T81

## one\_way\_anova

(1.0900729620782093, 0.336395070684971)

## t\_test

t\_statistic p\_value  
pre\_diabetes vs no\_diabetes -1.044784 0.296275  
diabetes vs no\_diabetes 0.923357 0.355943

## tukey\_hsd

Multiple Comparison of Means - Tukey HSD, FWER=0.05   
==============================================================  
 group1 group2 meandiff p-adj lower upper reject  
--------------------------------------------------------------  
 diabetes no\_diabetes -0.0126 0.617 -0.0443 0.019 False  
 diabetes pre\_diabetes -0.0323 0.3114 -0.0843 0.0197 False  
no\_diabetes pre\_diabetes -0.0197 0.5631 -0.0648 0.0255 False  
--------------------------------------------------------------

## covariance\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.134460 1.0 2.874687 0.090141  
C(pre\_diabetes) 0.042837 1.0 0.915829 0.338690  
C(diabetes) 0.101950 1.0 2.179630 0.140008  
Age 0.208630 1.0 4.460388 0.034816  
Residual 91.910649 1965.0 NaN NaN

## interaction\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.013326 1.0 0.284984 0.593513  
C(pre\_diabetes) 0.115452 1.0 2.468989 0.116274  
C(diabetes) 0.101950 1.0 2.180245 0.139953  
Age 0.208630 1.0 4.461645 0.034790  
C(diabetes):Age 0.072646 1.0 1.553568 0.212758  
Residual 91.838003 1964.0 NaN NaN

## interaction\_analysis2

dfn dfd F PR(>F)  
diabetes 1.0 1827.0 1.663787 0.197256  
pre\_diabetes 1.0 1837.0 0.313942 0.575340

## chi\_square\_test

condition chi2 p\_value dof  
0 no\_diabetes 0.011403 0.914960 1  
1 pre\_diabetes 0.878889 0.348506 1  
2 diabetes 0.851915 0.356011 1

## relative\_risk\_analysis

condition relative\_risk ci p\_value  
0 no\_diabetes 0.051140 0.040487 1.169488e-137  
1 pre\_diabetes 0.029851 0.011042 2.249332e-12  
2 diabetes 0.065292 0.041049 4.955976e-31

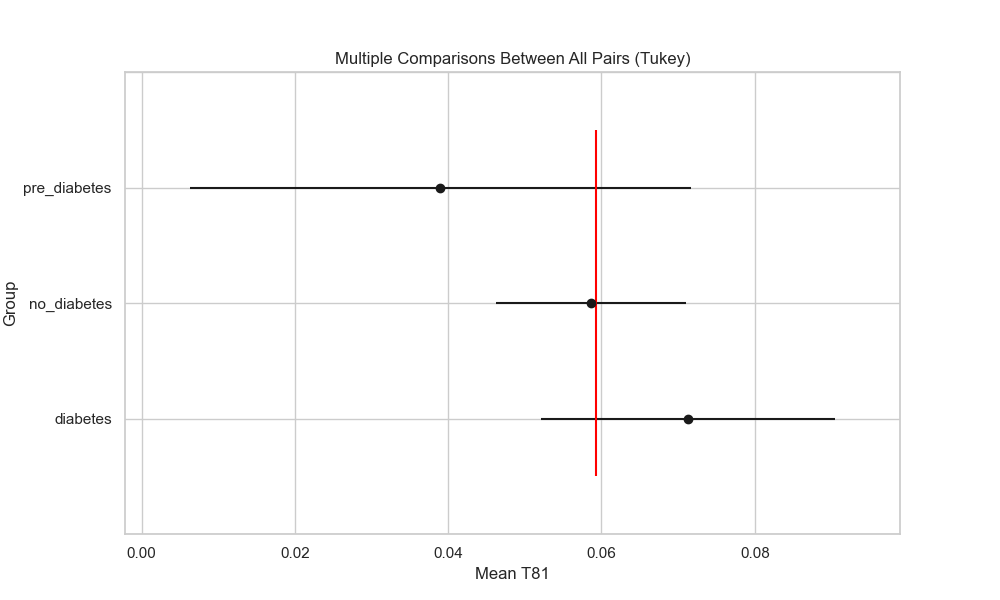
## odds\_ratio\_analysis

condition odds\_ratio ci p\_value  
0 no\_diabetes 1.058219 0.837774 0.804386  
1 pre\_diabetes 1.792578 0.663089 0.311747  
2 diabetes 0.755618 0.475060 0.315589

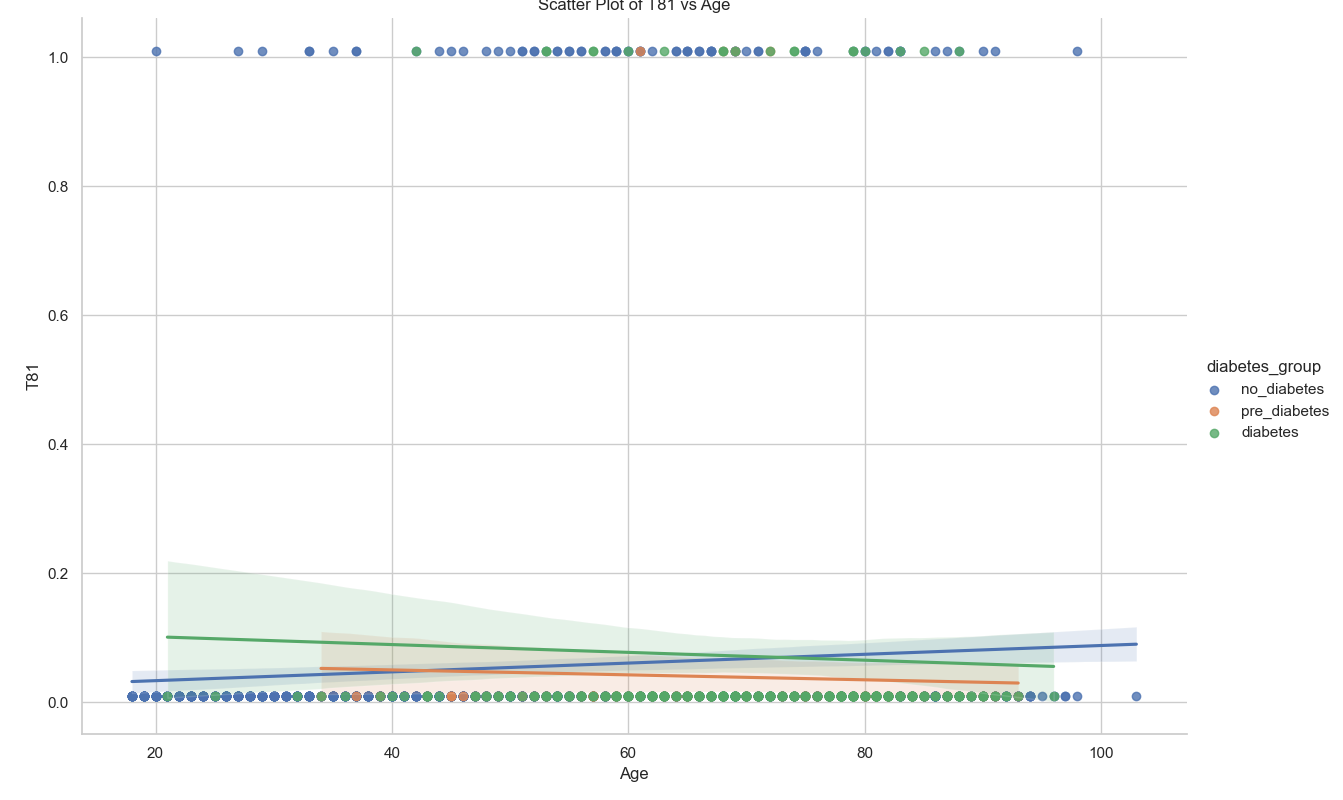
## relative\_risk\_by\_age

age\_group condition relative\_risk p\_value confidence\_interval  
6 18-40 No Diabetes 0.000000 1.000000 0.000000  
7 18-40 Pre-Diabetes inf 1.000000 NaN  
8 18-40 Diabetes inf 1.000000 NaN  
3 40-60 No Diabetes 1.348861 0.605873 0.901570  
4 40-60 Pre-Diabetes inf 0.401026 NaN  
5 40-60 Diabetes 0.430731 0.110808 0.184520  
0 60+ No Diabetes 0.798418 0.479169 0.582301  
1 60+ Pre-Diabetes 1.545918 0.506545 0.569167  
2 60+ Diabetes 1.087515 0.875009 0.622175

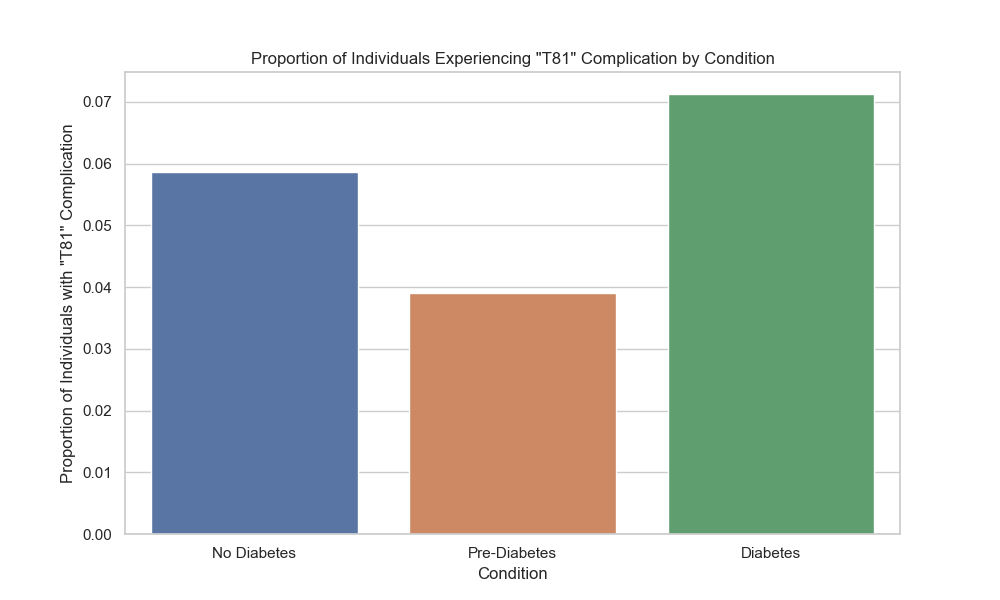
## visualize\_tukey\_results



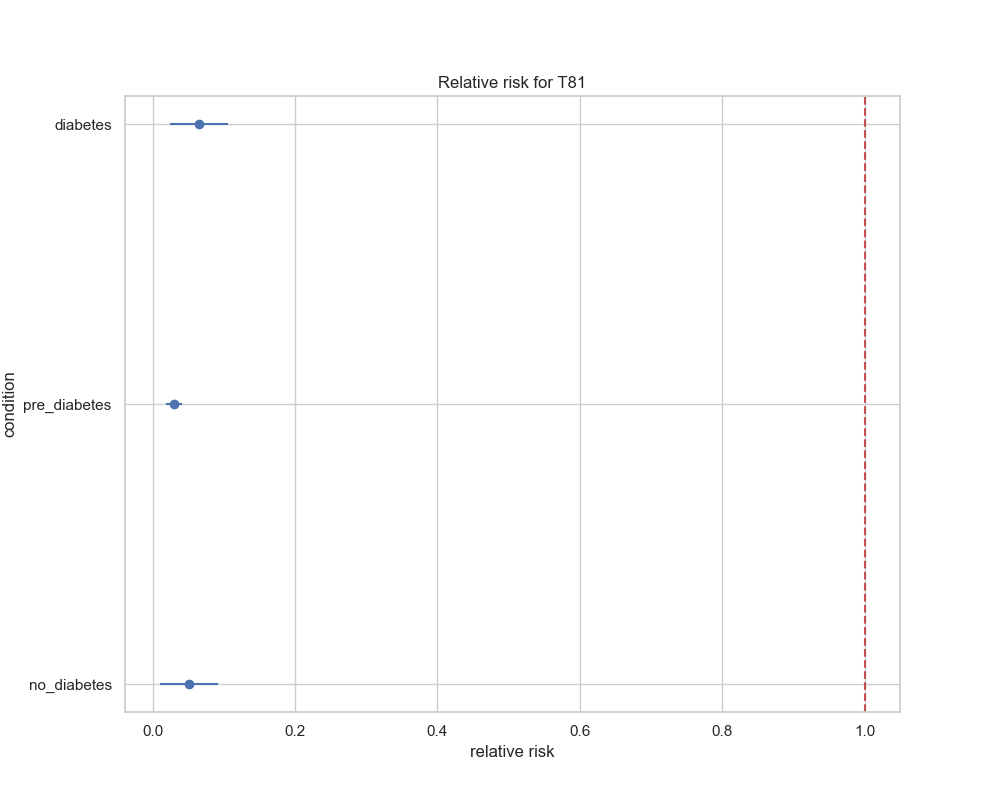
## plot\_interaction\_analysis



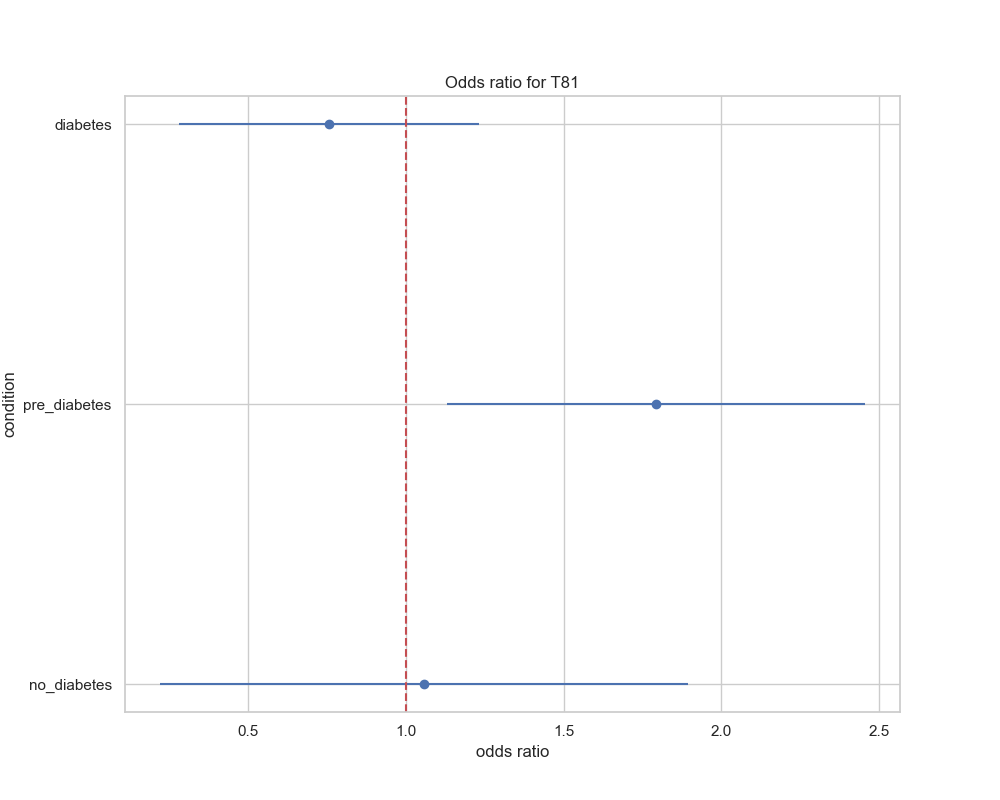
## visualize\_chi\_square\_results



## visualize\_relative\_risk\_results



## visualize\_odds\_ratio\_results



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

