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Pathology	Study	Level	Patients	F up	100	50/65
Elbow tendinopathy	Mishra Pavelko (2006)	2	20	2 years	+	Enhanced healing and functional recovery vs. bupivacaine injections
	Peerbooms et al. (2010)	1	100	1 year	+	Reduced pain and increased function, exceeding the effect of corticosteroid injection (better initially, then declined)
Rotator cuff tear	Maniscalco et al. (2008)	4	1	6 months	+	Pain relief and ROM recover after surgical repair
						Complete integrity of the rotator cuff under the fibrin membrane by MRI
	Randelli et al. (2008)	4	14	2 years	+	No adverse events
						Good and stable clinical results after arthroscopic surgical repair
Achilles lesion/ tendinopathy	Sanchez et al. (2007)	3	12	32-50 months	+	No wound complications in surgically repaired tendons
						Earlier recovery of ROM and a faster return to jogging and sport
						Lower cross-sectional area
	Filardo et al. (2010)	4	1	18 months	+	Fast tissue repair and return to competitive sports activity in partial tendon tear
	De Vos et al. (2010)	1	54	24 weeks	-	Same results in pain and activity improvement compare with a saline injection
Patellar tendinopathy	Kon et al. (2009)	4	20	6 months	+	Marked improvement in knee function and quality of life
						PRP has to be associated with physiotherapy
	Filardo et al. (2010)	3	31	6 months	+	Marked elinical improvement in chronic refractory patellar tendinopathy, comparable with less severe cas
						Greater improvement in the level of sports activity in PRP group
ACL tear	Overan et al. (2008)	2	108	6 months	+	Enhancing maturation (MRI)
					-	No effect on tannel widening
	Silva et al. (2009)	3	40	3 months	-	No MRI difference compared to controls
	Radice et al. (2010)	3	50	3-12 months	+	48% reduction in the time required to achieve a complete homogeneous graft signal when PRP was used for surgical ACL sugmentation
Cartiloge lesion/degeneration	Sanchez et al. (2003)	4	1		+	Rapid resumption of symptom-free athletic activity after surgical treatmont for knee cartilage avulsion
	Sanchez et al. (2008)	3	60	5 weeks	+	Better pain control and physical function improvement vs. hyaluronan injections
	Kon et al. (2010)	4	91	1 year	+	Clinical improvement
						Better results in early degeneration and younger patients
						Womenian from 6 to 12 months







## Muscle and Tendon Healing Mishra (2006) Prospective study, lateral epicondylosis PRP vs bupivacaine 98% improved at 2 yrs. Peerbooms (2010) Level 1, lateral epicondylosis

- PRP vs corticosteroid injection
- Increased function, decreased pain

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- Kon (2010)
  - PRP vs low and high molecular weight HA viscosupplementation
  - ≤50 y.o.-all improved at 6 mos; PRP most effective to ↓ pain, ↑ function
  - >50 y.o.-PRP and low molecular weight similar improvement, high m.wt. worst
- · PRP safe, effective alternative to HA

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## Conclusions

- Important to understand the body's healing process to make rational decisions for treating MSK injuries
- When indicated, seek non-surgical treatment options with emphasis on long term repair



## Conclusions

• PRP may be an effective long term, non-surgical treatment option for MSK injuries, when indicated



- Safe, simple, cost effective procedure vs. surgery
- Ability to demonstrate objective healing
- Great potential in MSK medicine
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