**S3 Table Mean (SD) peak velocity between the two environments during the concentric phase of the movement.**

|  |  |  |  |
| --- | --- | --- | --- |
|   | Shank | Thigh | Thorax |
|   | X | Y | X | Y | X | Y |
| Squat |  |  |  |  |  |
| Land (°∙s-1) | 19.5 ± 8.1 | 8.8 ± 4.3 | 42.9 ± 8.5 | 13.7 ± 8.9 | 23.1 ± 7.2 | 2.1 ± 0.9 |
| Pool (°∙s-1) | 20.2 ± 8.3 | 12.3 ± 8.4β | 48.7 ± 18.6 | 14.5 ± 12.8 | 18.9 ± 10.0 | 2.7 ± 2.0 |
| Split squat |  |  |  |  |  |
| Land (°∙s-1) | 24.1 ± 8.9 | 10.3 ± 5.5 | 33.2 ± 9.2 | 14.6 ± 10.9 | 6.6 ± 5.2 | 2.8 ± 2.2 |
| Pool (°∙s-1) | 20.0 ± 7.3β | 10.1 ± 4.3 | 23.9 ± 8.9 | 10.9 ± 5.2 | 6.7 ± 4.7 | 3.1 ± 2.7 |
| Single-leg squat |  |  |  |  |  |
| Land (°∙s-1) | 7.9 ± 3.8 | 10.3 ± 5.5 | 30.7 ± 9.7 | 14.6 ± 9.8 | 21.6 ± 8.1 | 2.8 ± 2.2 |
| Pool (°∙s-1) | 11.4 ± 6.4β | 10.4 ± 4.3 | 35.2 ± 13.3 | 10.9 ± 5.2 | 17.4 ± 7.0β | 3.1 ± 2.7 |

X, Extension Y, Abduction Z, External rotation
CV, coefficient of variability
Positive percentages indicate larger movement variability in the aquatic environment, and negative percentages indicates larger movement variability on land
\* indicates significant difference between environments at P<0.05
α – indicates *large* effect size at Cohen’s d >0.8
β – indicates *moderate* effect size at Cohen’s d>0.5