**Small Animal**

**Anesthesia**

Sheilah Robertson, BVMS (Hons), PhD, DACVA, DECVA, CVA, MRCVS

Preventing and treating acute pain in cats……………………………………………………………… 1

Using NSAIDs in cats …………………………………………………………………………………………….. 4

How safe is anesthesia? ………………………………………………………………………………………… 7

Recognizing acute pain in cats and dogs ………………………………………………………………… 10

Anesthesia for cats – Why are they different? ………………………………………………………… 15

“The Big Chill” – Why hypothermia is bad and what to do about it …………………………. 18

Anesthesia for the young and the old …………………………………………………………………….. 20

Anesthesia for C-sections ……………………………………………………………………………………… 23

Neonatal resuscitation ………………………………………………………………………………………….. 26

Anesthesia and analgesia for the orthopedic patient ………………………………………………. 29

Ann B. Weil, MS, DVM, DACVA

Neonatal resuscitation ………………………………………………………………………………………….. 32

”Situation Normal” and the new monitoring guidelines ………………………………………….. 34

Postoperative blindness in cats ……………………………………………………………………………… 37

Anesthesia and respiratory complications ……………………………………………………………… 38

Anesthesia and patients with cardiac disease …………………………………………………………. 40

Perioperative use of dexmedetomidine ………………………………………………………………….. 42

**Behavior**

John Ciribassi, DVM, DACVB

Canine body language …………………………………………………………………………………………….. 43

Dermatology and behavior ……………………………………………………………………………………… 44

Drug therapy in behavior (Case-based discussion) ………………………………………………….. 46

Fear aggression in dogs …………………………………………………………………………………………… 49

Resource guarding in dogs ………………………………………………………………………………………. 52

Selected case studies in behavior …………………………………………………………………………….. 54

Stress and anxiety …………………………………………………………………………………………………… No Paper Submitted

Compulsive disorders ……………………………………………………………………………………………… 57

Dominance hierarchy in dogs: An intrasspecific concept ……………………………………………. 60

Sharon Crowell-Davis, DVM, PhD, DACVB

The complete cat: Social organization, communication, prevention, and treatment of intercat aggression …………………. No Paper Submitted

But I thought your ankle was a mouse: Human-directed aggression in the cats ………………………………………………………… 62

It was a dark and stinky litterbox: Elimination behavior problems in the cat ……………………………………………………………. 65

Zounds!!!: Treating storm phobia ……………………………………………………………………………………………………………………………. 69

Benzodiazepines to treat behavior problems: Pros and cons …………………………………………………………………………………….. 72

Serotonin reuptake inhibitors to treat behavior problems: Pros and cons …………………………………………………………………. 76

Foundations: What the heck is classical conditioning and how does it cause behavior problems? ………………………………. No Paper Submitted

Lisa Radosta, DVM, DACVB

Integrating Veterinary Behavior into primary care practice ……………………………………….. 80

Simple techniques for treating Separation Anxiety in primary care practice ……………….. 82

What's new and great in behavior …………………………………………………………………………….. 84

Puppy and kitten preventative medicine …………………………………………………………………… 86

Behavior Pearls ………………………………………………………………………………………………………... 90

Identifying and treating serious puppy behavior problems ………………………………………… 92

When to treat and when to refer? Triage of veterinary behavior cases ………………………… 96

Psychopharmacology ……………………………………………………………………………………………….... 99

**Canine Sports Medicine**

Randall Fitch, DVM, MS, DACVS

Tips to improve diagnosis and treatment of stifle injuries in canine athletes ………………….. 101

Improving outcomes in canine athletes with cranial cruciate disease …………………………….. 104

Common overlooked causes of hindlimb lameness in canine athletes …………………………….. 106

Diagnostic tips and rehabilitation for dogs with forelimb lameness ……………………………….. 109

Diagnostic tips and treatment options for distal limb injuries in athletic dogs ………………… 112

**Cardiology**

Henry W. Green, III, DVM, DACVIM

Managing feline arterial thromboembolism ……………………………………………………………………… No Paper Submitted

The most important test for cardiac patients!: The cardiac physical examination ………………. No Paper Submitted

Diagnosing and treating the syncopal patient …………………………………………………………………… No Paper Submitted

You're on the clock! Challenging cardiac cases (Part 1) ……………………………………………………... No Paper Submitted

You're on the clock! Challenging cardiac cases (Part 2) ……………………………………………………... No Paper Submitted

Interventional cardiology: New options you have for referral (Part 1) ……………………………….. No Paper Submitted

Interventional cardiology: New options you have for referral (Part 2) ……………………………….. No Paper Submitted

Kristin MacDonald, DVM, PhD, DACVIM

The cardiologist’s tool box ……………………………………………………………………………………………….. 115

Under pressure: Feline systemic hypertension …………………………………………………………………. 119

New perspectives on diagnosing and treating canine congestive heart failure …………………… 123

Myth busters of feline heartworm disease: The truth revealed ………………………………………….. 126

Essentials of echocardiography ……………………………………………………………………………………….. 128

Get with the beat! Analyzing and treating cardiac arrhythmias ………………………………………….. 131

**Clinical Pathology**

Alan Rebar, DVM, PhD, DACVP

Evaluating bone marrow in dogs ……………………………………………………………………………………… 134

A case-oriented approach to the CBC: White cell responses ………………………………………………. 139

A case-oriented approach to the CBC: Red cell responses ………………………………………………….. 141

Introduction to clinical laboratory profiling: Chemistry confusion …………………………………….. 144

Laboratory profiling the urinary system: A case-based approach ……………………………………….. 145

Laboratory profiling the liver: A case-based approach ……………………………………………………….. 148

Cytology for practitioners: An overview ……………………………………………………………………………. 151

**Clinical Pharmacology**

Lara K. Maxwell, DVM, PhD, DACVCP

Osteoarthritis: Do nutraceuticals work? ………………………………………………………………………………. No Paper Submitted

Osteoarthritis: Update on NSAID therapy in dogs …………………………………………………………………. No Paper Submitted

Choices and controversies of NSAIDs in cats ………………………………………………………………………… No Paper Submitted

ACE inhibitors: Not just for heart disease anymore ………………………………………………………………. No Paper Submitted

Going viral: Therapy of viral disease ……………………………………………………………………………………. No Paper Submitted

Old drugs, new tricks in the therapy of CHF …………………………………………………………………………. No Paper Submitted

Compounding: The good, the bad, and the ugly ……………………………………………………………………. No Paper Submitted

Drug toxicities/interactions: What’s “P” got to do with it? ……………………………………………………. No Paper Submitted

Insulins, hypoglycemics, and GLPs... Oh my! ………………………………………………………………………… No Paper Submitted

**Critical Care**

Amy Butler, DVM, MS, DACVECC

Respiratory distress: Making the most of your physical exam (Part 1) ………………………………….. No Paper Submitted

Respiratory distress: Making the most of your physical exam (Part 2) ………………………………….. No Paper Submitted

A practical approach to pancreatitis ……………………………………………………………………………………. No Paper Submitted

A practical approach to diabetic ketoacidosis ………………………………………………………………………. No Paper Submitted

DIC: Is there anything we can do? ………………………………………………………………………………………... No Paper Submitted

A practical approach to coagulation testing ………………………………………………………………………….. No Paper Submitted

A practical approach to transfusions: What if you don't have an in-house blood bank? …………… No Paper Submitted

A practical approach to postoperative complications …………………………………………………………….. No Paper Submitted

Ari Jutkowitz, VMD, DACVECC

IMHA: Current perspectives …………………………………………………………………………………………………… No Paper Submitted

Managing difficult urethral obstruction ………………………………………………………………………………….. No Paper Submitted

Common household toxins …………………………………………………………………………………………………….. No Paper Submitted

CPCR: Current guidelines and applications ……………………………………………………………………………… No Paper Submitted

Dystocia and neonatal resuscitation ………………………………………………………………………………………… No Paper Submitted

Maximizing survival in gastric dilatation volvulus …………………………………………………………………….. No Paper Submitted

Scott Shaw, DVM, DACVECC

Managing neurologic emergencies …………………………………………………………………………………………… No Paper Submitted

Emergency management of congestive heart failure …………………………………………………………………. No Paper Submitted

Practical guidelines for choosing antimicrobials ……………………………………………………………………….. No Paper Submitted

Emergency management of the trauma patients (Part 1) …………………………………………………………… No Paper Submitted

Emergency management of the trauma patients (Part 2) ………………………………………………………….... No Paper Submitted

SIRIS, sepsis, and MODS: What are they and why do I care? ………………………………………………………... No Paper Submitted

Crystalloids vs. colloids: What’s the difference? ………………………………………………………………………….. No Paper Submitted

Approach to the acute abdomen ………………………………………………………………………………………………… No Paper Submitted

When is vomiting an emergency? ………………………………………………………………………………………………. No Paper Submitted

**Dentistry**

Brett Beckman, DVM, DAVDC

Creating better dental images for client education ……………………………………………………………………… 156

Surgical extraction tips and techniques ………………………………………………………………………………………. 158

Analgesic and surgical management for feline stomatitis …………………………………………………………….. 160

Regional nerve blocks for oral surgery ……………………………………………………………………………………….. 162

Using an image library for client education and compliance ………………………………………………………… 166

Simplifying veterinary dental radiographic technique …………………………………………………………………. 169

Treating stage III and IV periodontitis ………………………………………………………………………………………… 172

Steven E Holmstrom, DVM, DAVDC

Oral clinical exam: Recognizing oral disease ………………………………………………………………………………… 174

What’s new in treatment of periodontal disease? …………………………………………………………………………. 177

Stomatitis and tooth resorption …………………………………………………………………………………………………… 180

Tooth troubles: Case studies where you do the diagnosis ……………………………………………………………… 182

Non-surgical and surgical extractions made easy ………………………………………………………………………….. 185

Basics of orthodontics …………………………………………………………………………………………………………………. 187

Don’t pull that fractured tooth: It can be saved by root canal therapy …………………………………………..... 189

Dental homecare: Products, client education, and techniques ……………………………………………………….. 191

Dental procedures in captive wildlife …………………………………………………………………………………………… 193

Dental equipment and instruments ……………………………………………………………………………………………… 194

Kendall Taney, DVM, DAVDC

Fundamentals of oral oncology …………………………………………………………………………………………………… 196

Dental emergencies …………………………………………………………………………………………………………………….. 200

Tooth resorption: To amputate or not? ………………………………………………………………………………………… 203

Dental radiographs: Getting the perfect shot ………………………………………………………………………………… 206

Dental radiography interpretation ………………………………………………………………………………………………... 210

Maxillofacial trauma management ………………………………………………………………………………………………… 212

Oronasal communication ……………………………………………………………………………………………………………… 216

Help clients understand the need for dental care and increase revenues ………………………………………… 220

**Dermatology**

Sandra Diaz, DVM, MS, DACVD

Alopecia X …………………………………………………………………………………………………………………………………….. 222

Canine demodicosis ………………………………………………………………………………………………………………………. 224

Canine pyoderma ………………………………………………………………………………………………………………………….. 226

Craig Griffin, DVM, DACVD

Otitis: Keys to success …………………………………………………………………………………………………………………… 230

Otitis: Developing a treatment plan ……………………………………………………………………………………………….. 233

Cutaneous cytology: THE derm test! ………………………………………………………………………………………………. 235

Feline pyoderma: How common is it really? …………………………………………………………………………………… 237

Another itchy cat: Now what? ………………………………………………………………………………………………………… 239

Adventures with immunosuppressive drugs …………………………………………………………………………………… 241

Working up chronic itchy dogs ……………………………………………………………………………………………………….. 245

Long-term management of atopic dermatitis …………………………………………………………………………………... 248

Diet trials: Fact and fiction ……………………………………………………………………………………………………………… 252

Gene Nesbitt, DVM, MS, DACVD

Allergy testing: What allergens, when and how? …………………………………………………………………………………………. 255

Allergen-specific immunology: Dos, don’ts, and expectations ………………………………………………………………………. 259

Searching for the ideal topical therapy? ……………………………………………………………………………………………………… 263

Back to the basics: Recognizing and interpreting skin lesions ……………………………………………………………………… 266

Diagnosing canine keratinization disorders ………………………………………………………………………………………………… 270

Managing keratinization disorders: Topical and systemic therapy ……………………………………………………………….. 274

Feline crusts and scale ……………………………………………………………………………………………………………………………….. 277

Mold allergies: Fact or fiction? ……………………………………………………………………………………………………………………. 280

Why do I see sarcoptic mange and demodicosis in a referral practice? …………………………………………………………. 283

Christine Rees, DVM, DACVD

Methicillin-resistant staphylococcal infections: Diagnosis and treatment options …………………………………………. 286

Diagnosing and managing dermatophytosis ………………………………………………………………………………………………… 289

Viral dermatitis in cats ………………………………………………………………………………………………………………………………… 291

Probiotic use in dermatology ………………………………………………………………………………………………………………………. 293

Autoimmune skin diseases in dogs ………………………………………………………………………………………………………………. 296

Congenital skin diseases in dogs ………………………………………………………………………………………………………………….. 299

Mystery dermatology cases in dogs and cats. ……………………………………………………………………………………………….. 302

**Endocrinology**

David Bruyette, DVM, DACVIM

Diagnosing canine hyperadrenocorticism……………………………………………………………………………………………………… No Paper Submitted

Treating canine hyperadrenocorticism …………………………………………………………………………………………………………. No Paper Submitted

Canine hypoadrenocorticism ………………………………………………………………………………………………………………………… 305

Diagnosis and pathogenesis of diabetes in dogs and cats ……………………………………………………………………………….. No Paper Submitted

Treating canine and feline diabetes mellitus ………………………………………………………………………………………………….. 309

Insulin-resistant diabetes in dogs and cats …………………………………………………………………………………………………….. 315

Feline hyperthyroidism: New treatment options ……………………………………………………………………………………………. 317

Feline adrenal disease (Cushing’s, Addison’s and hyperaldosteronism) …………………………………………………………… 322

Canine hypothyroidism: New treatment options …………………………………………………………………………………………….. 326

Jana Gordon, DVM, DACVIM

Atypical hyperadrenocorticism: Fact or fiction ……………………………………………………………………………………………….. 331

Pheochromocytomas: The other adrenal tumor ……………………………………………………………………………………………… 333

Trilostane vs. Mitotane: A review of the literature …………………………………………………………………………………………... 336

Diagnostic approach to hypercalcemia ……………………………………………………………………………………………………………. 339

All about glucose curves/home glucose monitoring ………………………………………………………………………………………… 341

Managing diabetic ketoacidosis ………………………………………………………………………………………………………………………. 344

**Exotic Animal Medicine**

Lori Corriveau, DVM

Elective surgery of exotic small mammals ………………………………………………………………………………………………………… 347

Wellness and common diseases of ferrets ………………………………………………………………………………………………………… 350

Wellness and common diseases of guinea pigs ………………………………………………………………………………………………….. 354

Dermatologic conditions of exotic small mammals ……………………………………………………………………………………………. 358

I just bought a \_\_\_\_\_\_\_. What do I feed it? ……………………………………………………………………………………………………………. 361

What's up, Doc? Rabbit wellness ………………………………………………………………………………………………………………………. 365

Eric Klaphake, DVM, DACZM, DABVP

Dos and don’ts of reptile anesthesia …………………………………………………………………………………………………………………… 368

Reptile radiography …………………………………………………………………………………………………………………………………………… 371

Duck, duck, goose: Beginning waterfowl medicine ……………………………………………………………………………………………….. 373

What general practitioners need to know about turtles ………………………………………………………………………………………… 376

Stomachs wrapped in fur: Rabbit GI disease and management ………………………………………………………………………………. 379

Backyard poultry medicine 101 ……………………………………………………………………………………………………………………………. 382

Hints for when atypical exotic mammals visit typical practices ………………………………………………………………………………. 384

Reproductive disease management in birds ……………………………………………………………………………………………………………. 387

Mark A. Mitchell, DVM, MS, PhD, DECZM (Herpetology)

Interpreting the reptile CBC: What is its true value? ………………………………………………………………………………………………… 390

The value of diagnostic imaging in rabbits and rodents …………………………………………………………………………………………… 392

Infectious diseases of bearded dragons …………………………………………………………………………………………………………………… 393

What's your diagnosis?: Exotic small mammal cases ………………………………………………………………………………………………... 394

Diagnostic testing in exotic small mammals: What do the results mean? …………………………………………………………………… 395

Lighting considerations for exotic pets: Do rabbits and guinea pigs need UVB? …………………………………………………………. 397

Managing ornamental fish patients: Exam to diagnosis ……………………………………………………………………………………………... 399

Anesthesia and analgesia for exotic pets: Taking the "ouch" out of medicine and surgery …………………………………………… 401

Opening Pandora's shell: Common medical disorders ……………………………………………………………………………………………….. 403

**Feline Medicine**

Susan Little, DVM, DABVP

Understanding FIP: An update on diagnosis and new treatment options …………………………………………………………………….. 405

Update on FIV: Prevalence, clinical disease, and diagnostic testing ……………………………………………………………………………... 409

How to manage cats with FeLV and FIV ……………………………………………………………………………………………………………………… 412

Feline herpesvirus infection: An update on diagnosis and new treatment options ……………………………………………………….. 415

Infectious causes of diarrhea in kittens ………………………………………………………………………………………………………………………. 418

Feline pediatrics: How to treat the small and the sick ………………………………………………………………………………………………….. 421

Phil Padrid, DVM, RN

Diagnostic approach to feline respiratory disease ……………………………………………………………………………………………………….. No Paper Submitted

Diagnosis and treatment of feline chronic nasal disease ………………………………………………………………………………………………. No Paper Submitted

Diagnosis and treatment of feline bronchial disease …………………………………………………………………………………………………….. No Paper Submitted

Diagnosis and treatment of feline pleural disease ………………………………………………………………………………………………………… No Paper Submitted

Ilona Rodan, DVM, DABVP

Become a Cat Friendly Practice …………………………………………………………………………………………………………………………………… 425

Feline-friendly handling: How to prevent harm, injury, pain, and stress ………………………………………………………………………… 429

Recognizing pain in cats ………………………………………………………………………………………………………………………………………………. 432

Environmental enrichment for indoor cats ……………………………………………………………………………………………………………………. 434

Solutions to increase cat appointments …………………………………………………………………………………………………………………………. 437

Margie Scherk, DVM, DABVP

Hairballs: Just a hairy nuisance or a sign of disease? ………………………………………………………………………………………………………… 438

Updates to recommendations for testing and vaccinations in cats …………………………………………………………………………………….. 440

In! Getting calories in: Feeding the inappetent or anorectic cat …………………………………………………………………………………………. 444

OUT! Managing feline constipation: Relieving a hard problem …………………………………………………………………………………………… 446

Analgesia for feline arthritis ……………………………………………………………………………………………………………………………………………… 448

Feline gastrointestinal syndromes ……………………………………………………………………………………………………………………………………… 454

Pancreatitis: Under-recognized or over-diagnosed? ……………………………………………………………………………………………………………. 458

Susan Little, DVM, DABVP and Margie Scherk, DVM, DABVP

Feline medicine procedures: Feeding tubes …………………………………………………………………………………………………………………………. 462

Feline medicine procedures: Bone marrow biopsy ……………………………………………………………………………………………………………….. 462

Feline medicine procedures: Intraosseous catheters …………………………………………………………………………………………………………….. 462

Feline medicine procedures: Urinary catheters …………………………………………………………………………………………………………………….. 462

Feline medicine procedures: Blind bronchoalveolar lavage …………………………………………………………………………………………………… 462

Feline medicine procedures: Percutaneous renal biopsy ……………………………………………………………………………………………………….. 462

**Gastrointestinal Medicine**

Albert E. Jergens, DVM, PhD, DACVIM

Feline inflammatory disease …………………………………………………………………………………………………………………………………………474

Endoscopy for your practice: Upper GI procedures ……………………………………………………………………………………………………….. 476

Endoscopy for your practice: Lower GI procedures ……………………………………………………………………………………………………….. 478

Practical gastrointestinal function testing ……………………………………………………………………………………………………………………… 480

Progress and pitfalls in diagnosing and treating IBD in dogs (Part 1) ………………………………………………………………………………. 482

Progress and pitfalls in diagnosing and treating IBD in dogs (Part 2) ………………………………………………………………………………. 482

Nutritional/nutraceutical therapy for chronic GI disease ………………………………………………………………………………………………… 485

Practical drug therapy for gastrointestinal disorders in dogs and cats ……………………………………………………………………………… 487

Antibiotic-responsive diarrheas ……………………………………………………………………………………………………………………………………… 489

Michael Matz, DVM, DACVIM

Laboratory evaluation of hepatic disease (Part 1) …………………………………………………………………………………………………… 491

Laboratory evaluation of hepatic disease (Part 2) …………………………………………………………………………………………………… 491

Use and misuse of antiulcer drugs ………………………………………………………………………………………………………………………….. 495

Common errors in the diagnosis and management of gastrointestinal disorders (Part 1) …………………………………………. 499

Common errors in the diagnosis and management of gastrointestinal disorders (Part 2) …………………………………………. 499

Rational drug selection for treating acute vomiting ………………………………………………………………………………………………… 504

Feline gastrointestinal lymphoma ………………………………………………………………………………………………………………………….. 509

Drug-induced liver disease …………………………………………………………………………………………………………………………………….. 513

**Human-Animal Interaction**

Rebecca Johnson, PhD, RN, FAAN

Developing healthy pet and people communities (Part 1): One Health in daily veterinary practice ……………………………. No Paper Submitted

Developing healthy pet and people communities (Part 2): The shared problems of people and animals …………………….. No Paper Submitted

Developing healthy pet and people communities (Part 3): Promoting healthy interactions on both ends of the leash …. No Paper Submitted

**Imaging**

Anthony Pease, DVM, MS, DACVR

CT *vs* MRI: Everything a clinician should know …………………………………………………………………………………………………………. 518

Ultrasonography of the canine abdomen ………………………………………………………………………………………………………………….. 520

Pleura and mediastinum …………………………………………………………………………………………………………………………………………. 522

Developmental bone disorders ………………………………………………………………………………………………………………………………… 523

Urogenital imaging ………………………………………………………………………………………………………………………………………………….. 524

Nathalie Rademacher, DVM, DECVDI, DACVR

How to diagnose elbow disease ………………………………………………………………………………………………………………………………… 525

Hip dysplasia …………………………………………………………………………………………………………………………………………………………… 527

Skeletal radiography: Lesion or normal variant? ……………………………………………………………………………………………………….. 529

Noncardiac thoracic ultrasonography ……………………………………………………………………………………………………………………….. 530

Imaging of thoracic trauma ……………………………………………………………………………………………………………………………………….. 532

Comparative imaging of the spine ……………………………………………………………………………………………………………………………… 534

Victor Rendano VMD, MSc, DACVR. DACVR-RO

Is it surgical? …………………………………………………………………………………………………………………………………………………………….. 536

Radiology fun facts ……………………………………………………………………………………………………………………………………………………. 538

Using quick contrast radiographic techniques for the emergency patient ……………………………………………………………………. 540

Ultrasonography for practitioners ……………………………………………………………………………………………………………………………… 546

Feline thoracic imaging ……………………………………………………………………………………………………………………………………………... 549

MRI and non-neurologic imaging ……………………………………………………………………………………………………………………………….. 554

**Internal Medicine**

Thomas K. Graves, DVM, PhD, DACVIM

Insulin resistance in dogs and cats ……………………………………………………………………………………………………………………………… 556

Hyperaldosteronism: A feline disease you may have missed ………………………………………………………………………………………… 558

Insulin and insulin analogs …………………………………………………………………………………………………………………………………………. 560

Difficult feline medicine cases …………………………………………………………………………………………………………………………………….. 563

Clinical approach to polyuria/polydipsia …………………………………………………………………………………………………………………….. 567

The thyroid gland and the kidney ……………………………………………………………………………………………………………………………….. 569

**Neurology**

Simon Platt, BVM & S, DAVCIM, DECVN, RCVS

Video tour of the neurologic exam ……………………………………………………………………………………………………………………………...... 571

Acute neuromuscular weakness in dogs ……………………………………………………………………………………………………………………….. 575

Vestibular system disorder in cats and dogs …………………………………………………………………………………………………………………. 577

Seizures: How to approach and start treatment …………………………………………………………………………………………………………….. 581

Common cranial nerve syndromes in dog ……………………………………………………………………………………………………………………... 584

Inflammatory CNS disease in dogs and cats …………………………………………………………………………………………………………………… 588

Disc disease: Small *vs.* large dogs …………………………………………………………………………………………………………………………………… 592

Head trauma treatment: A logical emergency …………………………………………………………………………………………………………………. 596

Nonpainful spinal diseases in dogs …………………………………………………………………………………………………………………………………. 599

**Nutrition**

P. Jane Armstrong, DVM, MS, MBA, DACVIM

Nutritional and medical management of pancreatitis…………………………………………………………………………………………….. No Paper Submitted

Nutritional and medical management of hepatic lipidosis …………………………………………………………………………………….. No Paper Submitted

Nutritional and medical management of protein-losing enteropathy …………………………………………………………………….. No Paper Submitted

Nutritional and medical management of obesity …………………………………………………………………………………………………… No Paper Submitted

Nasoesophageal tube placement and use ……………………………………………………………………………………………………………… No Paper Submitted

Esophagostomy tube placement and use ………………………………………………………………………………………………………………. No Paper Submitted

Percutaneous gastrostomy tube placement and use ……………………………………………………………………………………………… No Paper Submitted

Tube feeding nuts and bolts ………………………………………………………………………………………………………………………………… No Paper Submitted

Cailin Heinze, VMD, MS, DACVN

Evidence-based cancer nutrition ………………………………………………………………………………………………………………………….. 602

Feeding pets with renal disease: What to feed and when to start ……………………………………………………………………………. 605

Nutritional support of endocrine disease ………………………………………………………………………………………………………………. 608

Nutritional management of urolithiasis …………………………………………………………………………………………………………………. 611

Pet food – associated illness ………………………………………………………………………………………………………………………………….. 614

Nutritional support in orthopedic disease ………………………………………………………………………………………………………………. 617

**Oncology**

Laura Garrett, DVM, DACVIM

New diagnostics and current treatment options for canine lymphoma ……………………………………………………………………….. 620

A review and what’s new in hemangiosarcoma ………………………………………………………………………………………………………….. 623

Current controversies with canine mast cell tumors …………………………………………………………………………………………………… 627

The approach for cure of soft tissue sarcomas ……………………………………………………………………………………………………………. 630

Indications for radiation therapy ………………………………………………………………………………………………………………………………… 633

What’s new and on the horizon for canine osteosarcoma ……………………………………………………………………………………………... 636

**One Health**

Kate Hodgson, DVM, MHSc, CCMEP

Emerging zoonotic threats in your community ………………………………………………………………………………………………………… No Paper Submitted

Pets in the family ……………………………………………………………………………………………………………………………………………………. No Paper Submitted

Zooeyia: The health benefits of pets ………………………………………………………………………………………………………………………… No Paper Submitted

Barriers to One Health in practice …………………………………………………………………………………………………………………………… No Paper Submitted

Practice-based tools for One Health …………………………………………………………………………………………………………………………. No Paper Submitted

One Health promotion programs ……………………………………………………………………………………………………………………………… No Paper Submitted

**Ophthalmology**

Micki Armour, VMD, DACVO

How to approach the squinty cat: Feline herpesvirus and other diseases …………………………………………………………………….. 639

Canine glaucoma ………………………………………………………………………………………………………………………………………………………. 641

Acute blindness in canine and feline patients ……………………………………………………………………………………………………………… 643

Jennifer Hyman, VMD, MA, DACVO

Polypharmacy in veterinary ophthalmology …………………………………………………………………………………………………………………. 645

Update on corneal surgery techniques ………………………………………………………………………………………………………………………….. 647

Peter Mohoric, VMD, DACVO

Managing uveitis in dogs and cats ………………………………………………………………………………………………………………………………….. 649

**Orthopedics**

Mathieu M. Glassman, VMD, DACVS

Setting up owner expectations for fracture repair …………………………………………………………………………………………………… No Paper Submitted

Fractures: When is repair necessary? …………………………………………………………………………………………………………………….. No Paper Submitted

It's not a cruciate: Differential diagnosis for dogs with a pelvic limb lameness …………………………………………………………. No Paper Submitted

Treatment of elbow dysplasia ………………………………………………………………………………………………………………………………… No Paper Submitted

The art of the bandage: Why it is one of the most important skills to master …………………………………………………………….. No Paper Submitted

Bandaging for orthopedic patients: Guidelines, expectations, and caveats …………………………………………………………………. No Paper Submitted

Jennifer L. Wardlaw, DVM, MS, DACVS

How to lower your infection rate in orthopedic procedures……………………………………………………………………………………. No Paper Submitted

Hip luxation …………………………………………………………………………………………………………………………………………………………. 650

Patellar luxation repair options …………………………………………………………………………………………………………………………….. 652

Choosing cruciate repair techniques ……………………………………………………………………………………………………………………... 654

Conservative management for patella and cruciate injuries …………………………………………………………………………………… 656

Physical rehabilitation for pain relief …………………………………………………………………………………………………………………….. 658

Physical rehabilitation after knee surgery ……………………………………………………………………………………………………………… No Paper Submitted

Nutraceuticals for chronic pain relief ……………………………………………………………………………………………………………………… 663

Ron Montgomery, DVM, MS, DACVS

Logical diagnostic approach to small animal orthopedics …………………………………………………………………………………………. No Paper Submitted

Arthrocentesis as a valuable diagnostic test …………………………………………………………………………………………………………….. No Paper Submitted

Juvenile bone and joint disease ……………………………………………………………………………………………………………………………….. No Paper Submitted

Degenerative joint disease: Managing the disease and the client ………………………………………………………………………………. No Paper Submitted

Initial management of orthopedic trauma patients with nonorthopedic trauma ……………………………………………………….. No Paper Submitted

An overview of recent fracture implant advances ……………………………………………………………………………………………………. No Paper Submitted

**Pain Management**

Mark Epstein, DVM, DABVP, CVPP

Opioids: Current concepts and new developments …………………………………………………………………………………………………. 667

Adjunct pain modifying medications: What’s the evidence? ……………………………………………………………………………………. 671

An evidence-based tour through veterinary pain management ……………………………………………………………………………….. 673

Neuropathic pain: Are you seeing it more than you think? (Yes) ……………………………………………………………………………... 675

Stem cells, platelets, and other biologic modalities in the treatment of pain …………………………………………………………….. 678

A case-based approach to transoperative pain management …………………………………………………………………………………… 680

Doug Stramel, DVM, CVPP

Introduction to dry needling for pain: An emerging analgesic tool …………………………………………………………………………… 683

Locoregional anesthesia & analgesia for every practice ……………………………………………………………………………………………. 684

Acupuncture: Fact, fiction and first steps …………………………………………………………………………………………………………………. 687

**Parasitology**

Anne Zajac, DVM, PhD, DACVM

Heartworm update ……………………………………………………………………………………………………………………………………………….. No Paper Submitted

Parasitic zoonoses ………………………………………………………………………………………………………………………………………………… No Paper Submitted

Practical parasitology: Pitfalls and best practices ……………………………………………………………………………………………………. No Paper Submitted

Parasitology diagnostics in your practice ………………………………………………………………………………………………………………… No Paper Submitted

Diagnostic dilemmas in parasitology ……………………………………………………………………………………………………………………….. No Paper Submitted

Parasitology update: New parasites, new problems …………………………………………………………………………………………………. No Paper Submitted

Familiar and unfamiliar nematode parasites of dogs and cats ……………………………………………………………………………………. No Paper Submitted

**Pediatrics**

Michelle Kutzler, BVSc, DVM, PhD, DACT

Prenatal care for bitches and queens ………………………………………………………………………………………………………………………… 689

Birth and the first 24 hours ………………………………………………………………………………………………………………………………………. 692

Normal growth in puppies and kittens ………………………………………………………………………………………………………………………. 695

Neonatal mortality ……………………………………………………………………………………………………………………………………………………. 698

Clinical pathology in pediatric patients ………………………………………………………………………………………………………………………. 701

Emergency and critical care for puppies and kittens …………………………………………………………………………………………………… 704

Common infectious diseases of puppies and kittens ……………………………………………………………………………………………………. 706

Radiographic considerations in young patients …………………………………………………………………………………………………………… 708

Postmortem examination of puppies and kittens …………………………………………………………………………………………………………. 711

**Practical Immunology**

Ronald D. Schultz, DVM, PhD

Canine vaccines and effective vaccination programs for dogs ………………………………………………………………………………………… 715

Feline vaccines and effective vaccination programs for cats ………………………………………………………………………………………….. 717

Everything you need to know about immunology in a clinical practice …………………………………………………………………………… 719

How to interpret diagnostic tests for infectious diseases and immunologic disorders ………………………………………………………720

Canine influenza virus: Is it a significant pathogen? ……………………………………………………………………………………………………… No Paper Submitted

Canine infectious respiratory disease complex, with canine influenza virus …………………………………………………………………….. 721

Canine autoimmune disorders and more ………………………………………………………………………………………………………………………… 722

Antibody titer testing: How and why you want to do it in your practice ……………………………………………………………………………… 723

**Public Health**

Multistate Foodborne Illness Investigation Linked to Salmonella Enteriditis in Ground Beef: Lessons Learned– CDR Catherine Rockwell, DVM …… No Paper Submitted

Animals in Research and Their Impact on Human Health – LCDR Evan Shukan, DVM, MPH, DACVPM, DACLAM …………… No Paper Submitted

An Outbreak of Outbreaks: Ebola and Marburg Hemorrhagic Fever – Outbreak Responses from the Perspective of a CDC Epidemic Intelligence Service Officer – LT Ilana Schafer, DVM, MSPH ………………………………………………………………………………………… No Paper Submitted

Evaluation of Zoonotic Exposures at a Marine Mammal Rescue Center – CAPT John Gibbins, DVM, MPH, DACVPM ……….. No Paper Submitted

Hurricane Sandy:  A Veterinarian’s Role in a Federal Medical Station – CDR Catherine Rockwell, DVM …………………………. No Paper Submitted

Campylobacter Infection and Exposures Among Employees at a Poultry Processing Plant – CAPT John Gibbins, DVM, MPH, DACVPM ……………… No Paper Submitted

**Respiratory Medicine**

Leah A. Cohn, DVM, PhD, DACVIM

A pattern-based approach to respiratory distress …………………………………………………………………………………………………….724

Tracheal collapse: A common cause of cough ………………………………………………………………………………………………………….. 727

Treating bacterial pneumonia ………………………………………………………………………………………………………………………………… 730

Respiratory case challenges: Cats ……………………………………………………………………………………………………………………………. 732

Respiratory case challenges: Dogs …………………………………………………………………………………………………………………………… 733

How to treat asthma in cats …………………………………………………………………………………………………………………………………….. 734

Chronic nasal discharge in dogs ……………………………………………………………………………………………………………………………….. 738

Pathogens of canine infectious respiratory disease complex: More than Bordetella …………………………………………………….. 741

**Shelter Medicine**

Philip Bushby, DVM, MS, DACVS

Efficient spay-neuter techniques ……………………………………………………………………………………………………………………………… 744

Pediatric spay-neuter ………………………………………………………………………………………………………………………………………………. 746

Preventing and managing spay-neuter complications ……………………………………………………………………………………………….. 749

Spay-neuter in unusual cases (cryptorchid, mammary hyperplasia, etc,) …………………………………………………………………… 751

Case studies on improving standards of care in animal shelters …………………………………………………………………………………. 753

Infectious disease control in shelter environments …………………………………………………………………………………………………….. 755

**Small Animal Reproduction**

Carlos R. F. Pinto, MedVet, PhD, DACT

Interpreting hormonal assays to time artificial insemination ……………….…………………………………………………………………….. No Paper Submitted

Clinical approach to infertility in the stud dog …………………………………….……………………………………………………………………… No Paper Submitted

Tips for semen collection, analysis, and processing for insemination ….……………………………………………………………………….. No Paper Submitted

Diagnosing ovarian remnant syndrome in dogs and cats ……………………………………………………………………………………………. No Paper Submitted

Pharmacologic control of small-animal reproduction: Health and disease …………………………………………………………………… No Paper Submitted

Diagnosing and treating diseases of diestrus and pregnancy ………………………………………………………………………………………. No Paper Submitted

**Soft Tissue Surgery**

Brad Case, DVM, DACVS

Ovariectomy *vs.* ovariohysterectomy …………………………………………………………………………………………………………………………. No Paper Submitted

Laryngeal paralysis …………………………………………………………………………………………………………………………………………………… 757

Pericardial surgery ……………………………………………………………………………………………………………………………………………………. 759

Basic minimally invasive surgery ……………………………………………………………………………………………………………………………….. 761

Lower urinary tract (PU, urethrostomy/cystotomy) …………………………………………………………………………………………………… 764

Head and neck (VBO cats, salivary mucoceoles dogs) ………………………………………………………………………………………………….. 767

Basic skin reconstruction …………………………………………………………………………………………………………………………………………... 768

Matthew Keats, DVM, DACVS

Diaphragmatic hernia ………………………………………………………………………………………………………………………………………………… 771

Surgery of the biliary tract ………………………………………………………………………………………………………………………………………….. 775

Soft tissue sarcoma …………………………………………………………………………………………………………………………………………………….. 778

Perineal hernia …………………………………………………………………………………………………………………………………………………………… 781

Perianal neoplasm ………………………………………………………………………………………………………………………………………………………. 784

Lung lobectomy ………………………………………………………………………………………………………………………………………………………….. 787

Eric Monnet, DVM, PhD, FAHA, DACVS, DECVS

How to perform a safe gastrointestinal surgery ……………………………………………………………………………………………………………. 790

Can we use minimally invasive surgery in private practice? ………………………………………………………………………………………….. 793

Chylothorax: Any hope? ………………………………………………………………………………………………………………………………………………. 795

Tummy trouble: Acute abdomen treatment ………………………………………………………………………………………………………………….. 797

Brachycephalic airway syndrome …………………………………………………………………………………………………………………………………. 800

Gastric dilatation volvulus …………………………………………………………………………………………………………………………………………..... 803

Wound management …………………………………………………………………………………………………………………………………………………….. 806

How to manage a case of urolithiasis ……………………………………………………………………………………………………………………………… 808

Laryngeal paralysis: What to expect ……………………………………………………………………………………………………………………………….. 810

**Toxicology**

Tina Wismer, DVM, DABVT, DABT

Common hazards for cats ………………………………………………………………………………………………………………………………………………. 813

Managing intoxication from human drugs of abuse …………………………………………………………………………………………………………. 817

Treating tough toxins …………………………………………………………………………………………………………………………………………………….. 821

Lipid therapy: Magic milk? …………………………………………………………………………………………………………………………………………….. 825

Toxins affecting the liver ………………………………………………………………………………………………………………………………………………… 827

Toxins affecting the kidneys ……………………………………………………………………………………………………………………………………………. 830

**Urology/Nephrology**

Gregory F. Grauer, DVM, MS, DACVIM

Urine leakage and urine retention disorders ………………………………………………………………………………………………………………….... 833

The nuts and bolts of azotemia ……………………………………………………………………………………………………………………………………….. 836

The nuts and bolts of proteinuria ……………………………………………………………………………………………………………………………………. 838

Staging and management of chronic kidney disease ………………………………………………………………………………………………………… 841

The importance of proteinuria and hypertension in CKD (Part 1) …………………………………………………………………………………….. 845

The importance of proteinuria and hypertension in CKD (Part 2) …………………………………………………………………………………….. 845

UTI – Top ten questions addressed …………………………………………………………………………………………………………………………………. 848

India F. Lane, DVM, MS, Ed.D. DACVIM

Update on canine prostatic disease ……………………….…………………………………………………………………………………………………. 851

Medical management of canine incontinence ……..…………………………………………………………………………………………………….. 854

Managing refractory incontinence ……….………………………………………………………………………………………………………………….. 857

Sorting out the cause of acute azotemia ..………………………………………………………………………………………………………………….. 860

Managing refractory feline cystitis ….……………………………………………………………………………………………………………………….. 863

Feline urology case discussion ………………………………………………………………………………………………………………………………… No Paper Submitted

**USDA/NVAP**

Module 1: Introduction to NVAP and Module 2: Role of agencies, health certificates – Dr. Clement Dussault …….. No Paper Submitted

Module 5: Vesicular Diseases – Dr. Kate Bowers …………………………………………………………………………………………….. No Paper Submitted

Module 6: Exotic Avian Diseases - Dr. Fedelis Hegngi ……………………………………………………………………………………… No Paper Submitted

Module 7: Foreign Animal Disease Detection in Category 1 Animals – Dr. Kate Bowers ……………………………………. No Paper Submitted

Module 9: Interstate and International Health Certificates for Category 1 Animals – Dr. Jacek Taniewski ……….... No Paper Submitted

Module 19: Animal Health Emergency Response – Dr. Clement Dussault …………………………………………………………. No Paper Submitted

**Large Animal**

**Equine**

Vanessa Cook, VetMB, PhD, DACVS, DACVECC

Referral is not an option: Now what? ………………………………………………………………………………………………………………. 867

Colic in foals: What’s different from colic in adults? ………………………………………………………………………………………….. 870

Colic case discussions ………………………………………………………………………………………………………………………………………. 872

How to deal with a rectal tear ……………………………………………………………………………………………………………………………. 878

Managing endotoxemia: Have we improved our treatment? ……………………………………………………………………………….. 880

Musculoskeletal emergencies …………………………………………………………………………………………………………………………….. 882

Fluid therapy and blood transfusion in the field …………………………………………………………………………………………………. 885

Coordinated management of dystocia and foal resuscitation ……………………………………………………………………………….. 888

Jennifer Davis, DVM, PhD, DACVIM, DACVCP

Antibiotics in horses: Beyond penicillin and TMS …………………………………………………………………………………………………. 891

Antifungal drugs in horses …………………………………………………………………………………………………………………………………… 895

Corticosteroids: Uses and adverse effects ……………………………………………………………………………………………………………… 898

NSAIDs: Uses and adverse effects ………………………………………………………………………………………………………………………….. 901

Alternative anti-inflammatory and analgesic medications ………………………………………………………………………………………. 904

Drug therapy in neonates: Differences in foals *vs* adults ………………………………………………………………………………………….. 908

Drug therapy for endocrine disease ………………………………………………………………………………………………………………………… 911

Drug therapy for cardiovascular disease ………………………………………………………………………………………………………………….. 914

Drug therapy for ocular disease ……………………………………………………………………………………………………………………………….. 917

**Practice Management**

Brian Conrad, CVPM

Forget the wow — Make your practice easy for clients —Brian Conrad, CVPM …………………………………………………………. No Paper Submitted

How to put the pet owner in the driver’s seat —Brian Conrad, CVPM ……………………………………………………………………….. No Paper Submitted

I’m more interested in next year — Steps to lock in a lifetime of compliance …………………………………………………………….. No Paper Submitted

Amanda Donnelly, DVM, MBA

Tips to ditch the doldrums at work …………………………………………………………………………………………………………………………….. 920

Communicate to improve team performance ………………………………………………………………………………………………………………. 922

Don’t worry, be happy: Learn how to achieve your goals and overcome obstacles to success ………………………………………… 924

Karen Felsted, CPA, MS, DVM, CVPM

Is your reputation with clients slipping? The 2012 DVM Newsmagazine State of the Profession Survey ………………………… No Paper Submitted

Top 10 biggest struggles in practice — and how to fix them: The 2012 Veterinary Economics Business Issues Survey (Part 1) …. No Paper Submitted

Top 10 biggest struggles in practice — and how to fix them: The 2012 Veterinary Economics Business Issues Survey (Part 2)…… No Paper Submitted

How your team can boost revenue — and earn a raise: The 2012 Firstline Veterinary Team Trends Study ……………………. No Paper Submitted

Laura Garrett, DVM, DACVIM

I'm patient with patients, but clients drive me crazy! How to work with high-maintenance owners ………………………………… 926

What do you want to do? Helping clients make decisions. ……………………………………………………………………………………………….. 929

The good, the bad, and the ugly in breaking bad news to clients. ……………………………………………………………………………………… 933

Sheila Grosdidier, RVT, BS

What dogs teach us about practice ………………………………………………………………………………………………………………………………….. 935

Bash Halow, LVT, CVPM

The tracks we leave behind: The leader you were and the leader you will be …………………………………………………………………….. 938

Practice 911! Real solutions for practices in calamity (Part 1) …………………………………………………………………………………………… 941

Practice 911! Real solutions for practices in calamity (Part 2) ……………………………………………………………………………………………. 941

Laura Laaman

5 steps to significantly increase new clients without increasing marketing (Part 1) ……………………………………………………………… 944

5 steps to significantly increase new clients without increasing marketing (Part 2) ………………………………………………………………. 944

7 marketing musts to boost your bottom line and draw in clients …………………………………………………………………………………………. 946

Dave Nicol, BVMS

People Part 1: Finding and managing good people …………………………………………………………………………………………………………………. 949

People Part 2: The recovering veterinary jerk ………………………………………………………………………………………………………………………… 952

The goldmine in your office: Database marketing how-tos and whys ………………………………………………………………………………………. 954

Rich vet, poor vet: How one practice grew 50% in under a year ………………………………………………………………………………………………. 956

Fight or flight club: Save your practice from drug Armageddon ………………………………………………………………………………………………… 958

Bootstrapped marketing: How to market like a pro on a shoestring ………………………………………………………………………………………….. 960

Mark Opperman, CVPM

Achieve five-star customer service …………………………………………………………………………………………………………………………………………… 962

Top 10 amazingly dumb things veterinarians do! ………………………………………………………………………………………………………………………966

Mark Opperman, CVPM and Sheila Grosdidier, RVT, BS

Control your inventory and support staff costs ………………………………………………………………………………………………………………………….. 969

Bad employees or bad managers? Real stories and solutions (Part 1) …………………………………………………………………………………………. 970

Bad employees or bad managers? Real stories and solutions (Part 2) …………………………………………………………………………………………. 970

Mike Paul, DVM

Core Values: What are the vital drivers in your practice? …………………………………………………………………………………………………………….. 974

Recapture your passion for practice …………………………………………………………………………………………………………………………………………… 975

Making a difference in your clients', colleagues' and staffs' lives ………………………………………………………………………………………………….. 976

Dispensing and prescribing: Slip slidin' away ……………………………………………………………………………………………………………………………… 978

Take charge of your own happiness ……………………………………………………………………………………………………………………………………………. 980

Don't run your practice like that! Are you a manager or a leader? ………………………………………………………………………………………………… 981

Finding professional and personal balance ………………………………………………………………………………………………………………………………….. 983

Andrew Roark, DVM, MS

Bond clients in person and online ……………………………………………………………………………………………………………………………………………….. 984

How to make Facebook pay ………………………………………………………………………………………………………………………………………………………… 985

Twitter basics: How to make it worth your time and energy ………………………………………………………………………………………………………… 986

Rick Schulkey

Difficult clients and you: What makes them tick — and get ticked off? ………………………………………………………………………………………….. 987

Difficult clients: A toolbox of options when clients are upset ………………………………………………………………………………………………………… 990

Excellent client service: What clients want from your hospital ………………………………………………………………………………………………………. 993

Excellent client service: A team approach ……………………………………………………………………………………………………………………………………… 996

Excellent client service: Serve the clients, serve the pet, survive and thrive in the recession ……………………………………………………………. 998

Denise Tumblin, CPA

Team meeting in a box: The “how to” of crafting productive meetings …………………………………………………………………………………………….. 1000

Must know finances for new owners and practice managers ………………………………………………………………………………………………………….. 1002

Matching patient care with the client’s pocketbook: Are wellness plans the solution? (Part 1) …………………………………………………………. 1004

Matching patient care with the client’s pocketbook: Are wellness plans the solution? (Part 2) …………………………………………………………. 1004

Buying or selling a practice? Top three things to know (Part 1) ………………………………………………………………………………………………………. 1008

Buying or selling a practice? Top three things to know (Part 2) ……………………………………………………………………………………………………….. 1008

Four critical steps to position your practice for success …………………………………………………………………………………………………………………… 1011

Ernie Ward, DVM

Schedule tight, schedule right: Make time for work and life ……………………………………………………………………………………………………………… 1014

6 surefire stress busters to deal with daily practice drama ……………………………………………………………………………………………………………….. 1018

Volunteer work: A prescription for a healthier business and life ……………………………………………………………………………………………………….. 1020

Fritz Wood, CPA, CFP

Retirement planning: Putting your puzzle together …………………………………………………………………………………………………….. No Paper Submitted

Debt or alive: Climbing out from under student loans …………………………………………………………………………………………………. No Paper Submitted

Do I need a practice manager? ……………………………………………………………………………………………………………………………………. No Paper Submitted

**Technician program**

P. Jane Armstrong, DVM, MS, MBA, DACVIM

Probiotics: What’s the scoop? ……………………………………………………………………………………………………………………………………… No Paper Submitted

Philip Bushby, DVM, MS, DACVS

Infectious disease control in shelter environments ……………………………………………………………………………………………………….. 1022

John Ciribassi, DVM, DACVB

Handling in the veterinary clinic …………………………………………………………………………………………………………………………………… 1025

Leah A. Cohn, DVM, PhD, DACVIM

Recognizing respiratory patterns …………………………………………………………………………………………………………………………………… 1028

Brian Conrad, CVPM

Don't pass the buck: Take ownership and serve clients ……………………………………………………………………………………………….. No Paper Submitted

Answering the phone: Everyone's job ………………………………………………………………………………………………………………………… No Paper Submitted

How to revamp your reminder systems …………………………………………………………………………………………………………………….. No Paper Submitted

Lori Corriveau, DVM

Emergency care of exotic small mammals ……………………………………………………………………………………………………………………… 1032

Sandra Diaz, DVM, MS, DACVD

Topical therapy for skin problems ………………………………………………………………………………………………………………………………….. 1035

Amanda Donnelly, DVM, MBA

Build clients' trust and boost referrals …………………………………………………………………………………………………………………………….. 1037

7 steps to engage clients ………………………………………………………………………………………………………………………………………………….. 1039

Get to yes — So pets get the care they need ………………………………………………………………………………………………………………………. 1042

Laura Garrett, DVM, DACVIM

Top 10 chemotherapy tips …………………………………………………………………………………………………………………………………………………. 1044

Bash Halow, LVT, CVPM

When I say team, I mean TEAM: Training that increases productivity and workplace harmony ……………………………………………. 1048

(Just) one ringy dingy: Grab the opportunity every client call offers ……………………………………………………………………………………. 1051

When push comes to shove: Stop office bickering ………………………………………………………………………………………………………………. 1053

Dr. Jennifer Hyman

Ophthalmology A-Z: What all that weird terminology means ………………………………………………………………………………………………. 1055

 Eric Klaphake, DVM, DACZM, DABVP

Care of hospitalized birds …………………………………………………………………………………………………………………………………………………… 1057

India F. Lane, DVM, MS, Ed.D. DACVIM

Urinary catheters and the blocked cat: Challenges and tips ……………………………………………………………………………………………………. 1060

David Liss, RVT, VTS (ECC, SAIM)

Sepsis and systemic inflammatory response syndrome …………………………………………………………………………………………………………… 1064

Understanding endocrine testing ……………………………………………………………………………………………………………………………………………. 1067

Advanced ICU lab testing ………………………………………………………………………………………………………………………………………………………… 1070

The pharmacology of bugs and drugs: Antibiotics …………………………………………………………………………………………………………………….. 1073

Managing DKA patients …………………………………………………………………………………………………………………………………………………………… 1076

Pumps and tubes: Cardiac physiology ………………………………………………………………………………………………………………………………………. 1080

Kimberly Majoy, BS, CVT, VTS (Anesthesia)

Anesthesia for critical patients …………………………………………………………………………………………………………………………………………………. 1084

Monitoring blood pressure and troubleshooting ……………………………………………………………………………………………………………………….. 1086

Considerations for anesthesia in ophthalmology patients ………………………………………………………………………………………………………….. 1088

Pain assessment and monitoring ………………………………………………………………………………………………………………………………………………. 1091

Perianesthetic pain management strategies ………………………………………………………………………………………………………………………………. 1093

Using capnography in anesthetized patients ……………………………………………………………………………………………………………………………… 1096

Patricia March, CVT, VTS (Dentistry)

Dental terms and trivia …………………………………………………………………………………………………………………………………………………………….. 1098

Promoting dentistry in your clinic …………………………………………………………………………………………………………………………………………….. 1100

Antibiotic use in veterinary dentistry ………………………………………………………………………………………………………………………………………… 1101

Complementary therapy options for dental patients …………………………………………………………………………………………………………………… 1102

Oral mass identification ……………………………………………………………………………………………………………………………………………………………... 1104

Palatal defects in dogs and cats …………………………………………………………………………………………………………………………………………………… 1105

Michael Matz, DVM, DACVIM

Fluid therapy for gastrointestinal disorders ………………………………………………………………………………………………………………………………….. 1106

Peter Mohoric, VMD, DACVO

Ocular diagnosis ………………………………………………………………………………………………………………………………………………………………………….. 1110

Gene Nesbitt, DVM, MS, DACVD

Technicians’ role in managing pets on allergen-specific immunotherapy and their owners …………………………………………………………….. 1111

 Carlos R. F. Pinto, MedVet, PhD, DACT

Technical assistance in common procedures in small-animal reproduction ………………………………………………………………….. No Paper Submitted

Alan Rebar, DVM, PhD, DACVP

Cytology for technicians ……………………………………………………………………………………………………………………………………………….. 1114

Andrew Roark, DVM, MS

The Jedi mind trick: How technicians can manage their doctors ……………………………………………………………………………………….. 1119

How to do less and get what you want from your practice and co-workers ……………………………………………………………………….. 1120

How veterinarians wreck teams — and what to do about it ……………………………………………………………………………………………… 1121

Sheilah Robertson, BVMS (Hons), PhD, DACVA, DECVA, CVA, MRCVS

Recognizing pain in cats ……………………………………………………………………………………………………………………………………………………. 1122

Ronald D. Schultz, DVM, PhD

Everything you need to know about canine vaccines and vaccination programs …………………………………………………………… No Paper Submitted

Scott Shaw, DVM, DACVECC

Blood gases made easy ……………………………………………………………………………………………………………………………………………… No Paper Submitted