

# STATISTICS – TRAILER

## The Issue

94% of Children with Cancer survive:  
the risk of recurrence over time is also  
related to the food they usually eat.

### THE QUESTION:

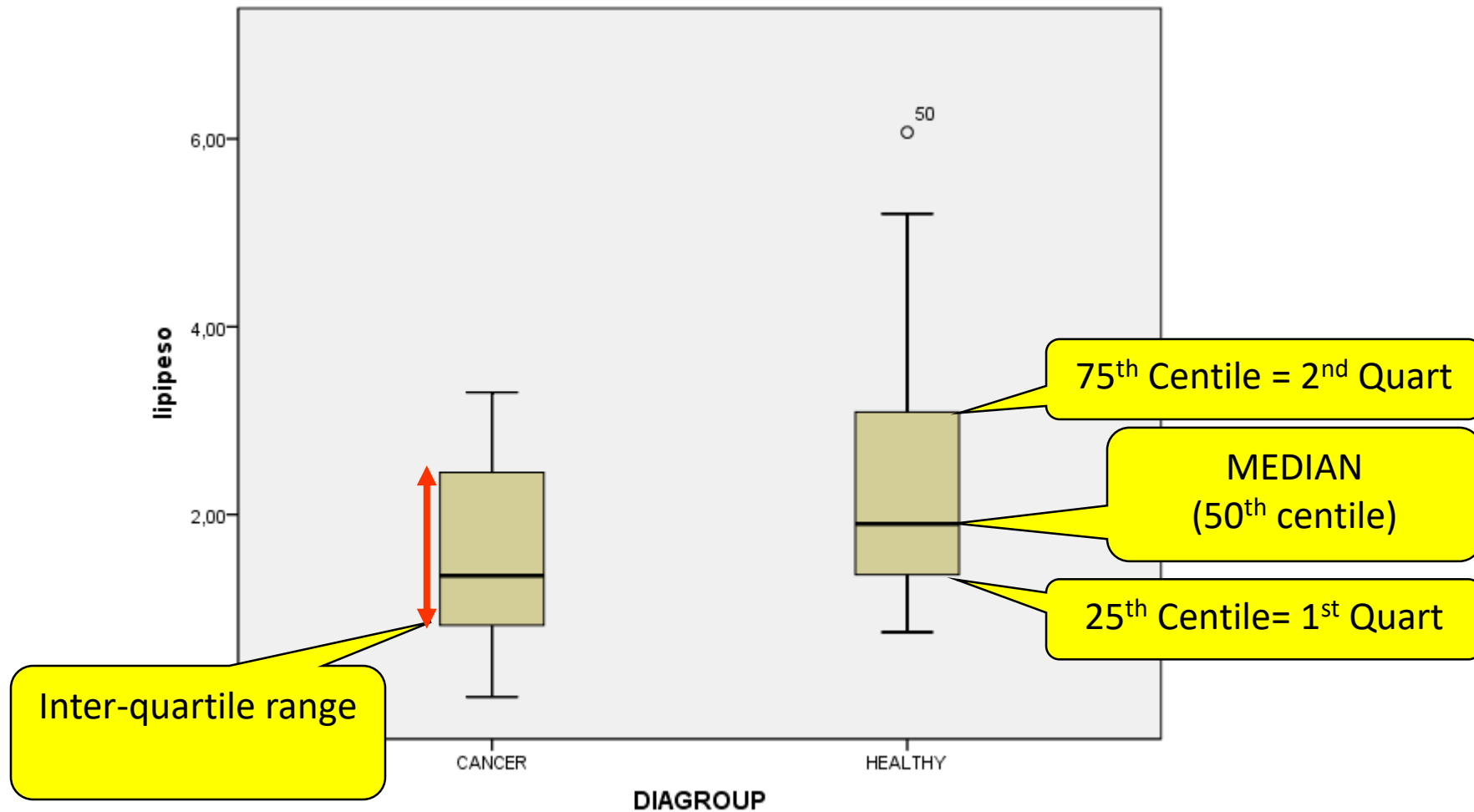
What children with cancer eat  
compared to age matched controls ?

3 Days - Food Questionnaire

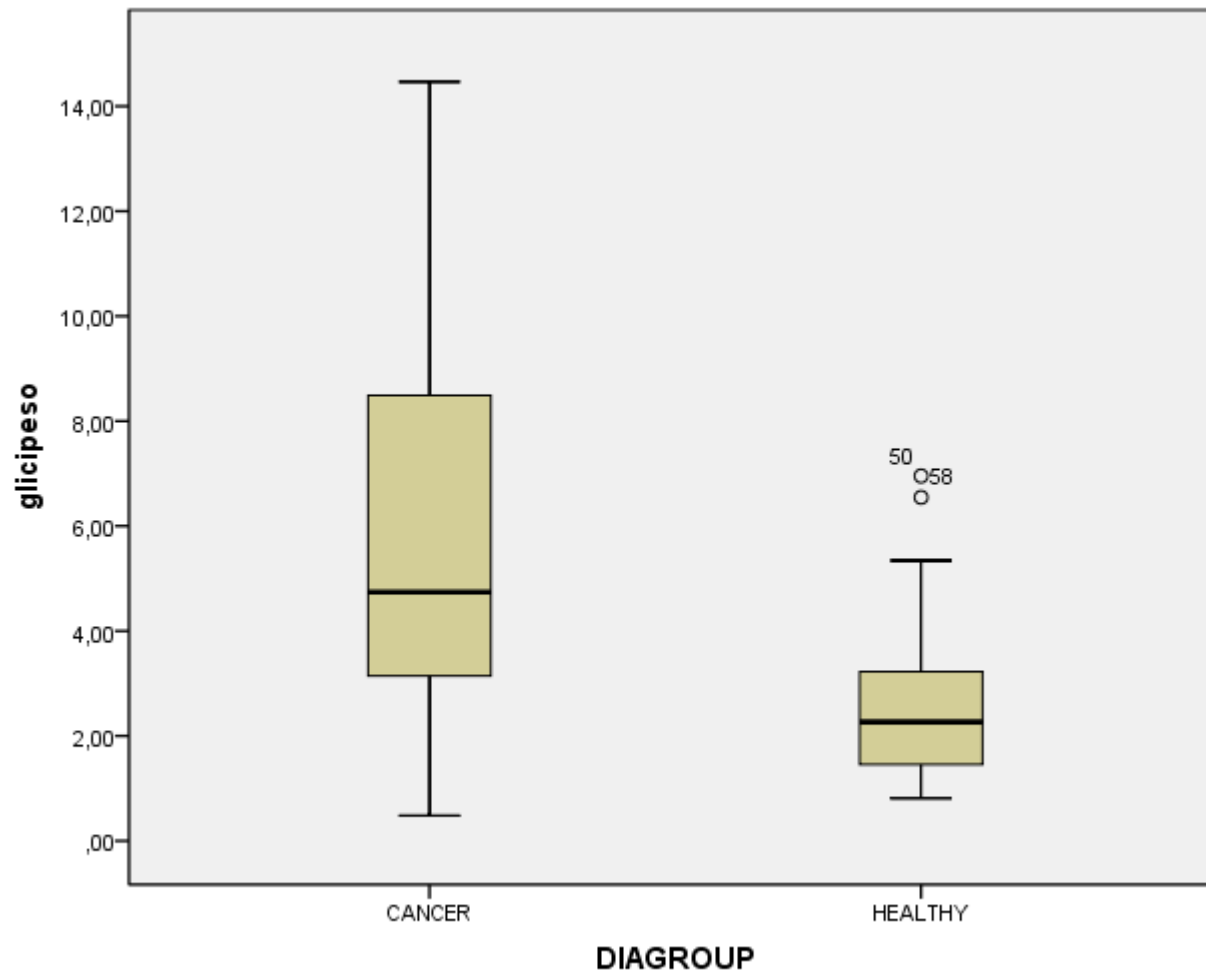
# Our Sample of Children

	Frequency	Percentage	Valid Percentage
CANCER	40	50,0	50,6
HEALTHY	39	48,8	49,4
Total	79	98,8	100,0
Missing	1	1,3	
Grand Total	80	100,0	

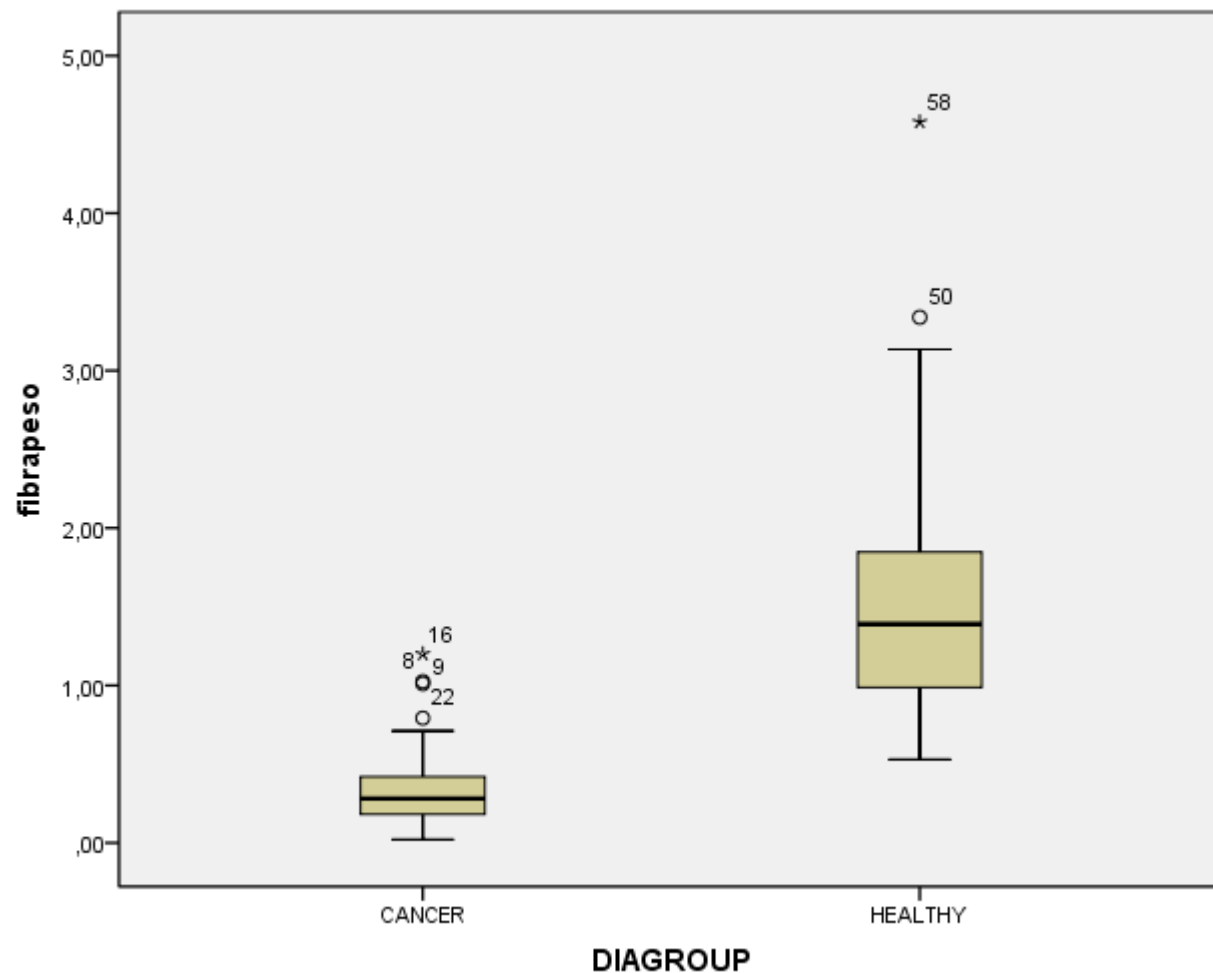
# Median Consumption of Fats



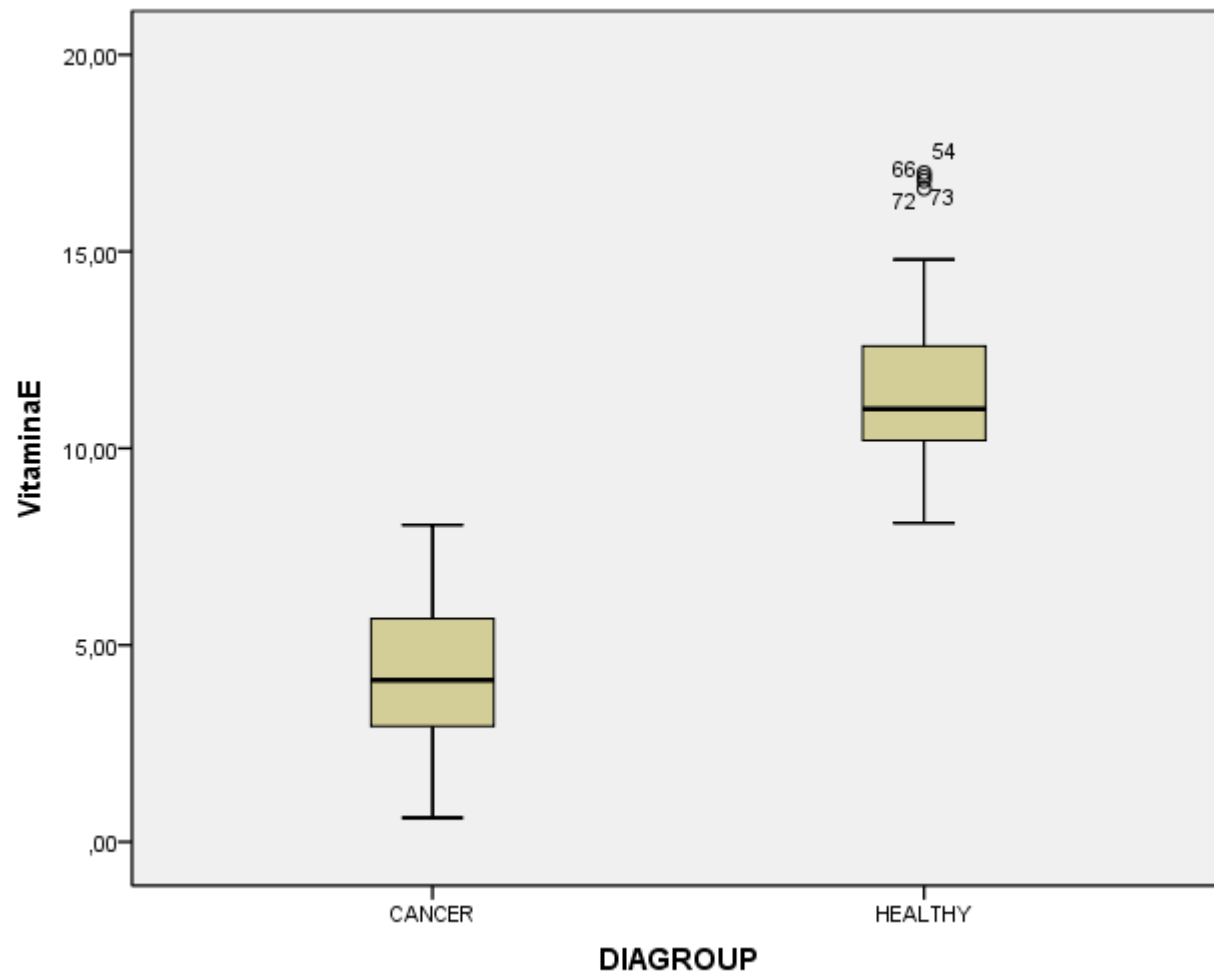
# Median Consumption of Carbohydrates



# Median Consumption of Fiber



# Median Consumption of Vitamin E



# Mean Consumption of Nutrients

Consumption /kg Body Wt		N	Mean	Standard Deviation	Standard Error of the mean
Calories	CANCER	39	45,2345	26,26246	4,20536
	HEALTHY	38	55,9688	29,65477	4,81064
Proteins	CANCER	39	1,9326	1,39937	,22408
	HEALTHY	38	2,2961	1,28703	,20878
Fats	CANCER	39	1,5974	,92281	,14777
	HEALTHY	38	2,2961	1,28703	,20878
Carbohydrates	CANCER	39	6,1877	3,94399	,63154
	HEALTHY	38	2,6118	1,52613	,24757
Fibers	CANCER	39	,3647	,27902	,04468
	HEALTHY	38	1,5650	,84931	,13778
Vitamin E	CANCER	40	4,2708	1,93293	,30562
	HEALTHY	39	11,6487	2,38260	,38152

# Student t Test for Equality of Means

				<b>Difference between means</b>	<b>Standard Error of Diff.</b>
<b>Variables</b>	<b>t</b>	<b>df</b>	<b>p (two tails)</b>		
Calories	-1,683	75	,097	-10,73432	6,37947
Proteins	-1,186	75	,240	-,36348	,30661
Fats	-2,743	75	,008	-,69867	,25471
Carbohydrates	5,221	75	,000	3,57589	,68497
Fiber	-8,375	75	,000	-1,20030	,14331
Vitamin E	-15,133	77	,000	-7,37797	,48755



# Pearson 'r' Correlations Coefficient among Nutrients

		Calories	Proteins	Fats	Carbohydrates	Fiber	Vitamin E
Calories	r	1	,907	,895	,614	,681	,131
	p		,000	,000	,000	,000	,256
	N	77	77	77	77	77	77
Proteins	r	,907	1	,882	,568	,549	,063
	p	,000		,000	,000	,000	,585
	N	77	77	77	77	77	77
Fats	r	,895	,882	1	,361	,665	,200
	p	,000	,000		,001	,000	,081
	N	77	77	77	77	77	77
Carbohydrates	r	,614	,568	,361	1	-,030	<b>-,413</b>
	p	,000	,000	,001		,795	<b>,000</b>
	N	77	77	77	77	77	<b>77</b>
Fiber	r	,681	,549	,665	-,030	1	<b>,557</b>
	p	,000	,000	,000	,795		<b>,000</b>
	N	77	77	77	77	77	<b>77</b>
Vitamin E	r	,131	,063	,200	-,413	,557	1
	p	,256	,585	,081	,000	,000	
	N	77	77	77	77	77	79

# CONCLUSIONS (preliminary)

- Children with Cancer appear to consume :
  - - less fats and more carbohydrates
  - - much less fiber and Vitamin E than Controls
- The reduced consumption of Vitamin E appears to be related to the excess of Carbohydrates and to the reduced consumption of Fiber. ...
- + MORE WORK IS NEEDED!!!!