PLANTAR FASCIA ULTRASOUND GUIDED PLATELET RICH PLASMA (PRP) CLINICAL CARE GUIDELINE

Background

Platelet Rich Plasma (PRP) is an injection of your own blood that has been spun down to increase the concentration of platelets. This concentrated blood has an increase in growth factors, proteins, cytokines and other bioactive molecules that initiate and regulate the basic aspects of wound healing. The goal is to induce an inflammatory process into the diseased tendon to promote proper and long term healing.

Although post-procedure care will be tailored to fit your individual needs, the following guidelines are designed to help you and your physical therapist after the procedure. Your physician may also amend or adjust these treatments as they deem necessary

Disclaimer

Progression is time and criterion-based, dependent on soft tissue healing, patient demographics and clinician evaluation. Contact Ohio State Sports Medicine at 614-293-2385 if questions arise.

Things to Avoid Before and After Your Procedure

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Over-the- counter pain medicine	 Over-the-counter pain medicine like ibuprofen (Advil™, Motrin™), naproxen (Aleve™, Naprosyn™). Please avoid these medications for two weeks before and one week after your procedure. They may impair your ability to heal and may increase risk of bleeding Acetaminophen (Tylenol™) is ok to take for pain after the procedure. If you are taking aspirin (ASA) for cardiovascular benefit, please continue with the same dosage. There should be no need for narcotic pain medication. 	
Alcohol	 Avoid 48 hours before your procedure. Do not consume alcohol while you are taking prescription pain medication. 	
Tobacco & nicotine	Consider talking to your physician about stopping. These products impair your ability to heal and might reduce the beneficial effects of the procedure.	
Diet	You DO NOT need to fast overnight before the procedure. After your procedure, you may eat normal meals resume your regular diet when you feel able	

Make sure your medical team provides you with the following before or at your procedure:

- 1. Walking boot
- 2. Therapy appointment times (initial evaluation appointment only. Further rehabilitation appointments will be scheduled in PT department at time of initial evaluation)
- 3. Follow-up times: You will need to see your physician one week, one month and three months after the procedure.



Post-procedure Information

- Plan to have a family member or friend drive you home after your procedure.
- Bring your boot to your procedure appointment if you have one at home or were given one in the office.

Orthotics & Braces	 You do not need to sleep in boot. Do not drive while you are wearing the boot. If you have an orthosis, wear this in your boot/shoe as you normally would.
Discomfort	 Some pain after your procedure is expected for the first few weeks. Local anesthetic was used and this will begin to wear off about 8 hours after the procedure. Anticipate an increase in pain at this time and consider taking Acetaminophen (Tylenol) about 6 hours after the procedure to stay ahead of your pain. Use an ice pack on the painful area for 15 minutes as needed; in the first 2-3 days consider icing 3 times daily. If you are concerned about your pain, please contact your care team.
Bandage	If a bandage / dressing was applied, remove dressing after 24-48 hours. Replace with simple bandage
Bathing	It is OK to bathe 24 hours after the procedure
Follow-Up Appointment	You will be scheduled for follow-up appointments at 1 week, 1 month, and 3 months
When to call your Provider	If you notice increasing redness, warmth, pain, fever, drainage from the wound or other problems that concern you, call Ohio State Sports Medicine (614-293-3600) during normal clinic hours. Otherwise seek care at your local emergency room.

Post-Procedural Foot & Ankle Care Timeline

Your Rehabilitation will follow these basic principles:

Phase 1: Inflammation: 3 - 5 days after procedure, sometimes lasting up to 2 weeks.

Purpose: localize and eliminate damaged tissue so that the body can heal

Response: Increase in blood flow, permeability of blood vessels, migration of fluid proteins and white blood cells.

Phase 2: Proliferation: 1-4 weeks after procedure, sometimes lasting up to 8 weeks.

Purpose: PDGF recruit fibroblasts, synthesize collagen to begin to repair tissue.

Response: Davis Law: soft tissue heals according to the manner in which they are being stressed. Rest is contraindicated in this phase.

Phase 3: Remodeling: 1 -3 months after procedure.

Purpose: Remodeling, strengthening, improve cellular organization.

Response: increased organization of collagen. Tissue and scar maturation.



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Please understand that these treatments are not "quick fixes" like cortisone injections but rather we are trying to cause long term healing and lengthening of the plantar fascia. Anticipate that it may take up to 3 months to experience the improvements in your symptoms.

	Weight Bearing	Activity and Rehab	
Day of your procedure	Stay in the CAM bootMinimal weight bearing	 Protect your foot by resting and keeping it elevated to reduce swelling. Ice application as directed above for 15 minutes to decrease pain 	
Days 2-3	Begin light weight- bearing in the boot	 Elevate at least 3 times a day to control swelling. Ankle AROM/AAROM exercises 3 times per day (ankle alphabet, 4-way ankle without resistance, ankle circles). 	
Days 4-7	Begin walking in the boot only	 Continue ankle range of motion. Isometric ankle strengthening in plantarflexion, dorsiflexion, inversion, eversion, hallux plantarflexion Foot Intrinsics: 1-2 times per day (toe crunching, toe extensions, toe spreading, arch doming) Calf stretching with knee flexion and hallux dorsiflexion (soleus stretch, FHL stretch) 	
Veek 2	 Discontinue the use of the boot Begin walking normally in your typical shoes at home and then in the community as you are able. 	 Manual plantar fascia stretching May begin manual (joint & soft tissue) interventions Perform isotonic ankle strengthening, 1-2x/day Begin heel raise progression (double leg →single leg) Stationary bike without the boot (non-impact aerobic exercise). Gentle swimming and pool exercise when the wound is healed (consider pulling workouts vs lap swimming/kick workouts depending on sensitivity of foot) 	
Criteria to Progress to Progression 2	 No reactive pain with weight-bearing in boot No reactive symptoms >24 hours. Full AROM 		
Progression 2: Week 3-5	Full weight-bearing	 Progress strengthening: adding resistance (ankle weights, theraband, etc.). Begin eccentric heel raise progression to neutral, progress to beyond neutral and with load as pain allows Begin balance exercises like single-leg stance on stable surface Progress to unstable surfaces as dictated by safety, ability, symptoms, and goals. May perform upper body and core resistance training as appropriate/safe per patient goals Effusion management Begin using an elliptical machine and increase 	
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		 Advance lower body strengthening as tolerated at the discretion of your care team. Partial weight-bearing plyometric training (shuttle jump training) as tolerated 	
Criteria to Progress to Progression 3	 No reactive pain or swelling >24 hours Can ambulate in community for a full day with minimal reactive pain/effusion Single Leg Balance eyes open, stable surface for 20 sec +. 		
Progression 3: Week 6-8	Full weight-bearing	 Increase the intensity of biking, swimming, elliptical, fast walking and resistance exercises as pain/symptoms allow. Begin return to impact activities: plyo training in full weight-bearing as tolerated, proximal lower extremity and trunk strength as dictated by symptoms, safety, patient needs/goals. For running, consider using an anti-gravity treadmill to start. Continue concentric/eccentric loading and heel raise progression. 	
Week 8+	Full weight-bearing	 Return to jogging/running progression Progress to directional changes and variable surfaces Progress double leg to single leg Sport/Activity specific training Continue single leg balance training 	

For Therapists Only

- All strength work should be performed every other day, 2-3 sets of each exercise to fatigue without reactive pain.
- Manual therapy may begin 2 weeks after the procedure date.
- Stretching should be performed daily
- Consider patient goals and needs when determining rehabilitation progression speed and intensity.

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