

Placental Tissue Matrix
Skye Biologics PX50®

Case Report
October 26, 2016

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Diagnosis

Sciatica, Herniation of disc of L4-L5

Intro

On August 22, 2016, a 46-year-old male presented to the clinic complaining of left sciatic nerve pain with severe disc herniation impinging the left L5 nerve root, as identified on MRI. Patient was seeking any plausible alternative to surgery. He previously enjoyed jiu jitsu fighting, but pain had recently prevented him from it.

Patient was examined by Shawn Tierney, DC, RSMK Musculoskeletal Sonologist, using a GE R6 B-mode ultrasound using 8 to 13MHz high frequency GE 12L linear transducer and a 2 to 5.3MHz 4C curvilinear transducer. The ultrasound exam revealed severe compression of the Left L5 nerve root, and tenderness to ultrasound guided palpation of the left sciatic nerve, peroneal nerve, and tibial nerve on the left. With the goal of long-term pain relief and regeneration to the patient's low back, patient was amenable to the treatment recommendations of ultrasound-guided injections of Skye Biologics Placental Tissue Matrix Allograft, PX50®.

Treatment

Under ultrasound guidance, the left pars of S1 was injected with 1 cc 0.5% Ropivacaine and 0.5 cc Skye Biologics Placental Tissue Matrix Allograft, PX50®. Next, the left sciatic nerve was hydrodissected with 0.5 cc 0.5% Ropivacaine and 0.5 cc Skye Biologics Placental Tissue Matrix Allograft, PX50®.

Follow-up

At the two-month follow-up appointment on October 20, 2016, the patient reported major relief, and his pain questionnaire reported no pain at all. For the first week after the procedure, patient reported he did not have leg pain at rest, but he did have leg pain when walking. After 9 days, patient could shower without any pain and could walk without pain and without need for ice. After 21 days, he started physical therapy, including stretching and pilates two times a week, and he began swimming every day. Patient will return to Jiu Jitsu in January. Patient did have a sensation in the low back for the first two weeks, as if it was regenerating in some way. Before the treatment, patient could not sleep for five hours due to pain, but after the procedure, he is now able to sleep 12 hours without distress. This past weekend, he drove for 17 hours and had no pain. He is very appreciative; he wants to refer Jiu Jitsu fighters from Brazil to come and receive the treatment. Patient states, "I am completely happy, with no pain at all. It seems that my back is stronger overall. I am walking every day with the dogs; I am eager to return to Jiu Jitsu in January."

Figure 1. Reduction in Pain Post Placental Tissue Matrix Allograft

Pain, on a 1-10 Self-Reported Pain Scale	Pre- treatment, August 2016	Post- treatment, October 2016
Pain	8	0
% Reduction in Pain	100%	