Table 1. Studies examining the effects of mental fatigue on exercise performance. Studies not included in quantitative meta-analysis are marked with *. TTE: Time to exhaustion test; TT: Time-trial; MVC: Maximal voluntary contraction; LSPT: Loughborough soccer passing test.

Reference	Participants	N	Experimental task	Control task	Type of exercise	Test	Measure	↓Performance	↑RPE	Mental fatigue
Marcora et al. (2009)	Recreational	18	90min-AX-CPT	90min- documentary	Externally- paced	Cycling TTE 80%	Time	Yes	Yes	Yes
Brownsberger et al. (2013) *	Recreational	12	90min-AX-CPT	90min- documentary	Self-paced	Cycling TT- 10min RPE 15	Power output	Yes	-	Yes
Pageaux et al. (2013)	Recreational	8	90min-AX-CPT	90min- documentary	Strength	TTE MVC	Time	Yes	Yes	Yes
MacMahon et al. (2014)	Well-trained	16	90min-AX-CPT	90min- documentary	Self-paced	Running TT- 3km	Time	Yes	No	No
Pageaux et al. (2014)	Recreational	20	30min-Stroop	30min-Stroop- control	Self-paced	Running TT- 5km	Time	Yes	Yes	No
Duncan et al. (2015)	Well-trained	8	40min-Sustained Attention	40min- documentary	Maximal Effort	Cycling 30seg Wingate	Power output	No	No	Na
Martin et al. (2015)	Well-trained	16	90min-AX-CPT	90min- documentary	Maximal Effort	Cycling 3min all-out	Power output	No	No	No

Smith et al. (2015)	Well-trained	10	90min-AX-CPT	90min- documentary	Self-paced	Running TT- 45min	Distance	Yes	Yes	Yes
Azevedo et al. (2016)	Recreational	12	90min-AX-CPT	90min- documentary	Externally- paced	Cycling TTE 80%	Time	No	No	No
Badin et al. (2016)	Elite	12	30min-Stroop	30min- documentary	Soccer Specific	Small side game	Distance	No	No	No
Head et al. (2016)	Recreational	17	52min-Go/NoGo	52min- documentary	Strength	20min Body resistance exercise	Repetitions	Yes	-	Yes
Martin et al. (2016)	Elite	11	30min-Stroop	10 min seated	Self-paced	Cycling TT- 20min	Power output	No	No	No
Martin et al. (2016)	Recreational	9	30min-Stroop	10 min seated	Self-paced	Cycling TT- 20min	Power output	Yes	No	Yes
Smith et al. Exp1 (2016)	Recreational	12	30min-Stroop	30min-seated	Externally- paced	Running (Yo-Yo test)	Distance	Yes	Yes	Yes
Smith et al. Exp2 (2016)	Well-trained	14	30min-Stroop	30min-seated	Soccer Specific	LSPT	Time	No	-	Yes

Otani et al (2017)	Recreational	20	90min Stroop/ Sternberg/Rapid visual information	90min- documentary	Externally- paced	Cycling TTE 80%	Time	Yes	No	Yes
Van Cutsem et al. (2017) *	Well-trained	10	45min-Stroop	45min Documentary	Externally- paced	Cycling TTE- 15min 80%	Time	No	No	Yes
Veness et al. (2017)	Elite	10	30min-Stroop	30min reading	Externally- paced	Running (Yo-Yo test)	Distance	Yes	Yes	
Vrijkotte et al. (2018) *	Well-trained	9	90min-Stroop	90min-seated	Externally-paced	Cycling Incremental test	Power output	No	No	Yes
Brown et al. (2019)	Recreational	25	50min-AX-CPT	50min documentary	Self-paced	Cycling TT- 30min	Total work (Kj)	Yes	No	Yes
Clark et al. (2019)	Well-trained	10	30min-Stroop	30 min documentary	Self-paced	Cycling TT-6min	Total work (Kj)	No	-	Na
Clark et al. (2019)	Recreational	10	30min-Stroop/n-back	30 min documentary	Self-paced	Cycling TT-6min	Total work (Kj)	No		Na
Filipas et al. (2018)	Well-trained	8	60min-Stroop	60min- painting	Self-paced	Rowing TT- 1500m	Time	No	No	Yes

Penna et al. (2018)-a	Well-trained	8	30min-Stroop	30min- documentary	Self-paced	Swimming TT- 1500m	Time	Yes	No	Yes
Penna et al. (2018)-b *	Well-trained	12	30min-Stroop	30min- documentary	Externally- paced	Running Yo- Yo test	Distance	Yes	-	Yes
Pires et al. (2018)	Recreational	12	30min Rapid Visual Information Processing (RVP) Test	30min-seated	Self-paced	Cycling TT- 20km	Power output	Yes	Yes	Yes
Silva-Cavalcante et al. (2018)	Well-trained	8	90min-AX-CPT	90min- documentary	Self-paced	Cycling TT_4km	Time	No	No	Yes
Slimani et al. (2018) *	Well-trained	10	30min-Stroop	30min reading	Externally- paced	Running (shuttle test)	Distance	Yes	Yes	Yes
Staiano et al. (2018)]	Elite	13	60min-Stroop	60min- documentary	Self-paced	Kayaking TT- 2000m	Time	Yes	No	Yes
Salam et al. (2018) *	Well-trained	10	30min-Stroop	30min-seated	Externally- paced	Cycling TTE	Time	Na	-	Yes
MacMahon et al. (2019)	Recreational	13	30min-Stroop	30min-Stroop- control	Externally- paced	Running shuttle test	Time	Yes	No	Yes

Holgado et al. (2020)	Recreational	30	90min-AX-CPT	90min- documentary	Externally- paced	Cycling TTE	Time	No	No	Yes
Lopes et al. (2020)	Elite	31	45min Stroop	45min- documentary	Externally- paced	Running TTE	Time	Yes	No	Yes