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2016 Consensus statement on return to sport from the First World Congress in Sports Physical Therapy, Bern

Clare L Ardem, ^{1,2,3} Philip Glasgow, ^{4,5} Anthony Schneiders, ⁶ Erik Witvrouw, ^{1,7} Benjamin Clarsen, ^{8,5} Ann Cools, ⁷ Boris Gojanovic, ^{10,11} Steffan Griffin, ¹² Karim M Khan, ¹³ Hävard Moksnes, ^{8,5} Stephen A Mutch, ^{14,15} Nicola Phillips, ^{1,6} Gustaaf Returin, ⁸ Robin Sadler, ⁸ Karin Gräver Silbernagel, ¹⁹ Kristian Thorborg, ^{20,21} Arnlaug Wangensteen, ^{1,8} Kevin E Wilk, ²² Mario Bizzinj²³

FREE!

Outline

- 1. Return to sport definition
- 2. Four key facts about return to sport

Participation	turn to sport	Performance
Rehabilitation Restricted training	Unrestricted participation	Statistics ≥ Pre-injury load Reinjury

Return to sport

Return to any sport

Return to competitive sport

Return to preinjury (level) sport

Return to preinjury competitive sport

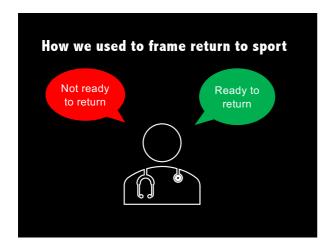
Successful return to sport?

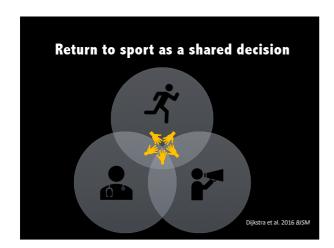
- ➤ Is it about the individual performance?
- ➤ Is it about the best result for the team?
- ➤ Is it about staying healthy?

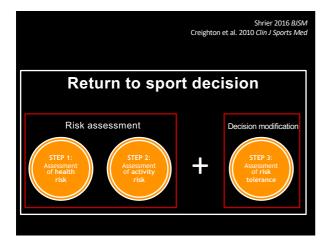


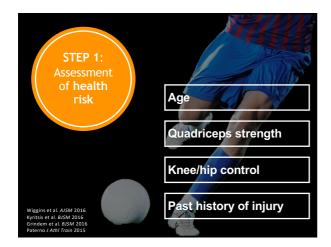
















Four key facts about return to	pivo	ling
sports after ACL injury		

- 1. ACL reconstruction ≠ return to sport
- 2. Not everyone returns to their preinjury sport
- 3. One in every four people will get a second ACL injury after returning to sport
- 4. Up to 80% of people may develop post-traumatic osteoarthritis within 15 years of injury

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ACL reconstruction ≠ return to sport

RTS after non-surgical treatment?

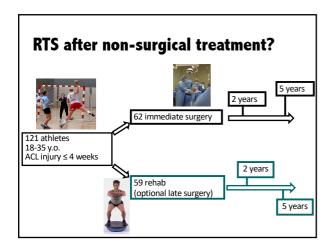


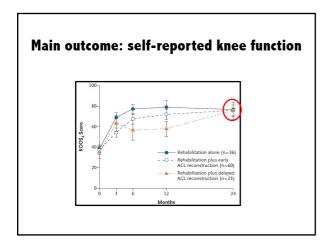
121 athletes 18-35 y.o. ACL injury ≤ 4 weeks

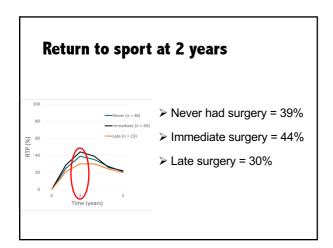
Average preinjury Tegner score = 9

(contact, pivoting sports – competitive or recreational level)

Frobell et al. 2010, 2013 NEJM, BMJ

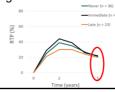






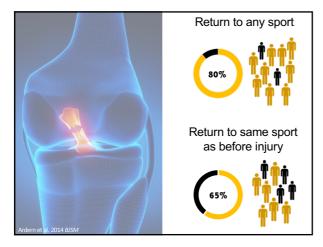
And 3 years later...

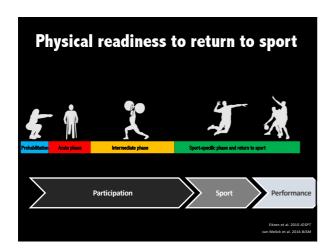
- ➤ Never had surgery = 21% still playing
- ➤ Immediate surgery = 22% still playing
- ➤ Late surgery = 20% still playing 100

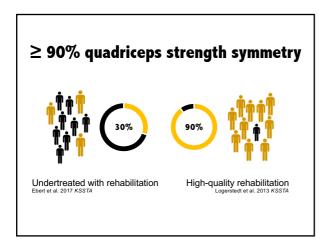


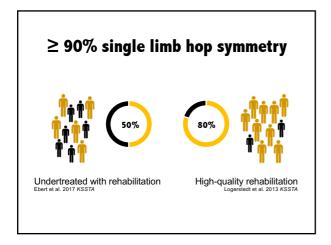
Fact #2:

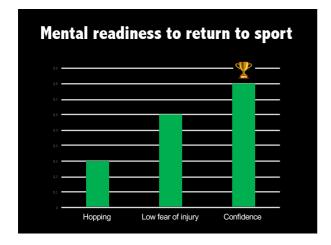
Not everyone returns to their preinjury sport







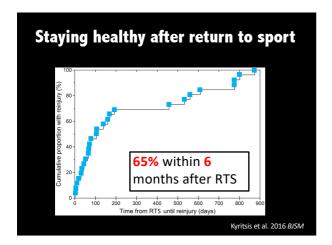


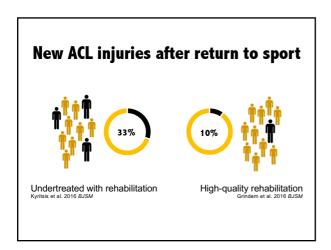


Time • Minimum 9 months rehab • Consider 12 months rehab for < 22 y.o.	What does the research say?
Hop symmetry	Grindem et al. 2016 <i>BJSM</i>
Quadriceps strength & symmetry	Kyritsis et al. 2016 <i>BJSM</i> Ardern et al. 2013 <i>AJSM</i>
Mental readiness/confidence	
On-field tests	
Agility/direction change Position-specific rehab	

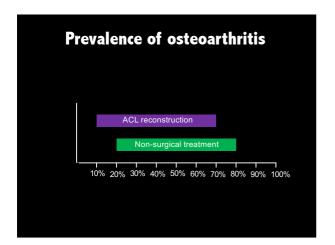
Ready to return to sport? 5 recommendations Groups of tests that mimic the sport Open tasks (closed = secondary choice) Reactive decision making when fatigued Monitor workload Assess psychological factors

Fact #3: One in 4 will get a second ACL injury





Fact #4:
Up to 1 in 8 will develop osteoarthritis
Wiggins et al. 2016 <i>AJSM</i>





3 non-negotiable clinical criteria	
1. Minimum 9 months before return to sport	
2. Quadriceps strength and symmetry	
3. Hop & agility performance	
Grindem et al. 2016 BJS	М

Free resources	
British Journal of Sports Medicine	
Evidence-based clinical practice update: practice guidelines for anterior cruciate ligament rehabilitation based on a systematic review and multidisciplinary consensus	
Nicky van Melick, ^{1,2} Robert E H van	Cingel, 3,4 Frans Brooijmans, 5 Camille Neeter, 6

British Journal of Sports Medicine 2018 International Olympic Committee consensus statement on prevention, diagnosis and management of paediatric anterior cruciate ligament (ACL) injuries Clare L Ardern, ^{1,2} Guri Ranum Ekås, ^{3,4,5} Hege Grindem, ⁶ Håvard Moksnes, ⁴ Allen F Anderson, ⁷ Frank Chotel, ⁸ Moises Cohen, ⁹ Magnus Forssblad, ¹⁰ Theodore J Ganley, ¹¹ Julian A Feller, ^{12,13} Jón Karlsson, ¹⁴ Minider S Kocher, ^{15,16} Robert F LaPrade, ^{1,18} Michael McNamer, ¹⁹ Bert Mandelbaum, ²⁰ Lyle Micheli, ^{15,16,21} Nicholas Mohtadi, ²⁰ Bruce Reider, ²³ Justin Roe, ²⁴ Romain Seil, ^{25,26} Rainer Siebold, ^{27,28} Holly J Silvers-Granelli, ²⁹ Torbjørn Soligard, ^{30,31} Erik Witvrouw, ³² Lars Engebretsen, ^{3,4,5,30}





