

Accepted Manuscript

Title: Pars Interarticularis Injury in Elite Athletes – The Role of Imaging in Diagnosis and Management

Authors: King Kenneth Cheung, Ranju T. Dhawan, Lester F. Wilson, Nicholas S. Peirce, Gajan Rajeswaran



PII: S0720-048X(18)30304-8
DOI: <https://doi.org/10.1016/j.ejrad.2018.08.029>
Reference: EURR 8293

To appear in: *European Journal of Radiology*

Received date: 29-7-2018

Accepted date: 31-8-2018

Please cite this article as: Cheung KK, Dhawan RT, Wilson LF, Peirce NS, Rajeswaran G, Pars Interarticularis Injury in Elite Athletes – The Role of Imaging in Diagnosis and Management, *European Journal of Radiology* (2018), <https://doi.org/10.1016/j.ejrad.2018.08.029>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Pars Interarticularis Injury in Elite Athletes – The Role of Imaging in Diagnosis and Management

King Kenneth Cheung^a, Ranju T Dhawan^{b,c}, Lester F Wilson^d, Nicholas S Peirce^e, Gajan Rajeswaran^f

^aUniversity College London Hospital, 235 Euston Road, London NW1 2BU

^bHybrid Imaging Unit, Wellington Hospital, Wellington Place, London NW8 9LE

^cImperial College NHS Healthcare Trust, St Mary's Hospital, Praed Street, London W1 2NY

^dThe Spinal Unit, Wellington Hospital, Wellington Place, London NW8 9LE

^eChief Medical Officer, England and Wales Cricket Board, National Centre for Sport and Exercise Medicine, Loughborough University LE11 3TU

^fFortius Clinic, 17 Fitzhardinghe Street, London W1H 6EQ

Corresponding author:

Gajan Rajeswaran

grajeswaran@hotmail.com

Highlights:

- Adolescents/ young adult athletes are particularly vulnerable to pars injuries due to their immature/ developing skeleton.
- Pars injuries are especially prevalent in certain sports including tennis and cricket, and can result in significant away-from-play time and even early retirement from sports.
- Medical imaging – in particular MRI and SPECT-CT – plays a pivotal role by providing early diagnosis and accurate staging, and consequently allowing optimal and tailored management/ rehabilitation.
- A number of special considerations should be taken into account when choosing the most appropriate imaging pathway, including radiation dose, type of sports and its associated risk of pars injury/ recurrence, clinical/ professional context and stake (e.g competition schedule, stage of sports season, previous injuries).
- We propose a management-centred, risk/context/stake-stratified imaging algorithm to serves as a guide for imaging pars injury in the young elite athletes.

Download English Version:

<https://daneshyari.com/en/article/10222536>

Download Persian Version:

<https://daneshyari.com/article/10222536>

[Daneshyari.com](https://daneshyari.com)