

Mediterranean diet score and each appetite hormone.

Table 1 - Spearman Correlations between the four appetite hormones GLP-1, PYY, PP and Leptin.

	GLP-1	PTT	PP	LEPTIN	
GLP-1	-	0.01	-0.01	-0.03	
РҮҮ	0.01	-	0.06	0.16*	
РР	-0.01	0.06	-	-0.26**	
LEPTIN	-0.03	0.16*	-0.26**	-	
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Table 2 – Multiple Linear Regression Adjusted Model for Sex, Age, zBMI and SES including standardised coefficient Beta values, p values and Spearman Correlations

for r values.												
	GLP-1			РҮҮ			PP			LEPTIN		
	β*	р	r	β*	р	r	β*	p	r	β*	p	r
SEX	.15	.07	.05	03	.76	04	.24	<0.001**	.22	32	<0.001**	36
AGE	51	.52	09	03	.76	08	00	.97	06	.13	.02*	.10
ZBMI	09	.38	.04	.21	.06	.13	17	.05*	06	.42	<0.001**	.40
SES	.03	.66	.04	.03	.74	.06	.15	.02*	.16	12	.03*	12
MEDITERRANEAN DIET SCORE	.03	.68	.03	.02	.85	.06	.09	.14	.06	48	.36	.04

References

- Howe SM, Hand TM, Manore MM. Exercise-trained men and women: Role of exercise and diet on appetite and energy intake. Vol. 6, Nutrients. MDPI AG; 2014. p. 4935-60
- World Health Organisation 2021 https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight (accessed 25 February 2023)
- Martínez-González MA, García-Arellano A, Toledo E, Salas-Salvadó J, Buil-Cosiales P, Corella D, et al. A 14-item mediterranean diet 3. assessment tool and obesity indexes among high-risk subjects: The PREDIMED trial. PLoS One. 2012 Aug 14;7(8).

Results

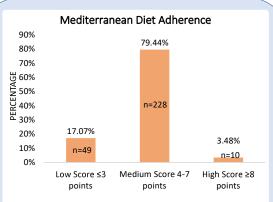


Figure 1 The appetite regulatory system

MEDITERRANEAN DIET SCORE ADHERENCE CATEGORY

Figure 2 Bar chart representing participants adherence to the Mediterranean diet score.

Discussion and Conclusion

- No significant association was found between the Mediterranean diet score and appetite hormone levels.
- Other associations between appetite hormone levels and confounding factors were acknowledged.
- Appetite hormone levels and dietary habits should be explored in greater detail to determine how the longterm effects of a particular diet can influence appetite hormone levels.
- Children need to be a greater focus of research as it is essential to identify modifiable risk factors in early life so that solutions and interventions can be established to help tackle the global obesity crisis.