

Annual Conference and Expo of the Association of Avian Veterinarians (AAV 2025)

Phoenix, Arizona, USA
3-6 October 2025

ISBN: 979-8-3313-2911-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2025) by Association of Avian Veterinarians
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact Association of Avian Veterinarians
at the address below.

Association of Avian Veterinarians
PO Box 9
Teaneck, NJ 07666
USA

Phone: 720-458-4111
Fax: 720-398-3496

office@aav.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

Section 1: Friday Fundamentals Session

Setting the Stage for Success: Educating Parrot Owners During the First Veterinary Visit (Session #107).....	10
Building Confidence in Avian Examinations: A Guide for New Practitioners (Session #108)	14
How to Prevent Behavior and Welfare Problems in Parrots: 40 Years and Counting (Session #113)	21
Ten Tips for Poultry in Ten Minutes (Session #144)	31
Physicality of the Psittacine Digestive Tract (Session #137).....	34
Three-Dimensional Digital Anatomy of the Avian Lower Respiratory System: Structural Diversity and the Impact on Diagnosis, Obesity, Disease, and Surgical Planning (Session #172).....	38
Preventing Common Causes of Respiratory Problems in Parrots (Session #152).....	40
Contrafreeloading in Parrots: Applying Cognitive Abilities in Daily Practice (Session #138).....	46

Section 2: Plenary Session

Avian Influenza H5N1: A Zoonotic Threat in the One Health Era (Session #101)	48
A Retrospective Study of Disease in Passerine Birds: 6300 Cases (Session #154).....	55
Comparison of Protein Electrophoresis in Non-Laying and Laying Domestic Chickens (<i>Gallus gallus domesticus</i>) (Session #131)	56
Pharmacokinetics of Maropitant Citrate After Intravenous and Subcutaneous Administration in Orange-Winged Amazon Parrots (<i>Amazona amazonica</i>) (Session #157).....	57
Use of ¹⁸ F-Sodium Fluoride Positron Emission Tomography for the Diagnosis of Atherosclerosis in Amazon Parrots (<i>Amazona</i> spp.) (Session #118).....	59
Effect of 4.7-mg Deslorelin Acetate Implant on Blood Lipids and Steroid Hormones in Cockatiels (Session #119)	60
Use of Glimepiride for Regulation of Diabetes Mellitus in a Cockatiel (<i>Nymphicus hollandicus</i>) (Session #188).....	61
Thermal Antinociceptive Effects After Oral Administration of a Cannabidiol and Cannabidiolic Acid-Rich Hemp Extract in Orange-Winged Amazon Parrots (<i>Amazona amazonica</i>) (Session #122)	62

Section 3: Wildlife Session I

Legal Responsibilities of Veterinarians for Wild Birds in the United States (Session #115)	65
Clinical Lead Toxicosis in Raptors (Session #140)	75
Goothanasia: Evaluating the Use of Cloacal Transmucosal Pentobarbital Administration for Euthanasia of Canada Geese (Session #171).....	80
Long-Term Medical Care of the Raptor Ambassador (Session #141).....	81
Reflecting on the Pathology of Bird-Window Collisions (Session #199)	85

Section 4: Cardiology and Coelomic Cavity Session

Update on Avian Atherosclerosis (Session #120)	87
Serum Lipid Reference Intervals of High-Density, Low-Density and Non-High-Density Lipoprotein Cholesterols and Their Association with Atherosclerosis and Other Factors in Psittaciformes (Session #177)	97
Characterization and Reference Intervals for Plasma Lipids and Lipoproteins in Cockatiels (<i>Nymphicus hollandicus</i>) (Session #212)	99
Effects of Atorvastatin on Blood Lipids in Cockatiels (<i>Nymphicus hollandicus</i>) (Session #162)	100
Atherosclerosis, Aortic Stenosis, and Myxomatous Valvular Degeneration of the Aortic Valve in a Male Eclectus Parrot (<i>Eclectus roratus</i>) (Session #160)	101
Radiographic Morphometric Correlation of the Heart and Adjacent Structures in Potoo (<i>Nyctibius griseus</i>) (Session #135)	102
Anatomy, Form, and Function of the Coelomic Cavities of Birds and Their Interactions with the Respiratory System (Session #168)	103

Section 5: Technician Session

Overcoming Fear and Building Confidence in Avian Handling: Training Strategies for Veterinary Teams (Session #170)	117
Avian Trauma Triage: Comprehensive Assessment and Stabilization in Emergency Scenarios (Session #187)	123
Avian Behavior and Reproductive Health in Psittacine Birds: Clinical Insights for Veterinary Technicians (Session #224)	130
How to Place an Intraosseous Catheter: Anatomy, Technique and Tips (Session #223)	136
How Parrots Eat and How It Impacts Their Care (Session #150)	142

Section 6: Wildlife Session II

Fracture Management in Pediatric Raptors (Session #139)	152
Use of Readily Available Materials to Provide Tensile Force for Repair of Bilateral Leg Fractures in a Peregrine Falcon (Session #153)	156
Therapeutic Botulinum Toxin Type A in an American Barn Owl (<i>Tyto furcata</i>) with Propatagial Tendon Contracture (Session #190)	157
Successful Outcomes Following Conservative Management of Complicated Bilateral Radius and Ulna Fractures in Rock Pigeons (<i>Columba livia</i>) (Session #191) <i>2025 House Officer Manuscript Competition Winner</i>	158
Range of Motion Measurement in the Thoracic Limbs of Raptors at a Wildlife Rehabilitation Center in Chile (Session #146)	159
Survival of a Wedge-Tailed Eagle After Hallux Talon Amputation: Case Report (Session #215)	160
Seasonal Facial Dermatitis in Captive Arizona Harris's Hawks and Treatment Responses: A Case Series (Session #136)	161

Trombiculosis in Two Strigidae Species from Arizona: Mite We Be Missing Them? (Session #127)	162
Bilateral Elbow Synovial Chondromatosis in a Great Horned Owl (<i>Bubo virginianus</i>) (Session #111)	163
Definition of Intraocular Pressure Values in Raptors at a Native Wildlife Rehabilitation Center in Chile (Session #149).....	165
Bird Strike: Causal Background, Prevention and Therapeutic Approaches to the Treatment of Intraocular Hemorrhage (Session #204)	167
Adequate Hunting Performance Despite Unilateral Evisceration in a Harris's Hawk (<i>Parabuteo unicinctus</i>) with Bilateral Anterior Uveitis and Unilateral Secondary Glaucoma (Session #189).....	169
Determination of Reference Intervals for Plasma Bile Acids in Bald Eagles (<i>Haliaeetus leucocephalus</i>) (Session #217)	170

Section 7: Computed Tomography, Avian Bornavirus, and Reproductive Topics Session

Computed Tomography Imaging in Birds: Clinical Applications (Session #176).....	172
Avian Cervical Spinal Diseases: A Review of Computed Tomography Findings, 2017-2025 (Session #192).....	176
Avian Notarial, or Thoracic, Spinal Diseases: A Review of Computed Tomography Findings, 2017-2025 (Session #194).....	177
Avian Synsacral Spinal Diseases: A Review of Computed Tomography Findings, 2017-2025 (Session #195).....	178
Avian Caudal Vertebral Spinal Diseases: A Review of Computed Tomography Findings, 2017-2025 (Session #197).....	179
Frantic Mutilative Behavior Associated with Avian Ganglioneuritis in a Young Blue and Gold Macaw (Session #161).....	180
Establishment of the Intranasal Transmission Pathway to Advance Avian Bornavirus Experimental Research (Session #185).....	181
Establishing the Pharmacokinetics of an Oral Dose of Robenacoxib in Hispaniolan Amazon Parrots (<i>Amazona ventralis</i>) (Session #169).....	183
Resolution of Egg Binding is Possible in Most Client-Owned Parrots When Multiple Treatment Strategies Are Considered (Session #167).....	185
Yolk Embolism in Birds: A Retrospective Review of Twenty-Four Cases (Session #110).....	187
Radiation Therapy and Orchidectomy in Two Pekin Ducks (<i>Anas platyrhynchos</i> <i>domesticus</i>) with Testicular Tumors (Session #158).....	188

Section 8: Analgesia and Anesthesia Session

Advances in Pain Recognition, Assessment and Treatment of Pain in Birds (Session #121)	190
Ex-Vivo Pharmacologic Characterization of Grapiprant and a Multi-Dose Pharmacokinetic Study in Red-Tailed Hawks (<i>Buteo jamaicensis</i>) (Session #183)	204
Pharmacokinetics of an Extended-Release Liposomal Formulation of Buprenorphine in Hispaniolan Amazon Parrots (<i>Amazona ventralis</i>) and Its Effects on Body Temperature After a Single Subcutaneous Administration (Session #173)	205
Pharmacologic Assessment of Intravenous versus Intramuscular Medetomidine-Zoletil Protocols for Precision Immobilization in Ostriches (<i>Struthio camelus</i>) (Session #165)	207
Acupuncture and Holistic Treatment Modalities in Birds (Session #159)	210
Successful Treatment of Wing Sarcoma Using Combined Surgical Excision and Strontium in a European Starling (Session #208)	215

Section 9: Species-Specific and Potpourri I Session

Essential Pigeon Medicine (Session #124)	217
Care and Diseases of Starlings and Mynas of the Family Sturnidae (Session #156)	221
Vulture Culture: The Current Status of Avian Scavengers Worldwide and Threats to Their Survival (Session #211)	229
Pharmacokinetics of Amoxicillin in Domestic Chickens after Multiple-Day Oral Dosing and Comparing Three Formulations (Session #184)	235
Welfare Concerns with Backyard Poultry (Session #123)	236
When Feather Picking is Not Feather Picking (Session #145)	241
What is the International Union for the Conservation of Nature's Species Survival Commission Wild Parrot Specialist Group and Why Should an Avian Veterinarian Care? (Session #125)	244
A Photographic Image Says More Than a Thousand Words: Specific Instrumentation and Techniques in Exotic Animal Ophthalmic Photography (Session #206)	251
Identifying the Normal Nasochoanal Microbiome of Cockatiels (<i>Nymphicus hollandicus</i>) Utilizing Next-Generation Genomic Sequencing (Session #105)	252

Section 10: Management, Business, and Potpourri II Session

Recession Proof Your Small Animal or Avian Practice: For Owners and Associates (Session #147)	255
Management of Inadequate Molt in Two Grey-Backed Thrushes (<i>Turdus hortulorum</i>) with Photoperiod Modification (Session #198)	261
Biomarkers of Inflammation and Novel Antibody Testing to Aid in the Diagnosis of Aspergillosis (Session #193)	262
Investigating Acute Phase Protein Seasonal Variance in Backyard Chickens (Session #133)	263
Cerebellar Hypoplasia in a Port Lincoln Parrot (<i>Barnardius zonarius zonarius</i>) (Session #210)	264

Diagnosis and Treatment of Hemochromatosis Associated with Elevated Iron Levels in Drinking Water in a Toco Toucan (<i>Rhamphastos toco</i>) (Session #163).....	268
Histologic Improvement of Iron Storage Disease in the Liver of a 32-Year-Old Congo African Grey Parrot (<i>Psittacus erithacus</i>) (Session #132).....	269
Avian Stem Cell Therapy Program and Case Report at the Kansas City Zoo & Aquarium (Session #164)	270
Ack! Asper Attacks! Diagnosis and Treatment of Tracheal Aspergillosis in a Juvenile Bald Eagle (<i>Haliaeetus leucocephalus</i>) (Session #216).....	271

Section 11: Wildlife and Then Some Session

Keeping an Eye on Rehabilitating Raptors (Session #128).....	278
Selecting an Appropriate Raptor for Permanent Placement (Session #142).....	290
Falconry in the United States: An Introduction to the Sport for the Avian Practitioner (Session #143)	294
The Science of Compassion and Its Application to Veterinary Medicine (Session #209).....	301

Section 12: Masterclass Session I

Choose Right, Choose Flight (Session #218)	305
Avian Cardiopulmonary-Cerebral Resuscitation: What We Know and Don't Know (Session #155)	315

Section 13: Masterclass Session II

Why Does Everything Look Like a Purple Blob? Tips For Choosing and Using Cytology in Avian Practice (Session #102).....	329
Gross Lesion Recognition for the Avian Clinician (Session #109)	341

A Message from Our 2025 Proceedings Sponsor

Avian & Exotic Animal Clin Path Labs	348
--	---------------------