T84

## one\_way\_anova

(0.5024151843142112, 0.6051617330528427)

## t\_test

t\_statistic p\_value  
pre\_diabetes vs no\_diabetes -0.070851 0.943526  
diabetes vs no\_diabetes -1.002623 0.316210

## tukey\_hsd

Multiple Comparison of Means - Tukey HSD, FWER=0.05   
==============================================================  
 group1 group2 meandiff p-adj lower upper reject  
--------------------------------------------------------------  
 diabetes no\_diabetes 0.0092 0.5769 -0.0124 0.0309 False  
 diabetes pre\_diabetes 0.0085 0.7881 -0.0217 0.0387 False  
no\_diabetes pre\_diabetes -0.0008 0.997 -0.0251 0.0236 False  
--------------------------------------------------------------

## covariance\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.110637 1.0 6.763061 0.009391  
C(pre\_diabetes) 0.041140 1.0 2.514825 0.112975  
C(diabetes) 0.008160 1.0 0.498794 0.480132  
Age 0.033167 1.0 2.027433 0.154674  
Residual 26.501493 1620.0 NaN NaN

## interaction\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.025763 1.0 1.573999 0.209808  
C(pre\_diabetes) 0.022808 1.0 1.393496 0.237989  
C(diabetes) 0.008160 1.0 0.498529 0.480249  
Age 0.033167 1.0 2.026359 0.154783  
C(diabetes):Age 0.002321 1.0 0.141830 0.706518  
Residual 26.499172 1619.0 NaN NaN

## interaction\_analysis2

dfn dfd F PR(>F)  
diabetes 1.0 1487.0 0.010774 0.917343  
pre\_diabetes 1.0 1494.0 0.190438 0.662615

## chi\_square\_test

condition chi2 p\_value dof  
0 no\_diabetes 0.283222 0.594597 1  
1 pre\_diabetes 0.000000 1.000000 1  
2 diabetes 0.519852 0.470905 1

## relative\_risk\_analysis

condition relative\_risk ci p\_value  
0 no\_diabetes 0.018333 0.012026 2.027412e-77  
1 pre\_diabetes 0.017544 0.005603 1.931034e-12  
2 diabetes 0.008850 0.002200 1.405478e-11

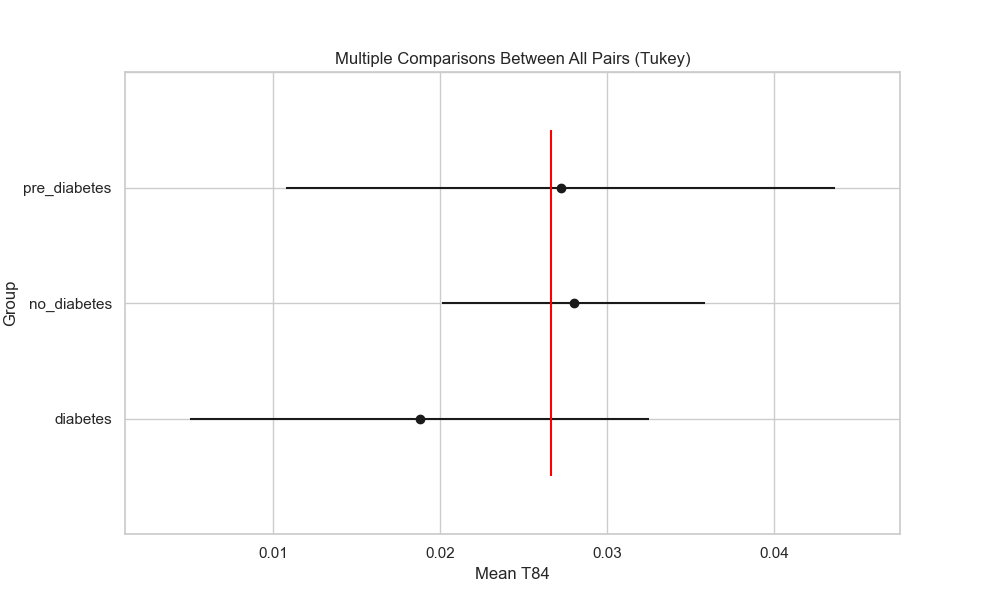
## odds\_ratio\_analysis

condition odds\_ratio ci p\_value  
0 no\_diabetes 0.686970 0.450615 0.652564  
1 pre\_diabetes 0.959327 0.306361 1.000000  
2 diabetes 2.060540 0.512193 0.413430

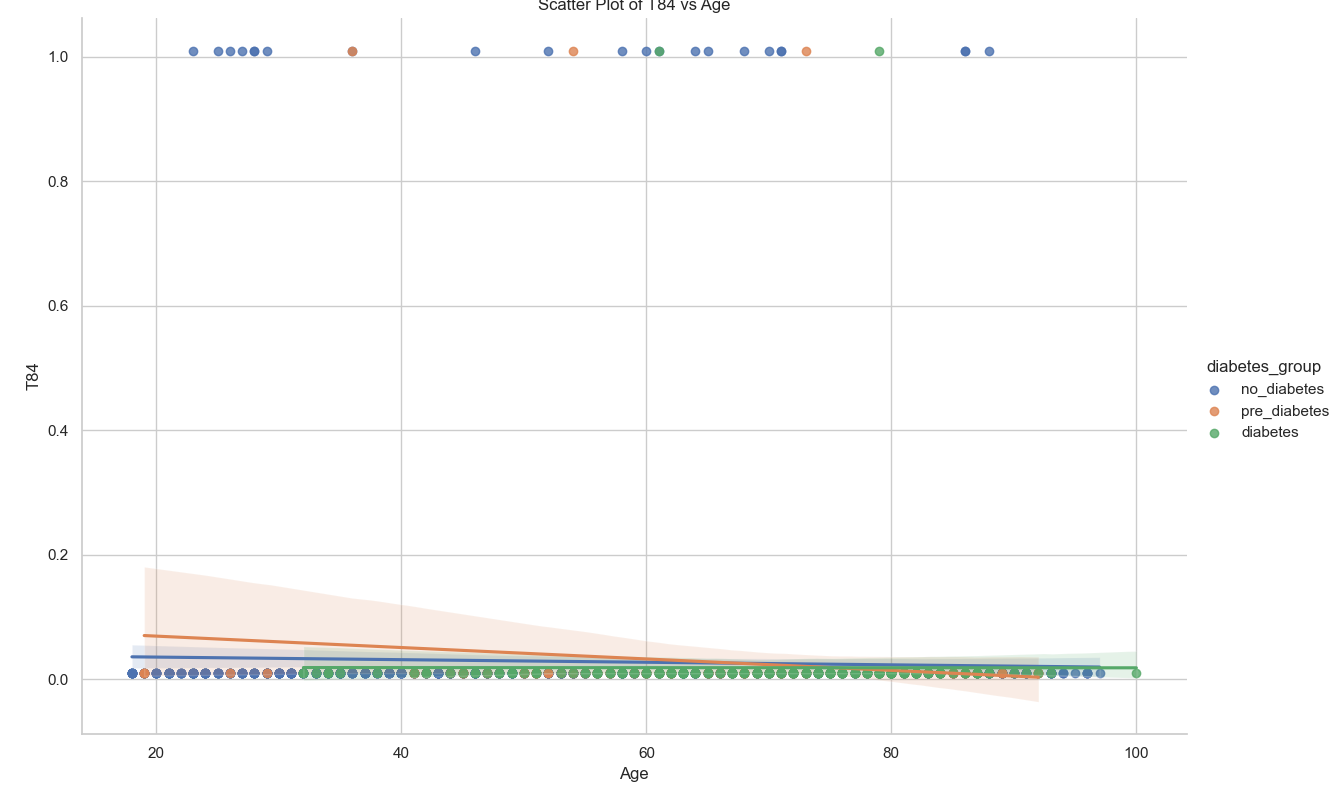
## relative\_risk\_by\_age

age\_group condition relative\_risk p\_value confidence\_interval  
6 18-40 No Diabetes 2.947917 0.328830 1.459977  
7 18-40 Pre-Diabetes 0.137931 0.166264 0.016115  
8 18-40 Diabetes inf 1.000000 NaN  
3 40-60 No Diabetes 0.951613 1.000000 0.355191  
4 40-60 Pre-Diabetes 0.526582 0.465575 0.072798  
5 40-60 Diabetes inf 1.000000 NaN  
0 60+ No Diabetes 0.578425 0.559390 0.309523  
1 60+ Pre-Diabetes 1.846154 1.000000 0.257835  
2 60+ Diabetes 1.446086 1.000000 0.358865

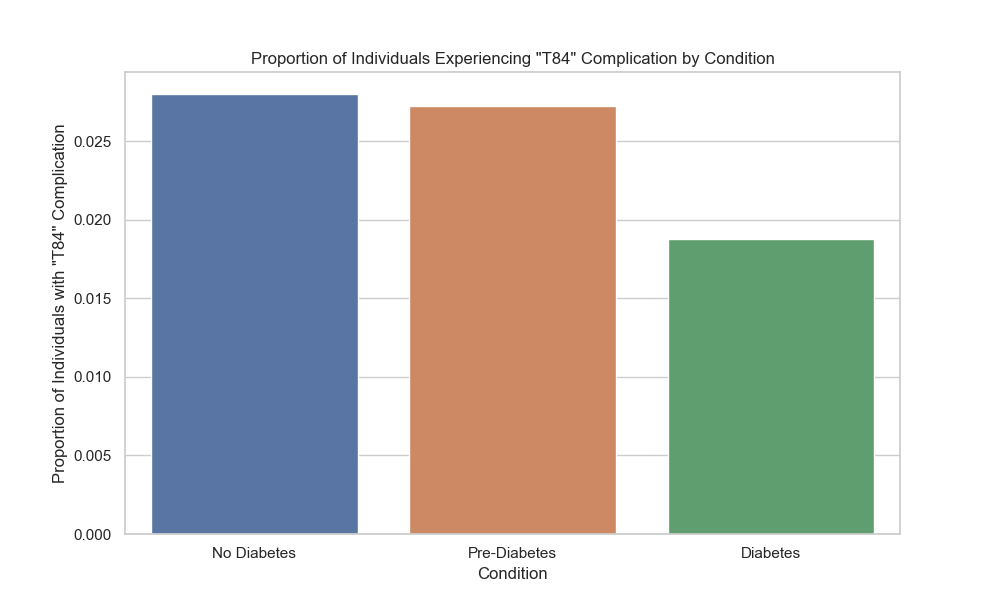
## visualize\_tukey\_results



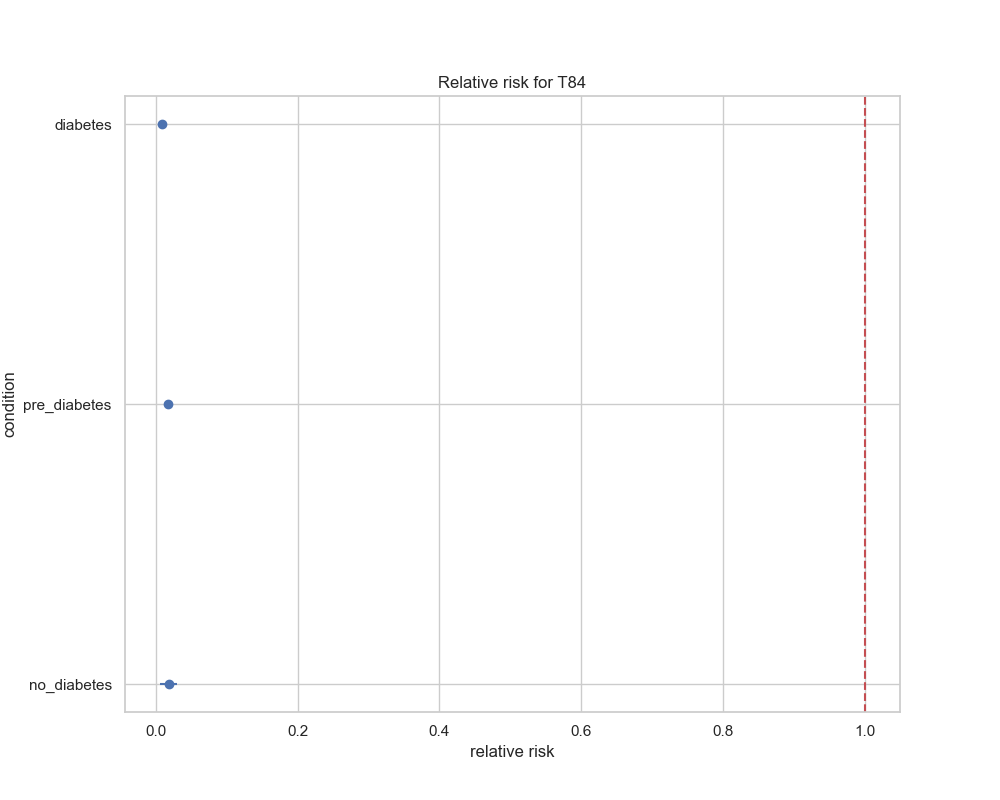
## plot\_interaction\_analysis



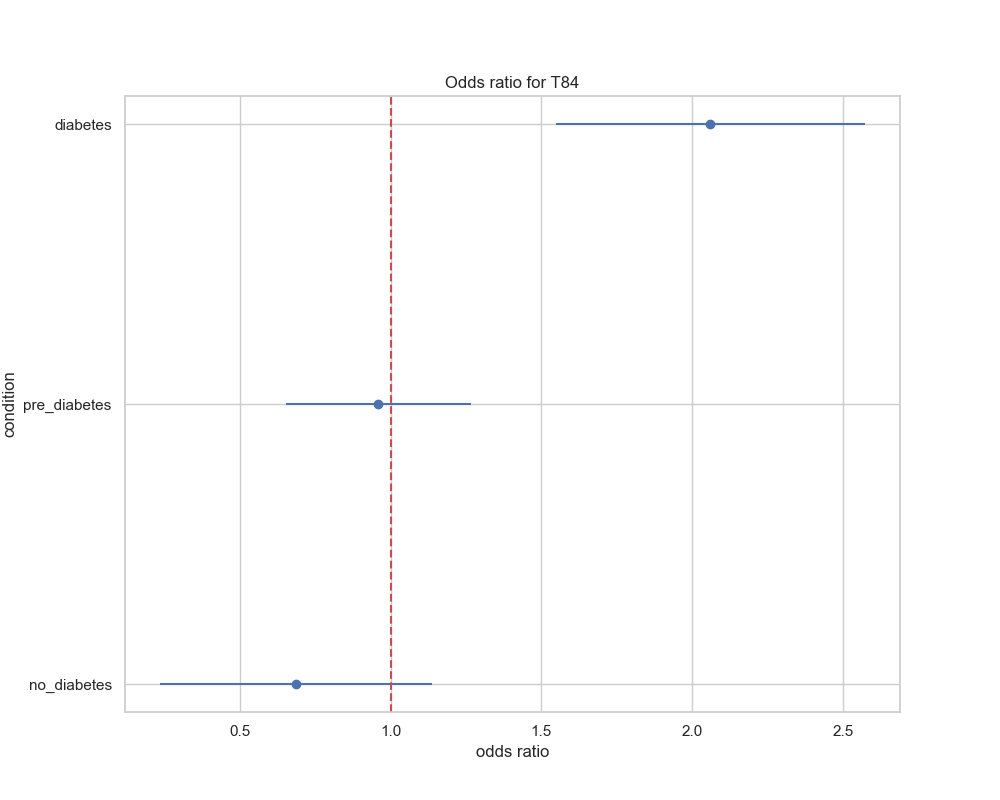
## visualize\_chi\_square\_results



## visualize\_relative\_risk\_results



## visualize\_odds\_ratio\_results



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

