**Supplemental Digital Content 7. Hazard ratio for muscle injury according to the *COL1A1* rs1107946 genotypes in male athletes**

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| --- | --- | --- |
|  | rs1107946 genotype | *P*-value |
|  | AA (n = 62) | CC+AC (n = 286) |
| Training-exposure hours | 1153 ± 507 | 1261 ± 592 |  |
| Player-hours of training-exposure | 71,513 | 360,636 |  |
| Incidence of muscle injury, n (%) | 3 (4.8) | 27 (9.4) | 0.322a |
| Incidence per 1,000 player-hours | 0.04 | 0.07 |  |
| Unadjusted hazard ratio (95% CI) | 1.00 (Reference) | 1.70 (0.51–5.62) | 0.387b |
| Multivariable adjusted hazard ratio\* (95% CI) | 1.00 (Reference) | 1.66 (0.50–5.52) | 0.405b |

\*Adjusted by main sport (track & field or other). CI, confidence interval. a *P*-value by the Fisher’s exact test, b *P*-value by the Cox proportional hazards model.