**Supplemental Digital Content 5. Hazard ratio for fatigue fracture according to the *COL1A1* rs1107946 genotypes in male athletes**

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| --- | --- | --- | --- |
|  | rs1107946 genotype | | *P*-value |
|  | AA (n = 69) | CC+AC (n = 309) |
| Training-exposure hours | 1191 ± 495 | 1289 ± 600 |  |
| Player-hours of training-exposure | 82,156 | 398,264 |  |
| Incidence of fatigue fracture, n (%) | 5 (7.3) | 12 (3.9) | 0.211a |
| Incidence per 1,000 player-hours | 0.06 | 0.03 |  |
| Unadjusted hazard ratio (95% CI) | 1.00 (Reference) | 0.49 (0.17–1.41) | 0.188b |
| Multivariable adjusted hazard ratio\* (95% CI) | 1.00 (Reference) | 0.51 (0.18–1.47) | 0.211b |

\*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.