

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



Indication	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
			Irradiation Area (cm ²)		
			0.5	3	
			Laser Power (mW)		
			150	150	
End Power (mW)					
120	75				
Power Density (mW/cm ²)					
240	25				
Abscess Incision	1/day for 4~5 days	4	17	160	
Drainage and Flush Abscess with Cellulitis, Incision, Drainage, and Flush	1/day for 5~6 days	4	17	160	
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 - Chronic	2/week	3	13	120	
Anterior Cruciate Ligament Tear, Full - Acute	3+2+1	4	17	160	
Anterior Cruciate Ligament Tear, Partial - Acute	3/week	4	17	160	1~3/week for 3 weeks. Exercise restriction
Arthritic Conditions	2~3/week or 3+2+1	4	17	160	Maintenance
Aural Hematoma(Post Surgery)	1/day	3	NR	120	Acute inflammation 1x Immobilize ear, treat cause
Burns	1/day for 3~5 days then 2~3/week until healed	4	NR	160	
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
Decubital Ulcers	1/day for 3~5 days then 2~3/week until healed	3	NR	120	
Degenerative Disc Disease	1/day for 3~5 days then 2~3/week	5	21	200	
Degenerative Joint Disease	2~3/week or 3+2+1	5	21	200	Maintenance
Degloving Wounds	1/day for 3~5 days then 2~3/week until healed	4	17	160	3~4 weeks
Dewclaw Removal	Immediately post-op	4	NR	160	
Dorsolateral Hemilaminectomy	Immediately post-op, then 2~3x more	4	17	160	
Edema	1-2x	5	21	200	
Enterotomy	During surgery 2~3/week or 3+2+1	4	17	160	



Indication	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
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 Tract Disease) - Blocked Urethra	1x to relieve blockage	3	13	120	3+2+1 for cystitis if needed(will not 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 severity	3	13	120	Determine acute or chronic
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, 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 treatment
Lesions	2~3/week or 3+2+1	4	17	160	
Lick Granulomas	Daily or 2~3/week or 3+2+1	3	13	120	Depends on size
Luxating Patella	3+2+1	5	21	200	Treat after surgery, not as a 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 1x	4	17	160	
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
Ovariohysterectomy Canine and Feline	Immediately post-op 1x	5	NR	200	
Perianal Fistulas	1/day for 3~5 days then 2~3/week	3	13	NR	Use with pharmaceuticals
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 Syndrome pyogranuloma / granuloma	Daily for 2~3x, then 2~3/week	3	13	120	
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	160	
Stomatitis	Daily (Depends how chronic)	3	13	120	Can also use 3+2+1 (6~12 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 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 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	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
			Irradiation Area (cm ²)		
			0.5	3	
			Laser Power (mW)		
			250	250	
End Power (mW)					
200	100				
Power Density (mW/cm ²)					
400	33				
Abscess Incision	1/day for 4~5 days	4	10	120	
Drainage and Flush Abscess with Cellulitis, Incision, Drainage, and Flush	1/day for 5~6 days	4	10	120	
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 - Chronic	2/week	3	8	90	
Anterior Cruciate Ligament Tear, Full - Acute	3+2+1	4	10	120	
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 Urinary Tract Disease	3+2+1	4	10	120	Maintenance
Cystotomy	During surgery	4	10	120	Maintenance as needed
Decubital Ulcers	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	5	13	150	
Degenerative Joint Disease	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	4	NR	120	
Dorsolateral Hemilaminectomy	Immediately post-op, then 2~3x more	4	10	120	
Edema	1-2x	5	13	150	
Enterotomy	During surgery 2~3/week or 3+2+1	4	10	120	



Indication	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
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 Tract Disease) - Blocked Urethra	1x to relieve blockage	3	8	90	3+2+1 for cystitis if needed(will not 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 severity	3	8	90	Determine acute or chronic
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, 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 treatment
Lesions	2~3/week or 3+2+1	4	10	120	
Lick Granulomas	Daily or 2~3/week or 3+2+1	3	8	90	Depends on size
Luxating Patella	3+2+1	5	13	150	Treat after surgery, not as a 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 1x	4	10	120	
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
Ovariohysterectomy Canine and Feline	Immediately post-op 1x	5	NR	150	
Perianal Fistulas	1/day for 3~5 days then 2~3/week	3	8	NR	Use with pharmaceuticals
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 Syndrome pyogranuloma / granuloma	Daily for 2~3x, then 2~3/week	3	8	90	
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	120	
Stomatitis	Daily (Depends how chronic)	3	8	90	Can also use 3+2+1 (6~12 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 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



Indication	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
			Irradiation Area (cm ²)		
			0.5	3	
			Laser Power (mW)		
			460	460	
End Power (mW)					
370	180				
Power Density (mW/cm ²)					
740	60				
Abscess Incision	1/day for 4~5 days	4	5	67	
Drainage and Flush Abscess with Cellulitis, Incision, Drainage, and Flush	1/day for 5~6 days	4	5	67	
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 - Chronic	2/week	3	4	50	
Anterior Cruciate Ligament Tear, Full - Acute	3+2+1	4	5	67	
Anterior Cruciate Ligament Tear, Partial - Acute	3/week	4	5	67	1~3/week for 3 weeks. Exercise restriction
Arthritic Conditions	2~3/week or 3+2+1	4	5	67	Maintenance
Aural Hematoma(Post Surgery)	1/day	3	NR	50	Acute inflammation 1x Immobilize ear, treat cause
Burns	1/day for 3~5 days then 2~3/week until healed	4	NR	67	
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 Urinary Tract Disease	3+2+1	4	5	67	Maintenance
Cystotomy	During surgery	4	5	67	Maintenance as needed
Decubital Ulcers	1/day for 3~5 days then 2~3/week until healed	3	NR	50	
Degenerative Disc Disease	1/day for 3~5 days then 2~3/week	5	7	83	
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 healed	4	5	67	3~4 weeks
Dewclaw Removal	Immediately post-op	4	NR	67	
Dorsolateral Hemilaminectomy	Immediately post-op, then 2~3x more	4	5	67	
Edema	1-2x	5	7	83	
Enterotomy	During surgery 2~3/week or 3+2+1	4	5	67	



Indication	Frequency	Dose (J/cm ²)	Therapy Time (sec.)		Notes
			Cap-C, D	Cap-S	
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 Tract Disease) - Blocked Urethra	1x to relieve blockage	3	4	50	3+2+1 for cystitis if needed(will not 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 severity	3	4	50	Determine acute or chronic
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, 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 treatment
Lesions	2~3/week or 3+2+1	4	5	67	
Lick Granulomas	Daily or 2~3/week or 3+2+1	3	4	50	Depends on size
Luxating Patella	3+2+1	5	7	83	Treat after surgery, not as a 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 1x	4	5	67	
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
Ovariohysterectomy Canine and Feline	Immediately post-op 1x	5	NR	83	
Perianal Fistulas	1/day for 3~5 days then 2~3/week	3	4	NR	Use with pharmaceuticals
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 Syndrome pyogranuloma / granuloma	Daily for 2~3x, then 2~3/week	3	4	50	
Stifle Surgery - TPLO/TTA	3+2+1	4	NR	67	
Stomatitis	Daily (Depends how chronic)	3	4	50	Can also use 3+2+1 (6~12 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 progresses