

Executive function studies in sport

ELITE BETTER

YEAR	COUNTRY	AUTHOR	TITLE	DESIGN	PART.	M.age	FUNCTION	RESULTS	SPORTS
2011	USA	Chaddock	Do Athletes Excel at Everyday Tasks?	Cross-Sectional	36	Univers	Core/Higher	Athletes better than non Athletes	Athletes
2012	Sweden	Vestberg	Executive functions predict the success of top-soccer players	Cross-Sectional	57	25/23	Core/Higher	Elite better than Semi-Elite and normal population	Football
2012	Sweden	Vestberg	Executive functions predict the success of top-soccer players	Prospective	25	25/23	Higher	Higher executive score, more goal and assist	Football
2013	Canada	Faubert	Pro. athletes have extraordinary skills for rapidly learn....	Cross-Sectional	308	23,8	Core/Higher	Elite better than, Semi-elite and normal population	Football, Hockey, Rugby
2013	USA	Alves	Perceptual-Cognitive Expertise in Elite Volleyball Players	Cross-Sectional	154	16-23	Core	Elite better than normal population	Volleyball
2013	Taiwan	Wang	Open vs. Closed Skill Sports and the Modulation of Inhibitory Control	Cross-Sectional	60	20/19/21	Core	Tennis better than swimmer and normal population	Tennis, Swimmer
2014	Netherlands	Verburgh	Executive Functioning in Highly Talented Soccer Players	Cross-Sectional	84	11,9	Inhib/Att.	Elite better than amateurs	Football
2014	USA	Jacobson	Athletics and executive functioning: How athletic...	Cross-Sectional	54	20	Core/Higher	Athletes better than non Athletes	Athletes
2015	Italy	Cona	It's a Matter of Mind! Cognitive Functioning Predicts the Athletic Performa	Cross-Sectional	30	43	Core	Faster matathon runners better inhibition	Marathon runners
2015	Netherlands	Huijen	Cognitive Functions in Elite and Sub-Elite Youth Soccer Players..	Cross-Sectional	88	15,5	Core/Higher	Elite better than semi-elite	Football
2015	Canada	Faubert	Soccer athletes are superior to non-athletes at perceiving soccer-specific...	Cross-Sectional	59	22/24	Core/Higher	Players better than non-Players	Football
2016	Sweden	Lundgren	Preliminary Investigation of EF in Elite Ice hockey Players	Cross-Sectional	48	23,6	Core/Higher	Elite better than normal population	Ice-Hockey
2016	Sweden	Lundgren	Preliminary Investigation of EF in Elite Ice hockey Players	Correlation study	48	23,6	Core	Higher score better performance	Ice-Hockey
2016	Sweden	Lundgren	Preliminary Investigation of EF in Elite Ice hockey Players	Cross-Sectional	48	23,6	Higher	Center Forward higher score than the others	Ice-Hockey
2016	Netherlands	Verburgh	Do Elite and Amateur Soccer Players Outperform Non-Athletes...	Cross-Sectional	168	8 to 12	Core	Elite better than Semi-elite and normal population	Football
2016	Germany/Switze	Heppe	The Relationship between Expertise in Sports, Visuospatial, and Basic Cogn	Cross-Sectional	60	23,2/21,7	Core	Elite better than amateur in sustained attention	Handball/Football
2016	Italy	Bianco	Different proactive and reactive action control in fencers' and boxers' brain	Cross-Sectional	39	29/25/28	Core	Elite better then normal population	Boxing, fencing
2016	China	Wang	Selective enhancement of attentional networks in college table tennis at...	Cross-Sectional	65	22	Core	Elite better than normal population	Table tennis
2017	Spain	Alarcon	Executive functions predict expertise in basketball players	Cross-Sectional	34	25/21/23	Core/Higher	Elite better than Semi-Elite and normal population	Basketball
2017	Sweden	Vestberg	Core executive functions are associated with success in young...	Cross-Sectional	30	14,9	Core/Higher	Elite better than normal population.	Football
2017	Sweden	Vestberg	Core executive functions are associated with success in young...	Correlation study	30	14,9	Core/Higher	Higher executive score, more goal	Football
2017	Taiwan	Liao	The relationship between action inhibition and athletic performance in elite	Cross-Sectional	57	22/26	Core	Elite better inhibition than normal population	Badminton
2018	USA	Wylie	Exposing an "Intangible" Cognitive Skill among Collegiate Football...	Cross-Sectional	280	20	Core	Players better inhibition than normalpopulation.	American Football
2018	USA	Wylie	Exposing an "Intangible" Cognitive Skill among Collegiate Football...	Cross-sectional	271	20	Core	Defender better than offensive players	American Football
2018	Belgium	Brevers	Proactive and Reactive Motor Inhibition in Top Athletes Versus Nonathletes.	Cross-Sectional	52	19/20	Core	Elite better than normal population	Taekwondo/Fencing

NO DIFFERENCE

2017	Netherlands	Water	Assessing Cognitive Performance in Badminton Players...	Cross-Sectional	24	25/24	Core	Elite vs. Amateurs, no difference, inhibition	Badminton
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Other areas

2009	USA	Kleider	Shooting behaviour: How working memory and negative...	Correlation study	24	38	Core	Higher score on working memory, better shooting	Police officer
2016	USA	Ramchandran	Exploring the Neuropsychological Antecedents of Transformational Lea...	Correlation study	105	48	Core/Higher	Higher executive score better Transformational leadership	Manager Fortune 500