

# MPC

**MICHIGAN PAIN CONSULTANTS, PC**

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[www.michiganpain.com](http://www.michiganpain.com)

## Locations

### Big Rapids

15044 220th Avenue  
Big Rapids, MI 49307  
231.796.1500  
231.796.5576 Rx

### Holland

844 S Washington Ste 100  
Holland, MI 49424  
616.546.2550  
616.546.2680 Rx

### Grand Rapids

2060 E. Paris Ave SE Ste 200  
Grand Rapids, MI 49546  
616.285.1377  
616.285.1038 Rx

### Muskegon

1675 E Mt Garfield Ste 135  
Muskegon, MI 49444  
231.799.8880  
231.799.9566 Rx

### Greenville

6896 S Greenville Rd Ste 100  
Greenville, MI 48838  
616.754.5036  
616.754.4357 Rx

### Wyoming

2147 Health Dr Ste 100  
Wyoming, MI 49519  
616.281.1600  
616.281.1700 Rx

## MPC Medical Records

**Please fax or mail all consults, labs, diagnostic results  
to our medical records department.**

Fax: 616.242.2517

MPC: Attn Medical Records

61 Commerce Ave SW

Grand Rapids, MI 49503



# Bone Marrow Aspiration/ Concentration (BMAC)

Bone marrow contains the body's highest concentration of adult stem cells. These stem cells are known as the body's repair kit as they have the unique ability to replicate themselves for use in any tissue or organ found throughout the body. A physician extracts bone marrow from the patient's hip. The bone marrow is then spun in a centrifuge to separate and concentrate the stem cells. The concentrated stem cells are then injected into the affected area of the body initiating a regenerative response from the body.

Osteoarthritis

Labral tears

Partial rotator cuff tears

Tendon inflammation

Partial achilles tendon  
tear

Plantar fasciitis

Articular cartilage  
injuries

Partial ligament tears

Partial meniscal tears



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## REGENERATIVE MEDICINE

Regenerative medicine, is an exciting and rapidly evolving branch in the field of interventional pain management. Regenerative medicine is a non-surgical treatment option for chronic pain patients that merges state of the art medical technology with the body's natural ability to heal and repair itself.

### Platelet-Rich Plasma Therapy (PRP)

Platelet-rich plasma Therapy or PRP, is an advanced treatment option that uses the patient's own blood components to stimulate the body's healing process in the damaged or injured area causing pain. A small amount of blood is taken from the patient and spun in a specially designed centrifuge to isolate and increase the concentration of platelets. The concentrated platelets are then injected into the affected or injured area, stimulating the body's natural response to heal itself.

### Leukocyte Depleted Protein Enhanced Platelet Rich Plasma (L-PRP)

The process for obtaining platelets for a L-PRP procedure is very similar to that of a standard PRP procedure. As with a standard PRP, blood is drawn from the patient, placed in a filter and spun in a specially designed centrifuge to isolate the platelets from the blood components. For L-PRP, the process to isolate the platelets and growth factors goes one step further. Following the centrifuge process, white blood cells (leukocytes) are also removed from the concentrated platelet solution through an additional filter. This additional filter also concentrates plasma proteins which inhibit the release of enzymes that stimulate the regenerative process. The L-PRP solution is then injected under guided x-ray directly into the site of injury, much in the same way as the standard PRP option.

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