Appendix B: Credentials, experience, and expertise of the AVMA committee members

The credentials detailed here for the committee members of the two working groups that were most likely directly involved in the discussion and decision on thoracic compression were compiled from public sources (via internet search) with the exception of the information for Barry Hartup, who was kind enough to provide his *Curriculum vitae*. We have attempted to be as thorough and inclusive as possible as it was our intent to determine which, if any, of the committee members had relevant experience or expertise. It is possible that one or more of the committee members have relevant experience or expertise that we were unable to identify. We have not deliberately omitted information that might suggest experience with thoracic compression or work with small birds.

Though the committee members have outstanding credentials in a general sense, it appears that only Joanne Paul-Murphy, Laurel Degernes, Barry Hartup, and Cheryl Greenacre have worked with birds on a regular basis. Dr. Hartup has worked with birds small enough for the use of thoracic compression as a means of euthanasia but the publications in his *Curriculum vitae* do not report the use of thoracic compression in those studies. One study – of a single American Robin – entailed euthanasia, but that occurred in a clinical setting, where other means of euthanasia should have been readily available. It is unlikely that thoracic compression was used. It appears that Dr. Degernes has worked only with birds that are far too large for use of thoracic compression as a means of euthanasia. Drs. Paul-Murphy and Greenacre have worked with psittacines, some of which are small enough for use of thoracic compression as a means of euthanasia, but the literature we were able to find suggests that they have not worked with birds in the wild and thus would have had no reason to use thoracic compression.

The names of the members of the committee and the working groups were not revealed until the time of publication and, to the best of our knowledge, the *Curricula vitae* of these individuals have not been made public by the AVMA, it seems unlikely that OLAW could have ascertained that the committee members had the requisite credentials and experience expertise. The latter attribute is particularly important when making decisions for which there is little or no published data as, in the absence of experience and expertise, the decision could be based only on personal opinion.

**Zoo/Wildlife/Reptiles Working Group**

**Dr. Dave Miller, Chair**

We have not been able to find a *Curriculum vitae* for Dr. Miller. He is certified as a wildlife biologist by The Wildlife Society. According to the Wildlife Society, “A professional wildlife biologist is a person with the educational background and demonstrated expertise in the art and science of applying the principles of ecology to the conservation and management of wildlife and its habitats. An applicant for professional certification who demonstrates this expertise through education and experience, and is judged to be able to represent the profession as an ethical practitioner, will be designated as a Certified Wildlife Biologist (CWB).” An internet search revealed that Dr. Miller has experience with exotic animals in the captive (zoo) setting.
The publications we were able to locate (below) evidence some field experience, although very little with birds and none with birds of the size for which thoracic compression is appropriate.


Scott B. Citino, DVM

http://vet.osu.edu/Curriculum_vitaem/scott-b-citino-dvm

Scott B. Citino graduated summa cum laude from The Ohio State University College of Veterinary Medicine in 1983 and went on to complete an internship in zoological medicine at the National Zoological Park in Washington, D.C. in 1984. After his internship, Dr. Citino served as staff veterinarian and head of the Department of Veterinary Sciences at the Miami Metrozoo in Florida. In 1990 Dr. Citino returned to the National Zoological Park as an associate veterinarian and hospital administrator. He became a diplomate of the American College of Zoological Medicine in 1991. Since 1993 he has held the position of staff veterinarian at the White Oak Conservation Center in Yulee, Florida. As part of his many responsibilities there he also serves as a clinical associate professor for the zoological program at the University of Florida, mentoring residents at the Conservation Center. In addition, he holds an adjunct clinical faculty position at the University of Miami College of Medicine’s Department of Comparative Pathology.

Dr. Citino has a remarkable record of scientific inquiry and publication. His research interests include anesthesia, infectious and non-infectious disease, and reproductive physiology of captive and free-ranging wildlife. His Curriculum vitae features over 50 refereed reports and an additional 65 publications on a variety of zoological and wildlife topics. Dr. Citino is an active contributor to his discipline, having served a number of leadership roles in the American College of Zoological Medicine and the American Association of Zoo Veterinarians as secretary, vice-president, and president. He is a reviewer for and associate editor of the Journal of Zoological and Wildlife Medicine. He serves on a number of scientific advisory boards including the International Rhino Foundation, the International Wildlife Institute, and the Morris Animal Foundation. In addition, Dr. Citino is the veterinary advisor for the Okapi and Cheetah Species Survival Plans.

Dr. Citino's exceptional career in zoological medicine was recognized in 2007 when he received the American Association of Zoo Veterinarian's Emil P. Dolensek Award for his exceptional contributions to the conservation, care, and understanding of zoo and free-ranging wildlife.

*We have found no indication that Dr. Citino has worked with small birds or has used thoracic compression as a means of euthanasia.*

Publications


Mark Drew, DVM, Diplomat ACZM

Mark L. Drew, DVM, is a wildlife veterinarian who has been employed by the Idaho Department of Fish and Game since 1999. From 1993 to 1999, Dr. Drew was an associate professor at Texas A & M University. He obtained his veterinary degree in 1987 from the University of Minnesota and earned an MSc. in zoology and animal biology in 1984 from the University of Alberta. We have been unable to locate a Curriculum vitae for Dr. Drew. We have located the following publications, none of which evidence experience in field ornithology or the use of thoracic compression as a means of euthanasia:


Julie [sic] Goldstein

Note: It would appear that Dr. Goldstein’s name was misspelled in the AVMA Guidelines. It appears that her name is spelled Juli Goldstein.

Dr. Goldstein is an Assistant Research Professor at Florida Atlantic University. She has been actively involved in the marine mammal field for the last 7 years. She has completed extensive training courses and veterinary externships that focused exclusively on the husbandry, care, assessment, and medical treatment of stranded and captive marine mammals. She is a graduate and now serves as an instructor for the MARVET veterinary training program. In addition she has trained at many marine facilities including the Marine Mammal Center in Sausalito, California, Dolphin Quest Hawaii and Oahu, as well as the Shedd Aquarium in Chicago, Illinois. She has been an active member of the Harbor Branch's Marine Mammal Research and Conservation group since 2003 and serves as an on-call veterinarian for the National Marine Fisheries (NMFS) Southeast Stranding Network. Dr. Goldstein has also provided specialized veterinary services for the last 5 years of the Indian River Lagoon Live Dolphin Health and Risk Assessment Project, and has published in several peer-reviewed journals on research data related to the health of marine mammals. She currently serves as the on-site clinical veterinarian, Assistant Research Professor, and attending clinical veterinarian for the HBOI/FAU Institutional Animal Care and Use Committee. Her research interests are Clinical marine mammal and aquatic medicine, cardiomyopathy in pygmy and dwarf sperm Whales, and aquatic animal diagnostic ultrasound.
Dr. Barry Hartup

Dr. Hartup is the Director of Veterinary Services at the International Crane Foundation and a clinical instructor in exotic animal medicine and surgery at the School of Veterinary Medicine at the University of Wisconsin-Madison. He joined the International Crane Foundation (ICF) in 2000, but his experience with ICF started in 1986 as an aviculture intern prior to becoming a veterinarian. Working at ICF has helped to fulfill his professional interests in veterinary medicine, animal population health and epidemiology, and conservation of endangered species. Dr. Hartup has a M.S. degree in Conservation Biology and a Doctor of Veterinary Medicine degree from the University of Wisconsin-Madison, and a Ph.D. in Wildlife Health from Cornell University.

Dr. Hartup was kind enough to provide a copy of his Curriculum vitae, which is excerpted here:

Doctor of Philosophy, Cornell University 2000, Wildlife Diseases and Epidemiology
Doctor of Veterinary Medicine, University of Wisconsin-Madison 1993
Master of Science, University of Wisconsin-Madison 1989, Conservation Biology
Bachelor of Science, University of Wisconsin-Madison 1985, Zoology

Work Experience

2000-Present  Director of Veterinary Services, International Crane Foundation, Baraboo, WI & Clinical Instructor, Department of Surgical Sciences, School of Veterinary Medicine, University of Wisconsin, Madison, WI.


1993-96  Staff Veterinarian, Willowbrook Wildlife Center, Forest Preserve District of DuPage County, IL

1991  Veterinary Research Fellow, Willowbrook Wildlife Foundation, Glen Ellyn, IL

1984-92  Research Assistant, Harlow Primate Laboratory, University of Wisconsin, Madison, WI

Teaching Experience

2000-Present  Lecturer, University of Wisconsin, Madison, WI. Courses: Diseases of Wildlife; Exotic Animal Restraint & Anesthesia; Special Species Health; Wildlife Management Techniques; Mentor, Zoological Medicine Residency program, University of Wisconsin, Madison, WI & Veterinary Preceptor program, International Crane Foundation, Baraboo, WI.


1993-96  Mentor, Veterinary Preceptor and Veterinary Technician Fellowship programs,
Graduate Teaching Assistant, University of Wisconsin, Madison, WI.
Courses: Organismal Biology; Introductory Biology; The Environment: Social Perspectives.

Publications


Dr. Gregory Lewbart

According to Dr. Lewbart’s website:

I am a veterinarian and professor of aquatic animal medicine at the North Carolina State University College of Veterinary Medicine (NCSU-Curriculum vitaeM) where I have taught since 1993. I graduated from Gettysburg College in 1981 with a B.A. in biology, received an M.S. in biology with a concentration in marine biology from Northeastern University in 1985, and graduated from the University of Pennsylvania School of Veterinary Medicine in 1988. I worked for a large importer and wholesaler of tropical fishes for over 4 years before joining the faculty at the NCSU-Curriculum vitaeM. I'm a diplomate of the American College of Zoological Medicine and was named "2007 Exotic DVM of the Year" by the Zoological Medicine Network/ Exotic DVM Magazine.

I'm an author on over 100 popular and scientific articles about invertebrates, fishes, amphibians and reptiles and speak nationally and internationally on these subjects. I have also authored or co-authored 20-plus book chapters on aquatic animal diseases and treatment and have edited or co-edited four veterinary books: Self Assessment Colour Review of Ornamental Fish (Manson Publishing and ISU Press, 1998); Invertebrate Medicine (Blackwell Publishing, 2006; 2012); Rapid Review of Exotic Animal Medicine and Husbandry(Manson Publishing, 2008).

I've written two novels, Ivory Hunters (1996) and Pavilion Key (2000), Krieger Publishing, Malabar, Florida. Both stories are scientific mysteries that raise important issues about wildlife conservation and man’s exploitation of the environment. I had the opportunity to explore southwestern Florida, where my novels are set, while living and working in Naples for several years. My wife Diane Deresienski (also a veterinarian) and I live in downtown Raleigh with our assorted pets.
Dr. Douglas Mader, MS, DVM, DIPLOMATE, ABVP (CA)

We were unable to find any publications or other information to suggest that Dr. Mader has experience in field biology, has worked with birds except in the context of a small animal practice that sees pet birds, or in the use of thoracic compression.

According to his website, Dr. Mader has special interests in:
Internal Medicine
Endoscopy, Ultrasound
Soft Tissue, Orthopedic and Laser Surgery
Exotic Animal Medicine
Wildlife

Dr. Mader received a Master’s degree in Animal Behavior in 1982 and Doctor of Veterinary Medicine degree from the University of California, Davis in 1986. After graduation, Dr. Mader completed a residency in Primate and Zoo animal medicine. During his veterinary and residency training, Dr. Mader’s areas of special interest were in the pharmacology of antibiotics in exotic pets. While living in Southern California, he owned a small animal/exotic practice for nine years.

Dr. Mader is the consulting veterinarian for the Key West Aquarium, the Marathon Sea Turtle Hospital, The Key West Butterfly Conservancy, the Theater of the Sea and the Monroe County (Sheriff Animal Farm) Zoo. Dr. Mader is an internationally acclaimed expert in Exotic Animal Medicine and travels over 50,000 miles every year teaching at Veterinary Conferences, Veterinary Schools and Specialty courses. Dr. Mader is also on the review/advisory boards for several scientific journals. He has published hundreds articles in scientific and veterinary journals, national magazines, newspapers, book chapters and is the author/editor of the Saunder’s publication Reptile Medicine and Surgery. Dr. Mader is a Fellow in the Royal Society of Medicine. Currently, Dr. Mader is the Immediate Past-President of the prestigious North American Veterinary Conference, the world’s largest veterinary continuing education conference.
Dr. Patrick J. Morris, DVM, Dipl. ACZM

Dr. Morris is the director of veterinary services at the San Diego Zoo. As such, he no doubt has experience with a very wide range of wildlife in captivity. We have been unable to find his Curriculum vitae and so have no direct information to suggest that he has had experience in field biology or with thoracic compression.

A search for publications reveals no research to small birds, euthanasia of small birds, or thoracic compression.


Dr. Cheryl Greenacre, Chair

http://www.vet.utk.edu/faculty/greenacre.php

Dr. Greenacre’s credentials evidence no experience working in field conditions and no research into or experience with thoracic compression.

Associate Professor of Avian & Zoological Medicine
Department of Small Animal Clinical Sciences
College of Veterinary Medicine
The University of Tennessee

Education
DVM - University of Georgia, 1991
Avian and Zoological Internship and Residency - UGA
Microsurgical Training and Certification - Emory University, Atlanta

Board Certification
American Board of Veterinary Practitioners - Avian Practice Specialty

Clinical Interests
microsurgery, neoplasia, infectious diseases

Research Interests
Avian thyroid diseases and testing
Rabbit Encephalitozoon cuniculi infections and treatment

Professional Societies
Association of Avian Veterinarians (Veterinary School Liaison)
American Association of Reptilian and Amphibian Veterinarians
American Veterinary Medical Association
Georgia and California Veterinary Medical Associations
American Board of Veterinary Practitioners
Society of Microsurgical Specialists
American Association of Veterinary Clinicians
Phi Zeta
Publications


Dr. Laurel Degernes, DVM, MPH, Dipl. ABVP

Dr. Degernes has worked with wild birds but apparently only raptors, waterfowl, and seabirds—all too large for which thoracic compression would be appropriate. She has also worked in field conditions, but apparently only at a stationary field site where the logistics were organized and supported by a large federal agency effort. The field site had large weatherports to serve as surgical suites and had solar energy. One of her papers describes this situation in some detail and goes on to say, “I vividly recall a conversation that I had with Dan concerning veterinarians working with wildlife biologists, and how there have been strained relationships in the past when egos got in the way of the 2 groups working together as a united team. Basically, the clear message was that each group has important contributions to bring to a project, none of which are more or less important to the overall success. In other words, veterinarians and biologists each have their areas of expertise, and veterinarians should not presume that they know more than biologists about a particular species.” It appears that Dr. Degernes has no experience with the more common conditions of remote field work, has not worked with small birds in such conditions, and has apparently had no reason to use thoracic compression as a means of euthanasia.

Education
DVM, University of Minnesota, 1981
MPH in Epidemiology, University of North Carolina, Chapel Hill, 2005

Specialty
Companion and wild avian medicine, surgery, and epidemiology.

Professional Experience & Qualifications
Diplomate, American Board of Veterinary Practitioners, Avian Practice 1993, recertified 2002
Associate Professor, Dept. of Clinical Sciences, Curriculum vitaeM-NCSU, 1999-present
Assistant Professor, Dept. of Clinical Sciences, Curriculum vitaeM-NCSU, 1992-1999
Residency, Exotic and Wild Avian Medicine, North Carolina State University, 1990-1992
Staff Veterinarian, The Raptor Center, University of Minnesota, 1986-1990
Internship, Raptor Medicine and Surgery, The Raptor Center, University of Minnesota, 1985-86
Private practice in Minnesota 1981-85

Research Area
My research interests include epidemiologic investigation of companion and wild avian diseases and clinical research in avian critical care management and surgery.

Selected Publications


Laurie Hess, DVM

We have been unable to find a Curriculum vitae for Dr. Hess, but the narrative description of her education and experience are such that it appears that she is a practitioner specializing in the care of pets. It would appear that she has no experience working with wild birds in field conditions and has had no occasion to use thoracic compression as a means of euthanasia.

http://www.lauriehessdvm.com/about-dr-hess/

Dr. Hess is board-certified by the American Board of Veterinary Practitioners in avian (bird) practice. She served as the President of the Association of Avian Veterinarians from 2009-2010 and treasurer from 2012-2013. She is also an active member of the Association of Exotic Mammal Veterinarians and the Association of Reptilian and Amphibian Veterinarians. After graduating summa cum laude, Phi Beta Kappa from Yale University, Dr. Hess received her veterinary medical degree from Tufts. She then completed a one-year internship and a two-year residency in avian and exotic pet medicine and surgery at the world-renowned Animal Medical Center in New York City. At the Animal Medical Center, she was a staff member on the Avian & Exotic Pet Service for more than a decade and ultimately served as head of this service.

Dr. Hess has lectured both nationally and internationally about exotic pet care and has published numerous articles and book chapters on birds and other exotic species. She is especially interested in exotic pet nutrition. In the late 1990’s, she completed groundbreaking nutrition research on the importance of pelleted diets in birds. She presented these findings both in Europe and in the U.S. and later published the research in 2002.

Dr. Hess has been a guest exotic pet expert on Animal Planet’s exotic pet series “Little Pets 101” and “Peculiar Pets 101.” She has also appeared on Animal Planet in Drs. Foster and Smith’s TV series, “Faithful Friends,” and has been a guest on the “Martha Stewart Show” discussing the importance of educating yourself about exotic pets before you get one. Dr. Hess has also appeared on CBS TV’s morning show, “The Doctors,” where she discussed exotic pets for people with allergies, as well as on Fox TV’s “Inside Edition,” where she talked about bird behavior. In addition, Dr. Hess has been a guest on “Pet Keeping with Marc Morrone,” the WPIX Morning News in New York City, and FOX TV’s morning show, “Good Day NY,” where she highlighted the benefits of exotic animals as pets. Dr. Hess has been a featured veterinarian on the popular CBS TV news magazine show, “48 Hours,” and she appeared weekly for several years as the “Exotic Pet Vet” on the New York/New Jersey/Connecticut cable station, Regional News Network (RNN) TV. Dr. Hess currently talks about bird health on her monthly radio show, “Bird’s Eye View,” on www.petliferadio.com and makes guest appearances regularly on radio stations throughout the U.S. and Canada discussing exotic pet issues.

Dr. Hess has written several articles about exotic pets in syndicated columns nationwide and in well-known exotic pet magazines such as Bird Talk, Birds USA, and Critters Magazine. She also blogs regularly about exotic pet topics on well-known pet websites, including www.birdchannel.com, and www.petconnection.com. She is a senior editor of the Journal of Avian Medicine and Surgery, as well as a guest editor of the Journal of Exotic Pet Medicine, Veterinary Clinics of North America (Exotic Animal Series) and Exotic DVM Magazine. She also has been published in internationally recognized veterinary journals including the Journal of
the American Veterinary Medical Association and Veterinary Record. In 2010, Dr. Hess founded the Veterinary Center for Birds & Exotics (www.avianexoticsvet.com) in Bedford Hills, NY, where she treats only birds and other exotic pets such as ferrets, rabbits, guinea pigs, chinchillas, small rodents, reptiles, amphibians, and less commonly seen exotic species, including sugar gliders, hedgehogs, pot-bellied pigs, wallabies, kinkajous, and fennec foxes (no cats or dogs). The Veterinary Center is the only Animal Hospital Association of America-accredited bird and exotic specialty hospital in NY and only 1 of 3 in the U.S. At the Veterinary Center, Dr. Hess provides full medical, surgical, and dental care for exotic pets, as well as boarding and nutritional and behavioral counseling, in a specialized hospital that is as unique as the species she treats.
Dr. Kemba Marshall

We have been unable to locate a Curriculum vitae for Dr. Marshall. It appears that she is an advisor to the PetSmart retail pet store chain, which states on its website that “For questions on birds or small pets, Dr. Kemba is our expert. She’s board certified in avian medicine and also oversees care for the small pets we sell including hamsters, gerbils and guinea pigs. Besides being our expert on all things that fly or burrow, Dr Kemba is a pet parent to a variety of fish.”

We have found no evidence that Dr. Marshall has experience with wild birds in a field setting or with thoracic compression.

publications
James Morrisey, DVM

We could find no evidence that Dr. Morrisey has experience working with wild birds in the field setting or that he has experience with or has conducted research into thoracic compression.

http://www.vet.cornell.edu/faculty/Morrisey/

Education and Training
New York State College of Veterinary Medicine, Cornell University, Ithaca, NY DVM, 1992
Internship, Kansas State University, Manhattan, KS, 1994-95
Residency, Animal Medical Center, New York, NY, 1995-97
Board Certification
American Board of Veterinary Practitioners (Avian Practice)

Research/Clinical Interests
Avian Transfusion Medicine
Coagulation Parameters
Infectious Diseases of Rabbits

Selected Publications


**Morrisey, J. K.** Appendix I: Differential diagnoses based on clinical signs. In: Ferrets, Rabbits,


Joanne Paul-Murphy, Diplomat, ACZM and Diplomat, ACAW

Professor
Medicine & Epidemiology
UC Davis School of Veterinary Medicine

Dr. Paul-Murphy received her veterinary degree from Cornell University in 1982, she completed a residency in Zoological Medicine at University of California, Davis and became board certified in zoological medicine. She was Chief of Service at UC Davis from 1985-1987, then became Director of Veterinary Services at the California Primate Research Center until 1991. She was responsible for starting the first Zoological Medicine Service at the University of Wisconsin School of Veterinary Medicine and was the Chief of Service at UW from 1992-2008. She returned to UC Davis in 2008 as a Professor in the Companion Avian and Exotic Pet Medicine Program. Dr. Paul-Murphy has experience in medicine and surgery with zoological collections and companion exotic animals, wildlife rehabilitation and conservation medicine. She has a special interest in imaging techniques and analgesia of birds, reptiles, fish and exotic small mammals.

Representative publications (these comprise probably no more than two-thirds of Dr. Paul-Murphy’s publications)


Geelen S., Sanchez-Migallon Guzman, D., Souza, M.J., Cox, S., Paul-Murphy, J. 2010. The antinociceptive effect of intravenous tramadol in Hispaniolan Amazon parrots (Amazona
ventralis) using withdrawal from a noxious thermal stimulus Merck-Merial NIH National Veterinary Scholars Symposium.


Matheson JS, Paul-Murphy J, O'Brien RT, Steinberg H. 2007. Quantitative ultrasound, magnetic resonance imaging, and histologic image analysis of hepatic iron accumulation in


