

Video Documentation of Gait Changes Pre and Post Low Level Laser Treatments
Orchard Park Veterinary Medical Center

Signalment: Male Neutered Golden Retriever - DOB 06/10/99

History: Owner noticed that Killian was unable to walk as far as he had the past previous six months. He had been on various NSAIDs for the past two years. Killian was a rescue dog

Physical Exam Findings: Upon presentation on 4/18/08, goniometry measurements were taken. (see measurements below) He was markedly restricted in hock flexion bilaterally, stifle flexion bilaterally, and hip flexion/extension bilaterally. When gaited outside, Killian was fore-shortening his strides. His caudal torso was unsteady. He was unable to trot for longer than two minutes.

Goniometry:	Flexion	Extension
Hips	70 R/ 72 L (50)	148 R/ 150 L (162)
Stifles	64 R/ 67 L (41)	160 R/ 158 L (162)
Hocks	62 R/ 66 L (38)	160 R/ 160 L (165)

Rehabilitation Treatment: Killian was sent home with instructions for range of motion, weight shifting and torso stretching exercises. His owner was asked to apply warm packs to his joints prior to exercises. In addition, low level laser therapy (Respond 2400XL HPLP). The high power probe was used at 4 joules per centimeter squared, frequency six. Six sites were treated on each shoulder, four sites at each elbow, seven sites were treated on each hip, four sites on each stifle and four sites each hock. A total of 248 joules were given whole body.

One week later on 4/25/08, Killian returned for a second low level laser treatment using the same protocol as 4/18/08.

	Flexion	Extension
Hip	60 R/ 61 L	153 R/ 156 L
Stifle	51 R/ 53 L	160 R/ 161 L
Hock	52 R/ 56 L	160 R/ 162 L

Follow-Up and Assessment of Outcome: Killian was videotaped prior to his first laser treatment and post second laser treatment (see video). Owner noticed a difference in his activity levels (increased substantially) and quality of life. Killian has returned to his normal healthy activity level.

[Click here to see Video of Gait Changes](#)