











			valenc						
			Soccer (F) Team handball (F)						ent symptos lous sympto
* Overall pre-	valence	14	% Volleyball	-				_	-0
* Previous sy		82							Ē.
* Career prev		22	y Athletics						
· career prev	alefice	22	Team handball	5					
			Ice hockey Soccer	-					
* Male	2:1	Female	Wrestling						
			Orienteering						
* Variations b	oetween	sports	Cycling						
				0 10	20	30	40	50	60
* Duration of	sympton	ms			- 0	Prevalen	ce (%)		
* 32 ± 25 m		115							
* 32 ± 25 mi	JIILIIS								

Risk factors for patellar te review of the literature	endinopathy: a systematic
Henk van der Worp, ¹ Mathijs van Ark, ¹ Sa Inge van den Akker-Scheek, ¹ Johannes Zu	
* Weight	* Leg length difference
* Height	* Arch height of foot
 Weight training 	* Quads flexibility
* Jump training	* Hamstring flexibility
 Waist-to-hip ratio 	* Quads strength









Im	aging			
		>	\leq	
MRI V Ultrasound	Variable	MRI ^b	GS-US ^b	McNemar Test
* Ultrasound more accurate than MRI to confirm clinically	Asymptomatic (present/absent) Symptomatic (present/absent)	6/27 17/13	7/26 26/4	_
diagnosed patellar tendinopathy	Accuracy (%) Sensitivity (%) Specificity (%) Positive predictive	70 (60-83) 57 (37-75) 82 (65-93) 74 (52-90)	83 (73-92) 87 (69-96) 82 (65-93) 81 (64-93)	0.04° 0.01° 1.00
* GS-US greatest sensitivity	value (%) Negative predictive value (%)	68 (51-81)	87 (70-96)	_
 CD-US indicated likelihood of being symptomatic 	Likelihood of positive test result Likelihood of negative test result	3.1 (1.4-6.9) 0.5 (0.3-0.8)	4.8 (2.3-9.9) 0.2 (0.1-0.4)	_
				\sim
Warden S et al: Comparative accuracy of magnetic resonance imaging and tendinopathy. Am J Sports Med 35:427-436, 2007	l ultrasonography in confirming c	linically diagnosed p	oatellar Syst	Ney Orthopseelie Research Ins









Non Operative Management

- * Avoidance of painful activities
- * Physiotherapy
- * NSAIDS
- * Extra corporeal shock wave
- * Low level laser
- * Injections















Non Operative Management

US Guided Sclerosing treatment

Ultrasound-Guided Sclerosing Treatment in Patients With Patellar Tendinopathy

Aasne Hoksrud,*[†] MD, and Roald Bahr,[†] MD, PhD Investigation performed at the Oslo Sports Trauma Research Center, Norwegian School of Sport Sciences, Oslo, Norway

Injections

- * Corticosteroid injection
- * Prolotherapy-injections stimulate collagen
- * Plasma Rich Platelet injections

(Jumper's Knee) 44-Month Follow-up



Corticosteroid I	njection
Arch Orthop Trauma Surg (2009) 129:369-37' DOI 10.1007/s06402-008-0655-1	
ARTHROSCOPY AND SPORTS MEDICINE	
Patellar tendon ruptures in weight lifters after local s injections Shen-Kai Chen Cheng-Chang La - Pci-His Chou - Lan-Yuen Goo - Wen-Lan Wu	teroid
* 7 weight lifters over a 2 year period	COLOR Y
 * Average of 9 steroid injections 	
* No other risk factors for rupture	
* Mean loss of 8% of power of knee extension 2 years after surgical repair	

ioksrud A, et al. Ultrasound-Guided Scle 011 39(11) 2377-2380







Platelet Rich Plasma

* 46 consecutive athletes

- * Randomized to 2 treatment groups
- * 2 autologous PRP injections over 2 weeks
- * 3 sessions of ESWT
- * Both groups had significant improvement in symptoms
- * No difference between groups at 2 months
- * PRP group significantly better at 6 and 12 months





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Operative Techniques in Orthopaedics
as a Treatment Jumper's Knee
x Knee, Operative Techniques in





07/02/14

Surgical Management Arthroscopic Management of Chronic Patellar Tendinopathy Antorio Pascarella, *MD, Mahbub Alam,¹ MRGS, MS, Fabio Pascarella, *MD, Carmine Latte, *MD, Mariano Giuseppe Di Salvatore, *MD, and Neoda Matfull,¹⁴ MD, MS, PhD, FRGS(Orth) Investigation performed at the Laboratorio di Chrinrigia Artoscoica, Isernia, Italiy, and the Centre for Sports and Exercise Medicine, Queen Mary University of London, Bart's, and The London School of Medicine and Dentistry, Mile End Hospital, London, United Kingdom

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Surgical Management 64 patients (73 knees) failed non-operative management 27 professional athletes Arthroscopic Debridement: Fat pad Patellar tendon Lower pole of patella VISA scores improved significantly at 1,3,5 and 10 years. Return to sport at 3 months 19 of 27 elite athletes returned to same level of sport

-



Pascarella, Antonio, et al. "A 39.9 (2011): 1975-1983.







Surgical Management	
Immobilization after surgery	
Utilized in 4 studies	
Success rate 84.8%	
No immobilization in 4 studies	
Success rate 91.5%	
More successful outcomes without immobilization	

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