

Placental Tissue Matrix
Skye Biologics PX50®

Case Report
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Diagnosis

Cervical Facet Joint Hypertrophy and Capsulitis at C2-C3 and C3-C4

Intro

On June 2, 2016, a 58-year-old female presented with years of neck pain. She had been an artist and a swimmer for most of her life. While her neck pain had not come from a specific injury, she reported increasing irritation over the past few months of completing a series of mosaics without adequate rest.

Diagnosis

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 cervical facet joint hypertrophy and capsulitis at C2-C3 and C3-C4, with nerve irritation of the 3rd occipital / least occipital nerve on the right. She additionally was found to have right C6 nerve root irritation.

Treatment

For diagnostic confirmation, 0.5 cc .5% Ropivacaine was injected into the bilateral facet joints of C2-C3 and C3-C4. One minute after the injection, patient was able to flex, extend and rotate her neck without pain. The intended effect of the Ropivacaine was achieved: the precise location of the arthritis was confirmed.

With assurance of the arthritic joints, the PX50[®] was prepared for administration. 0.5 cc .5% Ropivacaine was mixed with 0.5 cc Skye Biologics Placental Tissue Matrix Allograft, PX50[®] and injected into the bilateral facet joints of C2-C3 and C3-C4 in the patient's neck. The goal was to provide sustaining regeneration to the patient's neck and to prevent further degeneration of C2-C3 and C3-C4.

Additionally, a needle was directed to hydrodissect the median branch below the joint and to hydrodissect the right C6 nerve root from the transverse process through the interscalene brachial plexus with a solution of lidocaine, saline, dextrose and a small amount of PX50[®].

Follow-up

While the patient initially reported an irritation in her neck after the first two days, this irritation diminished by the end of the first week. Moreover, six weeks after the injection, the patient reported major relief. She reported having no pain after spending many hours working in her art studio and completing her swimming workouts. Upon ultrasound examination, the cervical facet joint capsulitis was improving, with significantly less irregularity, and no residual effusion. Because of the PX50[®] injection, patient believed that she would be able to pursue her passions as an artist and a swimmer long into the future.

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 [®]
	6/9/16	7/21/16
Average Pain	5	1
% Reduction in Pain	80%	