their adherence. Thematic analysis was conducted to examine any common themes.

**Main Outcome Measurements** Adapted Sports Injury Rehabilitation Adherence Scale (SIRAS) with follow up focus groups.

**Results** This study found that men’s players had a better attendance to their performance programs than women’s players. However, men’s players felt they had less input into their rehabilitation sessions compared to women’s players, despite having a better understanding of the exercises given. Common themes that emerged from focus groups that influenced adherence were financial pressures, experience, perceptions of pain, self-determination and staff relationship – these themes were common in both men’s and women’s players.

**Conclusions** Despite differences in funding and infrastructure, both men’s and women’s professional football players identify broadly the same factors that influence adherence. Particularly, both groups felt a greater understanding of financial pressures and self-determination would allow for the fostering of an adherence culture and should be considered in future program design.

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**314** **ABSTRACT WITHDRAWN**

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**315** **RECTUS FEMORIS AND ILIOPSOAS CONTRACTURE AS A RISK FACTORS FOR OSGOOD-SCHLATTER DISEASE IN HIGH PERFORMANCE YOUTH ATHLETES**

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**Background** Osgood-Schlatter disease (OSD) of the knee in youth is one of the most frequent of anterior knee pain in athletes. There are several risk factors that contribute to this disease.

**Objective** Rectus femoris and iliopsoas contracture is a specific risk factor for the development of OSD in high performance youth athletes which come to the Centre of Applied Sciences at the sports in Jalisco.

**Design** The study design was cross-sectional, observational and descriptive. Participants were patients under 16 years of age who had an orthopedic consult during 2017 and 2018 and who had clinical and radiologic diagnosis of OSD. Measurement of the contracture was completed with the patient in recumbent prone position and with the quadriiceps in a stretched position: the knee was flexed until the heel touched the gluteus. The epidemiological and quantitative results were calculated using excel with a significance level of α = 5%.

**Setting** Centre of Applied Sciences for Sports in Jalisco.

**Patients (or Participants)** 63 players were followed between 1998 and 2019, since they were on average 10.7 years old (80.8% of adult height) until they reached their final height (one full season at 100%).

**Main Outcome Measurements** The percentage of adult height at which each injury occurred was calculated using the player’s closest height to the injury and his final adult height. Injuries were classified in maturity bands, Pre-peak height velocity (Pre-PHV) <88%, Peak height velocity (PHV) 88–95% and Post-peak height velocity (Post-PHV) >95%.

**Results** Sever’s disease occurred at a median 87.8% of adult height (interquartile range: 82.3–91.5%), band with the highest frequency: 58.8% pre-PHV, Osgood-Schlatter disease at 87.2% (85.9–91.2%), 54.2% pre-PHV and anterior inferior iliac spine injuries at 91.0% (88.9–93.8%) and Post-peak height velocity (Post-PHV) >95%.

**Conclusions** Low elasticity of the rectus femoris and iliopsoas as a specific risk factor for the development of OSD in youth athletes was statistically significant (p = 0.05). General risk factors of this disease are described in the literature, the majority of which are non-modifiable. In contrast, contracture of the quadriceps and iliopsoas are modifiable risk factors for which preventative interventions could be implemented.