Research on Physical Activity of Primary School Students



Purpose & Research Methodology

- To figure out physical activity level & BMI distribution
- To draw the picture of physical acitivity perception
- To identify the opportunities & restrains of physical acitivty

Two phases;

1 – Tracking Physical Acitivty with Kenz accelerometers for «7 days»

600 children from Ankara, İstanbul & İzmir

2 – Face to face interviews 3900 children from 12 cities



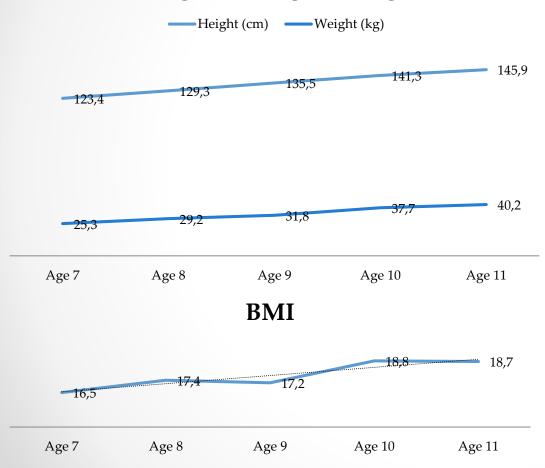
Malatya Trabzon Erzurum

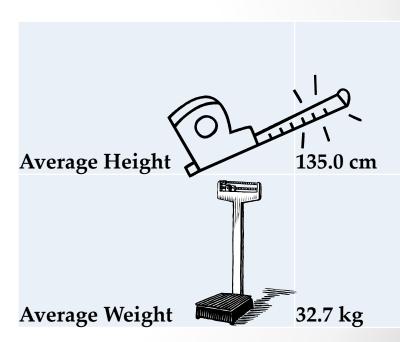


Physical Activity Measurements

Body / Mass Index

Height & Weight vs. Age





Total BMI Distribution

Underweight Normal Overweight Obese

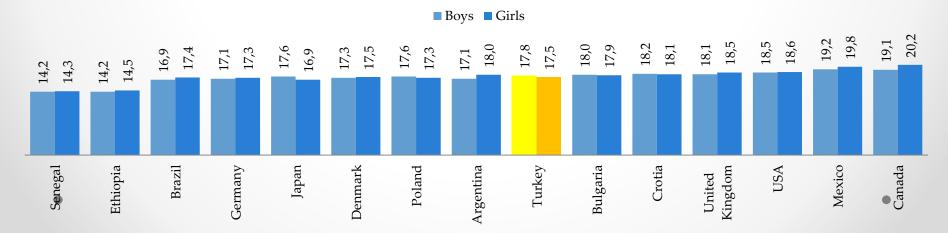
%6 of primary school students are obese

	Boys												
	Underweight	Healthy Weight	Overweight	Obese									
6	<= 13,7	> 13,7 & < = 16,9	> 16,9 & <=18,6	>18,6									
7	<= 13,7	> 13,7 & < = 17,1	> 17,1 & <=19,2	>19,2									
8	<= 13,9	> 13,9 & < = 18	> 18 & <=20	>20									
9	<= 14	> 14 & < = 18,8	> 18,8 & <=21	>21									
10	<= 14,3	> 14,3 & < = 19,2	> 19,2 & <=22,1	>22,1									
11	<= 14,7	> 14,7 & < = 20,2	> 20,5 & <=23,1	>23,1									

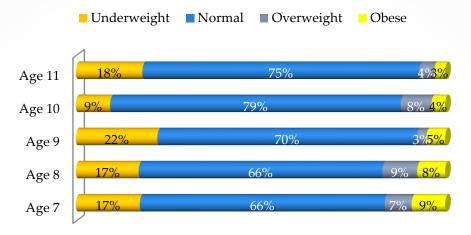
	Girls									
	Underweight	Healthy Weight	Overweight	Obese						
6	<= 13,3	> 13,3 & < = 17	> 17 & <=18,9	>18,9						
7	<= 13,4	> 13,4 & < = 17,5	> 17,5 & <=19,5	>19,5						
8	<= 13,5	> 13,5 & < = 18,3	> 18,3 & <=20,8	>20,8						
9	<= 13,8	> 13,8 & < = 19	> 19 & <=21,5	>21,5						
10	<= 14	> 14 & < = 20	> 20 & <=23	>23						
11	<= 14,3	> 14,3 & < = 21	> 21 & <=24	>24						

CDC Growth Chart, developed by National Center for Health Statistics & National Center for Chronic Disease Prevention and Health Promotion, (2000) Retrieved from: http://www.lose-more-weight-online.com/wp-content/uploads/2011/08/body-mass-index-children-bmi.gif

BMI Comparison (5-14 ages)

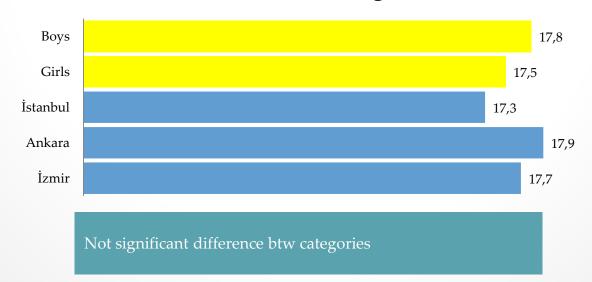


BMI vs. Age



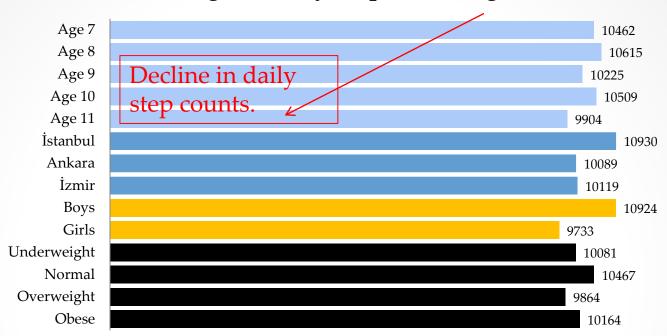
BMI is stable between 7 & 11 ages

BMI vs. Categories



Daily Step Measurements

Average of Daily Steps vs. Categories

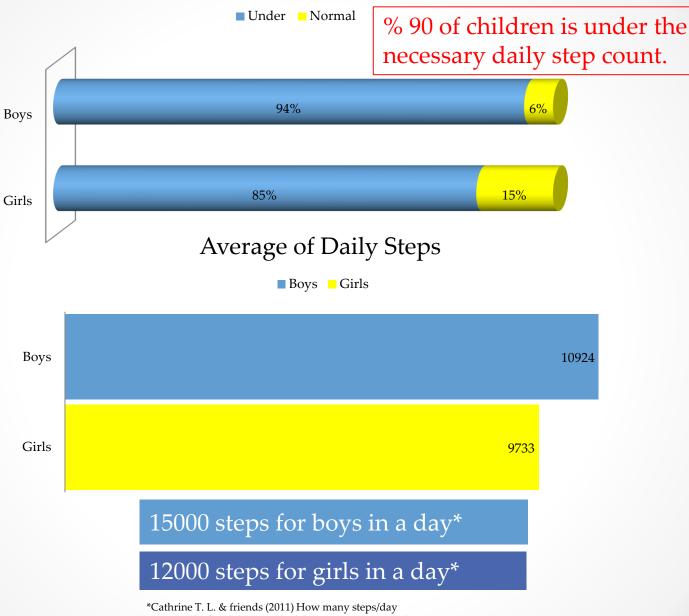


Two consistent benchmarks for daily step: Sweden & US

Turkey has lower scores than both of them

i i	Soys	6	7	8	9	10	11	12	G	irls	6	7	8	9	10	11	12
North	Canada					9000	15800		North	Canada					8900	11100	
America	US	12400	13100	13500	12900	12500	12500	12000	America	US	11100	11200	10900	11000	11100	11150	10600
	Czech									Czech							
	Republic	11900	8200							Republic	10500						
	Sweden		16500	15800	16400	18100	16750	16000		Sweden		14000	14250	14500	14900	13300	13000
	United									United							
Europe	Kingdom				14000	13750			Europe	Kingdom				13100	10500		
	Saudi Arabia				13200	14750		12800		Saudi Arabia				*	*		
Other	New Zealand		*		*		*		Other	New Zealand		14500		14400		13500	

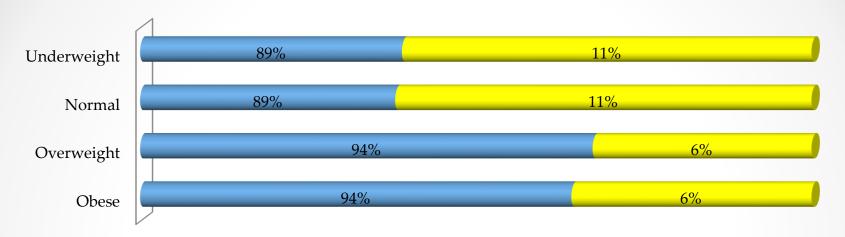
Average of Daily Steps



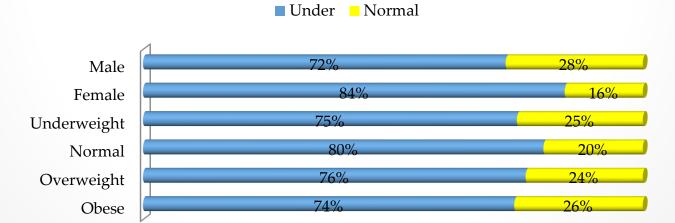
*Cathrine T. L. & friends (2011) How many steps/day are enough? for children and adolescents, International Journal of Behavioral Nutrition and Physical Activity, 8:78







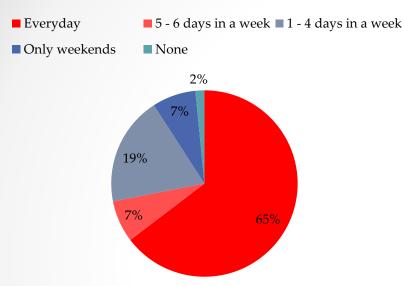
At Least One Day a Week



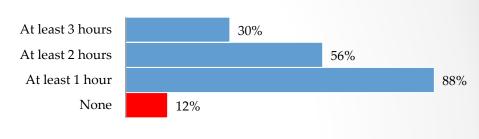
More than % 75 of children doesn't pass the necessary daily count limit at least one day.

Sedentary Activities

TV Viewing Frequency



How much time did you watch TV yesterday?



Watching TV is a major home activity for students.

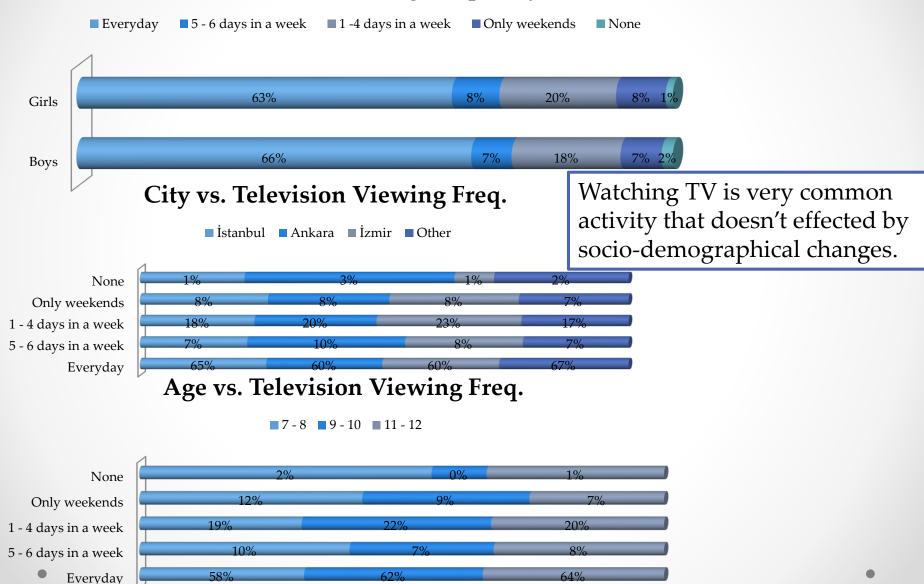
More than half of the students watch TV more than 2 hour of a day.

England: %44 of children watch TV more than 2 hours

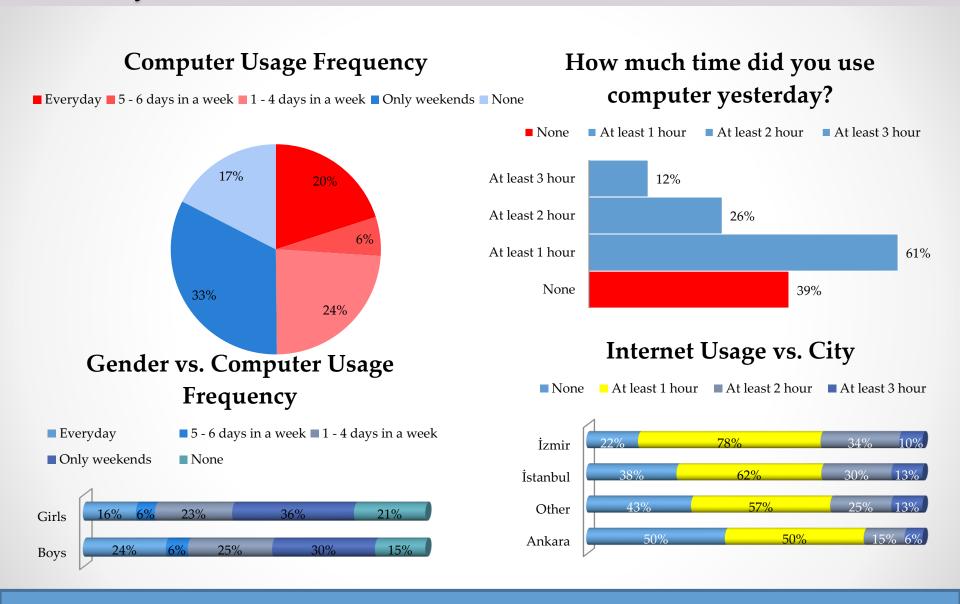
For primary school students sedentary acitivties more than 2 hours damages the body compositions, negatively effects social behaviours & academic success.*

Sedentary Activities





Sedentary Activities



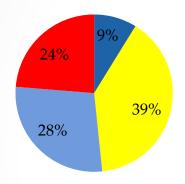
Besides TV, computer usage becoming a major leasure time activity

More than half of the students uses computer more than 1 hour of a day.

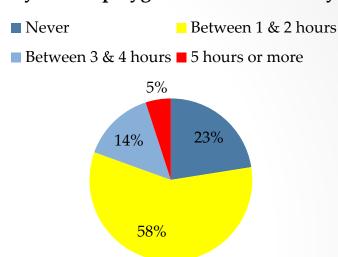
Outdoor Activities / Sport Attendance / Sport Equipment



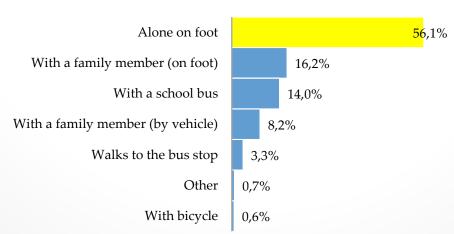




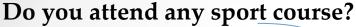
Playtime in playgrounds for schooldays

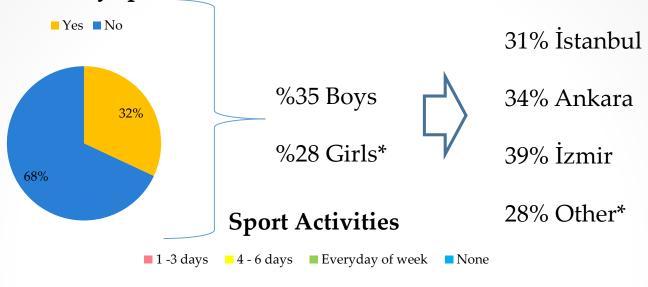


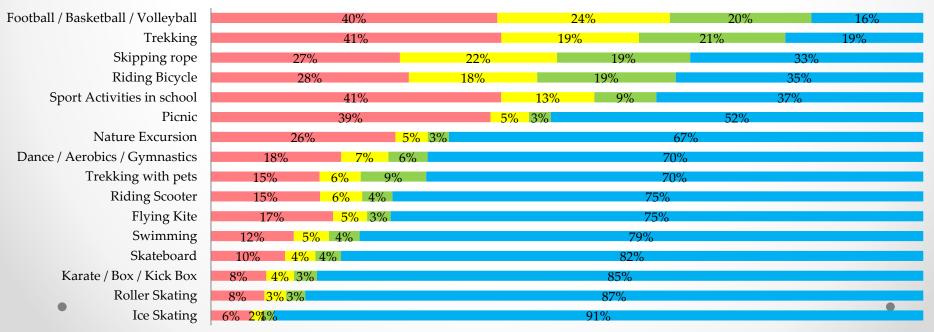
How do you go to school?



Outdoor Activities / Sport Attendance / Sport Equipment

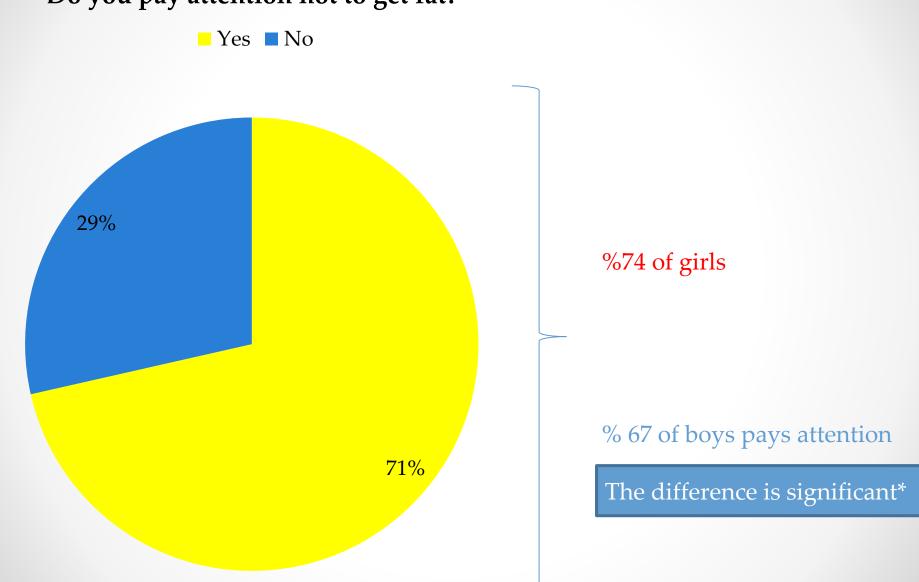






Nutrition & Perception of Getting Fat

Do you pay attention not to get fat?



Outdoor Activities / Sport Attendance / Sport Equipment

Sport Equipment Ownership

