

Emergency and Critical Care Continuing Education 2020-2021

Date	Type	Resident	Faculty	Section	Topic	Resources
Once per week until 8/25 - BR on Tuesdays at 8pm via Zoom until 8/25 then move to 3-4:30p Tuesdays. Second session 3-4p Thursdays. Zoom link: https://cornell.zoom.us/j/91750720516?pwd=RE81a2N5cjB2S3ZGdGMwYXRmDFNdz09 Meeting ID: 917 5072 0516 Password: eccboard						
7/7/20	BR	VC	RG	Neurology	Neurolocalization, congenital & degenerative malformations (hydrocephalus, chiari-like malformation, A-A lux, Wobblers, Degenerative Myelopathy, Lumbosacral stenosis)	Neurolocalization, congenital degenerative disease.docx
7/14/20	BR	TW	RG	Neurology	IVDD (all types, central cord syndrome), FCE, spinal neoplasia and trauma (vertebral luxations /fractures)	Acquired Myelopathies.pptx
7/21/20	BR	CT	RG	Neurology	Seizure management, clusters, status epilepticus	READING: SACCM: Chapters 82, 166, ACVIM 2015 seizure consensus, JVECC 2017 Status epilepticus review
7/28/20	BR	SG	RG	Neurology	TBI, brain tumors, vestibular disease	Vestibular Disease_TBI_Neoplasia BR.docx
8/4/20	BR	NH	RG	Neurology	Infectious/inflammatory (MUE/GME /NME, SRMA, diskospondylitis, cuterebra, toxo, neospora, distemper, crypto/fungal, rabies)	Infectious & Inflammatory Brain Disease.pptx
8/11/20	BR	AS		Neurology	Neuromuscular/ LMN Diseases (Myasthenia gravis, acute polyradiculoneuritis, tick paralysis, envenomations, botulism, neospora /tox, myositis/myopathies)	LMN .pptx
8/20/20	BR	JB	RG	Shock/Trauma	Physiology of shock & trauma	Pathophysiology of Shock and Trauma.pptx
8/25/20	BR	VC	RG	Shock/Trauma	Physiology of lactate	Reading: Either SACCM Ch 56 or Textbook of Small Animal Emergency Medicine Ch 156, JVECC 2018 Lactate review Lactate.pptx
Start two meetings per week: Board Review on Tuesdays at 3-4:30pm. Additional Session on Thursdays at 3-4pm. Faculty have a meeting the first Thursday of every month. Zoom link: https://cornell.zoom.us/j/91750720516?pwd=RE81a2N5cjB2S3ZGdGMwYXRmDFNdz09 Meeting ID: 917 5072 0516 Password: eccboard						
9/1/20	BR	JS		Shock/Trauma	Ischemia & reperfusion injury Approach to trauma in the ER/ICU (incl. global perspective, stabilization, initial treatment, diagnosis – comparing imaging modalities, etc.)	JVECC 2004 Ischemia-reperfusion injury review: Pt I and Pt II Textbook of SA Emergency Medicine Chapter 158 (Ischemia-reperfusion injury) JVECC 2006 Assessment and Management of the severely polytraumatized SA Patient review Recording of presentation: https://vod.video.cornell.edu/media/Board+Review/0_bbpcevce
9/3/20	AS	All	DF	Vent Sim	Respiratory mechanics	
9/8/20	BR	TW	RG	Shock/Trauma	Maxillo/frontal/facial trauma Cervical trauma (incl. subcutaneous emphysema, tracheal tear, pneumomediastinum, treatment of wounds in these regions, etc.) Appendicular trauma (eg general orthopedic & soft tissue principles) (TBI & spinal fx/lux discussed in Neurology Section) (Ocular trauma discussed in Ophtho section)	head-neck trauma.pptx jvet.2000.9138.pdf wound manag.pdf
9/10/20	AS	All	DF	Vent Sim	Respiratory mechanics	
9/15/20	BR	---	---	Off - IVECCS "week"	---	---
9/17/20	AS	All	---	Literature Review: all		
9/22/20	BR	All	All	What I learned at IVECCS		
9/24/20	AS	--	--	Cancelled	---	---

9/29/20	BR	KS	NP	Shock/Trauma	Thoracic trauma: thoracic wall, pleural space & parenchymal trauma (rib fractures, flail chest, pneumothorax, tension pneumothorax, pulmonary contusions, diaphragmatic hernias)	Thoracic Trauma.pptx
10/1/20	AS	--	---	Cancelled	--	--
10/6/20	BR	CT	RG	Shock/Trauma	Abdominal trauma: (organ laceration /rupture/entrapment; prepubic tendon rupture; hemoabdomen & uroabdomen stabilization & treatment)	Drobatz text: 84, 103 SACCM text: 138 JVECC uroabdomen review.pdf CT CUHA abd trauma.pdf
10/8/20	AS	All	---	Literature Review: all		Lit Review 10-8-2020.docx
10/13/20	BR	---	---	Postponed	---	
10/15/20	AS	TW	All	Journal Club: CURATIVE	CURATIVE.pptx CURATIVE GUIDELINES.docx	
10/20/20	BR	SG	GLS	Infectious Diseases	Part 1: Tick-borne/Rickettsial & Protozoal infections (lyme, rickettsia, ehrlichia, anaplasma, RMSF, babesia, giardia, coccidia, hemotropic mycoplasmas) (Toxoplasma & Neospora likely covered in Neuro section; Heartworm disease covered in Cardio section)	PowerPoint uploaded to Box
10/22/20	BR	SG	GLS	Infectious Diseases	Part 2 of above	
10/27/20	BR	SD	GLS	Infectious Diseases	Viruses: (FeLV, FIV, FIP, Panleuk, Feline URIs, Canine infectious tracheobronchitis, influenza, Parvoviral enteritis, Distemper, Rabies) (Distemper & Rabies likely covered in Neuro section)	viral diseases BR.pptx
10/29/20	BR	CT	All	Infectious Diseases	Bacteria & Fungal infectious (mycoplasma, brucella, botulism, tetanus, bartonella, blastomycoses, histoplasmosis, cryptococcus, coccidiomycosis, candida)	Bacterial and fungal infections CUHA.pdf
11/3/20	AS	All	DF	Vent Session 1/3	Over Zoom	
11/5/20	AS	All	All	Group Check-In	Over Zoom - brainstormed ideas for virtual vent sessions	
11/10/20	BR	NH	JM	Pharmacology	Part 1: Antibiotic Principles: (time vs concentration dependent; bactericidal vs static; classes, MOA & spectrum of action of antimicrobials; submitting cultures; breakpoints & interpreting MICs)	interpreting cultures and sensitivity in critical care- perks and pitfall jvecc.pdf antimicrobials PK:PD review .pdfjvecc review Stewart_et_al-2019-Journal_of_Veterinary_Emergency_and_Critical_Care.pdfPKPD for dose optimization iniCU.pdf
11/12/20	BR	NH	JM	Pharmacology	Part 2 of above	
11/17/20	AS	All	RG	Vent Session 2/3	Over Zoom with video on if possible	Ventilator variables Control variables - the variables you control: pressure, volume (https://derangedphysiology.com/main/cicm-primary-exam/required-reading/respiratory-system/Chapter%20534/control-variables-volume-and-pressure) Phase variables - determine the phases of the breath: trigger, limit, cycle, PEEP (https://derangedphysiology.com/main/cicm-primary-exam/required-reading/respiratory-system/Chapter%20533/phase-variables-triggering-limits) Triggers - https://derangedphysiology.com/main/cicm-primary-exam/required-reading/respiratory-system/Chapter%20535/triggering-mechanically-supported-breath Ventilator modes: https://derangedphysiology.com/main/cicm-primary-exam/required-reading/respiratory-system/Chapter%20541/modes-and-targeting-schemes Volume and pressure control: https://derangedphysiology.com/main/cicm-primary-exam/required-reading/respiratory-system/Chapter%20542/practical-differences-between-pressure-and-volume-controlled-ventilation Summary of modes: https://derangedphysiology.com/files/Modes%20of%20Mechanical%20Ventilation.pdf Tobin and Pilbeam are also good resources as well
11/19/20	BR	---	---	Postponed	---	---
11/24/20	AS	All	---	Mock exam-Cancelled	Neurology, Shock/Trauma, Infectious Diseases	Material Added to Next Mock Exam
11/26/20	AS	---	---	Thanksgiving	No additional session this week	

12/1/20	BR	JB	JM	Pharmacology	Use of specific antibiotics Reviews of treating common diseases (resp & urinary working group guidelines)	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jvim.14627 http://downloads.hindawi.com/journals/vmi/2011/263768.pdf
12/3/20	AS	All	NP	Benchmark Exam		
12/8/20	BR	AS	RG	Sepsis/SIRS- Cancelled	SIRS: classification & manifestation	Systemic pro-inflammatory response in sepsis.pdf Inflammatory response in sepsis.pdf SIRS review.pdf SIRS (StatPearls).pdf SIRS (Molecular pathophysiology).pdf
12/10/20	AS	All	---	Literature Review: all	Presenting: Chu, Beverly, Tong, Sands and Herrera	
12/15/20	BR	---	---	Postponed	---	---
12/17/20	BR	VC	JF	Sepsis/SIRS	Pathophysiology of Sepsis Part 1	Sepsis pathophysiology part 1.docx ppt version is in box folder
12/22/20	BR	JS	JF	Sepsis/SIRS	Pathophysiology of Sepsis Part 2	SACCM Chapt 6, 7, 24 Mechanisms and treatment of organ failure in sepsis.pdf Derangement of the endothelial glycocalyx in sepsis.pdf
12/24/20	AS	---	---	Christmas Eve	No additional session this week	
12/29/20	BR	---	---	Winter holiday	No session this week	
12/31/20	AS	---	---	New Year's Eve	No additional session this week	
1/5/21	BR	TW	RG	Sepsis/SIRS	Vasopressors: receptors, indications, side effects	Vasoactive agents.pptx vec.12282.pdf Nakata_et_al-2019-Journal_of_Veterinary_Pharmacology_and_Therapeutics.pdf vasopressin in dopamine resistant.pdf Recording: https://cornell.zoom.us/rec/share/nDxs9jWe03oAfgfa1UsalyqlpqyYSdWdjl2zNtErl-hpt-lzAGDRDfK3lBdPwD-N.aPFQ7hd-X8WwWb8P
1/7/21	AS	All	---	Literature Review: all	Presenting: Davis, Summers, Gradilla, Williams	Vet surg 12_2020 - 1_2021.pdf Lit Review 1.5.21.docx
1/12/21	BR	KS	RG	Sepsis/SIRS	Surviving Sepsis Campaign	Surviving Sepsis Campaign Presentation.pptx
1/14/21	BR	CT	RG	Sepsis/SIRS	Other pertinent human lit on Sepsis /SIRS	Sepsis literature BR cwt.pdf Ex of sources include New Eng J of Med, J of Crit Care Med
1/19/21	BR	SG	All	Sepsis/SIRS	Septic Peritonitis + vet med lit: part 1 of 2	Septic Peritonitis BR.pdf
1/21/21	BR	SD	SR	Sepsis/SIRS	Review of antibiotic selection in sepsis incl. HAI/MDR/MRSP/MRSA	Q&A of case studies selecting the best choices based on location of infection/type of infection prior to having a susceptibility panel back and then also after to revise our choices based on resistance. Q&A review antibiotic spectrums/penetration board review MDR.pptx
1/26/21	AS	NH	DF	Journal Club: Prospective eval of RECOVER	First 30 minutes to finish part 2 of SG's presentation	Prospective evaluation of CPR.pdf
1/28/21	AS	All	---	Mock Exam	Added Topics: Neurology, Shock /Trauma, Infectious Diseases Original Topics: Pharmacology, Sepsis/SIRS	
2/2/21	BR	PS		Respiratory Physiology	West Physiology Ch. 1, 2, 3	Additional sources: Levitsky's Pul Phys & Nunn's applied Resp Phys
2/4/21	AS	All	All	Residency App Discussion	---	---
2/9/21	BR	NH		Respiratory Physiology	West Physiology Ch. 4, 5, 6	Additional sources: Levitsky's Pul Phys & Nunn's applied Resp Phys Deranged physiology Haldane Effect Deranged physiology Bohr Effect Sixth cause of hypoxemia (decreased SvO₂)

2/11/21	AS	All	All	Vent Sims (1/3)	Katie, Sam and Tommy in person	
2/16/21	BR	JB		Respiratory Physiology- Postponed	West Physiology Ch. 7, 8, 9	
2/18/21	AS	JB		Respiratory Physiology	Rescheduled West Physiology Ch. 7,8,9	Additional sources: Levitsky's Pul Phys & Nunn's applied Resp Phys
2/23/21	BR	VC		Respiratory Physiology	Hypoxemia: pathophysiology, types of respiratory monitoring (arterial blood gas, spO2, capnography, advanced monitoring procedures)	Johnson's Canine and Feline Respiratory Medicine 2nd ed. SACCM Ch 21, 22, 26 uploaded to box
2/25/21	AS	All	All	Vent Sims (2/3)	Jeff and Jess in person	
3/2/21	BR	JS		Respiratory Physiology	Hypoxemia: types of oxygen supplementation & when a patient qualifies for each (O2 cage, nasal prongs, cannulas, high flow, mechanical vent)	Methods of oxygen supplementation FINAL.pptx
3/4/21	AS	All	All	Vent Sims (3/3)	Vicky and April in person	Recording: https://cornell.zoom.us/rec/share/wuamnm0aFpFt6QZsREFkINDTbH4Z0jxXPVA4hYX7zeoQNEntUIYagZZ5uxH3kV.7CYIWHrCClpVmX2E
3/9/21	BR	TW		Respiratory Physiology	Imaging modalities (XR, CT, fluoroscopy); Respiratory sampling (nasopharyngeal swab, TTW vs endotracheal wash, etc.); Interventional radiology; Documenting pharyngeal/tracheal/bronchial collapse & hiatal hernias; etc.	Imaging of Resp System.pdf
3/11/21	AS	All	---	Literature Review: all	Presenting: Chu, Beverly, Tong, Sands, Herrera, Sotos	Sotos Lit Review, J Vet Cardiol, 2 4 21.docx
3/16/21	BR	KS		Respiratory Physiology	Upper Respiratory Disease (stertor, stridor, bacterial/fungal/neoplastic /inflammatory rhinitis, foreign bodies, brachycephalic airway disease, laryngeal paralysis, laryngeal collapse/stenosis, tracheal collapse) (Upper Resp Infectious Diseases (Feline URIs & Infectious Tracheobronchitis) covered in Infect Dz section)	Recording: https://cornell.zoom.us/rec/share/_AoMXnfw5CsT2xuKnm9M_wMwSI9xwWXRbvEbvBtfkwGpQSS67_OW0O5N3Oy-AI.k0lbgBBezKwjNAHr
3/18/21	AS	JS		Journal Club: CRASH trials		
3/23/21	BR	CT		Respiratory Physiology	Lower Respiratory Disease (bronchial collapse, bronchiectasis, bronchomalacia, chronic bronchitis, feline asthma, bronchogenic pneumonia & other infectious diseases)	Lower resp tract dz BR 2021 cwt.pdf Johnson chapter 5, SACCM 20, 22,172; Drobatz 31, 33, 34, 37
3/25/21	AS	All	All	Literature Review: all	Presenting: Davis, Summers, Sotos, Gradilla, Williams	
3/30/21	BR	SD		Respiratory Physiology	Pulmonary Parenchymal Disease (pulmonary fibrosis/ILD, aspiration pneumonia, cardiogenic pulmonary edema, noncardiogenic pulmonary edema)	BR resp .pptx
4/1/21	AS	All	---	Literature Review: all	Presenting: Chu, Beverly, Tong, Sands	
4/6/21	BR	SG		Respiratory Physiology	Pulmonary hypertension (all types)	Pulmonary Hypertension BR SG 2021.pdf
4/8/21	AS	All	All	Vent Sims (1/3)		In person: Tong, Chu, Sands
4/13/21	BR	PS		Respiratory Physiology	Thoracic Wall & Pleural Space Disease (any of the thoracic trauma not covered in Shock/Trauma section; all types/causes pleural effusions; congenital pericardial /diaphragmatic hernia; etc.)	
4/15/21	AS	All	All	Vent Sims (2/3)		In person: Gradilla, Williams, Davis, Herrera
4/20/21	BR	NH		Respiratory Physiology	Pyothorax, Lung lobe torsion	
4/22/21	AS	All	All	Vent Sims (3/3)		In person: Summers, Sotos, Beverly
4/27/21	BR	JB		Respiratory Physiology	Smoke inhalation, carbon monoxide, oxygen toxicity	
4/29/21	AS	---	---	Cancelled	No meeting this week to allow for ECC resident meeting with Dean Warnick	---

5/4/21	BR	VC		Respiratory Physiology	ALI & ARDS	
5/6/21	AS	ALL	ALL	Radiology After Hours Discussion	after hours imaging discussion	ECC and Radiology Residents to attend
5/11/21	BR	JS		Respiratory Physiology	Physiology & Principles of Mechanical Ventilation	
5/13/21	AS	All	NP	Benchmark Exam	---	---
5/18/21	BR	All	SR/DF	Resident Physiology Rounds: Glycocalyx	Sepsis & the Endothelial Glycocalyx	Questions emailed by Dr. Fletcher
5/20/21	AS	TW		Respiratory Physiology	Ventilator Waveforms	Ventilatory waveforms in small animals.pdf SACCM - chapter 33 https://litfl.com/ventilator-waveform-analysis/dyssynchronies-table.pdf Ventilator Waveforms.pdf Monitoring Mechanical Ventilation Using Ventilator Waveforms - Jean-Michel Arnal
5/25/21	BR	KS		Renal Physiology /Clinical	Vanders Ch. 1-4 & drug MOA /receptors	
5/27/21	AS	All	---	Resident meeting to go over BR schedule		
6/1/21	BR	CT		Renal Physiology /Clinical	Vanders Ch. 5-7 & drug MOA /receptors	Renal phys (vanders 5-7).pdf
6/3/21	AS	All	---	Literature Review: all	Presenting: Davis, Summers, Sotos, Gradilla, Williams	
6/8/21	BR	SG		Renal Physiology /Clinical	Management of obstructive uropathies (feline urethral obstruction; canine urethroliths, cystoliths, ureteroliths, renoliths; neoplasia (TCC); hematuria)	Obstructive uropathies BR SG.pdf
6/10/21	AS	All	DF	Vent Sims (1/3)	Practice setting up new humidifier, etc.	In person & on Zoom
6/15/21		---	---	Meeting moved to 6 /17	---	---
6/17/21	BR	SD	JF	Renal Physiology /Clinical	Vanders Ch. 8-10 & drug MOA /receptors	Was originally Vent Sims (2/3) Dr. Goggs' recorded lecture on novel ventilator modes shared with group PPT with diagrams from Rose on urinary acid secretion vanders 8-10.pptx
6/22/21	BR	PS	JF	Renal Physiology /Clinical	AKI (causes- lepto, pyelonephritis, sepsis, NSAIDs, other drugs, grapes /raisins, pancreatitis, lyme nephritis, anesthesia, hypovolemic shock, ethylene glycol, lilies, ureteral obstruction, lymphoma, etc; diagnosis; treatment)	
6/24/21	AS	All	DF	Vent Sims (3/3)	Vent Sim	All welcome in person, also on Zoom
One meeting per week until after IVECCS - Board review on Tuesdays from 3-4:30pm						
6/29/21	BR	NH	JF	Renal Physiology /Clinical	CKD (differentiation from AKI; diagnosis; treatment; acute on chronic; terminal stages)	Acute on chronic cats.pdf Acute on chronic dogs.pdf
7/6/21	BR	JB	JF	Renal Physiology /Clinical	Hemodialysis, Peritoneal dialysis, CRRT (Part 1)	IHD VCNA 2011.pdf Anticoagulant in IHD VCNA 2011.pdf CRRT in Dogs and Cats with AKI or Acute on Chronic Dz JVECC 2008.pdf Current Techniques in PD JVECC 2013.pdf Vascular Access for ERRT VCNA 2011.pdf ERRT in Vet Med JVECC 2013.pdf CRRT VCNA 2011.pdf ERRT in ICU VCNA 2020.pdf Equipment in RRT VCNA 2011.pdf

7/13/21	BR	JB	JF	Renal Physiology /Clinical	Hemodialysis, Peritoneal dialysis, CRRT (Part 2)	IHD and Hemoperfusion for Cyclosporine Toxicity JVECCS 2018.pdf Ibuprofen IHD Hemoperfusion Foster JVECC 2016.pdf IHD.HP Cannabinoid Toxicity JVECC 2019.pdf TPE Carprofen JVECC 2018.pdf TPE in 11 NSAID Dogs JVIM 2019.pdf outcomes IHD Eatroff JAVMA 2012.pdf 2013-Dialysis-Drugs.pdf
7/20/21	BR	All	SR	Renal Physiology /Clinical	Renal Review with Dr. Robbins	Changed Mock Exam on Respiratory and Renal to a take home test to allow for Renal Review Session with Dr. Robbins