

Appendix 5. Fixed model of Meta-analysis for each construct and moderator analysis for cognitive demands in locomotion, frontal, and sagittal kinematic constructs

Construct	k	Hedges' g	95% CI	p	I²	Cochran's Q	df	p
LAS								
Postural stability	38	0.36	0.27, 0.45	<.001*	58.38	88.91	37	<.001*
Locomotion	51	0.31	0.23, 0.38	<.001*	72.38	181.01	50	<.001*
ACL								
Frontal plane kinetics	7	0.46	0.21, 0.70	<.001*	56.31	13.73	6	.033
Frontal plane kinematics	12	-0.15	-0.36, 0.05	.143	26.55	14.98	11	.184
Sagittal plane kinetics	8	-0.34	-0.96, 0.29	.289	84.09	43.99	7	<.001*
Sagittal plane kinematics	16	0.30	0.12, 0.47	.001*	20.39	18.84	15	.221
Impact loading	5	0.21	-0.09, 0.50	.165	0	3.10	4	.541
Trunk mechanism	5	0.31	-0.01, 0.62	.057	0	0.46	4	.978
Moderator	k	Hedges' g	95% CI	I²	Cochran's Q	df	p	
Locomotion				82.24	181.01	50	<.001*	
Single task	29	0.34	0.24, 0.43					
Dual task	22	0.27	0.16, 0.39					
Frontal Plane kinematics				26.55	14.98	11	.184	
Single task	10	-0.06	-0.28, 0.15					
Dual task	2	-0.97	-1.62, -0.32					
Sagittal Plane kinematics				20.39	18.84	15	.221	
Single task	14	0.27	0.09, 0.45					
Dual task	2	.062	-0.003, 1.25					

LAS, lateral ankle sprain; ACL, anterior cruciate ligament; CI, confident interval; df, degree of freedom

* $p < .05$