

Psychological readiness to return to sport: three key elements to help the practitioner decide whether the athlete is REALLY ready?

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Return to sport (RTS) outcomes after severe injury are consistently poor.^{1 2} Psychological factors are important influences on returning to sport³ yet what it means to be psychologically ready to RTS is unclear.⁴ Rarely will an athlete be held back from RTS because he/she is not psychologically ready to return. Psychological factors correlate with injury occurrence,⁵ therefore these factors should be offered greater weighting in RTS decision-making.

Characteristics of an athlete who is psychologically ready to RTS are multifaceted and include, among others: realistic expectations, high levels of self-efficacy and low levels of anxiety.^{1 4 6} Psychological readiness to RTS is likely influenced by multiple social agents, personal and contextual factors (eg, coaches, sports medicine practitioners, personality traits, performance level).⁴ Consequently, RTS decisions should be made from an interdisciplinary perspective, with multidimensional monitoring of psychological factors (eg, concurrently monitoring self-efficacy and re-injury anxiety levels).⁶

Psychological readiness to RTS is not commonly monitored in practice, despite specific instruments being available.⁷ Many practitioners feel underprepared to work within this area⁸ or might view evaluating psychological readiness to RTS as being outside their scope of their practice. On the other hand, sports medicine practitioners are ideally positioned to monitor athletes, because of the strong working relationship developed throughout injury rehabilitation.

In this editorial, we describe three key elements that practitioners can consider when monitoring psychological readiness to RTS in preparation for RTS decision-making.

THREE KEY ELEMENTS IN PSYCHOLOGICAL READINESS TO RTS DECISION-MAKING

To facilitate effective RTS monitoring, practitioners should be empowered to confidently consider the psychological aspects of RTS. An empowered practitioner is better able to appreciate the role of psychology within severe injury and use this knowledge to inform referrals to appropriate professionals (eg, accredited sport psychologist, mental health practitioner) when the limits of their professional competency have been reached (box 1).

Key element 1: how can the practitioner best monitor athletes?

Box 2 identifies tools that practitioners might use to get to know the athlete and for monitoring psychological readiness to RTS. These tools suggest thresholds to

Box 2 Examples of tools (questionnaires and inventories) that may be used by practitioners to monitor psychological readiness to RTS (formatted versions of the tools are available as on-line resources)

- ▶ Re-injury Anxiety Inventory (RIAI): <http://www.sciencedirect.com/science/article/pii/S1466853X09000996>;
- ▶ Injury-Psychological Readiness to Return to Sport Questionnaire (i-PRRS): <http://natajournals.org/doi/pdf/10.4085/1062-6050-44.2.185>;
- ▶ Knee Self-Efficacy Scale (KSES): <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-0838.2005.00472.x/abstract>;
- ▶ Tampa Scale of Kinesiophobia (TSK): <http://www.ncbi.nlm.nih.gov/pubmed/16962238>;
- ▶ ACL-Return to Sport after Injury Inventory (ACL-RSI): <http://www.sciencedirect.com/science/article/pii/S1466853X07000971>.

guide RTS decisions, although their use as clinical measures requires further evaluation and validation. We are mindful that no tool is perfect and might have completion issues associated with social desirability to RTS at a time when athlete's emotional integrity is poor,⁵ for example, athlete's inaccurately completing tools when under pressure for premature RTS. One limitation of these tools is their unidimensional nature⁶ (eg, focus on a specific injury, joint or construct), therefore it is advantageous to use multiple tools to compare and contrast findings.

Box 1 Examples of professional sports psychology associations

- ▶ British Psychological Society (BPS): <http://www.bps.org.uk/>;
- ▶ British Association of Sport and Exercise Sciences (BASES): <http://www.bases.org.uk/>;
- ▶ Australian Psychological Society (APS): <http://www.psychology.org.au/>;
- ▶ American Psychological Association (APA): <http://www.apa.org/>;
- ▶ North American Society for the Psychology of Sport and Physical Activity (NASPSPA): <https://naspspa.com/>;
- ▶ Association for Applied Sport Psychology (AASP): <http://www.appliedsportpsych.org/>.

Key element 2: use working knowledge of the athlete

We embrace the notion of 'knowing your athlete'. Practitioners and athletes share significant interactions prior to injury and during phased return to participation. Knowledge, understanding and rapport develop through these interactions. For example, the practitioner might observe an athlete is preoccupied with RTS concerns, is becoming withdrawn or adapting performance of specific movement patterns leading to subjective evaluations of RTS status. Clarifying the athlete's perceptions of support from coaches and teammates may provide information on RTS stressors and the collective RTS expectations. While tools may infer an athlete is psychologically ready to RTS, working knowledge of the athlete might suggest

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otherwise and vice versa. Monitoring athletes with tools is useful, however, the practitioner should avoid being overly reliant on these as collectively both forms of information (tools and subjective evaluations) require consideration when making informed RTS decisions.

Key element 3: adopt an interdisciplinary, shared decision-making approach

Shared decision-making, involving the key stakeholders, is central to quality RTS decisions.³ Historically, the sport medicine practitioner was the gate keeper of the RTS decision, relying primarily on physical assessments. Now the consensus is that RTS decisions should be collaborative and involve practitioners (sports medicine, sports psychology and sports science team), coach (es), parents or carers (in the case of children or vulnerable adults) and the athlete.³ Considering the collective perspectives of all stakeholders provides a more robust picture of an athlete's psychological readiness to RTS. For example, coaches can provide information regarding the athlete's intent and engagement during technical practice (eg, is there hesitance when anticipating contact?); family members can provide valuable information about behaviours away from sport. Both perspectives help

build a picture of the athlete's psychological readiness to RTS.

SUMMARY

When can the practitioner be sure that the athlete is psychologically ready to RTS? Perhaps this is difficult to predict? Or at least more difficult than physical readiness, which is, at least in part, dictated by tissue healing. As practitioners, we recognise and accept that biological scarring can have a long-term effect on function and performance. Severe injury could imprint (metaphorically) psychological scar tissue (eg, athletes report that their injury will 'never leave them'), and we should consider this aspect of RTS equally alongside the physical aspect.

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Contributors DF, AG and CA are justifiably credited with authorship, according to authorship criteria. DF and AG were jointly responsible for the original content and structure of the manuscript. CA offered collaborative critical support in appraising the content and structure and offered additional expert perspective. DF and AG completed critical revisions of the manuscript. All authors gave final approval of the manuscript.

Competing interests None declared.

Provenance and peer review Not commissioned; externally peer reviewed.

► Additional material is published online only. To view please visit the journal online (<http://dx.doi.org/10.1136/bjsports-2016-096770>).

To cite Forsdyke D, Gledhill A, Ardern C. *Br J Sports Med* Published Online First: [please include Day Month Year] doi:10.1136/bjsports-2016-096770

Accepted 16 November 2016

Br J Sports Med 2016;0:1–2.
doi:10.1136/bjsports-2016-096770

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