

Multimedia Appendix 1: Study characteristics

Study	Country of study	N ^a	Age range/mean (SD) ^b	Study duration ^c
Protocols				
Walters et al 2010 [41]	Australia	100	NR	24
Kharrazi et al 2011 [42]	USA	60	18-35	4
Pellegrini et al 2012 [43]	USA	96	18-60	24
Jimenez Garcia et al 2013 [44]	Netherlands	14	NR	4
Geraedts et al 2014 [45]	Netherlands	50	70-85	24
Recio-Rodriguez et al 2014 [46]	Spain	1553	< 70	52
Clayton et al 2015 [47]	Canada	36	50+	11
Cooper et al 2015 [48]	UK	488	18-65	12
Granado-Font et al 2015 [49]	Spain	70	18+	52
Hurley et al 2015 [50]	USA	100	18-60	16
Pellegrini et al 2015 [51]	USA	250	18-65	40
Agboola et al 2016 [52]	USA	300	18+	26
Amorim et al 2016 [53]	Australia	68	18+	52
Duncan et al 2016 [54]	Australia	64	18-55	9
Jones et al 2016 [55]	USA	200	30-80	13
Ortiz et al 2016 [56]	USA	30	13-17	16
Shin et al 2016 [57]	South Korea	105	20-39	12
Taylor et al 2016 [58]	UK	420	NR	NR
van Nassau et al 2016 [59]	International	1000	30-65	52
Brickwood et al 2017 [60]	Tasmania	150	60+	52
Ridgers et al 2017 [61]	Australia	300	13-14	12
Wolk et al 2017 [62]	Germany	120	18-75	4
Completed Trials				
Slotmaker et al 2005 [63, 64]	Netherlands	102	23-39	21
Fujiki et al 2007 [65]	USA	4	NR	< 1
Hurling et al 2007 [66]	UK	77	30-55	9
Polzien et al 2007 [67]	USA	57	41 (8.7)	12
Consolvo et al 2008 [68]	USA	30	25-54	3
Faridi et al 2008 [69]	USA	30	I: 55(8.7), C:57(10.6)	12

Fujiki et al 2008 [70]	USA	E1: 8, E2: 10	E1: 28, E2: 38(7.5)	< 1
Lacroix et al 2008 [71, 72]	Netherlands	212	NR	12
Albaina et al 2009 [39]	Netherlands	2	65, 73	2
Bickmore et al 2009 [73]	USA	8	14-17	9
Fialho et al 2009 [74]	Netherlands	12	NR	2
Arsand et al 2010 [75]	Norway	12	44-70	12
Mattila et al 2010 [76,77]	Finland	29	25-54	12
Penados et al 2010 [78]	Netherlands	8	E1: 4-8, E2: NR	1
Lim et al 2011 [79]	USA	18	21-53	2
Shuger et al 2011 [80]	USA	197	18-64	36
Burns et al 2012 [81]	Australia	5	NR	2
Gomes et al 2012 [40]	USA	2980	NR	24
Pellegrini et al 2012 [82]	USA	51	44 (8.7)	24
Reijonsaari et al 2012 [83]	Finland	544	23-64	52
Van Hoyer et al 2012 [84]	Belgium	227	41 (10.7)	52
Xu, Poole, et al 2012 [85,86]	USA	1743	10-13	6
Barwais et al 2013 [87]	Australia	33	27(4.0)	4
Bentley et al 2013 [88]	USA, Sweden	10	NR	8
Chatterjee et al 2013 [89,90]	USA	E1: 1, E2: 1	E1: 60, E2: 82	8
Fitzsimmons et al 2013 [91]	UK	24	68(6)	24
Harries et al 2013 [92,93]	UK	165	18-40	8
Hirano et al 2013 [94]	USA	8	25-70	4
Khalil & Abdallah 2013 [95]	Dubai	8	23(2.6)	2
Khan & Lee 2013 [96]	Korea	10	NR	10
King et al 2013 [97] [98]	USA	95	45-81	8
Nakajima et al 2013 [99]	Japan	E1: 6, E2: 8	E1: 22-24, E2: NR	3
Tabak et al 2013 [100,101]	Netherlands	15	66(9.2)	4
Valentin & Howard 2013 [102]	USA	6	17-34	< 1
Bond et al 2014 [103,104]	USA	35	21-70	4
Caulfield et al 2014 [105]	UK	10	50-80	6
Chen & Pu 2014 [106]	Switzerland	36	NR	2
Glynn et al 2014 [107-109]	UK	90	44(11.5)	8
Miller et al 2014 [110]	USA	42	NR	4
Thompson et al 2014 [111]	US	49	65-95	52
Thorndike et al 2014 [112]	USA	E1: 104, E2: 12	23-37	12
Verwey et al 2014 [113]	Netherlands	20	41-84	12
Walsh et al 2014 [114]	USA	74	23-63	4

Zuckerman et al 2014 [115]	Israel	E1: 40, E2: 59	E1: 23-54, E2: 20-27	2
Cadmus-Bertram et al 2015 [116,117]	USA	51	I: 59 (6.5), C: 61(7.5)	16
Direito et al 2015 [118]	New Zealand	51	14-17	8
Finkelstein et al 2015 [119,120]	Singapore	800	21-65	52
Frederix et al 2015 [121]	Belgium	80	I: 63(10), C:58(9)	18
Frederix et al 2015 [122]	Belgium	140	I: 61(9), C: 61(8)	24
Garde et al 2015 [123]	Canada	20	8-13	2
Gouveia et al 2015 [124]	International	256	NR	40
Guthrie et al 2015 [125]	USA	182	11-14	6
Komninos et al 2015 [126]	Greece	20	18-59	NR
Lee et al 2015 [127]	USA	62	20-68	2
Lee et al 2015 [128]	Korea	8	22-28	5
Martin et al 2015 [129]	USA	48	18-69	5
Munson et al 2015 [130]	USA	165	47	12
Rabbi et al 2015 [131]	USA	16	NR	14
Verwey et al 2015 [132-134]	Netherlands	199	I: 34(52.3), C: 57(8.3)	36
Wadwha et al 2015 [135]	India	30	21-45	8
Wang et al 2015 [136]	USA	67	I:49(11.5), C: 47(11.9)	6
Watson et al 2015 [137]	UK	65	52(7.4)	52
Broekhuizen 2016 [138]	Netherlands	235	60-70	13
Butryn et al 2016 [139]	USA	36	40-65	24
Choi et al 2016 [140]	USA	30	33.7 (2.6)	12
Ciman et al 2016 [141]	Italy	13	24-30	1
Darvall et al 2016 [142]	Australia	10	NR	10
Ding et al 2016 [143]	USA	19	18-25	4
Fennell et al 2016 [144]	USA	15	48.7 (1)	24
Garde et al 2016 [145]	Canada	42	9-13	4
Gilson et al 2016 [146]	Australia	44	48 (9.8)	20
Glance et al 2016 [147]	Australia	353	18-68	16
H-Jennings et al 2016 [148]	Singapore	300	18-19	14
Hartman et al 2016 [149]	USA	54	60 (5.6)	24
Herrmany et al 2016 [150]	International	79	12-72 (47)	12
Melton et al 2016 [151]	USA	69	20 (1.7)	8

Patel et al 2016 [152-154]	USA	281	40 (11.6)	26
Paul et al 2016 [155]	UK	23	56 (10)	6
Quintiliani et al 2016 [156]	USA	10	59 (6)	10
Vorrink et al 2016 [157]	Netherlands	157	I: 62 (9), C: 63 (8)	52
Walsh et al 2016 [158]	UK	58	17-26	5
Yingling et al 2016 [159]	USA	8	28-70	2
Ashton et al 2017 [160]	Australia	50	18-25	7
Chen et al 2017 [161]	Switzerland	36	19-73	8
Chung et al 2017 [162]	USA	12	20	8
Gell et al 2017 [163]	USA	24	31-78	4
McMahon et al 2017 [164]	USA	102	79	24
Neil-Sztramko et al 2017 [165]	Canada	19	42 (8.6)	4
Valle et al 2017 [166]	USA	35	53 (9.1)	24

^aE1, E2: separate evaluation trials reported in same study.

^bAge range if reported, otherwise mean age (standard deviation). I=Intervention group, C= Control group. NR = Not reported.

^cDuration of entire study in weeks.

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