



Analysis of the NHANES from 2005 - 2026

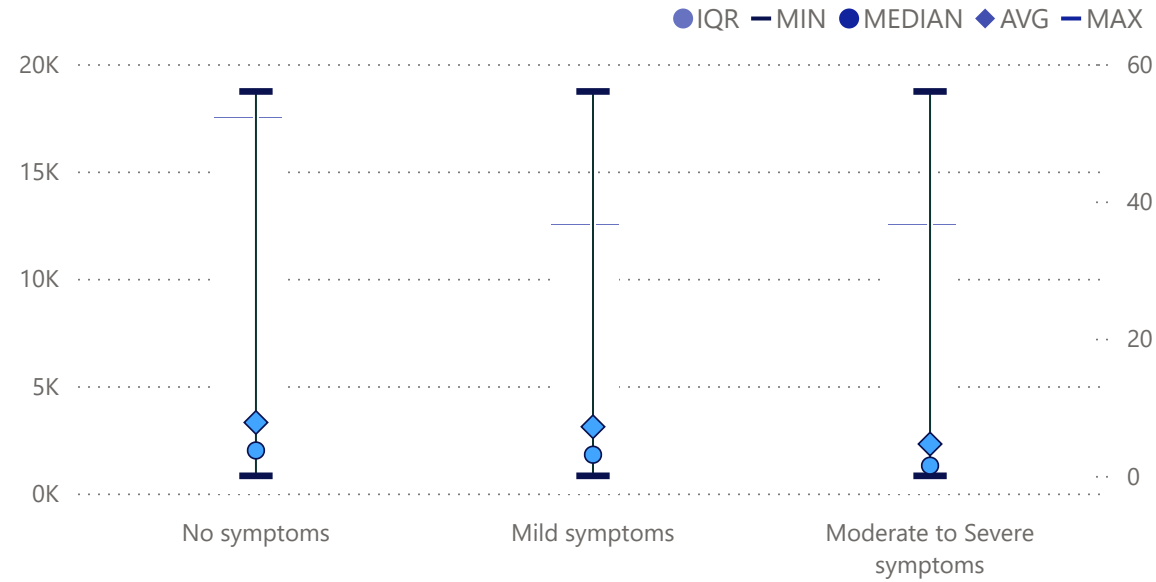
Activity and Income Analysis

Gender and Ethnicity Analysis

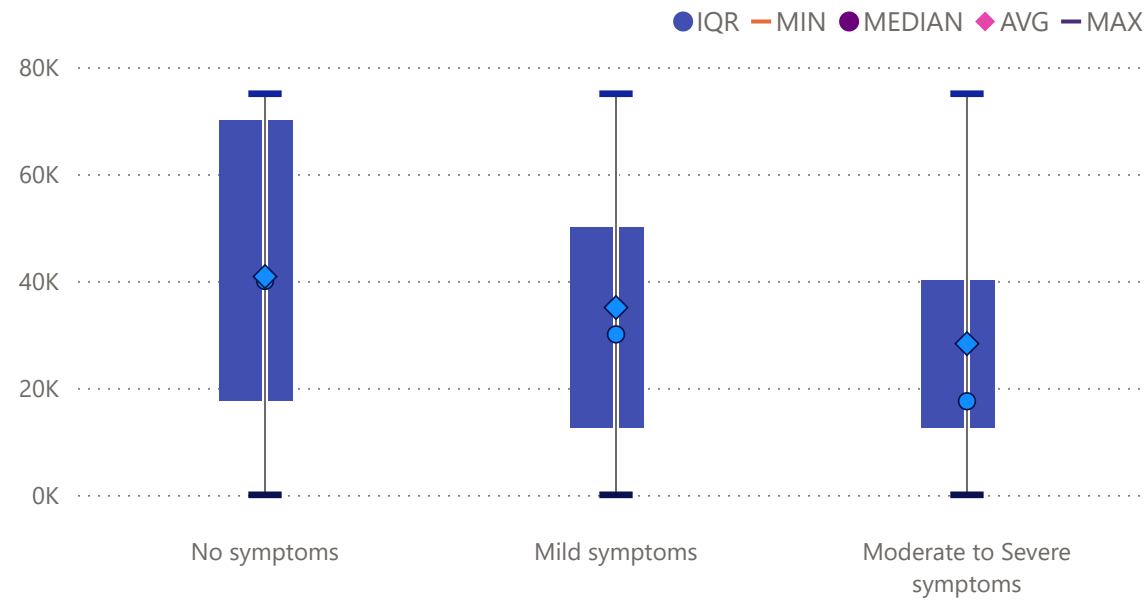
Education level and Adherence to the Physical Activity Guideline Analysis

Statistical Analysis

Average weekly activity by symptom group



Average house annual income by symptom group



Filters

Education Level

All

Ethnicity

All

Gender

All



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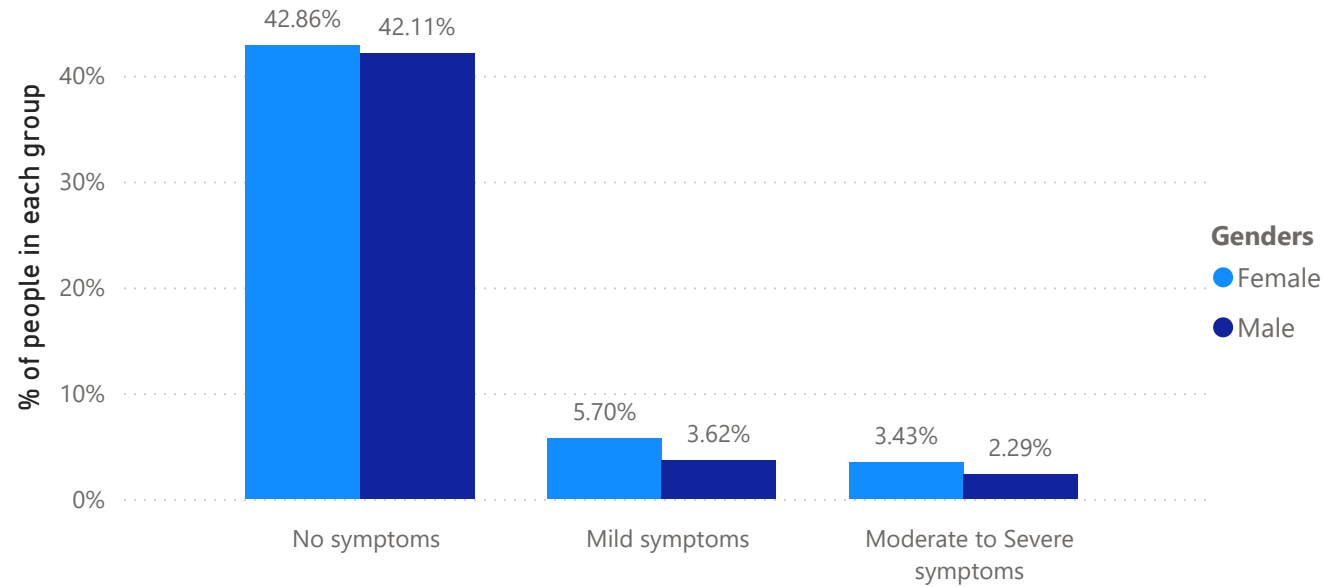
Activity and Income Analysis

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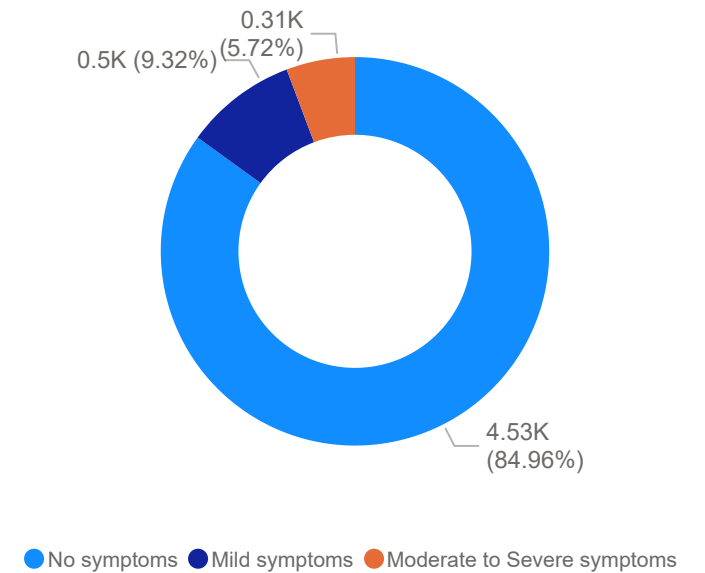
Education level and Adherence
to the Physical Activity
Guideline Analysis

Statistical Analysis

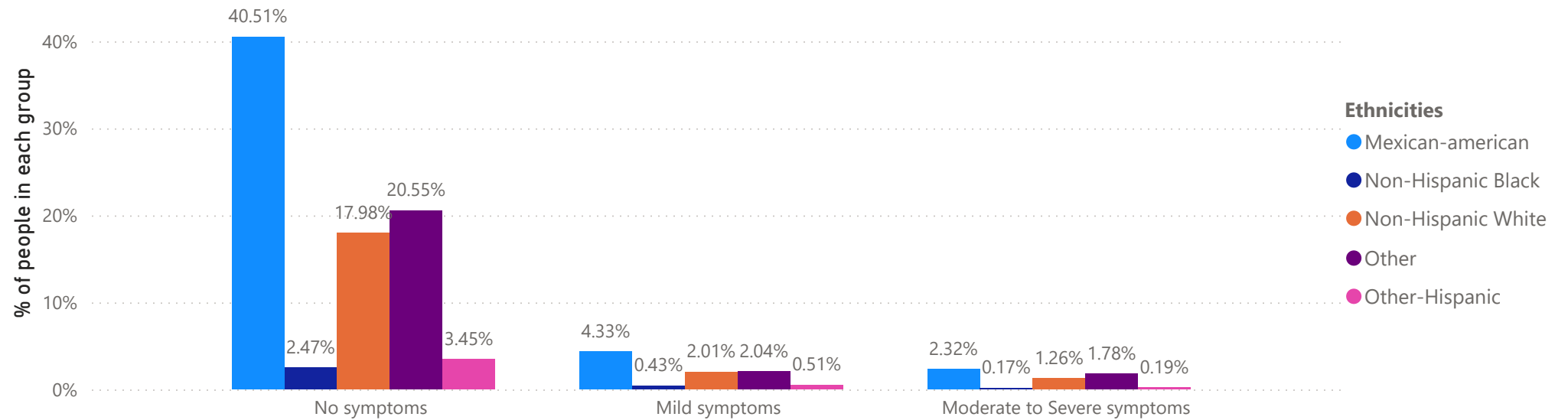
Gender count for each symptom group



Count of symptom groups



Gender count for each symptom group





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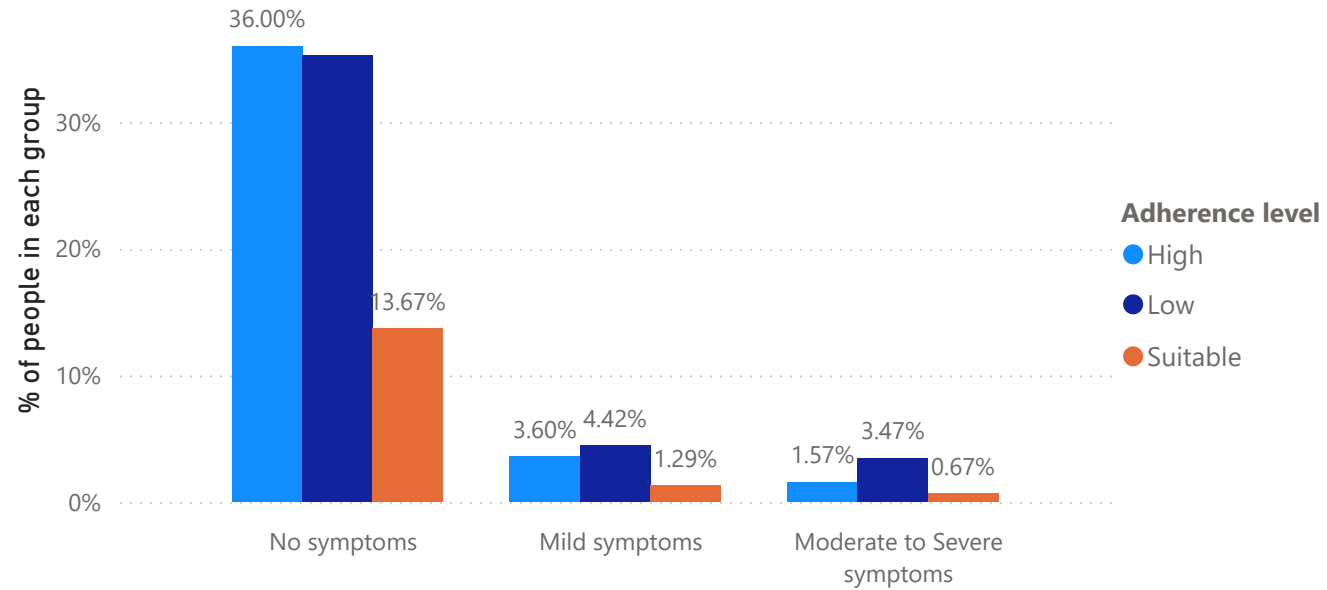
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Gender and Ethnicity Analysis

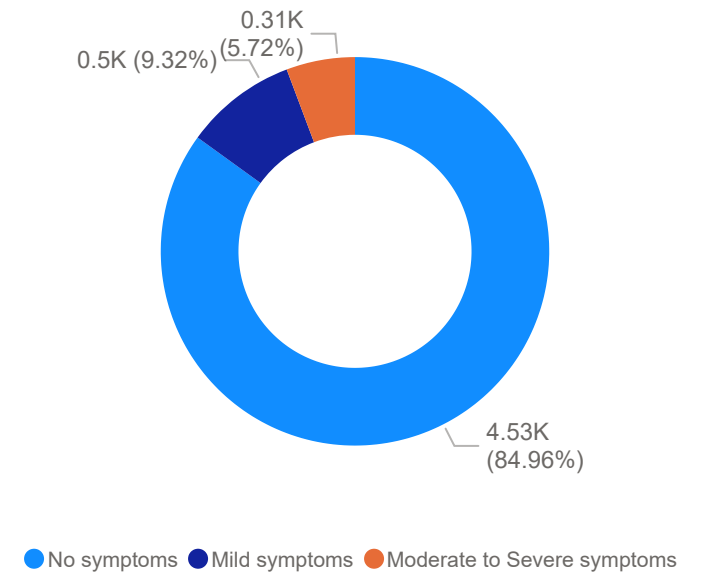
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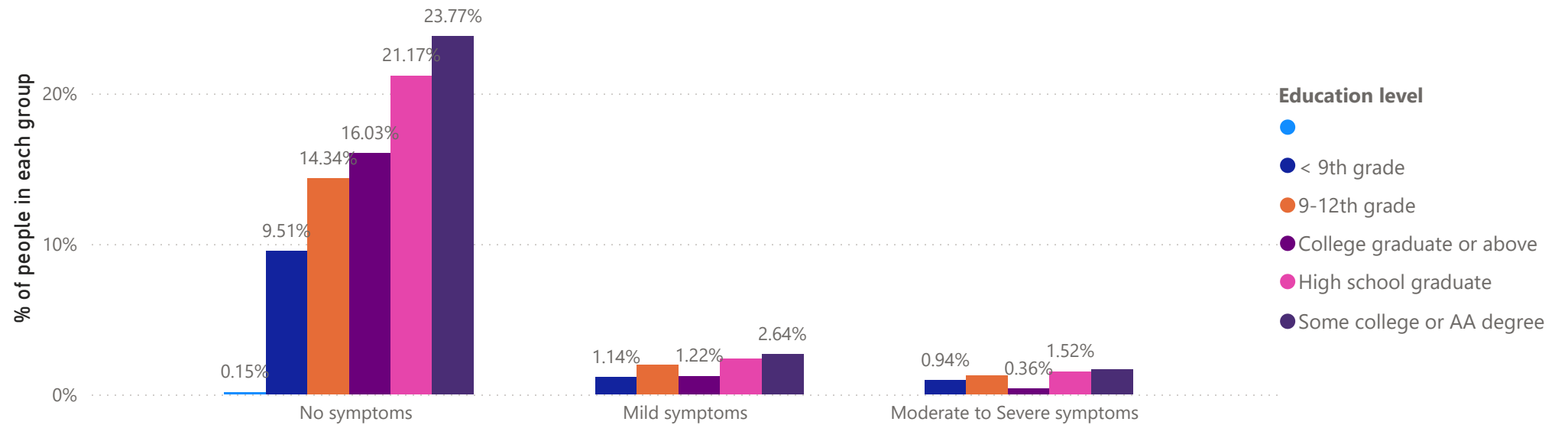
Gender count for each symptom group



Count of symptom groups



Gender count for each symptom group





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Statistical Test Results: Depression Symptom Groups

Comparison of Variables Across PHQ-9 Depression Categories
($\alpha = 0.05$)

Anova Test with Post-hoc Tukey HSD

Variable	p-value	Result	Post-hoc Tukey HSD
Total Fruit (HEI2015C3)	0.007	Significant	Moderate-Severe vs No Symptoms (p=0.0423)
HEI Total Score	0.001	Significant	Moderate-Severe vs No Symptoms (p=0.0025)
Physical Activity (PAG_HW)	< 0.001	Significant	Moderate-Severe vs No Symptoms (p=0.0000) Mild vs No Symptoms (p=0.0040)
Added Sugar (HEI2015C13)	< 0.001	Significant	Moderate-Severe vs No Symptoms (p=0.0000)
Family Income (INDFMINC)	< 0.001	Significant	Moderate-Severe vs Mild (p=0.0000) Moderate-Severe vs No Symptoms (p=0.0000) Mild vs No Symptoms (p=0.0000)
Age (RIDAGEYR)	0.498	Not Significant	-
Saturated Fat (HEI2015C12)	0.463	Not Significant	-
Total Dairy (HEI2015C6)	0.687	Not Significant	-
Total Protein (HEI2015C7)	0.056	Not Significant	-

Chi-Square Test

Variable	χ^2 Statistic	p-value	df	Result
Education (DMDEDUC)	47.31	< 0.001	8	Significant Association
Ethnicity (RIDRETH1)	17.10	0.029	8	Significant Association
Gender (RIAGENDR)	28.96	< 0.001	2	Significant Association
Physical Activity Adherence	47.03	< 0.001	4	Significant Association