

Table S1. Descriptive statistics for secondary SJ, CMJ and CMJH variables obtained from AMTI and PlateMate

		SJ				
Phase	Variable (Unit)	AMTI		PlateMate		AMTI vs PlateMate
		Mean	SD	Mean	SD	MD
Propulsion Phase	vto (m·s ⁻¹)	2.31	0.22	2.23	0.22	0.07
	Favg_PP (N)	1277.28	250.49	1258.28	248.62	19.01
Flight Phase	dt_FP (s)	0.48	0.05	0.48	0.05	0.00
	F1_LP (N)	3042.87	1209.92	3009.51	1202.06	33.36
Landing Phase	F2_LP (N)	1574.00	443.00	1562.00	435.00	12.00
	dt_F1_LP (s)	0.07	0.02	0.07	0.02	0.00
	dt_F2_LP (s)	0.13	0.04	0.14	0.04	-0.00
Performance Metrics	hmax_vto (m)	0.27	0.06	0.22	0.06	0.04
	hmax_IMP (m)	0.27	0.05	0.26	0.05	0.02
		CMJ				
Unweighting Phase	dt_Fmin (s)	0.18	0.04	0.18	0.04	0.00
	Fmin_UP (N)	573.51	143.02	567.09	143.03	6.41
	Favg_UP (N)	331.80	88.14	326.52	88.17	5.28
Braking Phase	hmin_BP (m)	-0.35	0.04	-0.35	0.04	0.00
	Favg_BP (N)	756.76	139.22	748.38	139.26	8.38
Propulsion Phase	vto (m·s ⁻¹)	2.48	0.27	2.46	0.27	0.02
	Favg_PP (N)	1451.05	325.41	1427.91	322.48	23.15
	J_PP (N·s)	203.80	50.29	200.62	49.91	3.18
Flight Phase	dt_FP (s)	0.52	0.06	0.52	0.06	0.00
	F1_LP (N)	3278.68	1319.63	3234.85	1292.77	43.83
Landing Phase	F2_LP (N)	1600.68	493.55	1609.38	487.46	-8.69
	dt_F1_LP (s)	0.06	0.02	0.06	0.02	-0.00
	dt_F2_LP (s)	0.13	0.06	0.14	0.06	-0.01
Performance Metrics	hmax_vto (m)	0.32	0.07	0.32	0.07	0.00
	hmax_IMP (m)	0.32	0.07	0.31	0.07	0.00
		CMJH				
Unweighting Phase	dt_Fmin (s)	0.19	0.05	0.19	0.05	0.00
	Fmin_UP (N)	522.04	154.93	515.86	154.35	6.18
	Favg_UP (N)	299.64	110.37	294.33	110.90	5.31
Braking Phase	hmin_BP (m)	-0.33	0.06	-0.33	0.06	0.00
	Favg_BP (N)	757.58	141.76	750.54	141.38	7.04
Propulsion Phase	vto (m·s ⁻¹)	2.65	0.26	2.64	0.26	0.02
	Favg_PP (N)	1471.98	326.56	1449.00	324.61	22.98
	J_PP (N·s)	217.01	51.99	213.93	51.71	3.07
Flight Phase	dt_FP (s)	0.56	0.06	0.56	0.06	0.00
	F1_LP (N)	3511.21	1353.39	3461.62	1358.40	49.58
Landing Phase	F2_LP (N)	1625.12	605.79	1595.16	593.63	29.96
	dt_F1_LP (s)	0.06	0.02	0.06	0.02	0.00
	dt_F2_LP (s)	0.13	0.05	0.13	0.05	-0.01
Performance Metrics	hmax_vto (m)	0.37	0.07	0.37	0.07	0.00
	hmax_IMP (m)	0.36	0.07	0.36	0.07	0.00

Note: SD- Standard Deviation; MD- Mean Difference.

Table S2. Validity statistics for secondary SJ, CMJ and CMJH variables obtained from AMTI and PlateMate.

		SJ			
Phase	Variable (Unit)	ICC (95% CI)	CV%	SEM	r
Propulsion Phase	vto (m·s ⁻¹)	0.974 (0.963 ÷ 0.982)	2.18	0.049	0.950*
	Favg_PP (N)	0.999 (0.999 ÷ 0.999)	0.60	7.581	0.999*
Flight Phase	dt_FP (s)	0.999 (0.999 ÷ 0.999)	0.14	0.001	0.999*
	F1_LP (N)	0.999 (0.999 ÷ 0.999)	1.15	34.75	0.999*
Landing Phase	F2_LP (N)	0.983 (0.976 ÷ 0.988)	5.09	79.80	0.967*
	dt_F1_LP (s)	0.998 (0.998 ÷ 0.999)	1.68	0.001	0.997*
	dt_F2_LP (s)	0.979 (0.969 ÷ 0.985)	6.40	0.009	0.959*
Performance Metrics	hmax_vto (m)	0.738 (0.618 ÷ 0.820)	14.57	0.036	0.585*
	hmax_IMP (m)	0.975 (0.965 ÷ 0.983)	4.27	0.011	0.953*
		CMJ			
Unweighting Phase	dt_Fmin (s)	0.995 (0.993 ÷ 0.996)	2.42	0.00	0.990*
	Fmin_UP (N)	0.999 (0.999 ÷ 0.999)	0.4	2.29	0.999*
	Favg_UP (N)	0.999 (0.999 ÷ 0.999)	0.71	2.33	0.999*
Braking Phase	hmin_BP (m)	0.999 (0.998 ÷ 0.999)	-0.55	0.00	0.998*
	Favg_BP (N)	0.999 (0.999 ÷ 0.999)	0.35	2.67	0.999*
Propulsion Phase	vto (m·s ⁻¹)	0.996 (0.994 ÷ 0.997)	0.96	0.02	0.992*
	Favg_PP (N)	0.999 (0.999 ÷ 0.999)	0.6	8.70	0.999*
	J_PP (N·s)	0.999 (0.999 ÷ 0.999)	0.88	1.77	0.999*
Flight Phase	dt_FP (s)	0.999 (0.999 ÷ 0.999)	0.36	0.00	0.999*
	F1_LP (N)	0.998 (0.997 ÷ 0.999)	2.47	80.32	0.996*
Landing Phase	F2_LP (N)	0.973 (0.960 ÷ 0.981)	7.05	113.1	0.946*
	dt_F1_LP (s)	0.996 (0.994 ÷ 0.997)	2.45	0.00	0.992*
	dt_F2_LP (s)	0.978 (0.969 ÷ 0.985)	9.2	0.01	0.962*
Performance Metrics	hmax_vto (m)	0.990 (0.985 ÷ 0.993)	3.07	0.01	0.980*
	hmax_IMP (m)	0.996 (0.994 ÷ 0.997)	1.94	0.01	0.992*
		CMJH			
Unweighting Phase	dt_Fmin (s)	0.993 (0.990 ÷ 0.995)	2.93	0.01	0.986*
	Fmin_UP (N)	0.999 (0.999 ÷ 0.999)	0.51	2.67	0.999*
	Favg_UP (N)	0.999 (0.999 ÷ 0.999)	1.06	3.14	0.999*
Braking Phase	hmin_BP (m)	0.998 (0.997 ÷ 0.998)	-1.26	0.00	0.996*
	Favg_BP (N)	0.999 (0.999 ÷ 0.999)	0.82	6.22	0.998*
Propulsion Phase	vto (m·s ⁻¹)	0.991 (0.986 ÷ 0.993)	1.34	0.04	0.982*
	Favg_PP (N)	0.999 (0.999 ÷ 0.999)	0.51	7.49	0.999*
	J_PP (N·s)	0.999 (0.999 ÷ 0.999)	0.94	2.03	0.998*
Flight Phase	dt_FP (s)	0.999 (0.999 ÷ 0.999)	0.23	0.00	0.999*
	F1_LP (N)	0.999 (0.998 ÷ 0.999)	1.93	67.16	0.998*
Landing Phase	F2_LP (N)	0.950 (0.928 ÷ 0.966)	11.47	184.6	0.905*
	dt_F1_LP (s)	0.999 (0.999 ÷ 0.999)	1.55	0.00	0.998*
	dt_F2_LP (s)	0.983 (0.975 ÷ 0.988)	6.97	0.01	0.966*
Performance Metrics	hmax_vto (m)	0.980 (0.972 ÷ 0.986)	3.79	0.01	0.962*
	hmax_IMP (m)	0.991 (0.988 ÷ 0.994)	2.53	0.01	0.983*

Note: ICC- Intraclass Correlation Coefficient; 95% CI- 95% Confidence Interval; CV%- Coefficient of Variation (%); SEM- Standard Error of Measurement; r- Pearson's r; * p<.001.