I21

## one\_way\_anova

(0.31809501926653655, 0.7276352812843677)

## t\_test

t\_statistic p\_value  
pre\_diabetes vs no\_diabetes -0.573109 0.566790  
diabetes vs no\_diabetes -0.555149 0.579007

## tukey\_hsd

Multiple Comparison of Means - Tukey HSD, FWER=0.05   
==============================================================  
 group1 group2 meandiff p-adj lower upper reject  
--------------------------------------------------------------  
 diabetes no\_diabetes 0.0023 0.8088 -0.0063 0.0108 False  
 diabetes pre\_diabetes 0.0 1.0 -0.0104 0.0104 False  
no\_diabetes pre\_diabetes -0.0023 0.8003 -0.0106 0.0061 False  
--------------------------------------------------------------

## covariance\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.004872 1.0 3.539210 0.060336  
C(pre\_diabetes) 0.000003 1.0 0.002471 0.960366  
C(diabetes) 0.000003 1.0 0.001860 0.965613  
Age 0.002484 1.0 1.804267 0.179619  
Residual 0.995264 723.0 NaN NaN

## interaction\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.000138 1.0 0.100299 0.751563  
C(pre\_diabetes) 0.000216 1.0 0.156419 0.692592  
C(diabetes) 0.000003 1.0 0.001858 0.965631  
Age 0.002484 1.0 1.802410 0.179843  
C(diabetes):Age 0.000352 1.0 0.255790 0.613182  
Residual 0.994912 722.0 NaN NaN

## interaction\_analysis2

dfn dfd F PR(>F)  
diabetes 1.0 592.0 1.228742 0.268102  
pre\_diabetes 1.0 591.0 2.088496 0.148942

## chi\_square\_test

condition chi2 p\_value dof  
0 no\_diabetes 0.0 1.0 1  
1 pre\_diabetes 0.0 1.0 1  
2 diabetes 0.0 1.0 1

## relative\_risk\_analysis

condition relative\_risk ci p\_value  
0 no\_diabetes 0.002257 0.000317 5.762947e-10  
1 pre\_diabetes 0.000000 0.000000 NaN  
2 diabetes 0.000000 0.000000 NaN

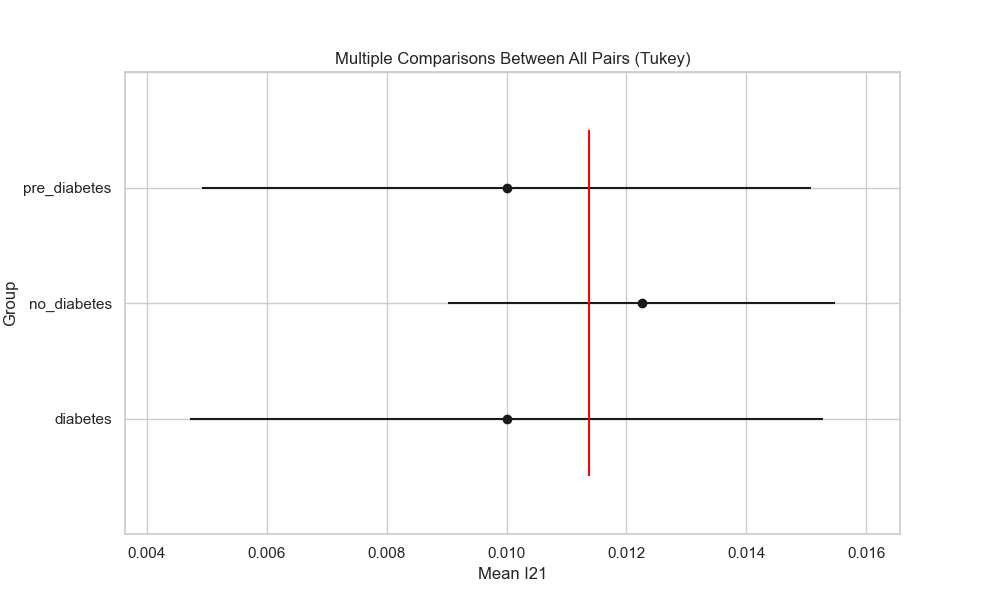
## odds\_ratio\_analysis

condition odds\_ratio ci p\_value  
0 no\_diabetes 0.0 0.0 1.0  
1 pre\_diabetes inf NaN 1.0  
2 diabetes inf NaN 1.0

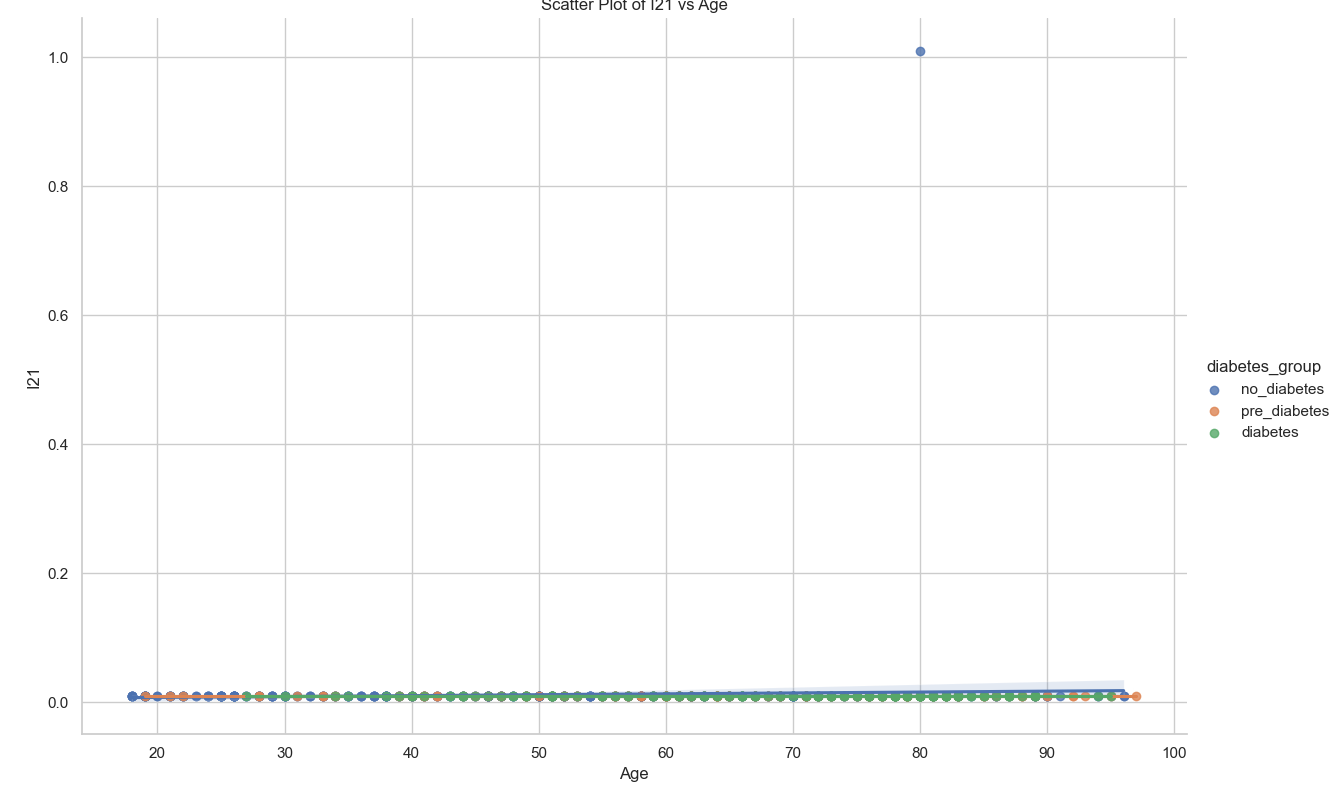
## relative\_risk\_by\_age

age\_group condition relative\_risk p\_value confidence\_interval  
0 60+ No Diabetes 0.0 1.0 0.0  
1 60+ Pre-Diabetes inf 1.0 NaN  
2 60+ Diabetes inf 1.0 NaN

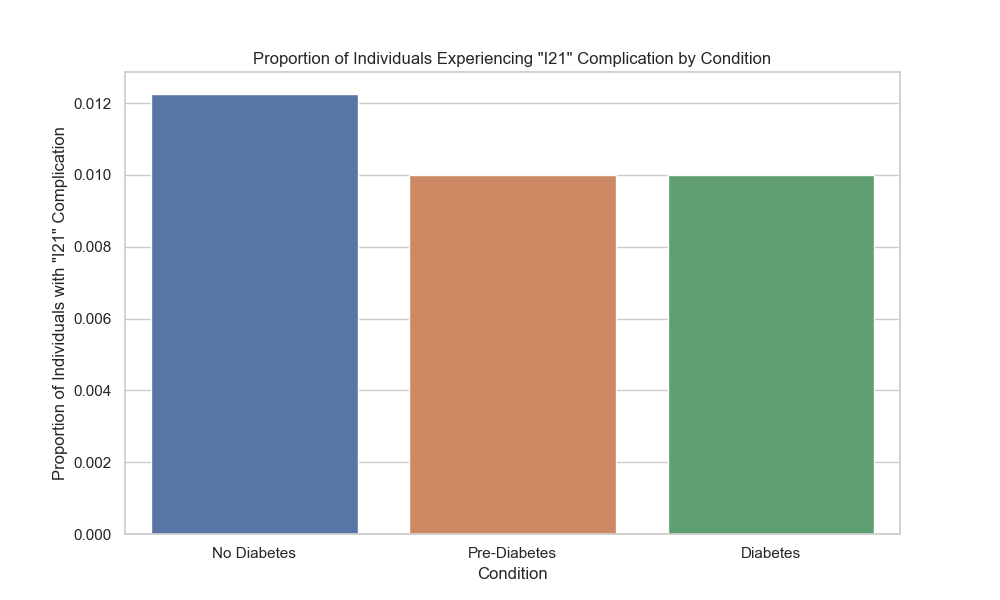
## visualize\_tukey\_results



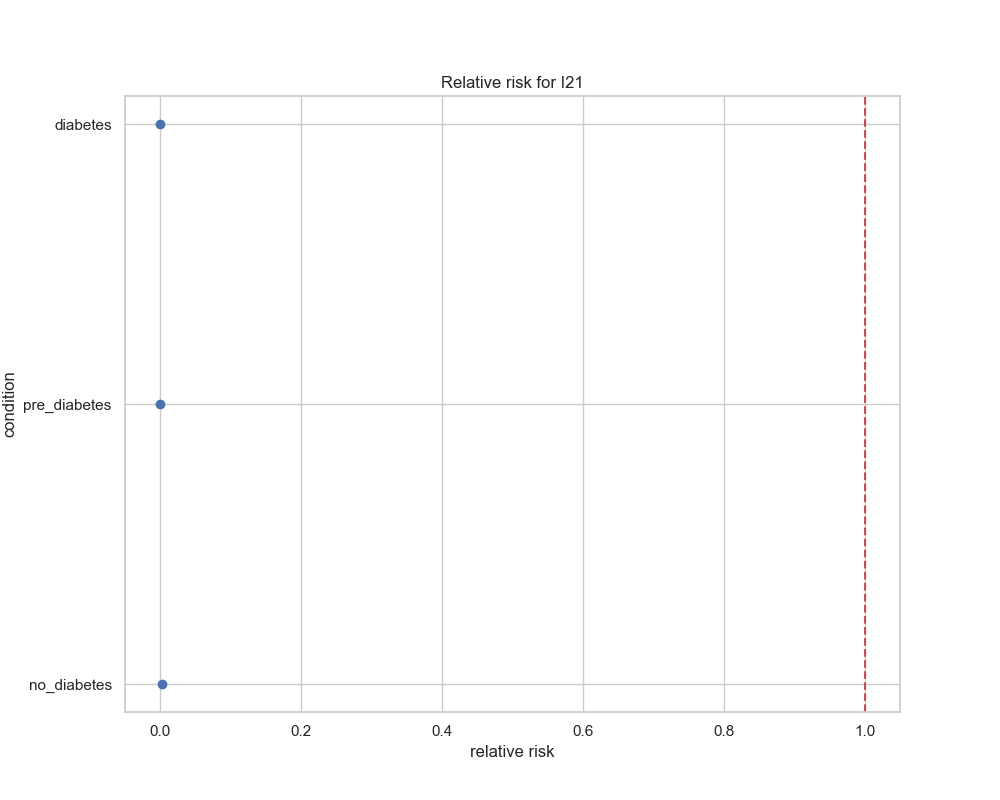
## plot\_interaction\_analysis



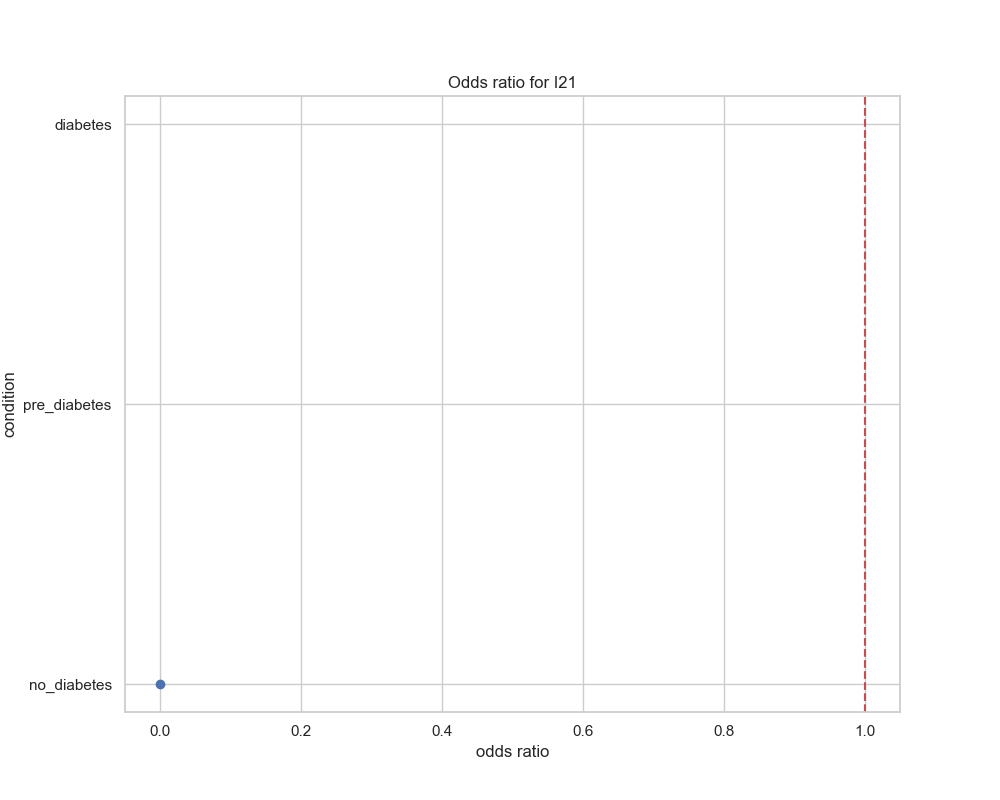
## visualize\_chi\_square\_results



## visualize\_relative\_risk\_results



## visualize\_odds\_ratio\_results



## visualize\_relative\_risk\_by\_age\_results

