

Men International - Court surface NR	Yusoff & Krasilshchikov (2021)	6.1	4.5	7	NR	Men	International	International tennis tournaments semi-finals and finals 2016 - 2017	No	Only one study for analysis
Junior Men International Hard	Kovalchik and Reid (2017)	4.8*	NR	12	Hard	Men	International	Australian Open 2012-2017 - Juniors	No	Only one study for analysis, International Juniors
Junior Men International - Court surface NR	Yusoff & Krasilshchikov (2021)	6.1	4.4	7	NR	Men	International	International tennis tournaments semi-finals and finals 2016 - 2017	No	Only one study for analysis
Junior Men National Hard	Filipic et al. (2021)	4.7	1.8	6	Hard	Men	National	National Championships (13.9 y)	Yes	
	Gallo-Salazar et al. (2019)	2.9	0.4	12	Hard	Men	National	Juniors (14.5 y) Morning	Yes	
	Gallo-Salazar et al. (2019)	2.9	0.3	12	Hard	Men	National	Juniors (14.5 y) Afternoon	Yes	
	Kilit and Arslan (2018)	5.2	4.1	13	Hard	Men	National	Juniors (13 y)	Yes	
	Stare et al. (2015)	5.3	NR	6	Hard	Men	National	Juniors (13.8 y)	Yes	
Junior Men National Clay	Torres-Luque et al. (2011)	5.9	0.1	8	Hard	Men	National	Juniors (15.6 y)	Yes	
Women International Hard	Kilit and Arslan (2017)	5.7	4.2	14	Clay	Men	National	Juniors (12.2 y)	Yes	
	Kilit and Arslan (2018)	7.1	3.9	13	Clay	Men	National	Juniors (13 y)	Yes	
	Carboch et al. (2018)	4.5	0.7	23	Hard	Women	International	Australian Open 2017	Yes	
	Fernandez-Fernandez et al. (2007)	2.8	1.7	7	Hard	Women	International	WTA (17.3 y)	Yes	
	Kovalchik and Reid (2017)	4.6*	NR	21	Hard	Women	International	Australian Open 2012-2017	Yes	
	Carboch and Placha (2018)	4.7	0.2	16	Hard	Women	International	Australian Open 2017 - 1st - 4th round	No	Subgroup analysis (Carboch et al 2018)
	Carboch and Placha (2018)	4.0	0.4	7	Hard	Women	International	Australian Open 2017 - GF - Finals	No	Subgroup analysis (Carboch et al 2018)
	Carboch et al. (2020)	4.2	0.9	23	Hard	Women	International	Australian Open 2017 - New balls	No	Subgroup analysis (Carboch et al 2018)
	Carboch et al. (2020)	4.6	1.1	23	Hard	Women	International	Australian Open 2017 - Used balls	No	Subgroup analysis (Carboch et al 2018)
	Junior Women International Hard	Kovalchik and Reid (2017)	4.8*	NR	6	Hard	Women	International	Australian Open 2012-2017 - Juniors	No
Women International Clay	Fernandez-Fernandez et al. (2008)	2.5	1.6	7	Clay	Women	International	WTA (17 y)	Yes	
Junior Women National Hard	Torres-Luque et al. (2011)	5.5	0.2	8	Hard	Women	National	Juniors (15.6 y)	No	Only one study contributes a SD
	Stare et al. (2015)	4.3	NR	5	Hard	Women	National	Juniors (14.1)	No	SD is missing

Notes: *Median, NR = Not Reported

6.21 Strokes per Second (s)

Group	Author (Year)	Study results		Study conditions				Comment	Meta-analysis included in MA	Reason for exclusion from MA
		Mean	SD	N (Matches)	Surface	Sex	Playing Level			
Men International Hard	Morante and Brotherhood (2005)	0.73	0.01	12	Hard	Men	International	Australian Open 2005	No	Only two studies for analysis
	O'Donoghue and Ingram (2001)	0.81	0.04	24	Hard	Men	International	Australian Open 1997-1999	No	Only two studies for analysis
	O'Donoghue and Ingram (2001)	0.84	0.05	35	Hard	Men	International	US Open 1997-1999	No	Only two studies for analysis
Men International Clay	O'Donoghue and Ingram (2001)	0.75	0.04	32	Clay	Men	International	Roland Garros 1997-1999	No	Only two studies for analysis
Men International Grass	Morante and Brotherhood (2005)	0.75	0.02	12	Grass	Men	International	Wimbledon 2005	No	Only two studies for analysis
Men International Grass	O'Donoghue and Ingram (2001)	0.92	0.05	26	Grass	Men	International	Wimbledon 1997-1999	No	Only two studies for analysis
Women International Hard	Morante and Brotherhood (2005)	0.70	0.05	9	Hard	Women	International	Australian Open 2005	No	Only two studies for analysis
	O'Donoghue and Ingram (2001)	0.76	0.03	18	Hard	Women	International	Australian Open 1997-1999	No	Only two studies for analysis
Women International Clay	O'Donoghue and Ingram (2001)	0.76	0.04	23	Hard	Women	International	US Open 1997-1999	No	Only two studies for analysis
Women International Clay	O'Donoghue and Ingram (2001)	0.71	0.04	14	Clay	Women	International	Roland Garros 1997-1999	No	Only two studies for analysis
Women International Grass	Morante and Brotherhood (2005)	0.74	0.02	6	Grass	Women	International	Wimbledon 2005	No	Only two studies for analysis
	O'Donoghue and Ingram (2001)	0.78	0.05	13	Grass	Women	International	Wimbledon 1997-1999	No	Only two studies for analysis
Junior Men and Women International Hard	Murphy et al. (2016)	0.23	0.06	36-144	Hard	Men/women	International	Junior ITF Tournament (16 y)	No	No separate data for men and women, SD missing