

Case Log #	Date			Patient ID +/-or #
<i>[case log #]</i>	<i>[complete date]</i>			7652
Species	Breed	Sex	Age	Weight in Kg.
Canine	Labrador	MN	14y	34.5

Diagnosis: Aspiration Pneumonia; Hypothyroidism; Arthritis; Gastroenteritis

Advanced Skills & Procedures I performed: thorough pre-anesthetic examination (1); obtained appropriate samples for: CBC/Chemistry, TT4, Free T4 by equilibrium dialysis (ED) (17), serial electrolytes and blood gas measurements (iStat®) (7); obtained urine via sterile cystocentesis (10) performed in house urinalysis (12) and packaged urine sample appropriately for referral lab processing; performed serial thoracic radiography; developed balanced anesthetic plan for endoscopy (2); implemented anesthetic plan by calculating and administering the following medications: buprenorphine 0.015mg/kg (0.5mg) IV, propofol 5mg/kg (172.5mg) IV, maintained on sevoflurane gas; monitored patient throughout procedure with NIBP, ETCO2, ECG, SpO2, and manual techniques (3); monitored continuous ECG (40); safely performed nebulization with sterile saline droplets over 10min with coupage to follow every 6hr (45); packaged BAL samples for processing at outside lab (6); provided thorough nursing care for a recumbent patient including passive range of motion, heat and massage therapy (49)

Advanced Skills & Procedures I assisted with: laryngoscopy (23), rhinoscopy/bronchoscopy/BAL (22), abdominal ultrasound/echocardiogram (21)

Outcome: hospitalized for 14 days, BAL results negative. Humane euthanasia elected due to lack of improvement

Case Log #	Date			Patient ID +/-or #
<i>[case log #]</i>	<i>[complete date]</i>			3456
Species	Breed	Sex	Age	Weight in Kg.
Canine	German Shepherd	M	6y	37.5

Diagnosis: Protein Losing Enteropathy vs. Open

Advanced Skills & Procedures I performed: performed thorough physical examination (BCS 3/5, abnormal: enlarged submandibular, popliteal lymph nodes) (25, 26); obtained appropriate samples for: re/post bile acids, cobalamin, folate, CBC/chemistry, cPLi SNAP® (18); continuously monitored NIBP (41); performed thoracic and abdominal radiography; calculated/administered/monitored multiple fresh frozen plasma transfusions at 20ml/kg (750ml) over 4hrs at 190ml/hr with initial 30min at a slow rate with monitoring of vitals every 5min then increased to every 30min (33); calculated/monitored/administered colloid CRI at 20 ml/kg/day (31ml/hr) (30); safely performed abdominocentesis using 18ga butterfly, extension set, stopcock and 60ml syringe (34); performed fine needle aspirate of enlarged lymph nodes using 3mL syringe attached to 22ga needle (6) and performed in house cytology on samples (8); packaged peritoneal effusion and cytology slides for referral lab evaluation (6); safely performed cystocentesis for in house urinalysis and packaged urine sample for culture at referral lab evaluation (10)

Advanced Skills & Procedures I assisted with: abdominal ultrasound/echocardiogram (21)

Outcome: Owners elected humane euthanasia due to lack of improvement and negative diagnostics

Case Log #	Date			Patient ID +/-or #
<i>[case log #]</i>	<i>[complete date]</i>			8365
Species	Breed	Sex	Age	Weight in Kg.
Canine	Labrador	M	3y	35.3

Diagnosis: Rodenticide toxicity

Advanced Skills & Procedures I performed: performed thorough physical examination (abnormal: ecchymoses noted on abdomen); obtained appropriate samples for: CBC/Chemistry, serial aPTT/PT (13), serial PCV/TP, performed blood smear, performed blood type and cross match using Alvedia Quick Test BT (DEA 1-) and XM (Major compatible with donor) (14, 15); performed thoracic and abdominal radiography; calculated/administered/monitored fresh whole blood transfusion at 20ml/kg (700ml) over 4hrs at 180ml/hr with initial 30min at a slow rate with monitoring of vitals every 5min then increased to every 30min (33); monitored continuous NIBP (41); administered/monitored Oxygen therapy

Advanced Skills & Procedures I assisted with: abdominal ultrasound (21)

Outcome discharged to owner; instructed to complete oral medications as prescribed (Vitamin K 2.8mg/kg [100mg], famotidine 0.56mg/kg [20mg], sucralfate 28.2mg/kg [1000mg]); instructed to recheck PT/aPTT two weeks after finishing Vitamin K

Case Log #		Date		Patient ID +/-or #	
[case log #]		[complete date]		755226	
Species	Breed	Sex	Age	Weight in Kg.	
Canine	Miniature Schnauzer	F/S	7y	8	

Diagnosis Hepatobiliary disease

Advanced Skills & Procedures I performed: collect/handle 12hr fasted serum sample for cPLI (18), placed/maintained 22g dorsal pedal arterial catheter for invasive blood pressure monitoring (37), pre anesthesia examination for surgical liver biopsy and gall bladder aspirate (1), PT/aPTT with citrated whole blood (13), develop/implement anesthesia plan (2,3): 0.1 mg/kg hydromorphone (2 mg/ml) IV 0.8 mg (0.43 ml) and 4 mg/kg propofol (10 mg/ml) IV titrate 48 mg (4 ml) IV and maintained on isoflurane/oxygen, perform pain assessment with Glasgow Composite Measure Pain Scale- short form (CMPS-SF)- score 10/24 (4), implement systemic analgesic plan with opioid (5), calculate/prepare CRI with 2 mcg/kg/hr fentanyl (50 mcg/ml) IV at 17 mcg/hr (0.34 ml/hr) (30), perform/evaluate BCS 2.5/5 (26), calculate/implement enteral nutrition using  $70 \times (\text{BWkg}^{0.75})$  at 1.2xRER or 400 kcal/d with 1can Hill's i/d® + 1can Clinicare®= 1kcal/ml (100ml QID) (1/3 RER 1st day, 2/3 RER 2nd day, Full RER 3rd day) (27), use/maintain esophagostomy tube (E tube) after recovery from anesthesia with warm water flush pre-/post- feedings, feedings over 10min, and entrance site care every 24hr (28)

Advanced Skills & Procedures I assisted: 14Fr MILA® E tube placement- patient placed in right lateral, tube pre-measured from mid-cervical region (insertion point) to 7th-9th intercostal space, curved Kelly hemostat placed in esophagus for stab incision through skin for insertion of tube then secured with Chinese finger-trap (28)

Outcome Discharged on famotidine (5 mg BID/0.62mg/kg), metronidazole (2 mL BID/12.5mg/kg), amoxicillin/clavulanic acid (125mg BID/15.6mg/kg), S-Adenosylmethionine (SAM-e) (90mg SID/11.25mg/kg), ondansetron (4mg BID/0.5mg/kg), and at home supportive care.

Case Log #		Date		Patient ID +/-or #	
[case log #]		[complete date]		755387	
Species	Breed	Sex	Age	Weight in Kg.	
Canine	Soft Coated Wheaten Terrier	M/N	8y	21.75	

Diagnosis IBD, Rectal polyp with submucosal peripheral nerve sheath tumor

Advanced Skills & Procedures I performed: warm water enemas at 20 ml/kg (420 ml), place/maintain 8Fr nasoesophageal (NE) tube with proparacaine instilled into nostril, pre-measured from tip of nose to 7<sup>th</sup>-8<sup>th</sup> intercostal space with butterfly tape, 8Fr feeding tube directed medial and ventral then sutured to nasal planum with placement confirmed by lateral thoracic radiograph (28), GoLYTELY® administration via NE tube with 2 doses at 60 ml/kg or 1300ml at 2 hours apart, set-up/maintain/clean endoscope (22), collect/handle 12hr fasting serum sample refrigerated for GI panel submission (cPLI/TLI/cobalamin/folate/fecal protein assay) (18), implement prescribed analgesic plan for colonoscopy and surgery to follow with 0.5 mg/kg bupivacaine (0.5% or 5 mg/ml) administer 10.8 mg (2 ml) extradural in lumbosacral space (5)

Advanced Skills & Procedures I assisted: GI endoscopy/colonoscopy with biopsies (22)

Outcome Surgical removal of polyp and surrounding tissue after GI endoscopy/colonoscopy. Switched to novel protein diet and prednisone (10mg BID/0.46mg/kg). Owner declined oncology consult.

Case Log #		Date		Patient ID +/- or #	
[case log #]		[complete date]		757808	
Species	Breed	Sex	Age	Weight in Kg.	
Canine	Alaskan Malamute	F/S	10y	29	

Diagnosis Pancreatitis, Diabetic Ketoacidosis, Diabetes Mellitus

Advanced Skills & Procedures I performed: placed central line triple-lumen 5Fr jugular catheter (36), PT/aPTT with citrated whole blood (13), cystocentesis with 22g x 1” needle for sterile urine culture and urine sediment analysis (10), collect/handle serum (non-fasted sample) for cPLI (18), indirect arterial BP with Doppler/#5 cuff (41), place/maintain 8Fr x 90cm urinary foley catheter using sterile technique and connected to closed collection system with every 8hr maintenance by use of a 0.05% chlorhexidine solution to flush the vaginal vault with 12cc of solution and to wipe external portion of catheter with sterile 4x4s soaked in solution (39), monitor fluids in/outs by measurement of daily intake and administration of fluids to urine output and sensible losses (31), evaluate/monitor metabolic acidosis by arterial blood gas (ABG) results (43), implement analgesic plan (5), CRI at 0.1mEq/kg/hr (2.9 mEq/hr) of KCl (2 mEq/ml) in 1000ml at 86ml/hr (16ml additive), CRI with 4 mcg/kg/hr fentanyl (0.05 mg/ml) IV at 116mcg/hr (2.3ml/hr) (30)

Outcome Initially regulated on Humulin® N (NPH insulin) 14 Units SC every 12hr following a meal. Increased to 16U BID. UTI discovered on 5/23/12, treated with cephalexin (300mg/10.3mg/kg). Serial blood glucose curves at RDVM.

Case Log #		Date		Patient ID +/- or #	
[case log #]		[complete date]		755585	
Species	Breed	Sex	Age	Weight in Kg.	
Canine	English Setter	M	2y	24	

Diagnosis Pyothorax

Advanced Skills & Procedures I performed: collect/handle arterial blood sample into pre-heparinized syringe (7), evaluate ventilation/oxygenation/acid-base status using ABG- respiratory acidosis (43), place bilateral 8Fr intranasal oxygen cannulas premeasured to first premolar and inserted in ventral medial direction after administering several drops of proparacaine into each nostril (44), implement analgesic plan with 2.25 mg/kg lidocaine (2% or 20 mg/ml) administer 0.5 ml in intercostal nerves 5-9 for chest tube placement, (5), calculate/prepare CRI with 3 mcg/kg/hr fentanyl (50 mcg/ml) IV at 72 mcg/hr (1.44 ml/hr) (30), oxygen cage therapy 40%, implement anesthetic plan for CT scan (3), 0.01 mg/kg acepromazine (2 mg/ml) IV 0.21 mg (0.11 ml) and 2 mcg/kg fentanyl bolus IV 48 mcg (0.9 ml) and 5 mg/kg propofol (10 mg/ml) IV titrate 116 mg (11ml) and maintain on isoflurane/oxygen, management of continuous pleur-evac chest tube suctioning (47)

Advanced Skills & Procedures I assisted: therapeutic thoracocentesis: patient positioned sternal and area between 7<sup>th</sup> and 8<sup>th</sup> intercostal spaces prepared with sterile technique, supplies of 14g over-the-needle catheter attached to extension set and 3-way stopcock and 35cc syringe prepared (34)

Outcome      Median sternotomy, right caudal lung lobectomy, and partial mediastinal resection performed. Pyogranulomatous abscesses found, pyothorax most likely from a penetrating foreign body. Thrombocytopenia/anemia induced by trimethoprim sulfa administration (see case log #43).