Research summary Which Extrinsic and Intrinsic Factors are Associated with Non-Contact Injuries in Adult Cricket Fast Bowlers?

BENITA OLIVIER, TRACY TALJAARD, ELAINE BURGER, PETER BRUKNER, JOHN ORCHARD, JANINE GRAY, NADINE BOTHA, AIMEE STEWART, WARRICK MCKINON SPORTS MEDICINE (2016) 46:79-101

CONTEXT

Fast bowlers are prone to injury. Both extrinsic (environment-related) and intrinsic (person-related) risk factors play a role in injury risk.

HOW WAS THE STUDY DONE?

The scientific literature related to extrinsic and intrinsic factors associated with noncontact injury inherent to adult cricket fast bowlers was assessed and summarised.

WHY IS THIS STUDY **IMPORTANT?**

Identifying the injury risk factors is necessary in order to optimise injury prevention efforts. Once identified, risk factors may be included in preparticipation screening tools and injury prevention programmes, and may also be incorporated in future research projects.

WHAT WAS FOUND?

- 16 studies were included in this systematic review.
- The following intrinsic factors were associated with injury: bowling shoulder internal rotation strength deficit, compromised dynamic balance and low back proprioception (joint position sense), the appearance of low back posterior element bone stress & degeneration of the disc on magnetic resonance imaging (MRI), and previous

injury.