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Effect of Food Selectivity on Dyslipidemia in Autism Spectrum Disorder

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ROWAN-VIRTUA School of **Osteopathic Medicine**

Background

- Autism spectrum disorder patients labelled "picky eate
 - poor intake of fruits,
 - vegetables, dairy
 - preference for ultra-proce carbs^[1,2,3]
- Processed food consumption linked to cardiovascular dise risk^[4,5,6,7]

Methods

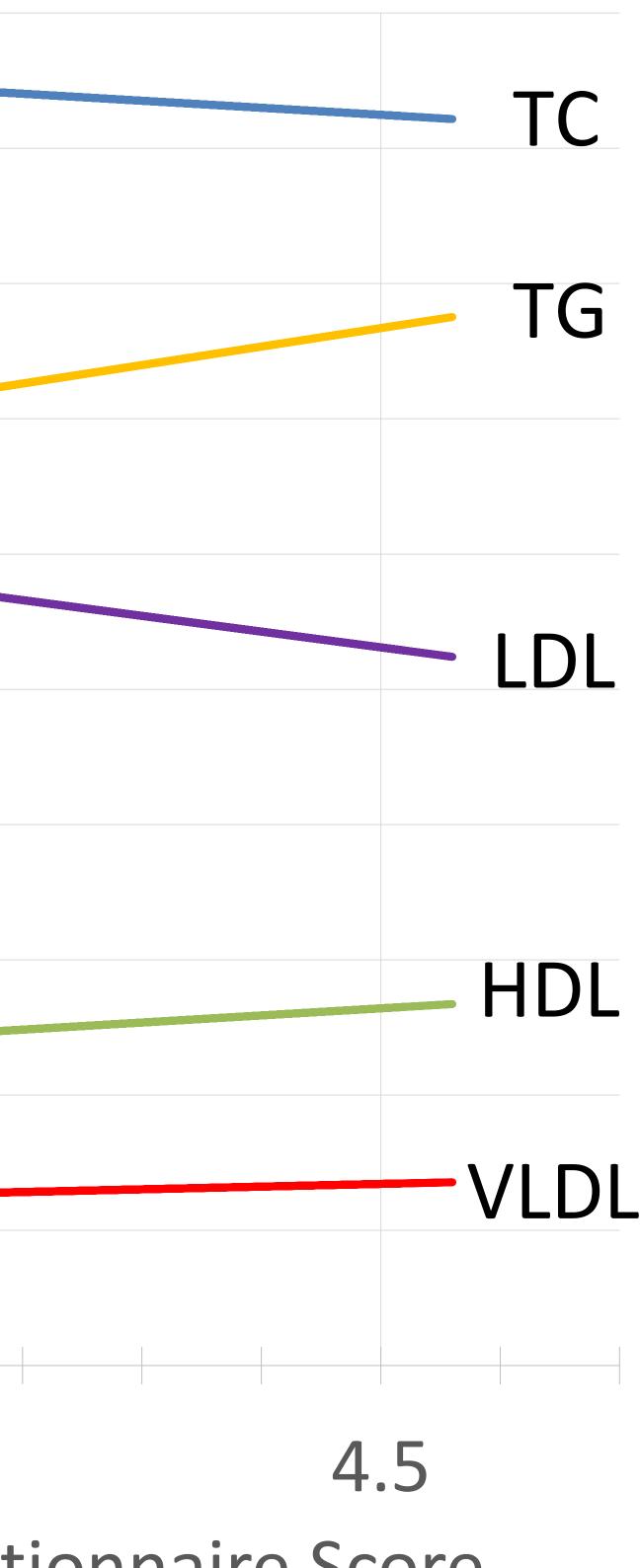
- 5-question Food Selectivity Questionnaire w/ Likert scale adapted from Swedish Eat Assessment for Autism spectrum disorders^[8] □ focus on sensory compone of selectivity Recruited subjects with ASD diagnosis and recent lipid lal excluded patients on medications and special d (e.g., ketogenic) □ 15 subjects analyzed • Linear regression to determi
 - effect of self-reported selection on lipid values

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ers"	Results <i>Multivariable Multiple Regression in SPS</i> • All Qs had weak and statistically insignificant model and between-su effects		
essed n ease	Linear Re R^2 v ques 	<i>egression in Excel</i> /alues near zero for a tionnaire score vs ea es not statistically di	ich lipid va
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nent	(jp/8/140) 120) 100		
	08 Resu		
abs	де 60		
diets	40		
	20		
ine	0		
tivity	0.5 2.5 4.5 Average Questionnaire Score		

demia in Autism Spectrum Disorder

gression in SPSS statistically nd between-subject

for average vs each lipid value lly different from 0



Discussion

- due to

Limitations

- small sample

Future Work



• Heart disease a multibilliondollar healthcare cost^[9] Coronary artery disease the biggest subset in the US No correlation found between food selectivity and blood lipid levels in this study • Variability of lipid levels may be

> severity of selectivity caretaker influence on diet exercise habits genetic tendency for hyperlipidemia

 lack of control for specific food habits and demographics • Expand questionnaire □ food diaries preferred brands □track over time