

Placental Tissue Matrix
Skye Biologics PX50®

Case Report
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Diagnosis

Low Back Pain, Degeneration of the right L4-L5 and L5-S1 lumbar facet joints

Intro

On March 31, 2016, a 61-year-old female presented to the clinic with worsening low back pain and complaints of a “pinched nerve” in her lower back. She also experiences muscle spasms in her legs occasionally. Her back pain has been limiting her workouts at the gym.

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. His ultrasound exam revealed the following:

1. Impingement of the median branch and superior cluneal nerves over the L5 Transverse process lateral to the arthritic L4-L5 lumbar facet joints
2. Impingement of the left sciatic nerve and posterior cutaneous thigh nerve
3. Facet joint degeneration bilaterally at L2-L3 L3-L4 L4-L5 L5-S1
4. L4 left sided radiculitis leading to sciatica

Treatment

Patient was initially treated on March 31, 2016 with injections of 0.5 cc .5% Ropivacaine into the bilateral L4-L5 L5-S1 facet joints in the patient's low back. Next, a solution of 2cc 1% Lidocaine and 18cc Normal Saline was used to hydrodissect the right sciatic nerve through the gluteal musculature.

On May 5, 2016, patient returned to report experiencing a few hours of pain relief from the low back and a few weeks of pain relief from the sciatica. With the goal of long-term pain relief and regeneration to the patient's low back, patient was amenable to receive Skye Biologics Placental Tissue Matrix Allograft, PX50®.

On May 5, 2016, 0.5 cc .5% Ropivacaine was mixed with 0.5 cc Skye Biologics Placental Tissue Matrix Allograft, PX50®, and injected into the bilateral L4-L5 L5-S1 facet joints in the patient's low back. Next, a solution of 2cc 1% Lidocaine and 18cc Normal Saline was used to hydrodissect the right sciatic nerve through the gluteal musculature.

Follow-up

Within five minutes of the injection, patient reported 100% of her lower back pain and sciatica was relieved. In June 2016, her physical therapists reported that she was successfully performing her exercises without restrictions. Eight weeks after the injections, in July 2016, she stated that her pain was fully relieved with the PX50® and she did not need any further injections. She was pleased to have returned to her morning workouts at the gym without pain.

Figure 1. Reduction in Self-Reported Pain on a 1-10 Scale, before and after PTM Placental Tissue Matrix

Level of Pain	Pre- PX50®	Post- PX50®
	5/5/16	7/5/16
Average Pain	5	0
% Reduction in Pain	100%	