

Placental Tissue Matrix

Skye Biologics PX50®

Case Report

August 4, 2016

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Diagnosis

Bilateral osteoarthritis of the thumbs and hands

Introduction

On August 14, 2015, an 82-year-old female presented with pain in her hands at the bases of her bilateral thumbs. It had been difficult for her to go bowling without severe pain. When she returned multiple times for sequential follow up visits, she was found to have not only nerve irritation but also arthritis of the joints of the base of the thumbs.

Diagnosis

When 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, she was diagnosed with irritation of the left radial nerve at the spiral groove and the deep radial nerve and the superficial radial nerve at the left wrist. She was also diagnosed with capsulitis and degeneration of the bilateral carpometacarpal joints, and the right was more severely degenerated than the left. She had irritation of the nerves surrounding

these areas, including the palmar branch of the ulnar nerve, the superficial radial nerve, and the deep radial nerve.

Treatments

On August 14, August 27, September 17, November 13 and 16, 2015, the patient was treated four times with nerve hydrodissections and prolotherapy techniques, but did not receive lasting relief. Finally, on November 19, 2015, she agreed to attempt the placental tissue matrix allograft treatment.

Under ultrasound guidance, 0.5 cc .5% Ropivacaine with 0.5 cc Skye Biologics Placental Tissue Matrix Allograft, PX50® was injected into the right and left first carpometacarpal joints. Subsequently, the surrounding nerves were hydrodissected around with a solution of 2 cc of 1% lidocaine and 8 cc of normal saline.

Follow-up

On February 17, 2016, the patient reported significant relief and marked improvement in her hands. She only reported pain in the base of the right thumb. - 0.4cc 0.5% Ropivacaine, 6 cc Normal Saline, 0.3cc Kenalog 40mg/ml, 0.3 cc aqueous testosterone 50mg/ml was used to address the pain in the right thumb joint, and 3cc 0,5% Ropivacaine, 6 cc Normal Saline, 0.6cc Kenalog 40mg/ml, 0.6 cc aqueous testosterone 50mg/ml was used to inject the right radiocarpal joint. On March 2, 2016, patient returned and reported that neither hand was symptomatic, and her hands felt great. She had been able to bowl again and celebrate her 83rd birthday feeling pain-free. She very surprised and grateful that she received healing in her hands, and reported that because of the PX50® and follow up treatments, she was hopeful for many more years of bowling in the future.

Figure 1. Patient's Self-Reported Pain on a 1-10 Scale, before and after receiving PX50®

Level of Pain	Pre- PX50®	Post- PX50®
	1/19/2015	3/2/2016
Average Pain	10	2
Worst Pain	10	5