halves and Number 8s (2.6%). The most common injury location was the ankle (21.4%) and 42.9% of ankle injuries were suffered by Locks. There was a significant association (p=0.010) between player position and injury location. In contrast, no significant associations (p>0.05) were observed between player position and contact injury, contact event or injury type.

Conclusions The Lock position was more prone to injury than any other position during SLUG 2019 but the majority of the players were injured regardless of the playing position. Thorough physical conditioning and skill practice could be key areas of concern to reduce injuries in university-level rugby.

**252 RELATIONSHIP BETWEEN BALANCE AND LOWER EXTREMITY ROM, H/Q RATIO, HAMSTRING TIGHTNESS, BEIGHTON SCORE IN PROFESSIONAL FOLK DANCERS AND PROFESSIONAL FOOTBALL PLAYERS**

2Busra Akgonul, 1Vefa Atansay, 1Aşkan Nedin Kara, 1Azmi Hamzaoglu, 1Neslihan Aksu. 
1Dergiçolu Bilim University Medical Faculty Florence Nightingale Hospital Orthopedics and Traumatology Department, Istanbul, Turkey; 2Süleymaniye Florence Nightingale Hospital Physical Therapy and Rehabilitation Department, Istanbul, Turkey; 3Istanbul Florence Nightingale Hospital Orthopaedic and Spine Center, Istanbul, Turkey

**Background** One of the factors of performance is to be agile that would require combination of speed, balance, power and coordination. Balance analysis is often used as an indication of risk of frequent injuries. In most of the sports, proprioceptive education programs are adapted to prevent lower extremity functional injuries.

**Objective** We aimed to determine the difference in balance between professional dancers and professional footballers and its relationship with lower extremity ROM, muscle strength (hip adductor- adductor, quadriceps, hamstring), H/Q ratio, hamstring tightness (Sit and reach, Straight Leg Raise (SLR) test), hypermobility test (Beighton score).

**Design** Prospective comparative study.

**Setting** Professional folk dancers (Fire of Anatolia Dance Group) and Premier League football players.

**Patients (or Participants)** Volunteered 20 professional folk dancers and 20 Premier League football players.

**Interventions (or Assessment of Risk Factors)** Hamstring tightness, decreased ROM, Beighton score (smaller or equal of 3, greater or equal of 5) is the risk factor for static and dynamic balance decrease.

**Main Outcome Measurements** SportKAT 4000 (Kinesthetic Ability Trainer) measurements (p<0.005) are better in dancers (eyes open with both feet, right leg only, left leg only, eyes closed both feet, eyes open dynamic both feet) compare to athletes. Active ROM angles (p<0.005) are significantly higher in dancers’ hip, knee and ankle compare to athletes. Our findings showed that dancers’ Beighton score was 3.8±2.3 and athletes’ score was 2.5±1.5. Hamstring length in dancers was 95.5±10 and athletes was 76.6±7.1.

**Results** Dancers’ static and dynamic balances (p<0.005) are significantly better than athletes. H/Q ratios are not different between dancers and athletes; however, dancers’ Hamstring length (p<0.005) is higher compare to athletes.

**Conclusions** Decreased flexibility and ROM cause lesser resistance to perturbation and balance problems. We think that dancer are better in static and dynamic balances compare to athletes due to greater ROM degrees and Hamstring flexibility.

**253 RISK MANAGEMENT THROUGH AN ASSERTIVE PRESEASON ASSESSMENT**

1Natália FN Bittencourt, 1Renato de Paula da Silva, 1Paola de Figueiredo Caldeira, 1Robson José Rodrigo Tavares de Almeida, 1Carlos Jorge Ottoni, 1Gustavo Damásio Magliocca, 1Luciana De Micheli Mendonça. 1PHAST – Physical Therapy Assessment Tool, Belo Horizonte, Brazil; 2Sociedade Esportiva Palmeiras, São Paulo, Brazil; 3UFVJM – Universidade Federal dos Vales do Jequitinhonha e Mucuri, Diamantina, Brazil

**Background** Preseason assessment is common in sports teams and aims to analyze athletes’ physical and functional parameters. These data assist physical therapists to develop global and individualized injury prevention programs and to identify any improvement throughout the season.

**Objective** To determine predictors for musculoskeletal injuries in youth male soccer athletes.

**Design** Cohort study.

**Setting** One youth soccer team facility.

**Patients (or Participants)** One hundred sixteen young male soccer athletes.

**Interventions (or Assessment of Risk Factors)** All data were collected in two days. Athletes were aleatory selected to perform the tests and the physical therapists, previously trained, applied the following tests: single leg hamstring bridge (SLHB), bridge test with unilateral knee extension, passive hip internal rotation (IR) range of motion (ROM), hip abductor strength, hamstring flexibility and composite score of Y-Test. Considering it could have an interference in other tests, Y-Test were the last measure in all athletes. Injuries were collected throughout the season.

**Main Outcome Measurements** Any lower limb (LL) injury occurring during scheduled games or practices that cause an athlete to miss a subsequent game or practice session.

**Results** The Classification and Regression Trees (CART) model identified as predictors of LL injuries in youth soccer athletes: SLHB, bridge test with unilateral knee extension, passive hip internal rotation ROM, hip abductor strength, hamstring flexibility and composite score of Y-Test result. The model had an accuracy of 76% (p<.0001) and the correct classification was 88.6% for injury and 56.6% for non-injury.

**Conclusions** The SLHB, bridge test with unilateral knee extension, passive hip internal rotation ROM, hip abductors strength, hamstrings flexibility and composite score of Y-Test should be included in pre-season assessment in youth soccer athletes. The results of these tests could be used as parameters to develop a prevention program in soccer.

**254 PRE-SEASON CLINICAL ASSESSMENT OF THE HIP EXTENSORS, EXTERNAL ROTATORS AND ABDUCTORS IN COMPETITIVE SPRINTERS**

1,2Pedro Luiz Flores Fagnani, 3,4,5Natália FN Bittencourt, 2Fabian Peralta. 1EUSES/UGG/University of Barcelona (U.B.), Barcelona, Spain; 2FaixaDeportiva, Barcelona, Spain; 3Department of Public Health of EMGO + Institute at the VU University Medical Center, Amsterdam, Netherlands; 4Uni Bh University, Belo Horizonte, Brazil; 5Phast App, Belo Horizonte, Brazil

**Background** Preseason assessment is common in sports teams and aims to analyze athletes’ physical and functional parameters. These data assist physical therapists to develop global and individualized injury prevention programs and to identify any improvement throughout the season.