Variable	Operational Definition	Reference
Child-Report Intra	•	11010101100
Self-efficacy	y	(1, 2)
~ 	I can be physically active during my free time on most days	\ 1 /
	I can ask my parent or other adult to do physically active things with me	
	I can be physically active during my free time on most days even if I could watch TV or	
	play video games instead	
	I can be physically active during my free time on most days even if it is very hot or cold	
	outside	
	I can ask my best friend to be physically active with me during my free time on most days	
	I can be physically active during my free time on most days even if I have to stay at home	
	I have the coordination I need to be physically active during my free time on most days	
	I can be physically active during my free time on most days no matter how busy my day is	
Barriers		(1, 2)
	I don't know how to do the physical activity that I want to do	
	I'm chosen last for teams	
	It would make me embarrassed	
	I might get hurt or sore	
	It would make me tired	
Enjoyment		(1-3)
	Because it's fun	
	Because it makes me happy	
	Because I think it's interesting	
	Because I enjoy this activity	
	Because I find this activity stimulating	
	Because I like to do this activity	
Appearance		(2, 3)
	Because I want to lose, gain or maintain weight so I look better	
	Because I want to develop my muscles so I look better	
	Because I want to improve my appearance	
	Because I want to look good to others	
	Because I want to improve my body shape	
	Because I want to feel good about the way I look	
Fitness		(2, 3)
	Because I want to be physically fit	
	Because I want to be strong and healthy	
	Because I want to stay healthy and feel good about myself	
Competence		(2, 3)
1	Because I want to learn new skills	
	Because I want to improve my current skills	
	Because I like the challenge	
	Because I want to get better at physical activity	
Social	T J	(2, 3)
	Because I like to be with others who are interested in this activity	() - /
	Because I want to meet new people	
	Because I like spending time with others doing this activity	
PA self-schema	Decade I like spending time with others doing this detivity	(4, 5)
111 ben benema	I am someone who exercises regularly	(1, 5)
	How important is it to you to be someone who exercises regularly	
	I am someone who keeps physically fit	
	How important is it to you to be someone who keeps physically fit	
	I am physically active	
	How important is it to you to be someone who is physically active	

Perception of skill		
SINID (*)	Compared to others of the same age and gender, how good are you at sports	
Child-Report Interp	ersonal Variables	(6)
Parent support		(6)
	During a normal week, how often has he (male adult who you live with most of the time) done a physical activity or played sports with you	
	During a normal week, how often has he provided transportation to a place where you can	
	do physical activities or play sports	
	During a normal week, how often has he watched you participate in physical activities or	
	sports	
	During a normal week, how often has he told you that you are doing well in physical	
	activities or sports	
	During a normal week, how often has she (female adult who you live with most of the	
	time) done a physical activity or played sports with you	
	During a normal week, how often has she provided transportation to a place where you can	
	do physical activities or play sports	
	During a normal week, how often has she watched you participate in physical activities or	
	sports During a normal week, how often has she told you that you are doing well in physical	
	activities or sports	
Parent	detivities of sports	(6)
encouragement		(0)
<i>5</i>	During a normal week, how often has he (male adult who you live with most of the time)	
	encouraged you to do physical activities or play sports	
	During a normal week, how often has she (female adult who you live with most of the	
	time) encouraged you to do physical activities or play sports	
Friend support		(6)
	During a normal week, how often do your friends encourage you to do sports or physical	
	activities	
	During a normal week, how often do your friends do physical activities or play sports with	
	you During a normal week, how often do your friends tell you that you are doing well at	
	physical activities or sports	
Number of active fr		
	How many of your five closest friends are physically active on a regular basis	
Encourage peers		
	During a normal week, how often do you encourage your friends to do physical activity or	
	organized games or sports	
	Environmental Variables	
PA equipment		(7)
	At home there are enough supplies and pieces of sports equipment (like balls, bicycles,	
	skates) to use for physical activity	
Parent-Report Intra	personal variables	(0)
Child enjoy PA		(8)
T	How much does your child enjoy physical activity	
Importance of		
child PA	How important is it to you that your shild recorded a marriage to be an art and about 1	
	How important is it to you that your child regularly participates in sports and physical activities	
Parent-Report Inter		-
	personal variables	(0)
Support for PA		(8)
	Encourage your child to do physical activity or play outside	
	Play outside or do physical activity with your child	
	Provide transportation to a place where he or she can do physical activity or play	
7	Watch your child participate in physical activities or outdoor games	
Parent leisure time		(9)
PA		
	During leisure time I watch television	
	During leisure time I walk	

	During leisure time I cycle	
	During leisure time I sweat	
_	During leisure time I play sport	(9)
Parent sports		(9)
	How many hours per week (Do you play (1st listed) sport)	
	How many months per year (Do you play (1st listed sport)	
	How many hours per week (Do you play (2 nd listed) sport)	
	How many months per year (Do you play (2 nd listed) sport)	
Parent enjoys PA		
	How enjoyable do you find participating in sports or exercise	
Parent-Report Home	e Environmental Variables	
PA equipment at ho	me	(10)
	Basketball Hoop/Sports Goal; Big Yard/Empty Field; Indoor Play Space; Cardio Equipment (treadmill/bike, etc.); Jungle Gym/Tree House; Wheeled Toys (scooter, bike, skates, skateboard); Active Equipment (balls, jump rope, Frisbees, racquets); Swimming Pool; Trampoline; Weigh Lifting Equipment; Bicycle, Exercise Videos; Swings/Slides; Other	
Parental rules for PA	A/sedentary behavior	(11)
	I allow my child to play video games or computer games as much as he/she wants I allow my child to watch as much TV as he/she wants	
	If my child has been occupied for a long time with inside activities and the weather is nice, I encourage him/her to play outside	
Neighborhood Physi	cal Activity Environment (Score of 3 is non-supportive; <3 is supportive)	
Physical incivilities		(12, 13)
Thysical mervinaes	Score of 1 if any of the following were present: Vacant residences; poor ground condition; moderate/considerable litter; graffiti; poor commercial building condition; vacant commercial buildings; poor condition of public spaces	(,,
Lack of social spaces	S	(12, 13)
	Score of 1 if they had less than 3 of the following: 1/3 or more of homes with yards; 1/3 or more of homes with porches; parks; parks in good condition; streets not a busy thoroughfare; sidewalks on both sides of street; people present on street segment; 2+ children playing on street segment; non-residents on street segment (e.g., service workers)	
PARA Index Score		
	Score of 1 if they were below the 50 th percentile of the PARA Index Score across the following facilities within a 2mile buffer of their home: churches, commercial facilities, trails, parks and schools. PARA Index Score was calculated for each facility by multiplying the number of features present by the quantity of one minus the number of incivilities divided by seven (the total possible number of incivilities)	(14)

- 1. Dishman RK, Dowda M, McIver KL, Saunders RP, Pate RR. Naturally-occurring changes in social-cognitive factors modify change in physical activity during early adolescence. PLoS One. 2017;12(2):e0172040.
- 2. Dishman RK, Saunders RP, McIver KL, Dowda M, Pate RR. Construct validity of selected measures of physical activity beliefs and motives in fifth and sixth grade boys and girls. J Pediatr Psychol. 2013;38(5):563-76.
- 3. Ryan RM, Frederick CM, Lepe DS, Rubio N, Sheldon KM. Intrinsic motivation and exercise adherence. Int J Sport Psychol. 1997;28(4):335-54.
- 4. Dishman RK, McIver KL, Dowda M, Saunders RP, Pate RR. Motivation and Behavioral Regulation of Physical Activity in Middle School Students. Med Sci Sports Exerc. 2015;47(9):1913-21.
- 5. Kendzierski D. Self-schemata and exercise. Basic and applied social psychology. 1988;9(1):45-59.
- 6. Taylor WC, Sallis JF, Dowda M, Freedson PS, Eason K, Pate RR. Activity patterns and correlates among youth: differences by weight status. Pediatric Exercise Science. 2002;14(4):418-31.
- 7. Motl RW, Dishman RK, Ward DS, Saunders RP, Dowda M, Felton G, et al. Perceived physical environment and physical activity across one year among adolescent girls: self-efficacy as a possible mediator? Journal of Adolescent Health. 2005;37(5):403-8.
- 8. Sallis JF, Taylor WC, Dowda M, Freedson PS, Pate RR. Correlates of vigorous physical activity for children in grades 1 through 12: comparing parent-reported and objectively measured physical activity. Pediatric Exercise Science. 2002;14(1):30-44.
- 9. Baecke JA, Burema J, Frijters JE. A short questionnaire for the measurement of habitual physical activity in epidemiological studies. The American journal of clinical nutrition. 1982;36(5):936-42.
- 10. Sallis JF, Johnson MF, Calfas KJ, Caparosa S, Nichols JF. Assessing perceived physical environmental variables that may influence physical activity. Research quarterly for exercise and sport. 1997;68(4):345-51.
- 11. Davison K. Do structural, interpersonal and intrapersonal constraints impede parents' ability to support their children's physical activity? Examining ethnic differences. Annals of Behavioral Medicine. 2006;S053:31.
- 12. Caughy MO, O'Campo PJ, Patterson J. A brief observational measure for urban neighborhoods. Health Place. 2001;7(3):225-36.
- 13. Laraia BA, Messer L, Kaufman JS, Dole N, Caughy M, O'Campo P, et al. Direct observation of neighborhood attributes in an urban area of the US south: characterizing the social context of pregnancy. Int J Health Geogr. 2006;5:11.
- 14. Lee RE, Booth KM, Reese-Smith JY, Regan G, Howard HH. The Physical Activity Resource Assessment (PARA) instrument: evaluating features, amenities and incivilities of physical activity resources in urban neighborhoods. Int J Behav Nutr Phys Act. 2005;2:13.