Neoplastic and Inflammatory Myelopathies

Etiology	Neoplasia	Infectious/Non-Infectious	Autoimmune / Inflammatory
Signalment	Often old but 30% young	GME: young to middle aged small breed	Discospondylitis
	Any breed especially large breed dogs		Young to middle-aged larger breed dogs
	Chronic signs (+/- acute decline)	SRMA: Large breed dogs (boxers, BMD,	Acute or chronic
	Most common localization:	Golden Retriever, Beagles)	Fever and weight loss 30%
	C1-C5 and T3-L3	Young <2 years old	Spinal pain
			+/- neurologic signs
Location	Primary Tumors	Disseminated GME (signs referrable to at	Disko: Infection of disc end plates
	Vertebral body	least two of the following)	IgA deficiency in certain breeds
	Spinal Cord	Optic nerve, Forebrain, Cerebellum,	(Airedales and GSD)
	Intramedullary, intradural-	Spinal Cord, Meninges	Penetrating wound, trauma, migrating
	extramedullary (meningioma),		grass awns, dental disease
	extradural	SRMA: Leptomeninges and arterioles,	Bacterial (Brucella canis)
		most often affecting the cervical spinal	Fungal (Aspergillus, Coccidioides)
	Secondary Tumors	cord	
	Metastatic: Vertebral Body, Spinal		
	Cord		
	Lymphoma		
Types	<u>Meningioma</u>	Myelitis	<u>Spine</u>
	Common in old dogs	Viral (distemper, rabies)	Diskospondylitis
	C1-C5	Bacterial (migrating grass awns,	Vertebral physitis
	Often Surgical	penetrating wounds)	Empyema
	N. 1. 11 .	Fungal (Aspergillus, cryptococcus)	0 1 10 1
	Nephroblastoma	Protozoal (rare: toxoplasmosis,	Spinal Cord
	T3-L3 in young dogs	neosporosis)	Infectious Meningomyelitis
	Often surgical	N. C. C. M 1'c'	
	Catan Office Insurant and 11	Noninfectious Meningomyelitis	
	Cats: Often lymphoma or glioma	Meningoencephalomyelitis of unknown	
	Doninh and Nouve Clearth Trees	origin (MUO)	
	Peripheral Nerve Sheath Tumors	Steroid Responsive Meningitis Arteritis	
	Large breeds C6-T2	(SRMA)	

	Often present with pain and lameness		
Clinical Signs	Often present with pain and lameness PNST: Nerve root signature Lameness due to nerve pain Actively holding up limb, not mechanical C6-T2, L4-S3	GME: Acute, progressive, non-specific multifocal intracranial and/or spinal signs, may have fever, no pathognomic signs SRMA: Main sign is cervical pain Dullness/lethargy Stiff gait	Acute or chronic Fever and weight loss 30% Spinal pain +/- neurologic signs
		Often febrile +/- IMPA NO Neuro Deficits	
Diagnosis	Thoracic and abdominal rads to r/o metastasis Spinal radiographs Imaging: MRI, CT for RT planning CSF	GME: histopathology SRMA: Rule out other diseases (Chem, CBC, UA), vertebral rads, MRI CSF: Neutrophilic pleocytosis, elevated protein	Disko: Spinal radiographs CT/MRI Serology-Brucella Echocardiography r/o endocarditis
Treatment	Steroids Surgery Radiation Surgery and Radiation (often best prognosis)	GME: Immunosuppression, monitor clinical signs, Recheck CSF SRMA: Immune suppression, steroids, monitor clinical signs and recheck CSF Good prognosis, many taper off meds, may relapse	Activity restriction Pick drugs based on culture/sensitivity but can treat empirically with Cephalexin or TMS +/- NSAIDS and analgesics *Long tx course! 6mo to 1 yr Recheck rads q 2-3 months Patients should feel better within 1-2 weeks but do not stop the treatment