

Traditional perspective

- 1. Patellar tendinopathy is self-limiting
- 2. It is inflammatory ('tendinitis')
- 3. Imaging can be used to guide management
- 4. Conservative Rx can be effective
- 5. A shot of corticosteroids does no harm
- 5. Surgical $Rx \Rightarrow$ return to competition in 3/12



Surgical management of patellar tendinopathy



Surgical management of patellar tendinopathy

- Aims:
- 8 promote repair
- 8 return to pre-injury activity level

Surgical management of tendinopathies

- Classical orthopaedic operation:
- 8 I do not know what it does
- 8 ... but I use a bigger scalpel with a heavier hammer!

K eep I t S imple for the S imple O rthopods

Patellar tendinopathy surgery

- 1. Patient supine
- 2. Tourniquet to root of limb 250-300 mmHg
- 3. Mark area of pain
- 4. Direct midline incision over patellar tendon (normally, about 3-5 cm)
- 5. Expose the tendon
- 6. Excise the paratenon

Patellar tendinopathy surgery

7. Separate the tendon from Hoffa's body
8. Longitudinal tenotomies (normally, three)
9. Palpate to indentify area of tendinopathy
10. Excise area of tendinopathy

11. Send for histology

Patellar tendinopathy surgery

12. Leave lower pole of patella alone unless very prominent

- 13. Abundant washout
- 14. Accurate haemostasis
- 15. Close subcutaneous fat and skin
- 16. Bandage
- 17. Immediate weight bearing
- 19. Discharge







DO NOT ASK FOR PLASTICS OPINION



Arthroscopic Management of Chronic Patellar Tendinopathy

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TABLE 2 Average Outcome Scores Before Surgery and at Follow-up at 1, 3, 5, and 10 Years"						
Time From Surgery, y	Average No. of IKDC Knees Score		Average Lysholm Score	Average VISA-P Score	Average VISA-P Score for Professional Athlete	
Preoperation	73	51.6	52.3	35.3	32.4	
1	73	86.4	94.7	69.8	71.3	
3	73	86.4	95.5	70.7	70.5	
5	42	85.7	92,9	70.1		
10	29	84.2	92.3	69.4		

Open and arthroscopic patellar tenotomy

- Four year follow up
- Retrospective study Open procedure: 25 patients (29 tendons) Arthroscopic procedure: 23 patients (25 tendons)

- Two surgeons
- One performed open surgery
- One performed arthroscopic surgery



Coleman et al AJSM, 2000

Open and arthroscopic patellar tenotomy

- Symptomatic benefit: 81% (O) and 96% (A)
- Sporting success: 54% (O) and 46% (A)
- Median time to return to preinjury level of activity: 10/12 (O) and 6/12 (A)
- Median VISA: 88 (O) and 77 (A)
- No difference in outcome between types of surgery +

Coleman et al AJSM, 2000

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Review article

MEDICINE & SCIENCE IN SPORTS

Studies of surgical outcome after patellar tendinopathy: clinical significance of methodological deficiencies and guidelines for future studies

B. D. Coleman^{1,5}, K. M. Khan^{1,2}, N. Maffulli³, J. L. Cook⁴, J. D. Wark¹ for the Victorian Institute of Sport Tendon Study Group

Manage expectations 1.RTS long 2.Realistic rate of recovery (70% to 85%)

Difficult to compare surgeries

- + Subtle technical aspects of surgery, or of rehabilitation protocol may significantly change outcome
- + Opening, closing of patellar defect
- + Excision, retention of paratenon
- + Time reduced activities after surgery
- + Rehabilitation protocol
- + Andrea Ferretti; Jon Karlsson; John King; Nicola Maffulli: good stable results

Manage expectations

 Average true recovery time after patellar tendinopathy surgery:

9 months

+ Accelerated rehabilitation (Shelbourne et al 2006) :

8.1 months

 Most common cause of failure following surgery

(Attempt at) Too early return to sports

Patellar tendinopathy surgery

+ Eccentric exercise vs surgery

- − RCT ◆ 40 knees
- 40 Kilees
- No difference between groups
 - VISA 30-50 (3 months), 58 (6 months), 70 (12 months)
 - Surgery 5-12-2-1 (no symp, improved, no change, worse)
 - Eccentric 7-8-5
 - Bahr et al JBJS Am 2006

Limited indication to refer patellar tendinopathy patients for early surgery

lf			
you			
	wish		
		to	
			know
			more



knank you Thank you

