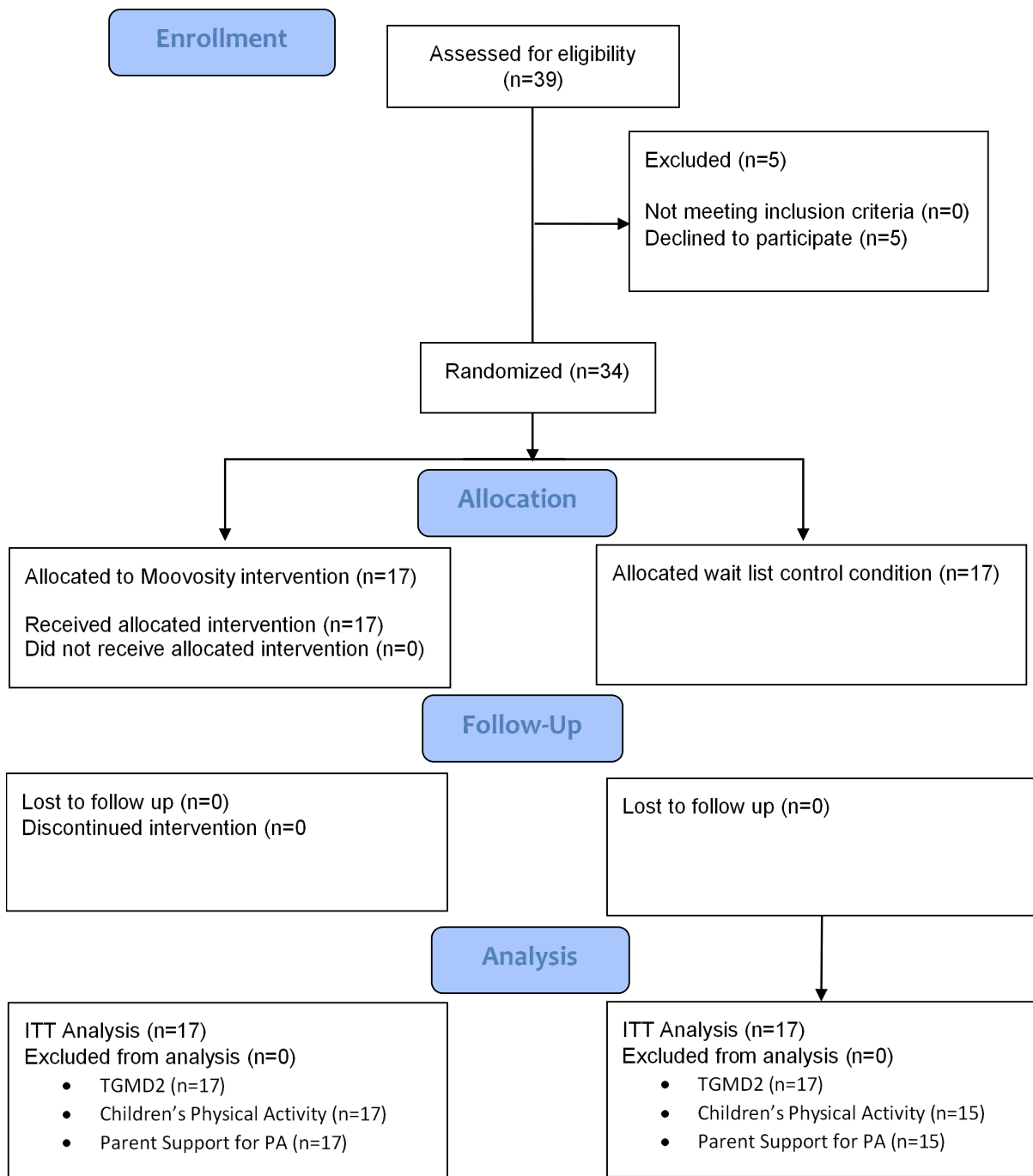


A. Flow of participants



B. Participant characteristics, by study group.

	Control (n=17) Mean (SD)	Intervention (n=17) Mean (SD)
Age (years)	5.3 (1.3)	5.3 (1.1)
% Female	47.1	52.9
Height (cm)	111.8 (11.1)	114.2 (10.2)
Weight (kg)	20.0 (5.8)	21.9 (4.5)
BMI	15.8 (2.0)	16.7 (1.4)

C. Outcomes and Measures

Study Outcome	Measure	Description
Fundamental Movement Skill Proficiency	<p>Test of Gross Motor Development 2nd Edition (TGMD-2)</p> <p>Ulrich DA: <i>Test of Gross Motor Development 2nd Edition</i>. Austin, Texas: Pro-Ed; 2000.</p>	<p>The TGMD-2 measures 12 FMS representing two dimensions of gross motor performance: locomotor skills and object control. Scores were based on the achievement of performance criteria for six locomotor (run, gallop, hop, leap, horizontal jump and slide) and six object control skills (striking a stationary ball, stationary dribble, catch, kick, throw, and roll). All assessments were performed following the standardized protocols in the TGMD-2 examiners manual [18] and video recorded for subsequent evaluation, by trained assessors. For each skill, the observed performance criteria were rated as “1” (present) or “0” (absent) and summed to derive a raw score for the locomotor and object control skill dimensions, respectively.</p>
Child Physical Activity	<p>Burdette outdoor playtime checklist</p> <p>Burdette HL, Whitaker RC, Daniels SR: Parental report of outdoor playtime as a measure of physical activity in preschool-aged children. <i>Arch Pediatr Adolesc Med</i> 2004, 158:353-357.</p>	<p>Parents reported the amount of time their child spent playing ‘in the yard or street around the house’ and ‘at a park, playground, or outdoor recreation area’ on a typical day in the last month. For each of these locations, the day was segmented into three time periods: wake-up time until noon, noon until six PM, and six PM until bedtime. Within each time period, the amount of outdoor activity was reported using a five-point scale with the following responses: 0 min, 1–15 min, 16–30 min, 31–60 min, and over 60 min. Responses for each time interval were coded zero through four (0 = 0 min, 1 = 1 – 15 min, 2 = 16–30 min, 3 = 31–60 min, 4 = over 60 min) and summed over both locations to provide an activity index ranging from 0 to 24. The Burdette outdoor playtime checklist has shown acceptable validity (r = 0.33) against accelerometry for the assessment of overall physical activity in preschool-aged children.</p>
Parental support for Physical Activity	<p>5-item scale developed by Trost et al. (2003)</p> <p>Trost SG, Sallis JF, Pate RR, Freedson PS, Taylor WC, Dowda M: Evaluating a model of parental influence on youth physical activity. <i>Am J Prev Med</i> 2003, 25:277-282.</p>	<p>Parents reported how often the mother/female adult and father/male adult in the household would ‘encourage their child to do physical activities or play sports’; ‘play outside or do physical activity or sports with their child’; ‘provide transportation to a place their child can do physical activity or play sports’; ‘watch their child participate in sport, physical activities or outdoor games’; and ‘tell their child that physical activity is good for his or her health’. Responses were recorded on six-point scale with endpoints ranging from zero (never) to five (daily).</p>
Adverse Events	There were no adverse events associated with this trial	

D. Results

	Moovosity™ Group		Control Group					
	Mean	95% CI	Mean	95% CI	Net Difference	95% CI	P-value	Effect Size (Cohen's d)
Object Control pretest	26.9	23.5 – 30.2	23.9	20.6 – 27.3	6.0	2.3 – 9.7	0.0025	1.1
Object Control post-test	30.2	26.9 – 33.6	21.3	18.0 – 24.6				
Locomotor pretest	32.2	28.9 – 35.6	30.9	27.6 – 34.2	3.5	0.5 – 7.6	0.085	0.61
Locomotor post-test	35.2	31.9 – 38.5	30.3	27.0 – 33.6				
Child PA pretest	11.1	9.2 – 12.9	12.0	10.1 – 13.9	0.2	-2.2 – 1.8	0.858	0.06
Child PA post-test	10.9	9.0 – 12.8	11.6	9.8 – 13.5				
Parental Support pretest	2.43	2.05 – 2.81	2.44	2.06 – 2.81	0.14	-0.44 – 0.17	0.366	0.32
Parental Support post-test	2.71	2.34 – 3.09	2.59	2.21 – 2.97				