

Klas-DX61 Laser Therapy Protocol - Small Animals

Terminology:

- 3+2+1 = Three treatments the first week, two the second, and one the third
- "Acute" generally refers to an orthopedic condition that is less than 10 days old, or a medical condition 1~2 days old.
- "Chronic" generally refers to an orthopedic condition that is more than 10 days old or a medical condition more than 2 days old.
- Maintenance = 1 treatment every 2~4 weeks
- NR = Not Recommend



	Therapy Time (sec.)		ime (sec.)		
			Cap-C, D Cap-S		
			Irradiation		
	Frequency		0.5	7 cu (c)	
		Dose (J/cm²)	Laser Power (mW)		Notes
Indication			150 150		
			End Power (mW)		
			i		
			120 75 Power Density (mW/cm²)		
				1	
			240	25	
Abscess Incision	1/day for 4~5 days	4	17	160	
Drainage and Flush Abscess					
with Cellulitis, Incision,	1/day for 5~6 days	4	17	160	
Drainage, and Flush					
Allergic Pododermatitis	2~3/week or 3+2+1	3	13	120	
Amputation	Immediate	4	NR	160	Post Surg 1x, Acute pain 2-3 days
Anal Sacculitis / Acute	2~3/week or 3+2+1	4	17	160	
Anal Sacculitis / Chronic	2~3/week or 3+2+1	3	13	120	
Anterior Cruciate Ligament Tear	2/	1	12	120	
- Chronic	2/week	3	13	120	
Anterior Cruciate Ligament Tear,	2 . 2 . 1	4		160	
Full - Acute	3+2+1	4	17	160	
Anterior Cruciate Ligament Tear,	0/				1~3/week for 3 weeks. Exercise
Partial - Acute	3/week	4	17	160	restriction
Arthritic Conditions	2~3/week or 3+2+1	4	17	160	Maintenance
					Acute inflammation 1x Immobilize
Aural Hematoma(Post Surgery)	1/day	3	NR	120	ear, treat cause
	1/day for 3~5 days				,
Burns	then 2~3/week until	4	NR	160	
	healed	•			
Cauda Equina Syndrome	3+2+1	5	21	200	Maintenance
Cystitis/Interstitial	3+2+1	4	17	160	3~4 weeks
Cystitis/Urethritis/Feline Lower		•	.,		
Urinary Tract Disease	3+2+1	4	17	160	Maintenance
Cystotomy	During surgery	4	17	160	Maintenance as needed
Cystotomy	1/day for 3~5 days	•		100	Wallterlance as needed
Decubital Ulcers	then 2~3/week until	3	NR	120	
Decubital Olcers	healed	,			
	1/day for 3~5 days		21		
Degenerative Disc Disease	then 2~3/week	5		200	
Domanarativa laint Disassa	2~3/week or 3+2+1	5	21	200	Maintanana
Degenerative Joint Disease		Э	21	200	Maintenance
Degloving Wounds	1/day for 3~5 days	4	17	160	2. Aurocks
	then 2~3/week until	4	17	160	3~4 weeks
D. d. Brand	healed		ND	1.60	
Dewclaw Removal	Immediately post-op	4	NR	160	
Dorsolateral Hemilaminectomy	Immediately post-op,	4	17	160	
	then 2~3x more				
Edema	1-2x	5	21	200	
Enterotomy	During surgery	4	17	160	
Litterotomy	2~3/week or 3+2+1	7		. 30	



Indication	Executores	Dose	Therapy Time (sec.)		Notes
indication	Frequency	(J/cm²)	Cap-C, D	Cap-S	Notes
Feline Acne	Post surgical 1x	3	13	120	Be careful of thyroid
Feline Declaw	Immediately post-op	3	13	120	Also next day if in hospital
Feline Tail Pull injuries	2~3/week or 3+2+1	3	13	120	
Femoral Head Ostectomy	Immediately post-op	3	13	120	Also next day if in hospital
FLUTD(Feline Lower Urinary					3+2+1 for cystitis if needed(will not
Tract Disease) - Blocked Urethra	1x to relieve blockage	3	13	120	break up crystals but small ones
·					may pass)
Fractures - After Surgery	2~3/week or 3+2+1	4	17	160	
Gingivitis	2~3x, based on	3	13	120	Determine acute or chronic
-	severity				
Hernia Repair	2~3/week or 3+2+1	5	21	200	(Not a substitute for cleaning)
Hip Dysplasia	2~3/week or 3+2+1	5	21	200	Post-op
Hot Spots	3+2+1	5	21	200	Every 3~4 weeks as needed
Inflammatory Bowel Disease	2~3/week or 3+2+1	5	21	200	Treat with other modalities,
illiaminatory bower bisease	2**5/ WEEK OF 5+2+1	,	21	200	pharmaceuticals
Insect Bite/Snake Bite	1x, may need 3+2+1	3	NR	120	1~3x, depending on bite severity
Intervertebral Disc Disease	2~3/week or 3+2+1	8	33	320	May need follow up treatment
Intra-abdominal	1x during Surgery	5	NR	200	
Joint Injury - Acute	Once - up to 6x	8	33	320	Frequently improves after 1
Joint Injury - Acute	Office - up to 0x		33	320	treatment
Lesions	2~3/week or 3+2+1	4	17	160	
Lick Granulomas	Daily or 2~3/week or	3	13	120	Depends on size
Lick Grandiomas	3+2+1	,	13	120	Depends on size
Luxating Patella	3+2+1	5	21	200	Treat after surgery, not as a
	3+2+1	,	21	200	substitute
Musculoskeletal Pain	1~3x, once daily	5	21	200	
Myofascial Pain	2~3/week or 3+2+1	5	21	200	
Nerve Regeneration	2~3/week or 3+2+1	5	21	200	
Neuropathies	2~3/week or 3+2+1	5	21	200	
Orchiectomy Canine and Feline	Immediately post-op	4	17	160	
Oremectority carrine and reline	1x				
Otitis - Acute	2~3/week or 3+2+1	5	21	200	Then every 3~4 weeks, if chronic
Otitis External - w/infection	2~3/week or 3+2+1	5	21	200	
Otitis External - w/o Infection	2~3/week or 3+2+1	5	21	200	
Otitis Media / External - Chronic	2~3/week	3	13	120	3+2+1, then once every 3~4 weeks
		,	13	120	31211, then once every 3 4 weeks
Ovariohysterectomy Canine and	Immediately post-op	5	NR	200	
Feline	1x	,	1411	200	
Perianal Fistulas	1/day for 3~5 days	3	13	NR	Use with pharmaceuticals
	then 2~3/week				•
Periodontal Diseases	2~3/week or 3+2+1	3	13	120	Determine acute or chronic
Staph Infections - Local	2/week	3	NR	120	
Sterile Pyogranulomatous	Daily for 2~3x, then				
Syndrome pyogranuloma /	2~3/week	3	13	120	
granuloma	27°3/WEEK				
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	160	
Stomatitis	Daily (Depends how	3	13	120	Can also use 3+2+1 (6~12
	chronic)				treatments, then maintenance)
Tendon & Ligament Injury	2~3/week or 3+2+1	5	21	200	
Tightrope/Extracapsular	3+2+1	5	21	200	Wait 6 weeks for scar to form, then
rigittiope/Extracapsular			۷1	200	Chronic inflammation
Traumatic & Overuse Injuries	2~3/week or 3+2+1	5	21	200	
Trigger Point		3	13	NR	Repeat every 2 days until
					disappearance of reactivity
Vasculitis - Non-infectious	2~3/week or 3+2+1	5	21	200	Be careful of possible thrombosis
Wounds	3~5/day	5	NR	200	Decrease treatments as healing
Touries	3 3/day	,	INIT	200	progresses



Klas-DX82 Laser Therapy Protocol - Small Animals

Terminology:

- 3+2+1 = Three treatments the first week, two the second, and one the third
- "Acute" generally refers to an orthopedic condition that is less than 10 days old, or a medical condition 1~2 days old.
- "Chronic" generally refers to an orthopedic condition that is more than 10 days old or a medical condition more than 2 days old.
- Maintenance = 1 treatment every 2~4 weeks
- NR = Not Recommend



Indication				Therapy 1	Time (sec.)	
Indication				- /		
Indication				•	•	
Indication					Area (cm ⁻)	
Indication			Daga		3	
End Power (mW) 200 100 100 Power (pressity (mW/cm²) 200 100 Power (pressity (mW/cm²) 200 33 20 20 20 20 20 2	Indication	Frequency				Notes
Abscess Incision						
Power Density (mW/cm²) 400 33 32 33 33 34 34 35 35 35 35				End Pow	ver (mW)	
Abscess Incision						
Abscess Incision 1/day for 4~5 days 4 10 120				Power Densi	ty (mW/cm²)	
Drainage and Flush Abscess 1/day for 5~6 days 4 10 120				400	33	
1/day for 5~6 days 4 10 120	Abscess Incision	1/day for 4~5 days	4	10	120	
Drainage, and Flush Allergic Pododermatitis 2-3/week or 3+2+1 3 8 90 NR 120 Post Surg 1x, Acute pain 2-3 days Anal Sacculitis / Acute 2-3/week or 3+2+1 4 10 120 Anal Sacculitis / Chronic 2-3/week or 3+2+1 3 8 90 Anterior Cruciate Ligament Tear 2/week 3 8 90 Anterior Cruciate Ligament Tear 3+2+1 4 10 120 Anterior Cruciate Ligament Tear 3/week 4 10 120 I-3/week for 3 weeks. Exercise Partial - Acute Anterior Cruciate Ligament Tear 3/week 4 10 120 I-3/week for 3 weeks. Exercise Partial - Acute Anterior Cruciate Ligament Tear 3/week 4 10 120 I-3/week for 3 weeks. Exercise Partial - Acute Anterior Cruciate Ligament Tear 3/week 4 10 120 Maintenance Acute inflammation 1x Immobilize Aural Hematoma(Post Surgery) 1/day 3 NR 90 Acute inflammation 1x Immobilize Aural Hematoma(Post Surgery) 1/day for 3-5 days then 2-3/week until healed Acute inflammation 1x Immobilize Acute inflammation 1x Immo	Drainage and Flush Abscess					
Allergic Pododermatitis 2~3/week or 3+2+1 3 8 90 Amputation Immediate 4 NR 120 Post Surg 1x, Acute pain 2-3 days Anal Sacculitis / Acute 2~3/week or 3+2+1 4 10 120 Anal Sacculitis / Chronic 2~3/week or 3+2+1 3 8 90 Anterior Cruciate Ligament Tear, Full - Acute 3 8 90 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Arthorior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Arthorior Cruciate Ligament Tear, Full - Acute 4 10 120 Maintenance Arthorior Cruciate Ligament Tear, Full - Acute 4 10 120 Acute inflammation 1x Immobilize ear, treat cause Burns tear Surgeria <td>with Cellulitis, Incision,</td> <td>1/day for 5~6 days</td> <td>4</td> <td>10</td> <td>120</td> <td></td>	with Cellulitis, Incision,	1/day for 5~6 days	4	10	120	
Amputation Immediate 4 NR 120 Post Surg 1x, Acute pain 2-3 days Anal Sacculitis / Chronic 2~3/week or 3+2+1 4 10 120 Anterior Cruciate Ligament Tear - Chronic 2/week 3 8 90 Anterior Cruciate Ligament Tear, Full - Acute 3+2+1 4 10 120 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 1~3/week for 3 weeks. Exercise restriction Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 1~3/week for 3 weeks. Exercise restriction Arterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Maintenance Anterior Cruciate Ligament Tear, Full - Acute 4 10 120 Maintenance Anterior Cruciate Ligament Tear, Full - Acute 4 10 120 Maintenance Anterior Cruciate Ligament Tear, Full - Acute 4 10 120 Maintenance Aural Hematoma(Post Surgery) 1/day for 3~5 days 4 NR 120 Maintenance Cystit	Drainage, and Flush					
Anal Sacculitis / Acute Anal Sacculitis / Chronic Anal Sacculitis / Chronic Anterior Cruciate Ligament Tear - Chronic Anterior Cruciate Ligament Tear, Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Anterior Cruciate Ligament Tear, Partial - Acute Anterior Cruciate Ligament Tear, Partial - Acute Arthritic Conditions 2 ~3/week or 3+2+1 4 10 120 1 ~3/week for 3 weeks. Exercise restriction Arthritic Conditions 2 ~3/week or 3+2+1 4 10 120 Aural Hematoma(Post Surgery) 1 /day for 3 ~5 days then 2 ~3/week until healed Cauda Equina Syndrome Cystitis/Interstitial 3 +2+1 5 13 150 Aintenance Cystitis/Urethritis/Feline Lower Urinary Tract Disease Cystotomy During surgery 1 /day for 3 ~5 days then 2 ~3/week until healed Degenerative Disc Disease 1 /day for 3 ~5 days then 2 ~3/week until healed Degenerative Joint Disease 2 -3/week or 3+2+1 5 13 150 Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance 1 /day for 3 ~5 days then 2 ~3/week until healed Degenerative Joint Disease 1 /day for 3 ~5 days then 2 ~3/week until healed Degenerative Joint Disease 1 /day for 3 ~5 days then 2 ~3/week until healed Degloving Wounds 1 /day for 3 ~5 days then 2 ~3/week until healed Dewclaw Removal Immediately post-op then 2 ~3/week until healed Dorsolateral Hemilaminectomy Edema 1 /2x During surgery 4 10 120 Maintenance 3 ~4 weeks 4 10 120 Maintenance 4 10 120 Mai	Allergic Pododermatitis	2~3/week or 3+2+1	3	8	90	
Anal Sacculitis / Chronic 2~3/week or 3+2+1 3 8 90 Anterior Cruciate Ligament Tear Chronic 2/week 3 8 90 Chronic Cruciate Ligament Tear, Full - Acute 3+2+1 4 10 120 Anterior Cruciate Ligament Tear, Full - Acute 3/week 4 10 120 Arthritic Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Aural Hematoma(Post Surgery) 1/day 3 NR 90 Acute inflammation 1x Immobilize restriction Burns 1/day for 3~5 days then 2~3/week until healed 4 NR 120 Acute inflammation 1x Immobilize ear, treat cause Cauda Equina Syndrome 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 5 13 150 Maintenance Cystitis/Jorethritis/Feline Lower Urinary Tract Disease 3+2+1 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Cystitis/Urethritis/Feline Lower Urinary Tract	Amputation	Immediate	4	NR	120	Post Surg 1x, Acute pain 2-3 days
Anterior Cruciate Ligament Tear - Chronic Anterior Cruciate Ligament Tear, - Chronic Anterior Cruciate Ligament Tear, Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Arthritic Conditions 2~3/week or 3+2+1	Anal Sacculitis / Acute	2~3/week or 3+2+1	4	10	120	,
Anterior Cruciate Ligament Tear - Chronic Anterior Cruciate Ligament Tear, Full - Acute Anterior Cruciate Ligament Tear, Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Anterior Cruciate Ligament Tear, Partial - Acute Arthritic Conditions Aural Hematoma(Post Surgery) 1/day 1/day for 3~5 days then 2~3/week until healed Cauda Equina Syndrome Cystitis/Interstitial Cystitis/Interstitial Cystitis/Interstitial Cystitis/Interstitial Cystitis/Interstitial Cystitis/Interstitial Cystitis/Interstitial Cystotomy During surgery During surgery Decubital Ulcers Degenerative Disc Disease Degenerative Joint Disease 1/day for 3~5 days then 2~3/week until healed Dewclaw Removal Immediately post-op, then 2~3x more Edema 1-2x During surgery A 10 120 1~3/week for 3 weeks. Exercise restriction 10 120 Aliantenance Acute inflammation 1x Immobilize ear, treat cause 1 NR 90 Acute inflammation 1x Immobilize ear, treat cause Acute inflammation 1x Immobile e	Anal Sacculitis / Chronic	2~3/week or 3+2+1	3	8	90	
- Chronic Anterior Cruciate Ligament Tear, Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Anterior Cruciate Ligament Tear, Partial - Acute Anterior Cruciate Ligament Tear, Partial - Acute Archiric Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Acute inflammation 1x Immobilize ear, treat cause 1/day for 3~5 days then 2~3/week until healed Systics/Interstitial 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 4 10 120 Maintenance Cystitis/Interstitis/Petheritis/Feline Lower Urinary Tract Disease Cystomy During surgery 4 10 120 Maintenance as needed 1/day for 3~5 days then 2~3/week until healed Systics Interstitial 3 NR 90 Maintenance Cystitis/Interstitial 3 NR 90 Maintenance Cystitis/Urethritis/Feline Lower Urinary Tract Disease Cystomy During surgery 4 10 120 Maintenance Maintenance Cystics Urice System System 2~3/week until healed System System 2~3/week until healed System Sys	Anterior Cruciate Ligament Tear	2/ 1	,		00	
Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Arthritic Conditions 2~3/week or 3+2+1 4 10 120 1-20 restriction Arthritic Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Acute inflammation 1x Immobilize ear, treat cause 1/day for 3~5 days then 2~3/week until healed Cauda Equina Syndrome Cystitis/Interstitial 3+2+1 Cystitis/Interstitial 3+2+1 Degenerative Disc Disease Degenerative Joint Disease Degloving Wounds Descriptions Descriptions Descriptions Descriptions Descriptions During surgery Anterior Acute inflammation 1x Immobilize ear, treat cause Acute inflammation 1x Immobili	_	2/week	3	8	90	
Full - Acute Anterior Cruciate Ligament Tear, Partial - Acute Arthritic Conditions Arthritic Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Acute inflammation 1x Immobilize ear, treat cause 1/day for 3~5 days then 2~3/week until healed Cauda Equina Syndrome Cystitis/Interstitial Cystitis/Interstitial Decubital Ulcers Degenerative Disc Disease Degenerative Joint Disease Degloving Wounds Description Dorsolateral Hemilaminectomy Edema 1-2x Salveek or 3+2+1 4 10 120 Maintenance Acute inflammation 1x Immobilize ear, treat cause NR 120 Maintenance Acute inflammation 1x Immobilize ear, treat cause NR 120 Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance 1/day for 3~5 days 10 120 Maintenance 1/day for 3~5 days 11 150 Maintenance	Anterior Cruciate Ligament Tear,					
Anterior Cruciate Ligament Tear, Partial - Acute 3/week 4 10 120 1~3/week for 3 weeks. Exercise restriction Arthritic Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Aural Hematoma(Post Surgery) 1/day 3 NR 90 Acute inflammation 1x Immobilize ear, treat cause Burns 1/day for 3~5 days then 2~3/week until healed 4 NR 120 Cauda Equina Syndrome 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 4 10 120 3~4 weeks Cystitis/Urethritis/Feline Lower 3+2+1 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Degenerative Disc Disease 1/day for 3~5 days then 2~3/week until healed 3 NR 90 90 Degloving Wounds 1/day for 3~5 days then 2~3/week 5 13 150 Maintenance <t< td=""><td>_</td><td>3+2+1</td><td>4</td><td>10</td><td>120</td><td></td></t<>	_	3+2+1	4	10	120	
Partial - Acute 3/Week 4 10 120 restriction Arthritic Conditions 2~3/week or 3+2+1 4 10 120 Maintenance Aural Hematoma(Post Surgery) 1/day 3 NR 90 Acute inflammation 1x Immobilize ear, treat cause Burns 1/day for 3~5 days then 2~3/week until healed 4 NR 120 Cauda Equina Syndrome 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 4 10 120 3~4 weeks Cystitis/Urethritis/Feline Lower Urinary Tract Disease 3+2+1 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Cystotomy 1/day for 3~5 days then 2~3/week until healed 3 NR 90 Degenerative Disc Disease 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Degloving Wounds then 2~3/week until healed 4 10 120 3~4 weeks Dorsolateral Hemilaminectomy Immediately						1~3/week for 3 weeks Exercise
Arthritic Conditions 2~3/week or 3+2+1	_	3/week	4	10	120	
Aural Hematoma(Post Surgery) 1/day 3 NR 90 Acute inflammation 1x Immobilize ear, treat cause Burns 1/day for 3~5 days then 2~3/week until healed 4 NR 120 Cauda Equina Syndrome 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 4 10 120 3~4 weeks Cystitis/Urethritis/Feline Lower Urinary Tract Disease 3+2+1 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance as needed Decubital Ulcers then 2~3/week until healed 3 NR 90 90 Degenerative Disc Disease 1/day for 3~5 days then 2~3/week 5 13 150 Maintenance Degloving Wounds then 2~3/week or 3+2+1 5 13 150 Maintenance Dewclaw Removal Immediately post-op, then 2~3/week until healed 4 10 120 3~4 weeks		2~3/week or 3+2+1	4	10	120	
Aural Hematoma(Post Surgery) 1/day 3					120	
1/day for 3~5 days then 2~3/week until healed	Aural Hematoma(Post Surgery)	1/day	3	NR	90	
Burns		1/day for 3~5 days				car, treat eadse
healed Squira Syndrome 3+2+1 5 13 150 Maintenance	Rurns	-	4	NR	120	
Cauda Equina Syndrome 3+2+1 5 13 150 Maintenance Cystitis/Interstitial 3+2+1 4 10 120 3~4 weeks Cystitis/Urethritis/Feline Lower Urinary Tract Disease 3+2+1 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Cystotomy During surgery 4 10 120 Maintenance Decubital Ulcers 1/day for 3~5 days then 2~3/week until healed 3 NR 90 90 Degenerative Disc Disease 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance Degenerative Joint Disease 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance Degloving Wounds 1/day for 3~5 days then 2~3/week until healed 4 10 120 3~4 weeks Dewclaw Removal Immediately post-op, then 2~3x more 4 10 120 3~4 weeks	Burns		7	INIX	0	
Cystitis/Interstitial 3+2+1 4 10 120 3~4 weeks Cystitis/Urethritis/Feline Lower Urinary Tract Disease Cystotomy During surgery 1/day for 3~5 days then 2~3/week until healed Degenerative Disc Disease Degenerative Joint Disease 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Degloving Wounds Dewclaw Removal Immediately post-op, then 2~3x more Edema 1-2x 5 13 150 During surgery 10 120 3~4 weeks 120 120 120 120 120 120	Cauda Equina Syndrome		5	12	150	Maintenance
Cystitis/Urethritis/Feline Lower Urinary Tract Disease Cystotomy During surgery 4 10 120 Maintenance 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Degloving Wounds Maintenance Maintenance NR 150 Maintenance Maintenance NR 150 Maintenance Maintenance NR 150 Maintenance NR 150 Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 120 120 120 120 120 120 120 120						
Urinary Tract Disease Cystotomy During surgery 1/day for 3~5 days then 2~3/week until healed Degenerative Disc Disease Degenerative Joint Disease Degloving Wounds Degloving Wounds Dewclaw Removal Demcharative Disc Disease Demcharative Disc Disease 1/day for 3~5 days then 2~3/week 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed Demcharative Disc Disease 1/day for 3~5 days then 2~3/week until healed 1/day for 3~5 days then 2~3/week 10 120 3~4 weeks 10 120 Dorsolateral Hemilaminectomy then 2~3x more 1/day for 3~5 days then 2~3/week 10 120 1/day for 3~6 days then 2~6 da		JTZT1		10	120	J4 Weeks
Decubital Ulcers Decubital Ulcers Degenerative Disc Disease Degenerative Joint Disease Degloving Wounds Dewclaw Removal Dewclaw Removal During surgery A 10 120 Maintenance as needed NR 90 ANR 90 ANR 90 Balead 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 And Dewclaw Removal Dewclaw Removal Immediately post-op then 2~3x more Edema During surgery During surgery During surgery During surgery Dewclaw Removal During surgery During surgery During surgery During surgery Dewclaw Removal During surgery	1 *	3+2+1	4	10	120	Maintenance
Decubital Ulcers 1/day for 3~5 days then 2~3/week until healed Degenerative Disc Disease 1/day for 3~5 days then 2~3/week Degenerative Joint Disease 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week until healed Degloving Wounds 1/day for 3~5 days then 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week until healed NR 120 3~4 weeks Dewclaw Removal Immediately post-op then 2~3x more Edema 1-2x 5 13 150 During surgery 10 120		During curgon/	1	10	120	Maintenance as needed
Degenerative Disc Disease Degenerative Joint Disease Degloving Wounds Dewclaw Removal Dewclaw Removal Descriptors of then 2~3/week until healed Dewclaw Removal Dorsolateral Hemilaminectomy Dewclaw Removal Dorsolateral Hemilaminectomy During surgery During surgery During surgery Dewclaw Removal During surgery During surgery During surgery Dewclaw Removal During surgery During surgery Dewclaw Removal Dewclaw Removal During surgery During surgery During surgery Dewclaw Removal Dewclaw Removal During surgery During surgery During surgery Dewclaw Removal During surgery During surgery Dewclaw Removal Dewclaw Removal During surgery During surgery During surgery Dewclaw Removal During surgery During surgery Dewclaw Removal During surgery During surgery During surgery Dewclaw Removal During surgery During surgery Dewclaw Removal During surgery During surgery Dewclaw Removal During surgery Dewclaw Removal During surgery Dewclaw Removal Dewclaw Remov	Cystotomy		7	10	120	Maintenance as needed
healedDegenerative Disc Disease1/day for 3~5 days then 2~3/week513150Degenerative Joint Disease2~3/week or 3+2+1513150Maintenance1/day for 3~5 days Degloving Wounds1/day for 3~5 days then 2~3/week until healed4101203~4 weeksDewclaw RemovalImmediately post-op then 2~3x more4NR120Dorsolateral HemilaminectomyImmediately post-op then 2~3x more410120Edema1-2x513150EnterotomyDuring surgery410120	Docubital Illcore		2	NID	00	
Degenerative Disc Disease 1/day for 3~5 days then 2~3/week Degenerative Joint Disease 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days Degloving Wounds then 2~3/week until 4 10 120 3~4 weeks healed Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy Immediately post-op, then 2~3x more Edema 1-2x 5 13 150 During surgery 10 120 120 120 120	Decubital ofcers		3	INIT	90	
Degenerative Disc Disease then 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days Degloving Wounds then 2~3/week until 4 10 120 3~4 weeks Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy then 2~3x more Edema 1-2x 5 13 150 During surgery 4 10 120 Finterectomy 120 Table 130 Maintenance 120 A Weeks 120 Table 130 Table 130						
Degenerative Joint Disease 2~3/week or 3+2+1 5 13 150 Maintenance 1/day for 3~5 days then 2~3/week until 4 10 120 3~4 weeks Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy Edema 1-2x 5 13 150 During surgery 4 10 120 Finteretomy During surgery 4 10 120	Degenerative Disc Disease		5	13	150	
Degloving Wounds then 2~3/week until 4 10 120 3~4 weeks Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy then 2~3x more Edema 1-2x 5 13 150 Enterotomy During surgery 4 10 120	Danamanati ya laint Diazara			12	150	Maintenan
Degloving Wounds then 2~3/week until 4 10 120 3~4 weeks Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy Immediately post-op, then 2~3x more Edema 1-2x 5 13 150 Enterotomy During surgery 4 10 120	Degenerative Joint Disease		5	13	150	iviaintenance
healed Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy Immediately post-op, then 2~3x more Edema 1-2x 5 13 150 Enterotomy During surgery 4 10 120	Dania in a Marrie I			10	120	2. 4
Dewclaw Removal Immediately post-op 4 NR 120 Dorsolateral Hemilaminectomy Immediately post-op, then 2~3x more 4 10 120 Edema 1-2x 5 13 150 Enterotomy During surgery 4 10 120	Degioving Wounds		4	10	120	J∼4 WeeKS
Dorsolateral Hemilaminectomy Immediately post-op, then 2~3x more Edema 1-2x 5 13 150 Enterotomy During surgery 4 10 120	D. d. B. d.			ND	122	
Edema 1-2x 5 13 150 Enterectomy During surgery 4 10 120	Dewclaw Kemoval		4	NK	120	
Edema 1-2x 5 13 150 Enterectomy During surgery 4 10 120	Dorsolateral Hemilaminectomy	* * *	4	10	120	
Enterotomy During surgery 4 10 120	Edema		5	13	150	
		During surgery			120	
,	Enterotomy	2~3/week or 3+2+1	4	10	120	



Indication	Eroguoney	Dose	e Therapy Time (sec.)		Notes
indication	Frequency	(J/cm²)	Cap-C, D	Cap-S	Notes
Feline Acne	Post surgical 1x	3	8	90	Be careful of thyroid
Feline Declaw	Immediately post-op	3	8	90	Also next day if in hospital
Feline Tail Pull injuries	2~3/week or 3+2+1	3	8	90	
Femoral Head Ostectomy	Immediately post-op	3	8	90	Also next day if in hospital
FLUTD(Feline Lower Urinary					3+2+1 for cystitis if needed(will not
Tract Disease) - Blocked Urethra	1x to relieve blockage	3	8	90	break up crystals but small ones
·					may pass)
Fractures - After Surgery	2~3/week or 3+2+1	4	10	120	
Gingivitis	2~3x, based on	3	8	90	Determine acute or chronic
	severity				
Hernia Repair	2~3/week or 3+2+1	5	13	150	(Not a substitute for cleaning)
Hip Dysplasia	2~3/week or 3+2+1	5	13	150	Post-op
Hot Spots	3+2+1	5	13	150	Every 3~4 weeks as needed
Inflammatory Bowel Disease	2~3/week or 3+2+1	5	13	150	Treat with other modalities,
illiaminatory bower bisease	2**5/ WEEK OF 5+2+1	,	13	150	pharmaceuticals
Insect Bite/Snake Bite	1x, may need 3+2+1	3	NR	90	1~3x, depending on bite severity
Intervertebral Disc Disease	2~3/week or 3+2+1	8	20	240	May need follow up treatment
Intra-abdominal	1x during Surgery	5	NR	150	
Joint Injury - Acute	Once - up to 6x	8	20	240	Frequently improves after 1
Joint Injury - Acute	Office - up to ox		20	240	treatment
Lesions	2~3/week or 3+2+1	4	10	120	
Lick Granulomas	Daily or 2~3/week or	3	8	90	Depends on size
Lick Grandiomas	3+2+1	,	0	90	Depends on size
Luxating Patella	3+2+1	5	13	150	Treat after surgery, not as a
	JTZT1	,	13	150	substitute
Musculoskeletal Pain	1~3x, once daily	5	13	150	
Myofascial Pain	2~3/week or 3+2+1	5	13	150	
Nerve Regeneration	2~3/week or 3+2+1	5	13	150	
Neuropathies	2~3/week or 3+2+1	5	13	150	
Orchiectomy Canine and Feline	Immediately post-op	4	10	120	
Orchiectorny Carinie and Femile	1x				
Otitis - Acute	2~3/week or 3+2+1	5	13	150	Then every 3~4 weeks, if chronic
Otitis External - w/infection	2~3/week or 3+2+1	5	13	150	
Otitis External - w/o Infection	2~3/week or 3+2+1	5	13	150	
Otitis Media / External - Chronic	2~3/week	3	8	90	3+2+1, then once every 3~4 weeks
		,		<u> </u>	31211, then once every 3 4 weeks
Ovariohysterectomy Canine and	Immediately post-op	5	NR	150	
Feline	1x		1411	150	
Perianal Fistulas	1/day for 3~5 days	3	8	NR	Use with pharmaceuticals
	then 2~3/week				·
Periodontal Diseases	2~3/week or 3+2+1	3	8	90	Determine acute or chronic
Staph Infections - Local	2/week	3	NR	90	
Sterile Pyogranulomatous	Daily for 2~3x, then				
Syndrome pyogranuloma /	2~3/week	3	8	90	
granuloma					
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	120	
Stomatitis	Daily (Depends how	3	8	90	Can also use 3+2+1 (6~12
	chronic)				treatments, then maintenance)
Tendon & Ligament Injury	2~3/week or 3+2+1	5	13	150	
Tightrope/Extracapsular	3+2+1	5	13	150	Wait 6 weeks for scar to form, then
					Chronic inflammation
Traumatic & Overuse Injuries	2~3/week or 3+2+1	5	13	150	
Trigger Point		3	8	NR	Repeat every 2 days until
					disappearance of reactivity
Vasculitis - Non-infectious	2~3/week or 3+2+1	5	13	150	Be careful of possible thrombosis
Wounds	3~5/day	5	NR	150	Decrease treatments as healing
	2 3/ day			.50	progresses



Klas-DX84 Laser Therapy Protocol - Small Animals

Terminology:

- 3+2+1 = Three treatments the first week, two the second, and one the third
- "Acute" generally refers to an orthopedic condition that is less than 10 days old, or a medical condition 1~2 days old.
- "Chronic" generally refers to an orthopedic condition that is more than 10 days old or a medical condition more than 2 days old.
- Maintenance = 1 treatment every 2~4 weeks
- NR = Not Recommend



	Frequency		Therapy 1	ime (sec.)	
			Cap-C, D Cap-S		
			Irradiation Area (cm²)		
Indication			0.5	3	
		Dose (J/cm²)	Laser Power (mW)		Notes
			460 460		
			End Pow		
			370 180		
				ty (mW/cm²)	
				1	
Alexanderic	1/1. (4 5 1	4	740	60	
Abscess Incision	1/day for 4~5 days	4	5	67	
Drainage and Flush Abscess		_	_		
with Cellulitis, Incision,	1/day for 5~6 days	4	5	67	
Drainage, and Flush					
Allergic Pododermatitis	2~3/week or 3+2+1	3	4	50	
Amputation	Immediate	4	NR	67	Post Surg 1x, Acute pain 2-3 days
Anal Sacculitis / Acute	2~3/week or 3+2+1	4	5	67	
Anal Sacculitis / Chronic	2~3/week or 3+2+1	3	4	50	
Anterior Cruciate Ligament Tear	2/week	3	4	50	
- Chronic	2/ Week	3	4	30	
Anterior Cruciate Ligament Tear,	2.2.1	4	_	67	
Full - Acute	3+2+1	4	5	67	
Anterior Cruciate Ligament Tear,	2/ 1		_	67	1~3/week for 3 weeks. Exercise
Partial - Acute	3/week	4	5	67	restriction
Arthritic Conditions	2~3/week or 3+2+1	4	5	67	Maintenance
				-	Acute inflammation 1x Immobilize
Aural Hematoma(Post Surgery)	1/day	3	NR	50	ear, treat cause
	1/day for 3~5 days				
Burns	then 2~3/week until	4	NR	67	
	healed	·		0,	
Cauda Equina Syndrome	3+2+1	5	7	83	Maintenance
Cystitis/Interstitial	3+2+1	4	5	67	3~4 weeks
Cystitis/Urethritis/Feline Lower	31211	•		07	3 TWEEKS
Urinary Tract Disease	3+2+1	4	5	67	Maintenance
Cystotomy	During surgery	4	5	67	Maintenance as needed
Cystotomy	1/day for 3~5 days	4	3	07	Maintenance as needed
Dogubital I II gave	then 2~3/week until	2	ND	Ε0	
Decubital Ulcers		3	NR	50	
	healed				
Degenerative Disc Disease	1/day for 3~5 days	5	7	83	
	then 2~3/week				
Degenerative Joint Disease	2~3/week or 3+2+1	5	7	83	Maintenance
Degloving Wounds	1/day for 3~5 days				
	then 2~3/week until	4	5	67	3~4 weeks
	healed				
Dewclaw Removal	Immediately post-op	4	NR	67	
Dorsolateral Hemilaminectomy	Immediately post-op,	4	5	67	
	then 2~3x more				
Edema	1-2x	5	7	83	
Entorotomy	During surgery	4	Г	67	
Enterotomy	2~3/week or 3+2+1	4	5	67	
		·			



Indication	Eroguoney	Dose	e Therapy Time (sec.)		Natas
indication	Frequency	(J/cm²)	Cap-C, D	Cap-S	Notes
Feline Acne	Post surgical 1x	3	4	50	Be careful of thyroid
Feline Declaw	Immediately post-op	3	4	50	Also next day if in hospital
Feline Tail Pull injuries	2~3/week or 3+2+1	3	4	50	
Femoral Head Ostectomy	Immediately post-op	3	4	50	Also next day if in hospital
FLUTD(Feline Lower Urinary					3+2+1 for cystitis if needed(will not
Tract Disease) - Blocked Urethra	1x to relieve blockage	3	4	50	break up crystals but small ones
,					may pass)
Fractures - After Surgery	2~3/week or 3+2+1	4	5	67	
Gingivitis	2~3x, based on	3	4	50	Determine acute or chronic
_	severity		-		
Hernia Repair	2~3/week or 3+2+1	5	7	83	(Not a substitute for cleaning)
Hip Dysplasia	2~3/week or 3+2+1	5	7	83	Post-op
Hot Spots	3+2+1	5	7	83	Every 3~4 weeks as needed
Inflammatory Bowel Disease	2~3/week or 3+2+1	5	7	83	Treat with other modalities,
illiaminatory bower bisease	2**5/ WEEK OF 5+2+1	,	,	03	pharmaceuticals
Insect Bite/Snake Bite	1x, may need 3+2+1	3	NR	50	1~3x, depending on bite severity
Intervertebral Disc Disease	2~3/week or 3+2+1	8	11	133	May need follow up treatment
Intra-abdominal	1x during Surgery	5	NR	83	
Joint Injury - Acute	Once - up to 6x	8	11	133	Frequently improves after 1
Joint Injury - Acute	Office - up to ox			133	treatment
Lesions	2~3/week or 3+2+1	4	5	67	
Lick Granulomas	Daily or 2~3/week or	3	4	50	Depends on size
Lick Grandiomas	3+2+1	,	т	30	Depends on size
Luxating Patella	3+2+1	5	7	83	Treat after surgery, not as a
	JTZT1	,	,	05	substitute
Musculoskeletal Pain	1~3x, once daily	5	7	83	
Myofascial Pain	2~3/week or 3+2+1	5	7	83	
Nerve Regeneration	2~3/week or 3+2+1	5	7	83	
Neuropathies	2~3/week or 3+2+1	5	7	83	
Orchiectomy Canine and Feline	Immediately post-op	4	5	67	
Orchiectorny Carinie and Femile	1x		<u> </u>		
Otitis - Acute	2~3/week or 3+2+1	5	7	83	Then every 3~4 weeks, if chronic
Otitis External - w/infection	2~3/week or 3+2+1	5	7	83	
Otitis External - w/o Infection	2~3/week or 3+2+1	5	7	83	
Otitis Media / External - Chronic	2~3/week	3	4	50	3+2+1, then once every 3~4 weeks
		,	7	30	31211, then once every 3 4 weeks
Ovariohysterectomy Canine and	Immediately post-op	5	NR	83	
Feline	1x	,	1411	03	
Perianal Fistulas	1/day for 3~5 days	3	4	NR	Use with pharmaceuticals
	then 2~3/week		7		·
Periodontal Diseases	2~3/week or 3+2+1	3	4	50	Determine acute or chronic
Staph Infections - Local	2/week	3	NR	50	
Sterile Pyogranulomatous	Daily for 2~3x, then				
Syndrome pyogranuloma /	2~3/week	3	4	50	
granuloma					
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	67	
Stomatitis	Daily (Depends how	3	4	50	Can also use 3+2+1 (6~12
	chronic)				treatments, then maintenance)
Tendon & Ligament Injury	2~3/week or 3+2+1	5	7	83	
Tightrope/Extracapsular	3+2+1	5	7	83	Wait 6 weeks for scar to form, then
					Chronic inflammation
Traumatic & Overuse Injuries	2~3/week or 3+2+1	5	7	83	
Trigger Point		3	4	NR	Repeat every 2 days until
					disappearance of reactivity
Vasculitis - Non-infectious	2~3/week or 3+2+1	5	7	83	Be careful of possible thrombosis
Wounds	3~5/day	5	NR	83	Decrease treatments as healing
	3 3/ day		. 411	- 55	progresses