



Companion Animal Pain Management Practice (CAPMP) Fellowship

Curriculum

<i>Week</i>	<i>Subject</i>	<i>Approx hours of Instruction</i>
1	Introduction. Overview, expectations	1.00
	Critical review of literature as it pertains to diagnoses, therapeutics	2.00
2	Neuroanatomy, neuropharmacology, and neurophysiology and its relevance to multi-modal approach to pain.	4.00
	Common concepts	
	Canine	
	Feline	
4	Avian	1.00
	Exotic Companion Mammal (ECM) – Rabbits, ferrets, guinea pigs, etc.	2.00
	Reptile & Amphibian	1.00
5	Pharmacological management of pain.	
	Opioids	2.00
6	Nonsteroidal Anti-Inflammatory Drugs and Corticosteroids	2.00
	Analgesic delivery techniques and tools (transdermal patches, extended-release formulations, Intravenous infusions, wound infusion catheters, epidural cath/lines, nerve locators, ultrasounds etc.)	3.00
7-8	Locoregional anesthesia	3.00
9	α -2 Adrenoceptor agonists	1.00
	NMDA antagonist	1.00
10	Adjunct	4.00
	gabapentenoids, SSNRI, TCA, tramadol, cannabinoids, APAP, more; parenterally: systemic lidocaine, maropitant, bisphosphonates, anti-NGF MABs; intra-articular: biologics like stem cell, PRP, others; Tn-117, RTX, IL-10, even just steroids. Ca channel blockers.	
11	opioid free analgesia (multimodal approach)	0.50

12	Non-pharmacological approaches to pain management	
	Fear, Anxiety, and Stress (FAS) approaches	2.00
13	Physical Rehabilitation, Therapeutic Exercise	4.00
14	Complementary and Alternative Medicine (CAM)	2.00
	Acupuncture	2.00
	Photobiomodulation	1.00
	Cryotherapy	1.00
	Other	3.00
	Pulsed Electro-Magnetic Field (PEMF), Pulsed acoustic sound therapy, nutrition and supplements, TENS, Trigger point pressure and massage, Supplements TENS can be included. Other topics to add are Trigger point pressure and massage, quality nursing care	
15	Recognition, Diagnosis, Assessment/Measurement of pain	
	Behavioral (postural) changes associated with acute pain in cats and dogs; dysphoria vs pain	0.50
	Ultrasound in pain diagnosis	0.50
16	Clinical Metrology Instruments: Post-Surgical Pain Clinical Metrology Instruments: OA-Related Pain Other: Visual Analog Scales Numerical Rating Scales Quantitative Sensory Testing Activity Monitors PainTrace (TM) thermography	4.00
	Pain scoring	2.00
17	Musculoskeletal pain	2.00
18	Acute pain	2.00
19-21	Chronic pain (osteoarthritis, etc.)	4.00
22	Surgery related pain	2.00
23	Neuropathic Pain & Pain with Neuropathic Components	2.00
24	Neoplastic related pain	2.00
25	Dental pain	2.00
	Wind-up pain (Covered elsewhere)	

	Examples and discussion on various medical and surgical conditions and their expected perceived level of pain in cats and dogs (mild to moderate/ severe/ excruciating)	0.50
26-27	Clinical Management of pain	
28	CRI	1.00
29-31	Analgesic consideration for specific comorbidity/conditions (such as CKI, Hepatopathy, lactation, pregnancy, neonatal etc.)	3.00
32	Topic covering regulatory and ethical issues- such as issue in lab animal, government guidelines	0.50
33	Expected or desired outcomes of pain management	1.00
34	Effectively Implementing pain protocols in clinic	2.00
35	Musculoskeletal pain +/- rehab	2.00
36-37	Monitoring for treatment efficacy (both chronic and acute- some may be covered already in other topics)	0.50
38	Dermatological conditions causing pain and its management (e.g., mange, pruritis, ear disease, burn, snake bite, necrotizing fasciitis)	0.50
39	Acute pain	4.00
40	Peri-surgical	
	Traumatic (including special instances of shock, TBI)	
	Medical pain management (e.g., pancreatitis, gastroenteritis, IVDD, FIC/Pandora, bicipital tenosynovitis, etc. etc.)	
41-42	Chronic pain	6.00
43-45	OA	
	Other chronic injury/ inflammatory e.g., LPS cats, dental, ocular, derm;	
	Myriad of other chronic musculoskeletal conditions e.g., iliopsoas	
	Neurogenic/neurologic e.g., IVDD	
	Neoplasia (OSA, other)	
	Idiopathic: e.g., Feline Hyperesthesia, FOPS, other	
	Exotics	
	Surgery related pain	2.00

	Neuropathic pain	2.00
	Neoplastic related pain	2.00
46	Introduction and discussion on salient/new points from recent major review articles and Guidelines (WSAVA, AAFP, AAHA)	2.00
47	Salvage surgical procedures (denervation, limb amputation, arthrodesis, excision arthroplasty, total joint replacement)	1.00
48-50	Case Studies	4.50