s52 Day 1. Posters – Sport and Performance

performance characteristics of an elite inter-county squad at three time points. Following ethical approval and informed consent 26 participants were assessed at

- 815 the start of preseason (November), following preseason (January) and in-season (March). Measurements included stature, body mass, sum of 8 skinfold sites (ΣSkf8), estimated body fat (bf%), squat jump (SJ) and countermovement jump (CMJ) height, 5-, 10- and 20-
- 820 m sprint speed, 1 repetition maximum (1RM) bench press (1RM-BP), 1 RM deadlift (1RM-DL) and YoYo intermittemt recovery test (IRT) 2. A multivariate analysis of variance (MANOVA) was used to determine variations. The mean squad stature, body mass,
- 825 Σ Skf8 and bf% were 183.5 ± 7.5 cm, 85.4 ± 10.4 kg, 96.2 ± 32.4 mm and 12.4 ± 2.6%, respectively. Anthropometric variations were observed with an overall increase in participants' body mass, with subsequent decreases in Σ Skf8 and bf% (-21.5%,
- 830 P = .002; -1.43%, P = .004) from November to March. A positional variation was observed with midfielders having greatest stature (192.4 ± 4.3 cm), while full-forwards showed highest body mass and adiposity (93.2 ± 16.5 kg, 130.3 ± 36.4 mm, 15.2 ± 2.7%).
- Performance variations showed improvements in average speed over 5 and 10 m (-7%, P = .001; -3.4 %, P = .008, respectively), SJ (+10.1%, P = .013), CMJ (+9.8%, P = .013), 1RM-DL (+19.7%, P = .013), Yo-Yo IRT2 (+34.9%, P < .001) and estimated VO_{2max}
- 840 (8.8%, P < .05) noted from November to March, with minor improvements observed in January. Performance variations (all P < .05) showed half-forwards performed the best for SJ and CMJ (36.7 ± 4.2 cm, 38.3 ± 4.1 cm, respectively) and achieved higher distances in the YoYo IRT2 (1432 ± 422 m). Midfielders possessed the lowest
- jump height in SJ (30.3 \pm 3.8 cm) and CMJ (31.5 \pm 4.1 cm,). Half-backs achieved the fastest sprint speeds over 5 and 10 m (1.1 \pm 0.1 s, 1.8 \pm 0.1 s) while midfielders were significantly slower than all other
- positions over 20 m (P = .029). Variations are evident with respect to anthropometric and performance profiles across a Gaelic football season. Anthropometric variations are more pronounced following preseason to in-season, while performance variations are noted
- between start of preseason and following preseason. Applied practitioners should consider these findings when implementing a season training plan.

D1.P51. The effect of acute fatigue on countermovement jump performance in rugby union players during preseason training

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A countermovement jump (CMJ) is routinely used in many sporting settings to provide a functional measure of neuromuscular fatigue. However, the variables that are most sensitive to fatigue remain 870 (Gathercole, somewhat unclear Sporer, and Sleivert, 2015, International Stellingwerff, Journal of Sports Physiology and Performance, 10, 84-92). The aim of this study was to examine the 875 usefulness of selected CMJ variables to monitor the post-exercise fatigue and recovery cycle. With institutional ethics approval, nine male academy rugby union players performed five CMJ trials on three occasions, at baseline, 24 h and 48 h post-baseline. The fatiguing protocol consisted of a typical intense 880 training day during the preseason period (speed/ skills training AM and resistance training PM). A total of 21 CMJ variables were derived from the force-time curve, 15 relating to output (CMJ-OUT) and 6 relating to the mechanics of the jump 885 (CMJ-MEC). Data were analysed using a repeated measures one-way ANOVA with Bonferroni post hoc comparisons. There were no significant differences for any CMJ variable at the 24 h time point. At 48 h, three CMJ-MEC variables (eccentric duration, 890 total duration and the force at zero velocity) demonstrated a significant decrement in performance when compared to baseline (P < 0.05). Neuromuscular fatigue may manifest itself as an altered movement strategy rather than a simple reduction in physical 895 output, when measured using a CMJ. Practitioners are therefore advised to incorporate CMJ-MEC variables when trying to identify subtle changes in the bimodal recovery pattern associated with stretchshortening cycle induced fatigue. Such information 900 may help with the prescription of optimal training loads, whilst attempting to avoid overtraining and injury.

D1.P52. Lower body compression tights elicit a practically significant benefit on 905 sub-maximal running economy but not vertical jump performance

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910