INTENSIV

## one\_way\_anova

(3.746942910153029, 0.024048467532678093)

## t\_test

t\_statistic p\_value  
pre\_diabetes vs no\_diabetes -2.595849 0.009671  
diabetes vs no\_diabetes -1.354127 0.176224

## tukey\_hsd

Multiple Comparison of Means - Tukey HSD, FWER=0.05   
===============================================================  
 group1 group2 meandiff p-adj lower upper reject  
---------------------------------------------------------------  
 diabetes no\_diabetes 0.0545 0.3409 -0.0369 0.146 False  
 diabetes pre\_diabetes -0.045 0.6084 -0.1563 0.0662 False  
no\_diabetes pre\_diabetes -0.0996 0.0243 -0.1888 -0.0103 True  
---------------------------------------------------------------

## covariance\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 1.990572 1.0 12.930456 0.000345  
C(pre\_diabetes) 0.838493 1.0 5.446720 0.019878  
C(diabetes) 0.186975 1.0 1.214559 0.270798  
Age 3.588729 1.0 23.311842 0.000002  
Residual 111.301856 723.0 NaN NaN

## interaction\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 0.445286 1.0 2.888733 0.089632  
C(pre\_diabetes) 0.180942 1.0 1.173835 0.278976  
C(diabetes) 0.186975 1.0 1.212972 0.271111  
Age 3.588729 1.0 23.281383 0.000002  
C(diabetes):Age 0.008532 1.0 0.055353 0.814064  
Residual 111.293324 722.0 NaN NaN

## interaction\_analysis2

dfn dfd F PR(>F)  
diabetes 1.0 592.0 13.449835 0.000267  
pre\_diabetes 1.0 591.0 6.145323 0.013454

## chi\_square\_test

condition chi2 p\_value dof  
0 no\_diabetes 6.071548 0.013738 1  
1 pre\_diabetes 4.967108 0.025834 1  
2 diabetes 0.449428 0.502607 1

## relative\_risk\_analysis

condition relative\_risk ci p\_value  
0 no\_diabetes 0.298246 0.239080 3.934949e-27  
1 pre\_diabetes 0.149606 0.092379 5.671478e-15  
2 diabetes 0.212389 0.136716 2.724899e-12

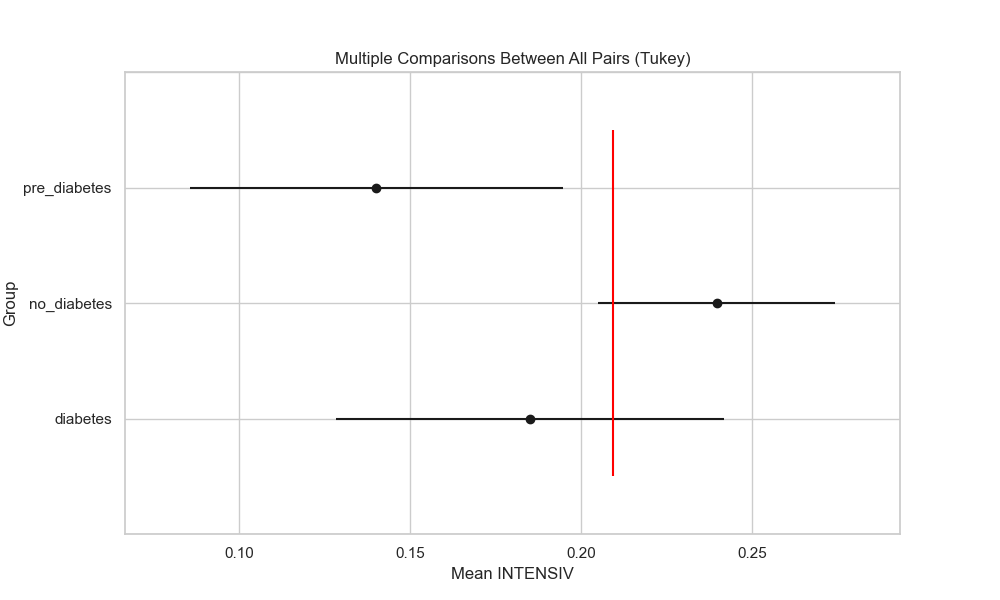
## odds\_ratio\_analysis

condition odds\_ratio ci p\_value  
0 no\_diabetes 0.600735 0.481562 0.010307  
1 pre\_diabetes 1.851012 1.142962 0.020211  
2 diabetes 1.214730 0.781925 0.477656

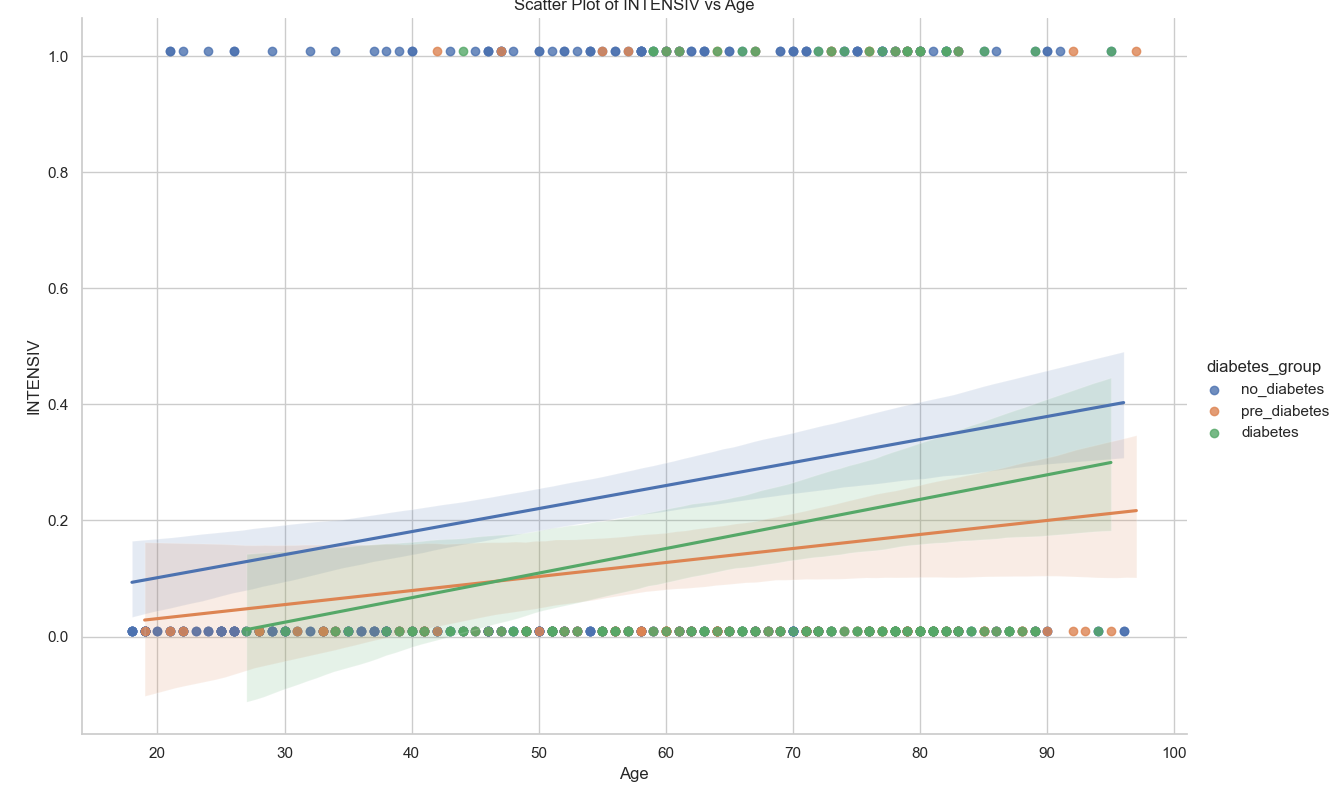
## relative\_risk\_by\_age

age\_group condition relative\_risk p\_value confidence\_interval  
6 18-40 No Diabetes 0.000000 0.222316 0.000000  
7 18-40 Pre-Diabetes inf 0.615694 NaN  
8 18-40 Diabetes inf 1.000000 NaN  
3 40-60 No Diabetes 0.402797 0.030049 0.271220  
4 40-60 Pre-Diabetes 2.131200 0.194096 0.836333  
5 40-60 Diabetes 2.087121 0.242547 0.733741  
0 60+ No Diabetes 0.545927 0.015453 0.399131  
1 60+ Pre-Diabetes 1.971024 0.034082 1.115899  
2 60+ Diabetes 1.225234 0.577482 0.748689

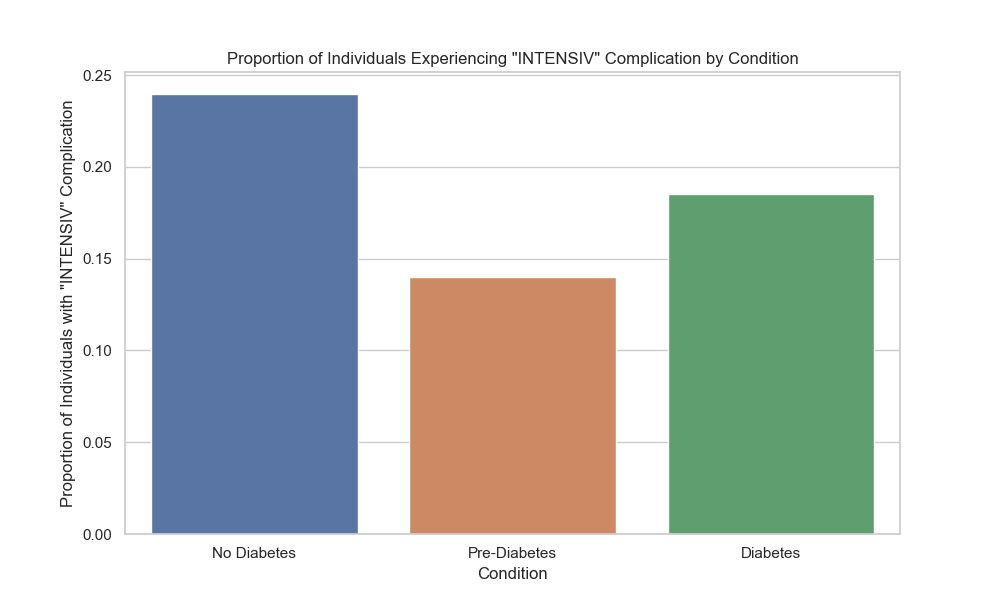
## visualize\_tukey\_results



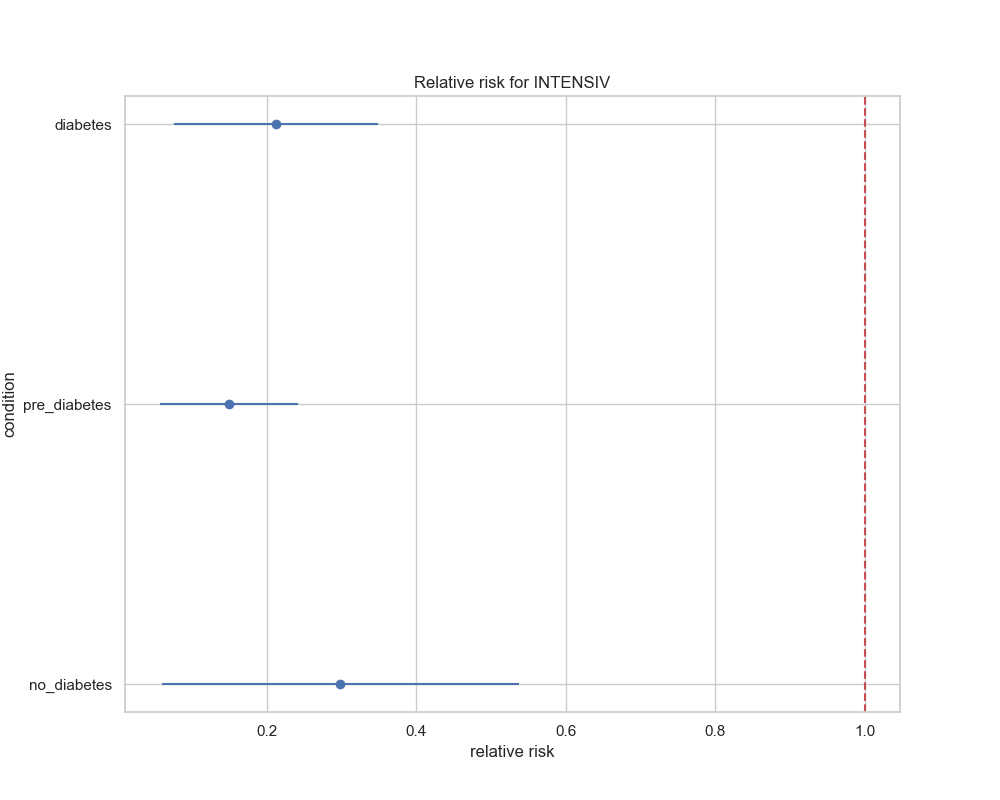
## plot\_interaction\_analysis



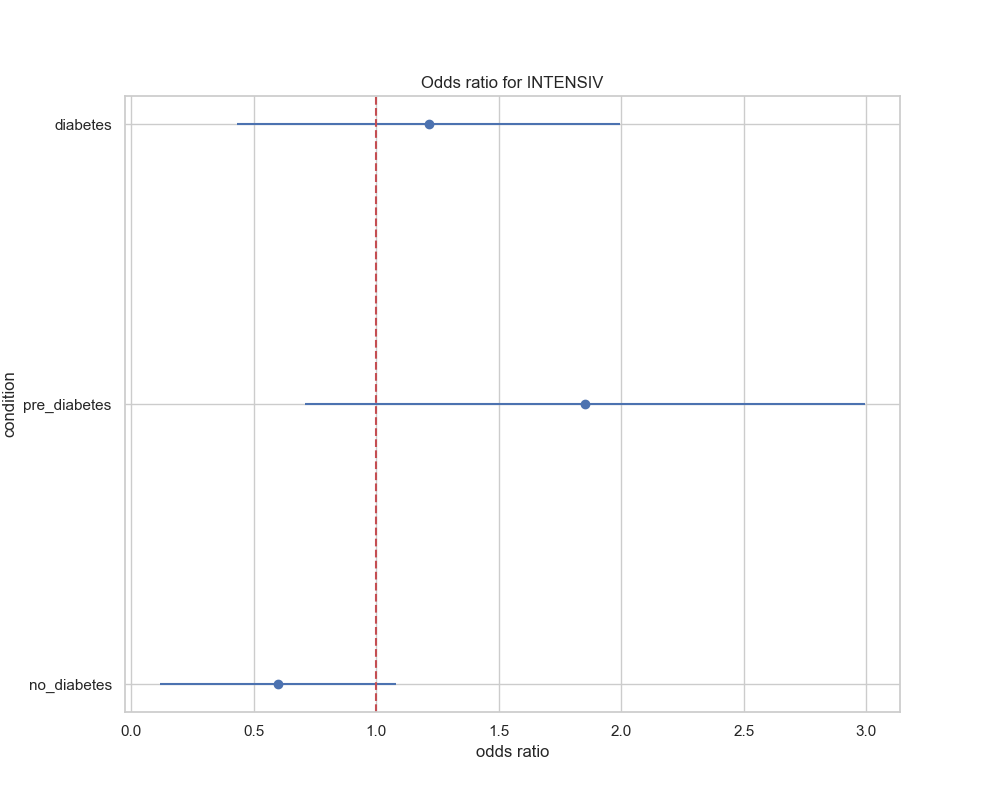
## visualize\_chi\_square\_results



## visualize\_relative\_risk\_results



## visualize\_odds\_ratio\_results



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

