0.031) and KOOS activity of Daily Living Function (4.71, 95% CI 1.20 to 8.22; p = 0.010) than CON.

Conclusion In ACLR participants with persistent hamstrings muscle deficiency, 12 weeks of supervised progressive strength training was superior compared to low-intensity home based exercises (usual care) for improving knee flexor muscle strength and some patient reported outcomes.

IS ABSOLUTE OR RELATIVE KNEE FLEXOR STRENGTH RELATED TO PATIENT-REPORTED OUTCOMES IN PATIENTS WITH ACL RECONSTRUCTION WITH HAMSTRING TENDON AUTOGRAFT?

Background There is a need for better understanding of how knee flexor strength influence patient-reported outcomes (PROs) after anterior cruciate ligament (ACL) reconstruction. Therefore, the aim was to investigate the relationship between the eccentric NordBord test and the seated concentric Biodex test, with PROs, during the first year of rehabilitation after ACL reconstruction with a hamstring tendon (HT) autograft.

Methods Data of patients with an index ACL reconstruction with an HT-autograft participating in a rehabilitation registry were screened for inclusion. Outcomes of interest were the correlation between absolute (N/kg or Nm/kg) and relative (limb symmetry index) knee flexor strength measured in the NordBord and Biodex with the results of PROs. The significance level was set at p<0.05 and Pearson’s correlation coefficient was used.

Results 137 patients were included (47% women) with a mean age of 24.8±8.4 years. There were non-significant and weak correlations between absolute strength in the Nordbord with the KOOS at 4 and 8 months, and for the ACL-RSI at 8 months present at 4 and 8 months, and for the ACL-RSI at 8 months significant was used. The modified Epstein classification had fair to moderate agreement with the K-SES18 present at 4 and 8 months, and for the ACL-RSI at 8 months, the K-SES18 present and the ACL-RSI at 8 months 14.4% of the variance.

Conclusion Therefore, the aim was to investigate the relationship between absolute (N/kg or Nm/kg) and relative strength for all PROs. Significant and weak correlations between absolute strength in the Nordbord with the KOOS-Sports at 4 months, the K-SES18 present and the ACL-RSI at 8 months, the K-SES18 present and the ACL-RSI at 8 months 14.4% of the variance.

THE NONCONTACT ANKLE SPRAIN IS NOT ALWAYS THE RESULT OF A “BAD LANDING”: A SYSTEMATIC VIDEO-ANALYSIS OF 145 NON-CONSECUTIVE CASES

Introduction The noncontact lateral ankle sprain is the most common injury in indoor and court sports. Here, it is predominantly described as occurring via a mechanism that typically incites from an initial “bad landing” – with the foot in inverted position. Descriptions of the actual foot landing posture prior to injury has, however, only been documented in few quantitative cases, or simply retrospectively reported by the incurring athletes during prospective trials. Therefore, we aimed to determine the initial foot landing posture using video-recorded injuries.

Materials and Methods In this explorative, observational, non-consecutive, case-series study, two independent, blinded, analysts systematically retrieved and analysed 585 video-recorded lateral ankle sprain injuries.

Results 445 injuries remained after 79 duplicates, and 61 videos with no clear view or non-lateral joint excursión, had been excluded. Of these, 113 (25%) were noncontact and 32 (7%) were indirect-contact injuries. Among the 113 noncontact injuries, 18 (16%) were characterised by initial contact on the lateral side, while 95 (84%) had a medial- or flat landing posture prior to injury. Among the 32 indirect-contact injuries, 9 (28%) injuries had initial contact on the lateral side, while 23 (72%) had a medial- or flat landing posture.

Conclusion Contrary to our expectations, most noncontact injuries were not caused by an initial “bad landing” with the foot in an initially inverted position. It is important to concede that the noncontact lateral ankle sprain can indeed occur and progress irrespective of initial foot landing posture. Joint stiffness might be more important than joint position.

INTERRATER AND INTRARATER RELIABILITY OF FOUR DIFFERENT CLASSIFICATION METHODS FOR EVALUATING ACROMIAL MORPHOLOGY ON STANDARDIZED RADIOGRAPHS

Introduction Acromial morphology is an important pathophysiological factor for the development of subacromial impingement syndrome. There are three radiological methods to evaluate acromial morphology: Bigliani, Modified Epstein, and Acromial angle. However, their reliability have not been compared in a single study, nor using standardized radiographs. Consequently, the evaluation of acromial morphology is currently not validated through its widespread use across the world. The objective of this study was to investigate reliability of the three known classifications and the novel Acromial curve classification.

Materials and Methods Three experienced clinicians rated 102 standardized supraspinatus outlet view radiographs with the four classification methods in two separate sessions a month apart. All measurements were blinded. With an expected kappa and ICC > 0.7 (± 0.15), the target sample size was 87 radiographs.

Results The Bigliani classification had interrater and intrarater reliability ranging from fair to good (Kappa 0.32–0.41 and 0.26–0.62). The modified Epstein classification had fair to good...