

<b>Case Number:</b>	CM13-0042563		
<b>Date Assigned:</b>	05/02/2014	<b>Date of Injury:</b>	04/11/2012
<b>Decision Date:</b>	04/02/2015	<b>UR Denial Date:</b>	10/01/2013
<b>Priority:</b>	Standard	<b>Application Received:</b>	10/30/2013

### HOW THE IMR FINAL DETERMINATION WAS MADE

MAXIMUS Federal Services sent the complete case file to an expert reviewer. He/she has no affiliation with the employer, employee, providers or the claims administrator. He/she has been in active clinical practice for more than five years and is currently working at least 24 hours a week in active practice. The expert reviewer was selected based on his/her clinical experience, education, background, and expertise in the same or similar specialties that evaluate and/or treat the medical condition and disputed items/Service. He/she is familiar with governing laws and regulations, including the strength of evidence hierarchy that applies to Independent Medical Review determinations.

The Expert Reviewer has the following credentials:  
 State(s) of Licensure: New Jersey, Michigan, California  
 Certification(s)/Specialty: Neurology, Neuromuscular Medicine

### CLINICAL CASE SUMMARY

The expert reviewer developed the following clinical case summary based on a review of the case file, including all medical records:

The injured worker is a 61 year old male, who sustained an industrial injury on April 11, 2012. He has reported intermittent neck pain, right shoulder pain and right knee pain. The diagnoses have included cervical musculoligamentous injury, right shoulder impingement syndrome, right shoulder internal derangement, right shoulder myoligamentous injury, status post-surgical intervention of the right knee, other affections of the shoulder region, sprain/strain of the knee and leg, neck sprain/strain, arthrocentesis aspiration and injection of a major bursa joint and injury other and unspecified of the ankle and foot. Treatment to date has included radiographic imaging, diagnostic studies, surgical intervention of the right knee, conservative therapies, pain medications and work restrictions. Currently, the IW complains of intermittent neck pain, right shoulder pain and right knee pain. The injured worker reported an industrial injury in 2012, resulting in chronic neck, right shoulder and right knee pain. He was treated conservatively and surgically without complete resolution of the pain. On October 1, 2013, evaluation revealed continued pain as previously noted. Injection of the right shoulder was requested. On January 22, 2014, evaluation revealed continued symptoms. Pain medications were renewed and other treatment modalities were requested. On October 1, 2013, Utilization Review non-certified a request for prp injection to the right shoulder, noting the MTUS, ACOEM Guidelines, (or ODG) was cited. On October 25, 2013, the injured worker submitted an application for IMR for review of requested prp injection to the right shoulder.

### IMR ISSUES, DECISIONS AND RATIONALES

The Final Determination was based on decisions for the disputed items/services set forth below:

**Platelet-Rich Plasma (PRP) Injection to the Right Shoulder: Upheld**

**Claims Administrator guideline:** The Claims Administrator did not base their decision on the MTUS. Decision based on Non-MTUS Citation ODG Shoulder Chapter, Platelet-rich Plasma (PRP).

**MAXIMUS guideline:** The Expert Reviewer did not base their decision on the MTUS. Decision based on Non-MTUS Citation Platelet-rich plasma (PRP), <http://www.worklossdatainstitute.verioiponly.com/odgtwc/elbow.htm#Plateletrichplasma>.

**Decision rationale:** According to MTUS guidelines, Platelet-rich plasma (PRP) is recommend single injection as a second-line therapy for chronic lateral epicondylitis after first-line physical therapy such as eccentric loading, stretching and strengthening exercises, based on recent research below. This small pilot study found that 15 patients with chronic elbow tendinosis treated with buffered platelet-rich plasma (PRP) showed an 81% improvement in their visual analog pain scores after six months, and concluded that PRP should be considered before surgical intervention. Further evaluation of this novel treatment is warranted. (Mishra, 2006) This review concluded that there is strong pilot-level evidence supporting the use of prolotherapy, polidocanol, autologous whole blood and platelet-rich plasma injections in the treatment of lateral epicondylosis (LE). Rigorous studies of sufficient sample size, assessing these injection therapies using validated clinical, radiological and biomechanical measures, and tissue injury/healing-responsive biomarkers, are needed to determine long-term effectiveness and safety, and whether these techniques can play a definitive role in the management of LE and other tendinopathies. (Rabago, 2009) Using a Gravitational platelet separation system, whole blood can yield platelet-rich plasma. Specially prepared platelets taken from the patient are then re-injected into the tendon of the affected elbow. Platelet-rich plasma contains powerful growth factors that initiate healing in the tendon, but may also send signals to other cells in the body drawing them to the injured area to help in repair. Treatment with PRP is still considered investigational and further research is needed before it can be made available to the general population. According to the author, 'The body has an extraordinary ability to heal itself. All we did was speed the process by taking blood from a different area, concentrating it, and putting it back into an area where there was relatively poor blood supply to help repair the damage.' Early studies have shown PRP therapy may be useful in maxillofacial surgery, wound healing, microfracture repair, and in the treatment of plantar faciitis. PRP looks promising, but it is not yet ready for prime time. PRP has become popular among professional athletes because it promises to enhance performance, but there is no science behind it yet. PRP was better than corticosteroid injections in relieving pain and improving function in patients with chronic severe lateral epicondylitis, but the study concluded that PRP should be reserved for the most severe cases since 80% of tennis elbows will be cured spontaneously without doing anything within a year. (AAOS, 2010). There is no clear and recent documentation of failure of first line therapies for managing right shoulder pain. There is no controlled studies supporting the benefit and safety for PRP for shoulder pain. Therefore, the prescription of PLATELET-RICH PLASMA injection in the right shoulder is not medically necessary.