of weight gain, disease and mortality among kittens < 8 weeks of age in foster care for the SPCA of Tompkins County. They have been awarded the Morris Animal Fund Fellowship and an American Humane Award for the summer of 2014. Data collection will continue through the remainder of the kitten season and will then be analyzed.

D. *Streptococcus equi* subsp. *zooepidemicus* in shelter cats (In progress)

Dr. Hoshizaki closely mentored by Drs. Berliner and Scarlett is collecting data from Beverly Animal Shelter with particular interest in *Strep. zoo*. This study will provide clinical insight into the disease and contribute significantly to the small body of literature available on the topic.

E. Body Condition Scoring in Shelter Cats - Poster Presentation

Scarlett, J.M, McDougall, R, Berliner, E.A., Wakshlag, J.J. Changes in weight of cats during their first two weeks of residence in an animal shelter in upstate, New York (presented at Waltham International Nutritional Sciences Symposium, Portland, OR, October 2, 2013.)

F. Pet Relinquishment

Weiss, E., Slater, M., Garrison, L., Drain, N., Dolan, E., **Scarlett, J.M.**, Zawistowski, S.L. (2014) Large dog relinquishment to two municipal facilities in New York City and Washington, D.C.: Identifying targets for intervention. *Animals* 4(3), 409-433; doi:10.3390/ani4030409.

G. New technologies for shelter data analysis

Reading, A, Scarlett, J.M., Berliner, E. A novel approach to identify and map kitten clusters using GIS: a case study from Tompkins County. *Journal of Applied Animal Welfare Science*. Published May 2014.

H. Animal Cruelty

Gerdin, J., McDonough, S.P., Reisman, R., Scarlett, J. Circumstances, population characteristics, gross and histologic findings in dogs suspected of starving. (Submitted to Veterinary Pathology, February 2014)

I. Textbook Publication (In progress)

Scarlett, J. Every Nose Counts: Understanding, Assessing and Using Your Animal Shelter's Data: A Maddie's Guide

The chapters have been written with the exception of the Goals chapter. All three appendices are complete. The Glossary remains to be finished. The Table of Contents and Index will be completed when the final page numbers are known. All completed sections have been submitted to the designer. We are awaiting a date when the designer anticipates finishing her work. Dr. Scarlett can send electronic copies of the finished chapters to Maddie's® Fund if you wish to see them at this point.

Appendices

Appendix I

Course Lecture Schedules

Appendix II

Annual Mini-Conference Brochure

Appendix I: Course Syllabi

VTMED 6734: Companion Animal Welfare**Spring 2014**

Dr. Jan Scarlett

Dr. Elizabeth Berliner

Dr. Holly Putnam

Lecture Schedule

Date	Day	Time	Topic	Lecturer
2/18	Tues.	11-1pm	Introduction of Course Requirements	Scarlett
			Animal Sheltering: Past & Present Humane Community & Veterinary Relationships	Scarlett
2/20	Thurs	3-5pm	Keeping Pets in Their Homes: The Veterinarian's Role	Scarlett
			Community Cats	Scarlett
2/25	Tues	11-1pm	Strategies for Controlling Pet Populations	Berliner
			The Making of the "Perfect" Pet • Declawing, Ear Cropping, Tail Docking, Puppy Mills	Berliner
2/27	Thurs	3-5pm	Importance of Behavioral Health and Its Implications for Welfare	Lohnes
3/4	Tues	11-1pm	Quality of Life	Berliner
			Equine Welfare	Cable
3/6	Thurs	3-5pm	Welfare and Pet Stores Optional Debrief Session Following Class	Stottele
3/11	Tues	11-1pm	Euthanasia	Miller

3/13	Thurs	3-5pm	Animal Cruelty	Miller
			Animal Law in NYS	Wolf

VTMED 6425: Shelter Medicine I

Spring 2014

Dr. Jan Scarlett

Dr. Elizabeth Berliner

Date	Day	Time	Topic	Lecturer
3/25	Tues	2-4pm	Introduction of Course Materials, ASV	Putnam

Dr. Holly Putnam

			Guidelines, Website, Requirements, and Expectations	Scarlett
			Principles of Preventative Medicine, Disease Surveillance, and Outbreak Management	
3/27	Thurs	2-4pm	Management of Common Infectious Diseases	Putnam
4/1	Tues	2-4pm	Sanitation & Disinfection	Putnam
			Zoonotic Diseases in the Shelter	
Date	Day	Time	Topic	Lecturer
4/22	Tues	2-4pm	Quality of Life for Shelter Animals Issues, and Protocols	Berliner
4/8	Tues	2-4pm	Compassion Fatigue	Putnam
			Management Structure	
4/10	Thurs	2-4pm	Behavioral Assessment and Care of the Shelter Dog and Cat	Lohnes
4/15	Tues	2-4pm	HQHVSN	Putnam
4/17	Thurs	2-4pm	What do we know about long term effects of early spay/neuter?	Scarlett
			Metrics	

VTMED 6434: Shelter Medicine II

Spring 2014

Dr. Elizabeth Berliner

Dr. Holly Putnam

Dr. Jan Scarlett

			Care of Neonatal Shelter Animals	Berliner
4/24	Thurs	2-4pm	Veterinary Forensics (Video Teleconference)	Merck
4/29	Tues	2-4pm	The Necropsy for Shelter Veterinarians Gross and Histologic Pathology of Selected Infectious Diseases in Shelters	McDonough
5/1	Thurs	2-4pm	Ringworm in a Population Setting Toxoplasmosis: Truth, Fiction, and Crazy Cat Ladies	Berliner Berliner
5/6	Tues	2-4pm	Animal Transport Behavior Assessments	Berliner Hoshizaki
5/8	Thurs	2-4pm	Cat Hoarding Breed Specific Legislation	Newmark Boes
5/13	Tues	2-4pm	Shelter Housing, Design, and Materials	Berliner
5/15	Thurs	2-4pm	Help this Shelter – Case Based Review	Berliner

Appendix II: Annual Mini-Conference Brochure



**ASPCA/CORNELL/MADDIE'S®
SHELTER MEDICINE CONFERENCE
JULY 18-20, 2014**

**Robert Purcell Community Center
Cornell University
Ithaca, NY**

CONFERENCE AGENDA

**Friday, July 18th
Keynote speech and wine and cheese reception**

Time	Title	Presenter	Description
5:15pm – 6:00pm	Registration opens		
6:00pm – 7:00pm RACE APPROVED	Medicine and Science in the History of Animal Shelters	Stephen Zawistowski, PhD, CAAB	Animal shelters were originally used to hold animals with little or no regard to their comfort or welfare. Developments in veterinary medicine, animal behavior and animal science have helped shelters “live” up to their name by providing for the physical and mental health of the animals “sheltered” there. How did animal shelters evolve, and where might they be going in the

			future?
7:00pm – 8:00pm	Wine & cheese reception to follow keynote speech		

Saturday, July 19th - DVM/LVT Track

Time	Title	Presenter	Description
8:30am – 9:30am RACE APPROVED	Recognizing and treating common dental conditions in dogs and cats	Santiago Peralta, DVM, Dipl. AVDC	The basic aspects of the pathophysiology, diagnosis and treatment of the most common dental diseases of dogs and cats will be reviewed. Possible ways to implement adequate dental standards at shelters will be discussed.
9:45am – 10:45am RACE APPROVED	Update on chronic stomatitis	Santiago Peralta, DVM, Dipl. AVDC	The current knowledge regarding the pathophysiology, diagnosis and treatment of chronic stomatitis in cats will be reviewed. Possible recommendation on how to manage chronic stomatitis at a shelter will be discussed.
11:00am – 12:00pm RACE APPROVED	Hematology in the emergency setting: the value of the blood smear exam	Heather Priest, DVM	The lecture will focus on the basics of the blood smear evaluation and will be followed by case examples that we will work through as a group. The main objective of the lecture is to demonstrate a systematic approach to examining a blood smear in order to gain valuable information for patient assessment and management in the emergency setting.
12:00pm – 1:00pm	LUNCH	LUNCH	LUNCH
1:00pm – 2:00pm RACE APPROVED	Cytology in clinical practice	Heather Priest, DVM	The lecture will consist of a review of sample collection, smear preparation and staining of cytology samples and will be followed by instructions on general slide evaluation for common lesions diagnosed on cytology. The lecture will conclude with clinical cases to practice your skills.
2:15pm – 3:15pm RACE APPROVED	Learning and practicing the 2012 veterinary guidelines Part 1	Daniel J. Fletcher, PhD, DVM, DACVECC	This interactive session will start with a brief lecture reviewing the major basic and advanced life support guidelines generated by the Reassessment Campaign on Veterinary Resuscitation. During the remainder of the session, teams of participants will run CPR codes on a high fidelity canine simulator, followed by post-code debriefing discussions.
3:30pm – 5:30pm RACE APPROVED	Learning and practicing the 2012 veterinary guidelines Part 2	Daniel J. Fletcher, PhD, DVM, DACVECC	

Saturday, July 19th - Administrator/Board/Management Track

Time	Title	Presenter	Description
8:30am – 9:30am	Adoption Ambassadors Save More Lives	Bert Troughton, MSW	Would you like to reach new potential adopters, increase adoptions, improve adopter satisfaction, and elevate your community presence? If the answer is “yes” then this simple, powerful program may be for you. We’ll delve into the structure, the research behind it, and everything you need to know to get Adoption Ambassadors up and running successfully with very little investment.
9:45am – 10:45am	The Adoption Counseling Toolbox	Bert Troughton, MSW	Adoption counselors have a lot of ground to cover in a short amount of time in order to set adopters and their new pets off on a happy and healthy life together. We’ll borrow from psychology, adult learning, customer service and some of the most successful adoption programs in the country to compile a toolbox of counseling techniques for this challenging job.
11:00am –12:00pm RACE APPROVED	How Lost Pets Get Found: Updates from National Research	Margaret R. Slater, DVM, PhD	Find out how many dogs and cats get lost nationally and what you can do to get them home again! We will explore best practices to reunite pets and their families.
12:00pm – 1:00pm	Networking Lunch: New York state not for profit organizations and veterinarians	Kathleen Makolinski, DVM Leslie Appel, DV M Hillary Causanschi, DVM	Has your shelter, rescue organization, or spay/neuter program been searching for a veterinarian to join you in your efforts to help animals? If so...what hurdles are you facing? What can be done to attract veterinarians to positions within such organizations? Are you a New York State veterinarian who might be interested in being employed in the shelter medicine or spay/neuter fields? This facilitated lunch time session w New York State compadres, discuss related challenges, brainstorm possible solutions, and determine next steps.
1:00pm – 2:00pm RACE APPROVED	Pet Store Puppies, Community Cats and Dangerous Dogs: Emerging Legal Trends and What they Mean to You Part 1 & Part 2	Stacy Wolf, Esq	New laws being considered and already passed in New York and in states across the country can have a profound impact on shelters, veterinarians and their animal charges. This workshop will explore some of these most recent legislative initiatives including: regulation of stores and breeders that sell puppies, feral or “community cats” and how interest groups and governments are seeking to control how and when they can be trapped, altered and released; breed restriction, insurance discrimination and dangerous dog laws and their practical effect on shelter adoptions and legal liability, and “shelter access” laws that aim to increase collaboration between shelters and rescue groups to find more homes for adoptable pets.
2:15pm – 3:15pm RACE APPROVED		Stacy Wolf, Esq.	
3:30pm – 4:30pm	What’s a SAWA CAWA?	Stephanie Janeczko, CAWA, DVM, MS, DABVP, CAWA	Attend this session to learn more about the Society of Animal Welfare Administrators (SAWA) and their certification program. We’ll explore SAWA’s role in animal sheltering and welfare, the professional and personal benefits of membership, the nature and

			structure of their one of a kind certification program, and the opportunities afforded those who pursue becoming a Certified Animal Welfare Administrator.
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Saturday, July 19th – Staff & Volunteer Track

Time	Title	Presenter	Description
8:30am – 9:30am RACE APPROVED	How animals learn	Kelley Bollen, MS, CABC	In order to modify the behavior of the animals in your care you must first understand how they learn. With this knowledge you will be able to implement training programs that provide mental stimulation, increase desirable behaviors to improve adoptability and modify unwanted behaviors that may stand in the way of successful placement
9:45am – 10:45am RACE APPROVED	Behavior modification for shelter cats	Kelley Bollen, MS, CABC	Modifying the behavior of the cats in our shelters involves first modifying their emotional state. The shelter is a very scary and stressful place for cats. Recognizing signs of stress and fear and implementing procedures to make the cats more comfortable will go a long way to improve their welfare and increase their adoptability.
11:00am – 12:00pm RACE APPROVED	Pit Bulls in our Shelters	Kelley Bollen, MS, CABC	They are the most common breed type in our shelters and we all love them but are they different?. We know they stay longer than most and that the stress of captivity takes its toll on them behaviorally. Efforts need to be made to evaluate them well and keep them behaviorally healthy during their stay through enrichment, training and behavior modification
12:00pm – 1:00pm	Lunch	Lunch	Lunch
1:00pm – 2:00pm RACE APPROVED	Is this cat Feral	Margaret R. Slater, DVM, PhD	How can we tell the difference between unsocialized vs. frightened but socialized cats? New research provides data on the valid ways to do this and how your shelter can use this information to give cats the most appropriate live outcomes.
2:15pm – 3:15pm	The Toys and How To Play With Them (Humanely)	Bill Brothers	A review of capture and handling gear and techniques; how and when to deploy. Avoiding mis-use of potentially inhumane gear (snare poles, etc). Protecting yourself while getting the job done (gloves, etc).
3:30pm – 4:30pm	Planning and Logistics of a Large Scale operation	Tim Rickey	Tim Rickey, VP of Field and Investigations at the ASPCA will discuss the recent cock fighting case in New York State. The important aspects in a large scale operation will be covered, including investigations, planning, operations, transport, logistics, personnel, sheltering, medical issues and placement challenges. Learn how to plan an operation or how to get involved with operations by the ASPCA.
3:45pm – 4:15pm Group 1 4:30pm – 5:00pm Group 2	Behavior workshop * registration required	Kelley Bollen, MS, CABC	Clicker training can be used in the shelter environment to provide mental stimulation, train desirable behaviors and modify undesirable behaviors. This hands-on workshop will focus on using clicker training to improve the behavioral health of the animals in your care

Sunday, July 20th - DVM/LVT Track

Time	Title	Speaker	Description
8:30am – 9:30am RACE APPROVED	Practical ophthalmology for the shelter medicine veterinarian Part 1	Lucien Vallone, DVM	This workshop will cover basic diagnostic techniques, common ocular conditions, and associated medical and surgical therapies with an emphasis on feline ophthalmology.
9:45am – 10:45am RACE APPROVED	Practical ophthalmology for the shelter medicine veterinarian Part 2	Lucien Vallone, DVM	
11:00am – 12:00pm RACE APPROVED	Canine Infectious Respiratory Disease	Stephanie Janeczko, DVM, MS, DABVP, CAWA	Infectious respiratory disease can be a significant challenge affecting the health of dogs in a shelter setting. This session will provide an overview of the disease complex, discussing causative agents, diagnosis and treatment. Management and preventive strategies will be emphasized.
12:00pm – 1:00pm	Lunch	Lunch	Lunch
1:00pm – 2:00pm RACE APPROVED	Management of Heartworm Disease in Shelter Dogs	Brian DiGangi, DVM, MS	Heartworm disease is 100% preventable yet experts estimate that one million dogs in the US are infected. This session will provide a review of the current recommendations for the prevention, diagnosis, and treatment of heartworm infections in dogs with an emphasis on practical, safe, and effective management strategies for shelter dogs.
2:10pm – 3:10pm RACE APPROVED	Feline Infectious Peritonitis (FIP)	Elizabeth Berliner, DVM, MA, DABVP	FIP is a progressive, fatal disease that may develop in cats following infection with a coronavirus. This session will provide an overview of FIP, covering disease transmission, clinical signs, and diagnosis as well as providing an update on new research that may lead to improved diagnostic testing and treatment in the future. Management and prevention of infection in shelter environments will be emphasized.

Sunday, July 20th
Administrator/Board/Management Track

Time	Title	Speaker	Description
8:30am – 9:30am RACE APPROVED	Engaging your community to increase positive outcomes for dogs	Matt Piccone, Rochester PAWS	This presentation will focus on how being proactive in responding to animal welfare concerns, especially when carried out without placing any judgment, can not only reduce shelter intake and keep pets safe at home, but it can actually transform a community overall. Key points will focus on the importance of getting into the streets, the neighborhoods, and into people’s homes. Another main focus of this presentation will be learning how to keep a successful approach while maintaining a respectful tone, and most importantly building and maintaining a trustworthy rapport, which is crucial to ensure success.
9:45am – 10:45am RACE APPROVED	New Resources to Assist Shelters with Using their Data	Jan Scarlett, DVM, MPH, PhD	Animal shelters are collecting more data than ever before with the widespread availability of shelter computer software. Even for those shelters using “free” software, data collection is not cheap. Dr. Scarlett will discuss two new resources to assist shelters to use their data more extensively (that will become available shortly).
11:00am –12:00pm	Ingredients for a Successful Grant Application	Michael Barrett and Claire Sterling	What does it take to craft an irresistible funding request? If you’re thinking about applying for a grant, this workshop is for you. Learn practical strategies and tips on preparing for the application process, building a strong case for support, and articulating clear goals and milestones.
12:00pm – 1:00pm	Lunch	Lunch	Lunch
1:00pm – 2:00pm RACE APPROVED	Euthanasia – Making Difficult Decisions	Stephanie Janeczko, DVM, MS, DABVP, CAWA	Euthanasia is one of the most difficult and emotional topics in animal welfare and deciding which animals to euthanize is perhaps the hardest part. This session will discuss criteria for making these decisions as well as the need for and development of objective policies and procedures.
2:10pm – 3:10pm RACE APPROVED	Euthanasia – Humane Approaches for Animals and People	Stephanie Janeczko, DVM, MS, DABVP, CAWA	Euthanasia is a difficult task that requires specific skills and resources. This session will provide an overview of requirements and best practices surrounding euthanasia in the shelter with a focus on ensuring that each animal is treated with respect and that staff are adequately trained and supported. Safety considerations and the emotional impact of euthanasia will also be discussed.

Sunday, July 20th Staff/Volunteer Track

Time	Title	Presenter	Description
8:30am – 9:30am RACE APPROVED	CPR: How to Save a Life	Daniel J. Fletcher, PhD, DVM, DACVECC	When an animal suddenly collapses or stops breathing under anesthesia, early, high quality CPR can be the difference between life and death. This lecture will explain how to identify cardiopulmonary arrest, and how to administer basic CPR to keep an animal alive while veterinary assistance is sought.
9:45am – 10:45am RACE APPROVED	Zoonosis	Andrew Newmark, DVM	The lecture will focus on zoonotic (contagious between animals and people) diseases that one might encounter in shelters in our region. We will discuss the signs and symptoms the animals might present with as well as the potential risk to staff and adopters and the shelter's reputation. The discussion will also include steps to minimize the risk of spreading these infections to other staff and animals.
11:00am – 12:00pm RACE APPROVED	Rabbits in Shelters: The Good, the Bad and the Hairballs	James Morrissey, DVM	This lecture will discuss the care and maintenance of rabbits for shelter workers and veterinarians. Intake examination and screening, as well as common pitfalls and how to prevent or overcome these problems will be discussed.
12:00pm – 1:00pm	Lunch	Lunch	Lunch
1:00pm – 2:00pm RACE APPROVED	What's bugging your shelter lately? An overview and current recommendations for common parasites	Holly Putnam, DVM	Parasites continue to impact the health of both individual shelter animals and the shelter environment. It can certainly be confusing to determine when to test and what treatment to choose. This lecture will review common parasites found in shelter animals and current management recommendations.
2:10pm – 3:10pm RACE APPROVED	They ate what?! Shelter edition	Tiva Hoshizaki, DVM	This lecture will focus on foreign body ingestion, both in terms of risks and outcomes and in terms of choosing appropriate enrichment items for dogs and cats.