Supplemental Table 1 - Candidate study characteristics

Study		Sample		Standardization						Outcomes		
First Author	Country	Age Range (yr)	N Total (M/F)	ATS Guidelines (Y/N)	Deviations from ATS Guidelines [N/Y:summary]	# tests	Test # used in analysis	Course Length (m)	Course Location Reported	Reference Values Provided	Predictor Variables	Reference Equation Provided (Y/N)
Pediatric												
Chen[1]	Taiwan	7-17	762 (382/380)	Y	N	1	1	30	Hallways at schools, validated at hospital	Normal reference centile charts by height for 6MWD for males and females	Age, gender, height	N
D'silva[2]	India	7-12	400 (202/198)	Y	N	1	1	30	Internal hallway	Mean ± SD, and minimum and maximum 6MWD by age, and across age range by gender	-	N
Gatica[3]	Chile	6-14	192 (92/100)	Y	N	1	1	30	Closed space, flat surface	Normal reference equations (general, and by gender) for 6MWD	Age, gender, height, weight, HRR	Y
Geiger[4]	Austria	3-18	528 (280/248)	Y	Y: Measuring wheel used as incentive device; course location	3	Best recorded	20	3 different schools; straight course between flag poles	Mean ± SD 6MWD by age and gender category, and normal reference equation for 6MWD by gender	Age, gender, height	Y
Goemans[5]	Belgium	5-12	442 (442/0)	Y	N	1	1	25	Flat, straight corridor	Age and height specific centile curves for 6MWD, and modified Geiger et al (2006) normal reference equation for 6MWD in males	Age, height	Y
Kanburoglu[6]	Turkey	12-18	949 (482/467)	Y	Y: Course location outside	1	1	30	Asphalt surface of school yards	Mean ± SD 6MWD by age and gender, and normal reference centile charts by age for 6MWD for males and females	Age, gender	N
Klepper[7]	United States	7-11	100 (43/57)	Y	N	2	Best recorded	15-25	2 school gyms (15m); 1 indoor straight	Mean ± SD 6MWD by age and gender	-	N

									hallway (25m)			
Lammers[8]	United Kingdom	4-11	328 (178/151)	Y	N	1	1	30-50	Flat , hard ground	Mean ± SD 6MWD by age (pooled gender)	Age	N
Li[9]	China	7-16	1445 (805/640)	Y	N	1	1	30	Internal hallway	Normal reference centile charts by height for 6MWD for males and females	Height, ΔHR	Y
McKay[10]	Australia	3-19	300 (150/150)	Y	N	1	1	25	Laboratory (hallway)	Normal reference percentiles for 6MWD by age groups and gender	Age, gender, height, weight	N
Oliveira[11]	Brazil	6-13	161 (77/84)	Y	N	2	1	22	Corridors at schools	Normal reference equation for 6MWD by gender	Age, gender, height, weight	Y
Priesnitz[12]	Brazil	6-12	188 (92/96)	Y	N	2	1	30	Long, flat corridor at 3 different schools	Normal reference equation for 6MWD (pooled gender)	Age, height, weight, ΔHR	Y
Rahman[13]	Saudi Arabia	6-11	136 (0/136)	Y	N	1	1	30	Long, straight, flat enclosed corridor at 10 different schools	Mean ± SD, and minimum and maximum 6MWD by age	Age, height	N
Roush[14]	United States	7-9	76 (38/38)	N	Y: Students tested in groups; straws used to count laps; square course	2	Average	60	At 2 different schools on playing fields	Normal reference percentiles by age and gender for 6MWD	-	N
Saad[15]	Tunisia	6-16	200 (100/100)	Y	N	2	Best recorded	40	Seldom traveled, flat, straight, corridor	Normal reference equation for 6MWD (pooled age and gender)	Age, height, weight	Y
Saraff[16]	Austria	4-19	696 (368/328)	Y	Y: Measuring wheel used, fitted to child's height; course location	1	1	20	At schools; between 2 flag poles	Normal reference equation for 6MWD by gender, and centile charts for age and height by gender using a modified 6MWT	Age, gender, height	Y

Tonklang[17]	Thailand	9-12	739 (403/336)	Y	Y: Students tested in groups; rubber bands used to count laps	1	1	30	Long, flat, straight, hard ground; 5 different schools	Normal reference centile charts by age for 6MWD for males and females	Age, gender, weight, ΔHR	N
Ulrich[18]	Switzerland	5-17	496 (244/252)	Y	Y: Course location outside	1	1	30	Flat ground between 2 flag poles	Normal reference equations for 6MWD (general, and by age and gender)	Age, height, weight	Y
Vardhan[19]	India	7-16	460 (230/230)	Y	Y: Course location outside	1	1	30	School playgrounds	Mean ± SD 6MWD by gender and age category	-	N
Adult												
Ajiboye[20]	Nigeria	21-67	422 (224/198)	Y	N	1	1	30	Straight, flat surface of medical gymnasium	Normal reference equation for 6MWD (combined gender)	Age, height, weight	Y
Alameri[21]	Saudi Arabia	18-50	248 (127/111)	Y	N	1	1	30	Quiet corridor; 5 sites	Normal reference equation for 6MWD (combined gender)	Age, height	Y
Britto[22]	Brazil	19-79	617 (296/321)	Y	N	2	Best recorded	30	Corridor, 4 study sites	Normal reference equation for 6MWD	Age, gender, height, ΔHR	Y
Camarri[23]	Australia	55-75	70 (33/37)	N	-	3	Best recorded	45	Long straight course, enclosed level corridor	(2) Normal reference equations for 6MWD [height and FEV1 (recommended), and height, weight, age, gender]	Height, FEV1	Y
Casanova[24]	Multi-site, 7 countries	40-80	444 (238/206)	Y	N	2	Best recorded	Not reported	Not reported	Normal reference equation for 6MWD and age-based reference curves by gender for 6MWD	Age, gender, height, weight, ΔHR	Y
Chetta[25]	Italy	20-50	102 (48/54)	Y	N	2	1	30	Undisturbed, indoor, level, hospital corridor	Normal reference equation for 6MWD	Age, gender, height	Y
Enright[26]	United States	40-80	290 (117/173)	N	-	1	1	30	Hallway	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Fernandes[27]	West India	25-75	169 (80/89)	Y	N	1	1	30	Undisturbed, straight corridor	Normal reference equation for 6MWD	Age, gender	Y

Gibbons[28]	Canada	22-79	79 (41/38)	N	-	4	Best recorded	20	Undisturbed, indoor, level, hospital corridor	Normal reference equation for 6MWD	Age, gender	Y
Hill[29]	Canada	45-85	77 (37/40)	Y	N	3	Best of first two recorded	30	Level, enclosed corridor	Normal reference equation for 6MWD	Age, gender	Y
Iwama[30]	Brazil	13-84	134 (61/73)	Y	N	2	2	30	Indoor hospital corridor	Normal reference equation for 6MWD	Age, gender	Y
Jenkins[31]	Australia	45-85	109 (48/61)	Y	N	2	Best recorded	45	Straight course, enclosed corridor	Normal reference equation for 6MWD	Age, gender, height	Y
Kim[32]	Korea	22-59	259 (95/164)	Y	N	2	Best recorded	30	Long hospital corridor	Normal reference equation for 6MWD	Age, gender, height	Y
McKay[10]	Australia	20-59	400 (200/200)	Y	N	1	1	25	Laboratory (hallway)	Normal reference percentiles by age groups and gender for 6MWD	Age, gender, height, weight	N
Mosharraf-Hossain[33]	Bangladesh	25-55	190 (137/53)	Y	N	1	1	13	Not reported	Mean $\pm$ SD 6MWD by gender	-	N
Nusdwinuringtyas[34]	Indonesia	18-50	123 (58/65)	N	-	2	1	15	Laboratory	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Osses[35]	Chile	20-80	175 (77/98)	Y	N	2	Best recorded	30	Two laboratory sites; long, inside corridors	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Ozasa[36]	Japan	40-79	97 (34/63)	Y	N	2	Best recorded	30	Straight, indoor track	Normal reference equation for 6MWD	Age, height, WC, FEV1	Y
Palaniappan[37]	India	25-80	125 (58/67)	Y	N	1	1	30	Indoor hospital corridor	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Rao[38]	Pakistan	15-65	296 (211/85)	Y	N	1	1	18	Flat, straight, well-lit, marked, hard corridor	Normal reference equation for 6MWD	Age, gender, height	Y

Saad[39]	Tunisia	40-85	229 (104/125)	Y	N	2	Best recorded	40	Seldom-traveled, flat, straight corridor	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Shrestha[40]	Nepal	18-81	250 (166/76)	Y	N	1	1	30	Long, flat, straight corridor in an outpatient center	Normal reference equation for 6MWD	Age, gender, weight	Y
Soares[41]	Brazil	20-80	132 (66/66)	Y	N	3	Best recorded	30	Level, outdoor corridor free of foot traffic	Normal reference equation for 6MWD (combined gender)	Age, height, BMI	Y
Troosters[42]	Belgium	50-85	51 (29/22)	Y	N	2	Best recorded	50	Long hospital corridor	Normal reference equation for 6MWD	Age, gender, height, weight	Y
Tsang[43]	China	21-70	548 (226/322)	Y	N	2	1	15	Hallways at 22 hospital sites	Mean $\pm$ SD 6MWD by gender and age category	-	N
Vaish[44]	India	40-60	101 (101/0)	Y	N	1	1	30	Indoor, level hospital corridor	Normal reference equation for 6MWD for males	Age, height	Y
Zou[45]	China	18-30	355 (179/176)	Y	N	2	Best recorded	30	Straight, long, flat, enclosed corridor	Normal reference equation for 6MWD	Gender, height, ΔHR	Y
Zou[46]	China	18-59	643 (324/319)	Y	N	2	Best recorded	30	Straight, long, flat, enclosed corridor	Normal reference equation for 6MWD	Age, gender, height	Y

ATS, American Thoracic Society; 6MWD, six-minute walk test distance; HRR, heart rate reserve; ΔHR, change in heart rate; FEV1, forced expiratory volume in 1 second; WC, waist circumference

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