INTENSIV

## one\_way\_anova

(86.57213916117553, 9.259718233695341e-37)

## t\_test

t\_statistic p\_value  
pre\_diabetes vs no\_diabetes 12.757937 1.258457e-35  
diabetes vs no\_diabetes 6.245474 5.241195e-10

## tukey\_hsd

Multiple Comparison of Means - Tukey HSD, FWER=0.05   
==============================================================  
 group1 group2 meandiff p-adj lower upper reject  
--------------------------------------------------------------  
 diabetes no\_diabetes -0.1505 0.0 -0.2082 -0.0928 True  
 diabetes pre\_diabetes 0.2813 0.0 0.1865 0.3761 True  
no\_diabetes pre\_diabetes 0.4318 0.0 0.3494 0.5142 True  
--------------------------------------------------------------

## covariance\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 14.061405 1.0 91.827607 2.738378e-21  
C(pre\_diabetes) 14.706379 1.0 96.039595 3.593366e-22  
C(diabetes) 0.067731 1.0 0.442316 5.060850e-01  
Age 5.915543 1.0 38.631290 6.234122e-10  
Residual 300.897095 1965.0 NaN NaN

## interaction\_analysis

sum\_sq df F PR(>F)  
C(no\_diabetes) 2.511448 1.0 16.395193 5.341212e-05  
C(pre\_diabetes) 4.903029 1.0 32.007870 1.760932e-08  
C(diabetes) 0.067731 1.0 0.442160 5.061596e-01  
Age 5.915543 1.0 38.617746 6.277311e-10  
C(diabetes):Age 0.047658 1.0 0.311122 5.770561e-01  
Residual 300.849437 1964.0 NaN NaN

## interaction\_analysis2

dfn dfd F PR(>F)  
diabetes 1.0 1827.0 118.820373 7.539529e-27  
pre\_diabetes 1.0 1837.0 16.887620 4.140445e-05

## chi\_square\_test

condition chi2 p\_value dof  
0 no\_diabetes 113.410717 1.754044e-26 1  
1 pre\_diabetes 122.580339 1.722955e-28 1  
2 diabetes 19.558994 9.754045e-06 1

## relative\_risk\_analysis

condition relative\_risk ci p\_value  
0 no\_diabetes 0.193878 0.169180 2.080494e-123  
1 pre\_diabetes 1.464286 1.042473 1.390660e-02  
2 diabetes 0.455399 0.358201 6.745662e-11

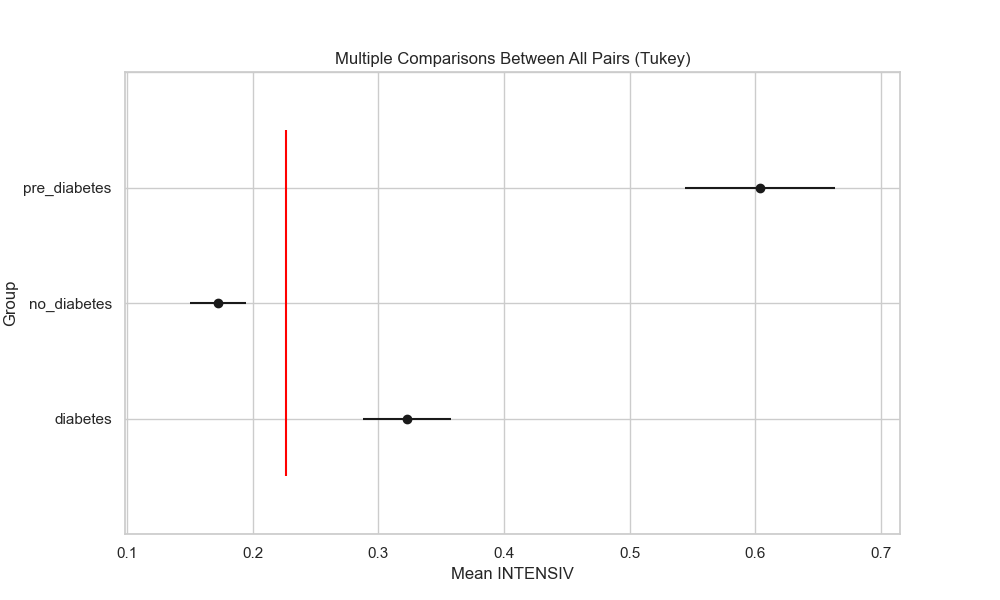
## odds\_ratio\_analysis

condition odds\_ratio ci p\_value  
0 no\_diabetes 3.432205 2.994986 2.827400e-24  
1 pre\_diabetes 0.157987 0.112476 1.023375e-23  
2 diabetes 0.543190 0.427255 1.643965e-05

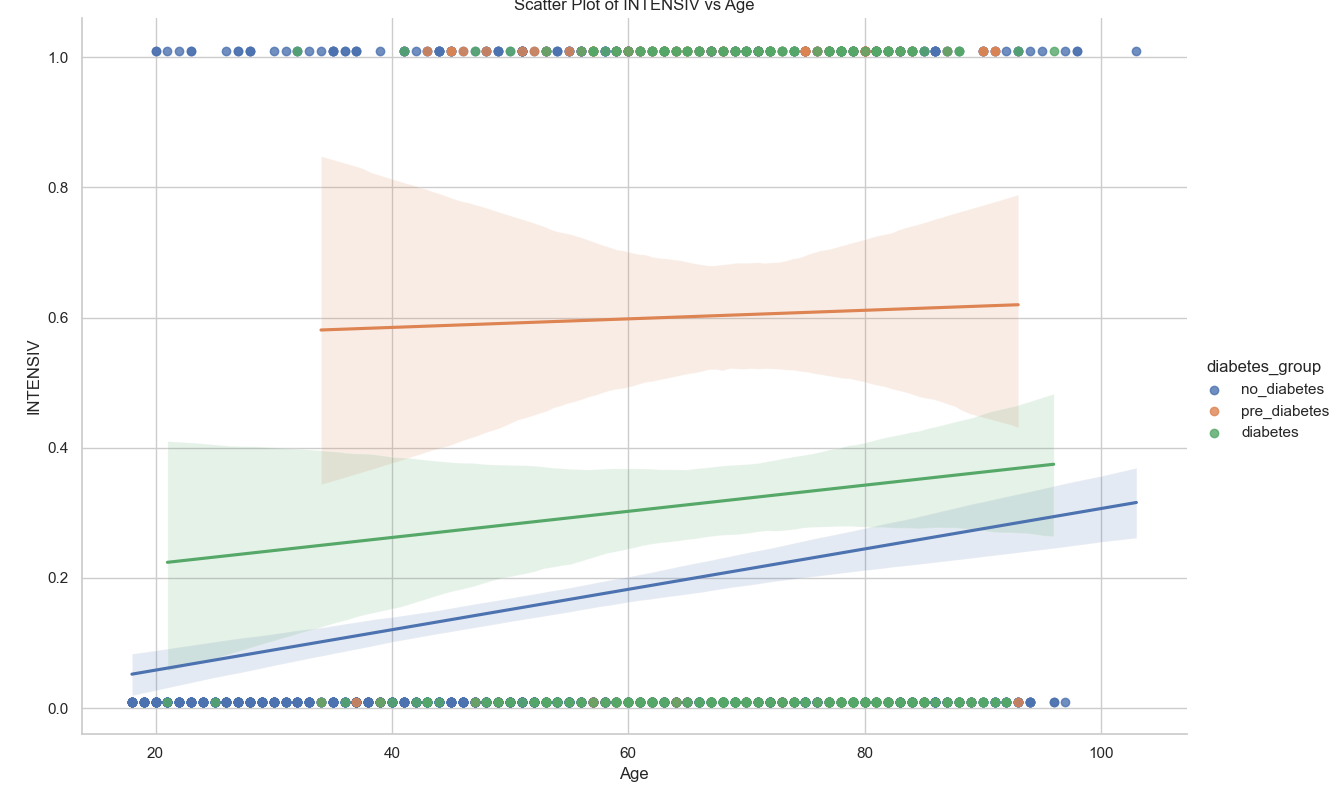
## relative\_risk\_by\_age

age\_group condition relative\_risk p\_value confidence\_interval  
6 18-40 No Diabetes 1.333333 5.584261e-01 0.906793  
7 18-40 Pre-Diabetes inf 1.000000e+00 NaN  
8 18-40 Diabetes 0.495575 4.343373e-01 0.059663  
3 40-60 No Diabetes 2.855407 1.089806e-04 2.221443  
4 40-60 Pre-Diabetes 0.145989 1.232623e-06 0.070910  
5 40-60 Diabetes 0.777846 4.636832e-01 0.410198  
0 60+ No Diabetes 2.688042 3.795673e-12 2.240085  
1 60+ Pre-Diabetes 0.201637 4.108963e-14 0.135992  
2 60+ Diabetes 0.712401 3.582389e-02 0.547667

## visualize\_tukey\_results



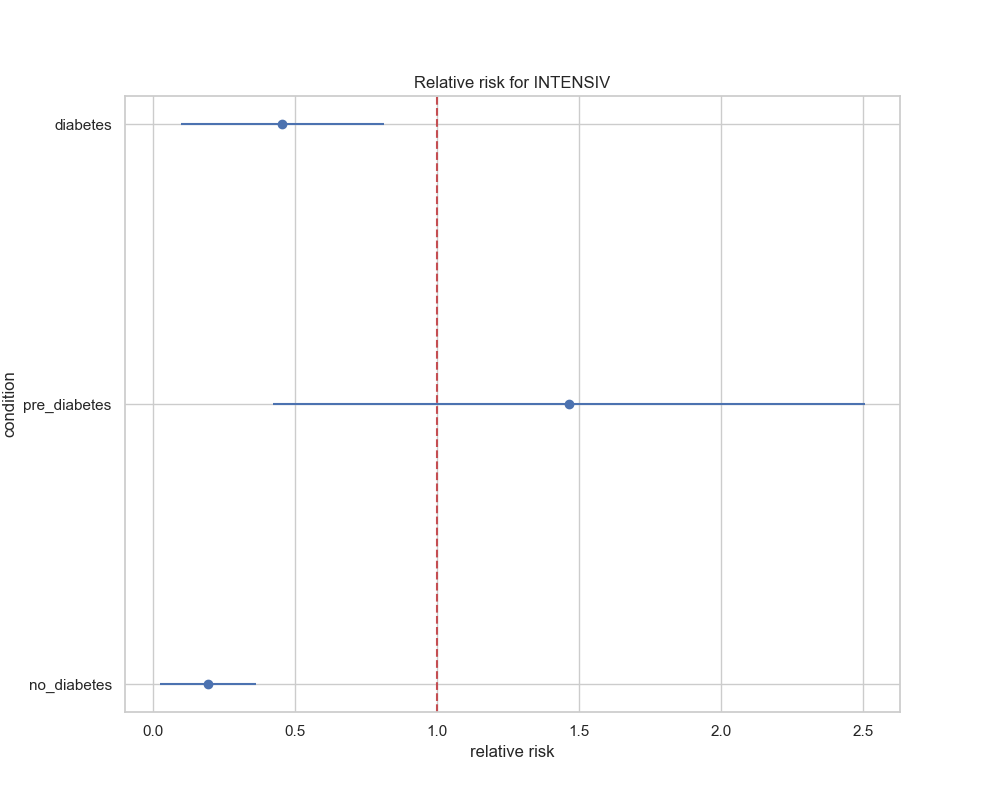
## plot\_interaction\_analysis



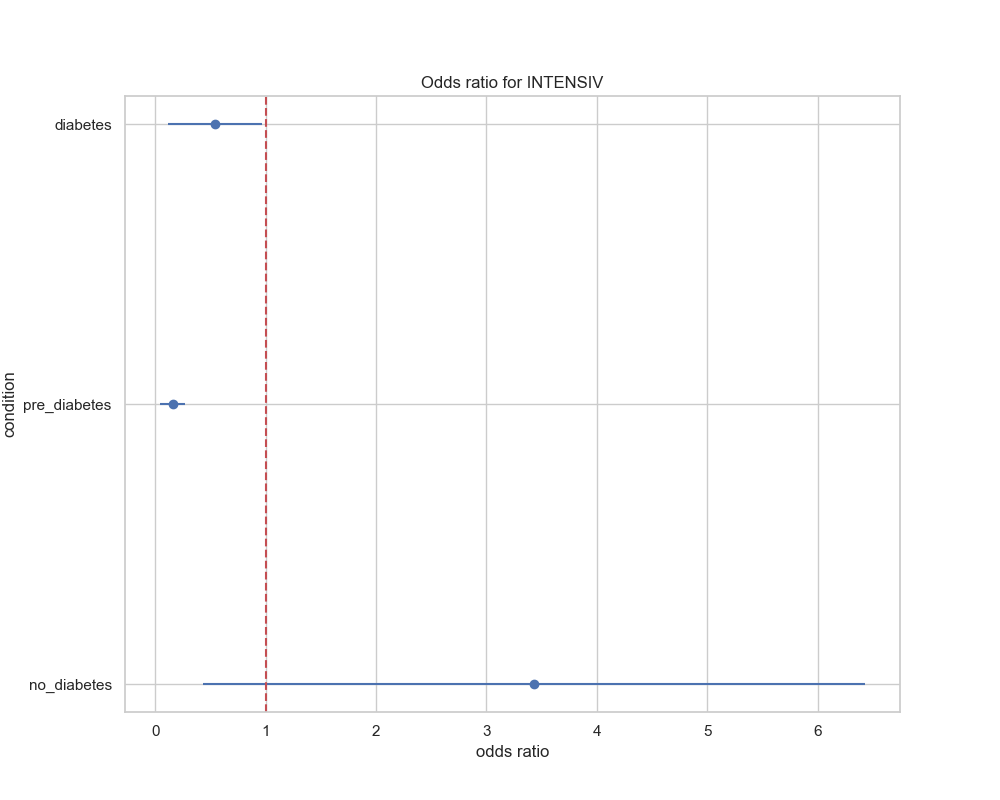
## visualize\_chi\_square\_results



## visualize\_relative\_risk\_results



## visualize\_odds\_ratio\_results



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

