# cp decomposition glioma 73 train rank5

# VIVI TANG

# 17/11/2021

#### 1. Kmeans

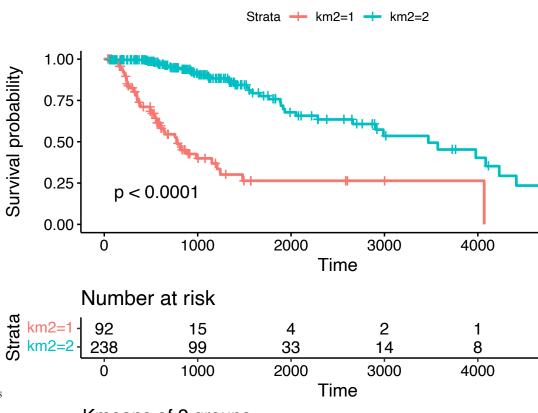
## Warning: package 'lattice' was built under R version 3.6.2

## Warning: package 'survival' was built under R version 3.6.2

## Warning: package 'survminer' was built under R version 3.6.2

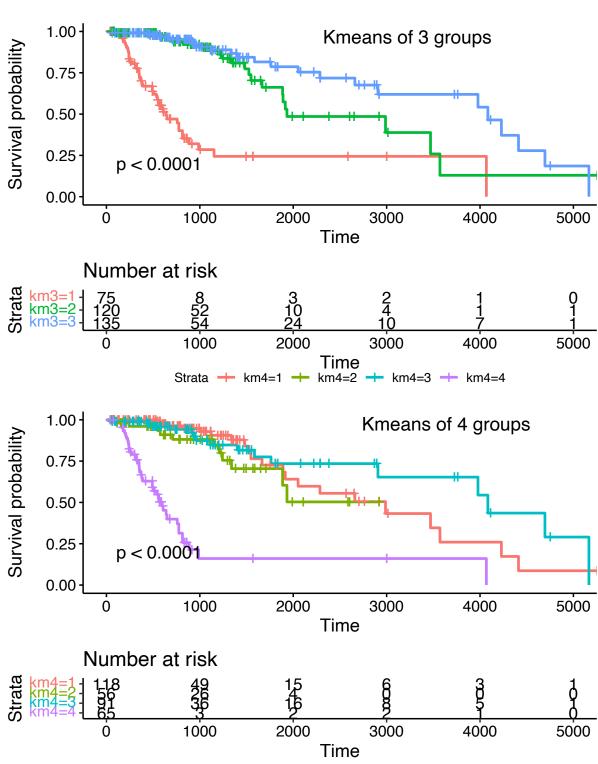
## Warning: package 'ggplot2' was built under R version 3.6.2

## Warning: package 'ggpubr' was built under R version 3.6.2



3. Fit the results of Kmeans

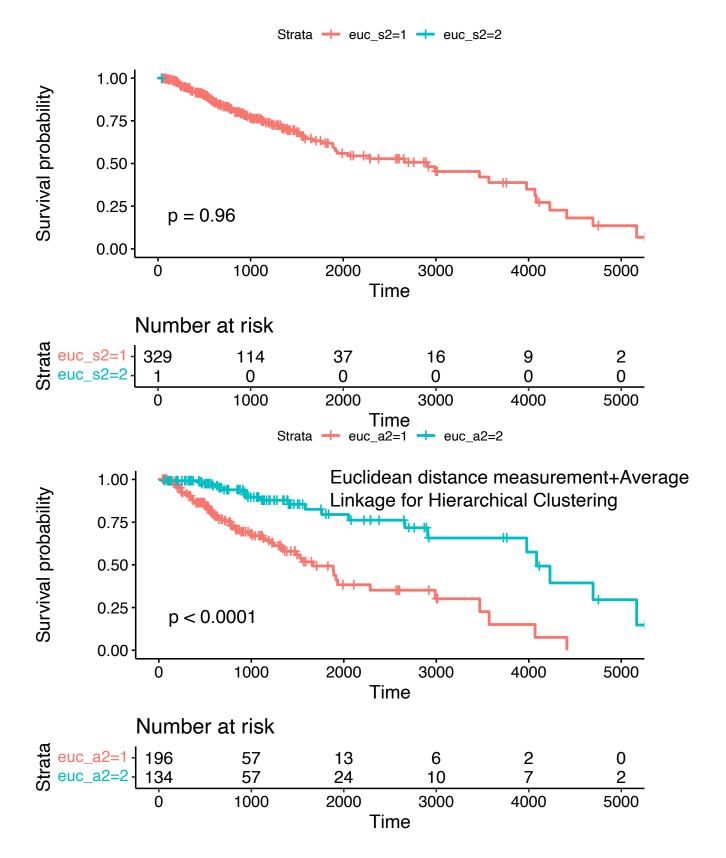
Kmeans of 2 groups

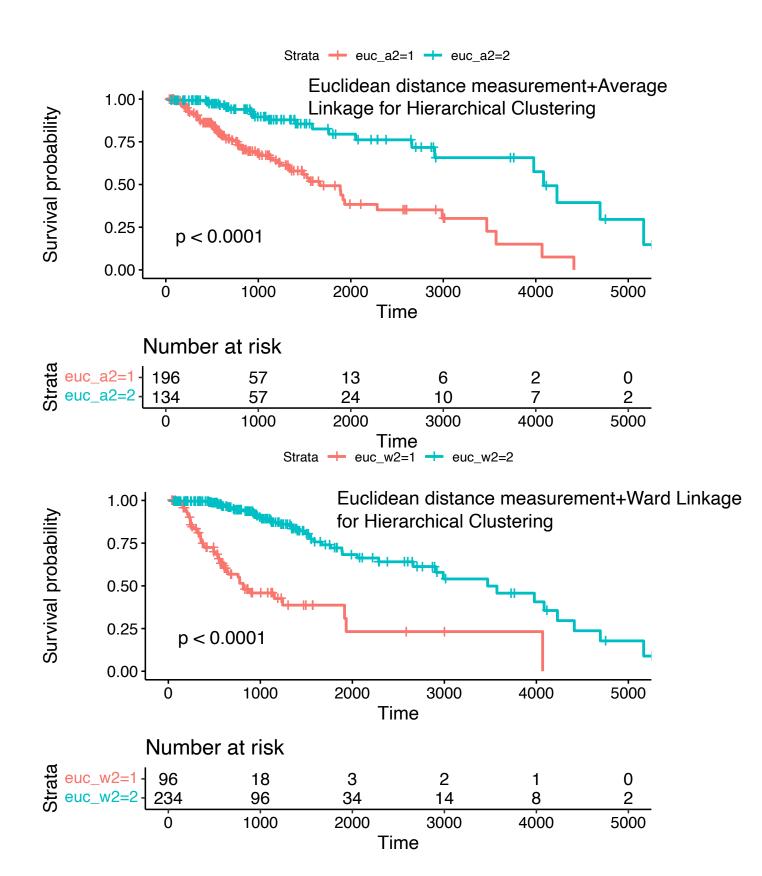


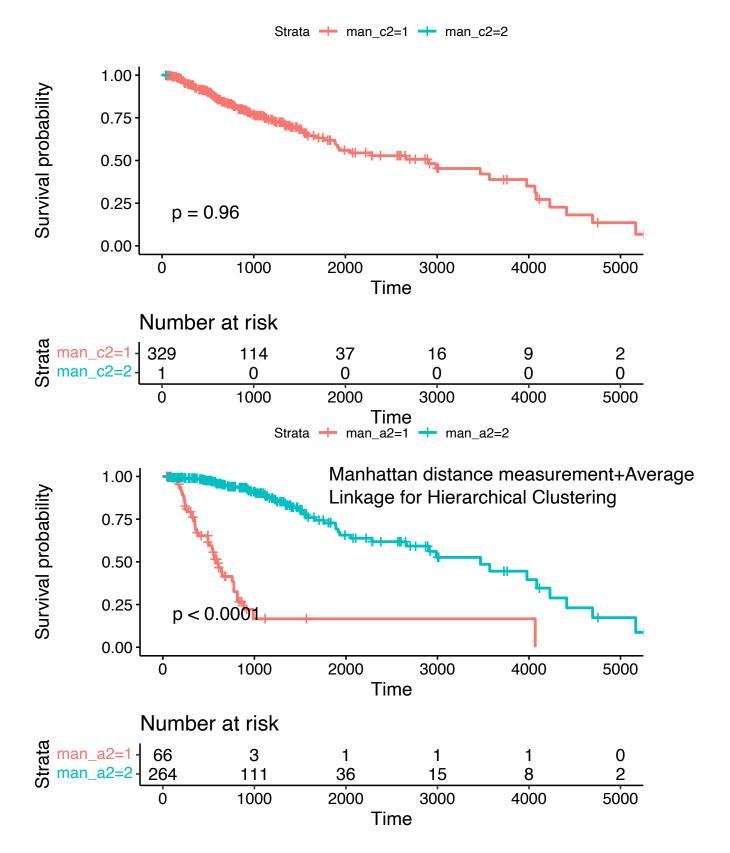
Strata + km3=1 + km3=2 + km3=3

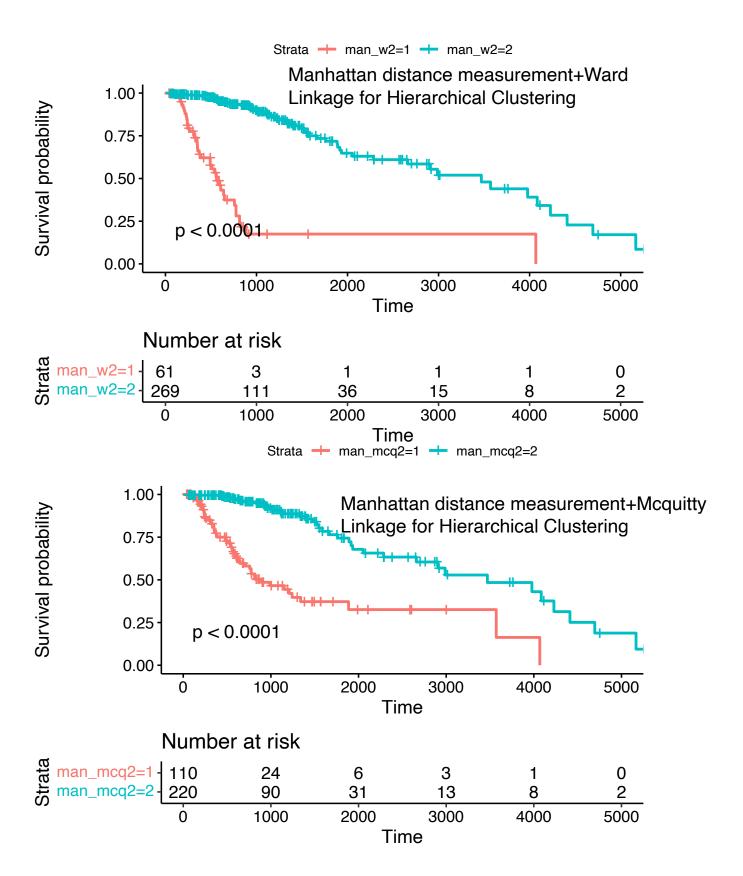
4. Hierarchical Clustering

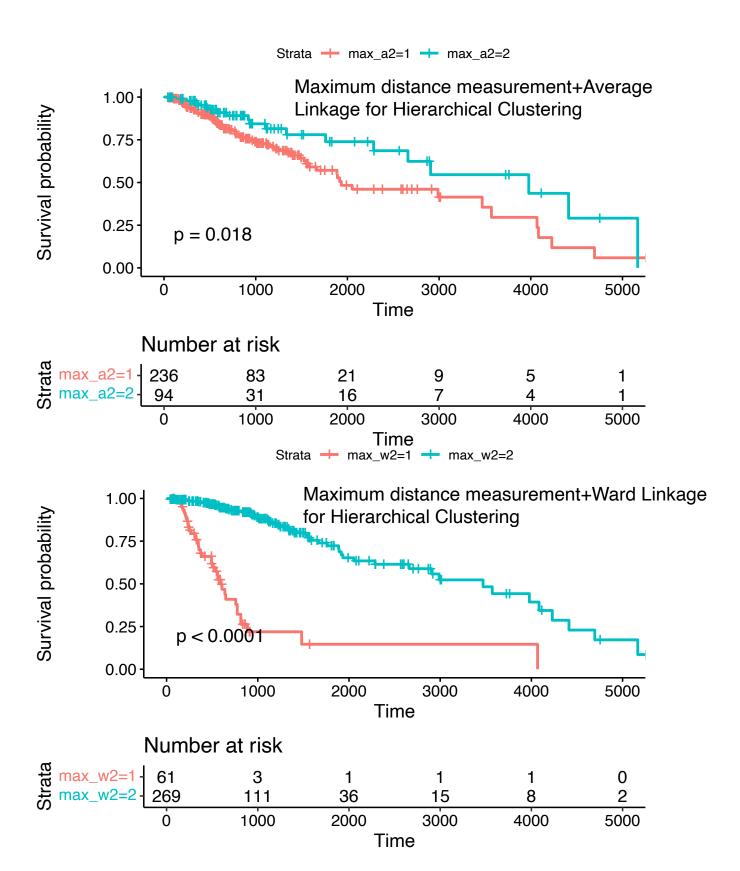
## Warning: package 'proxy' was built under R version 3.6.2

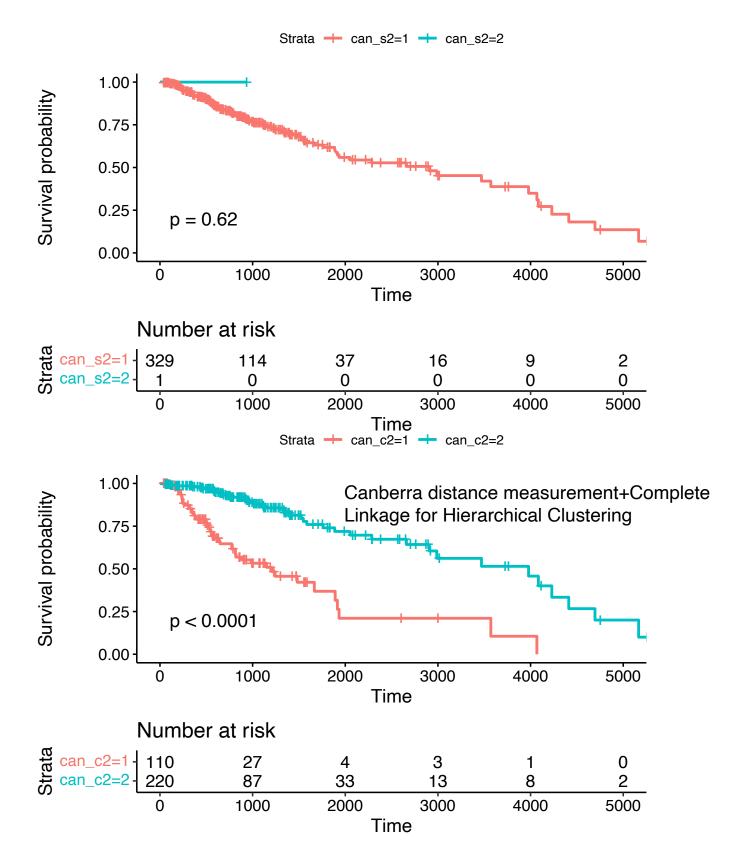


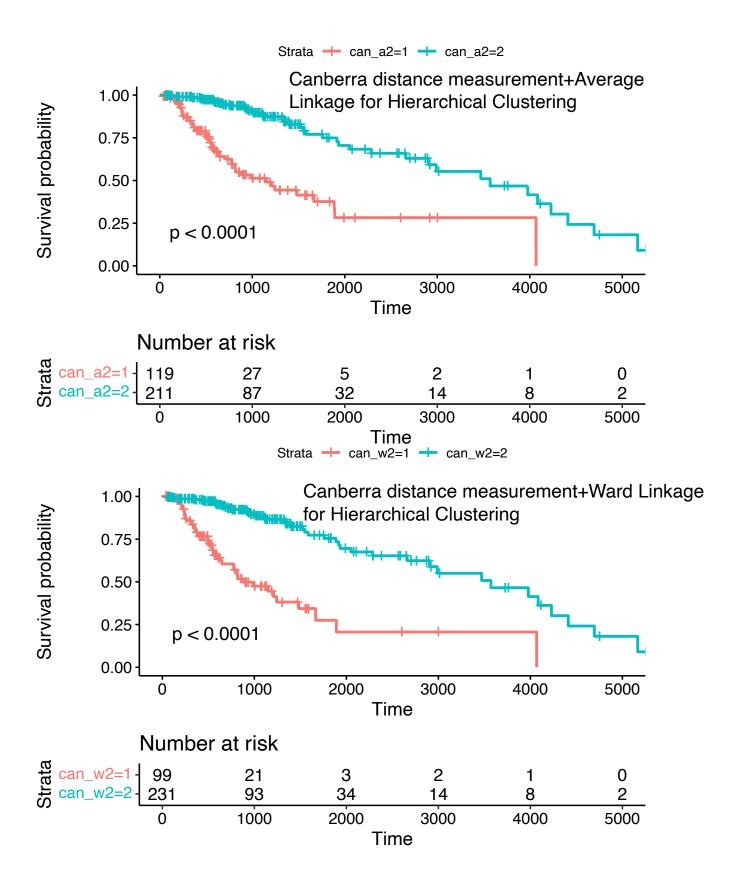


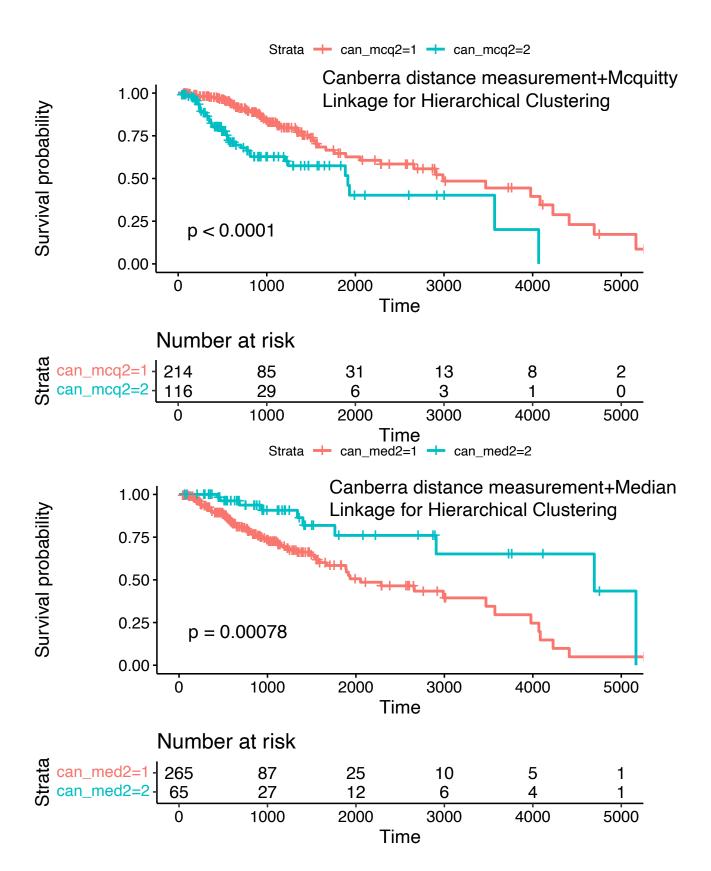


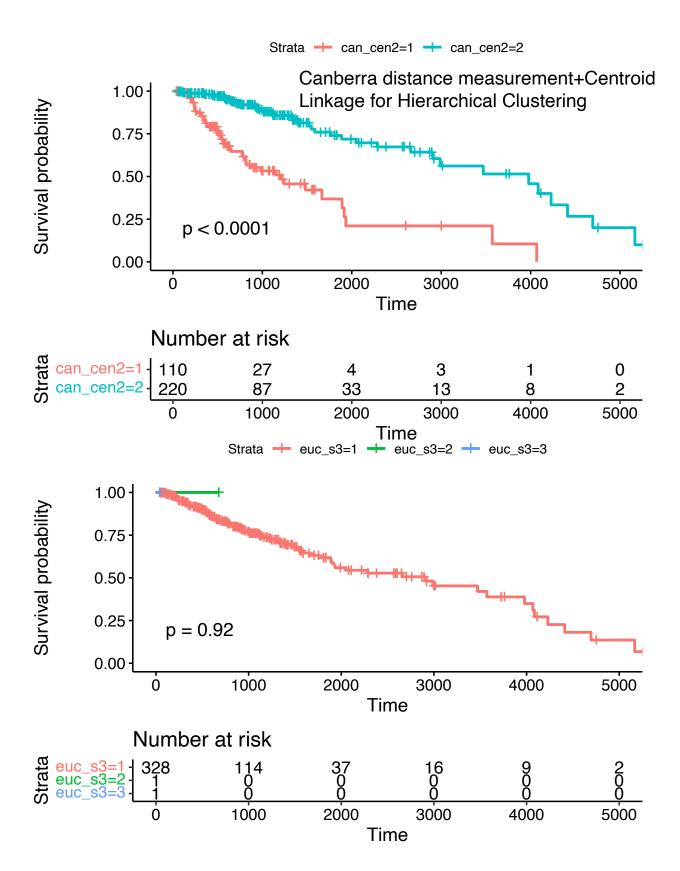


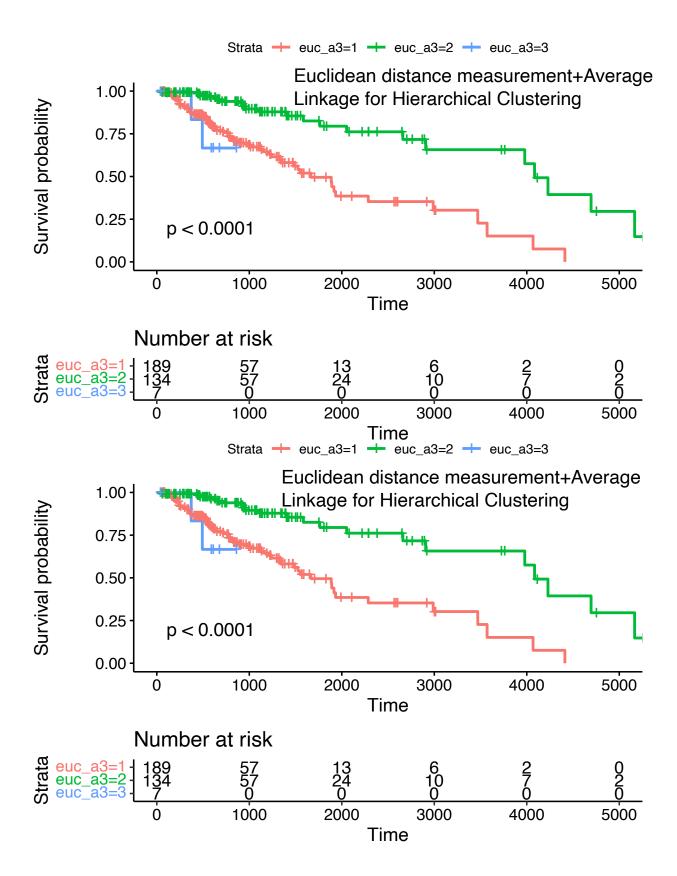


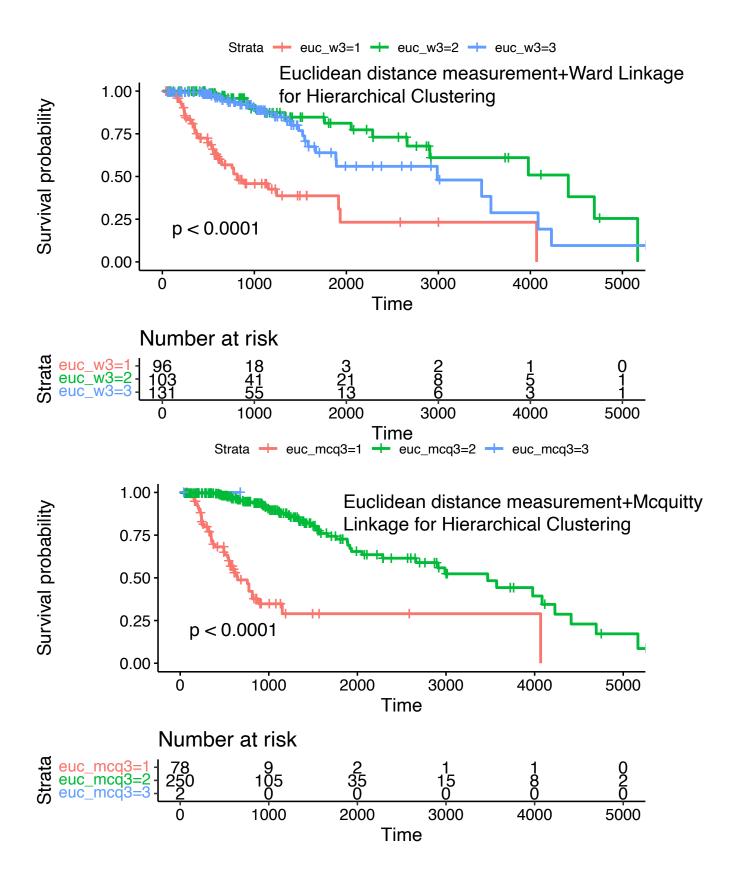


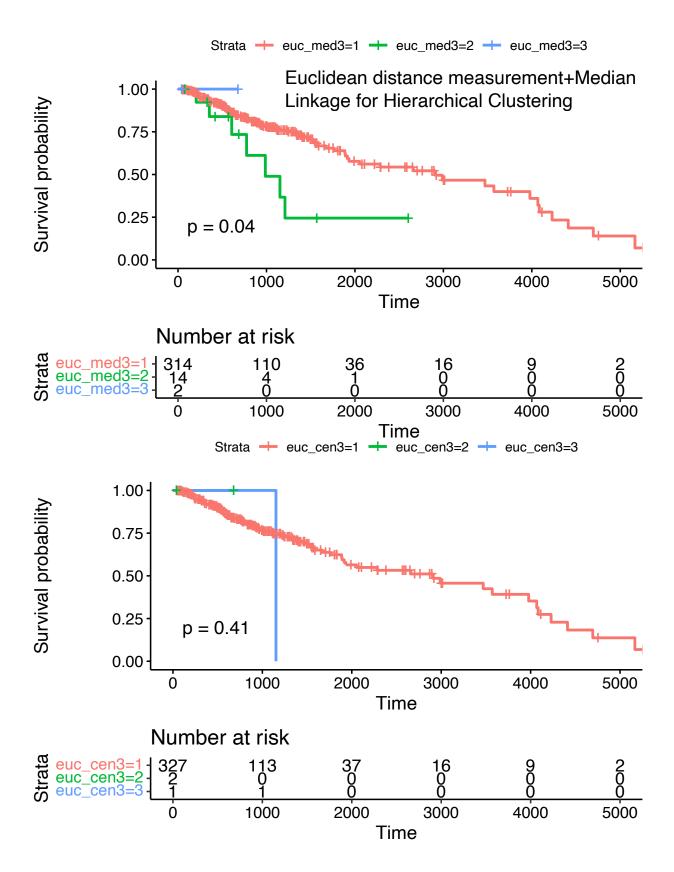


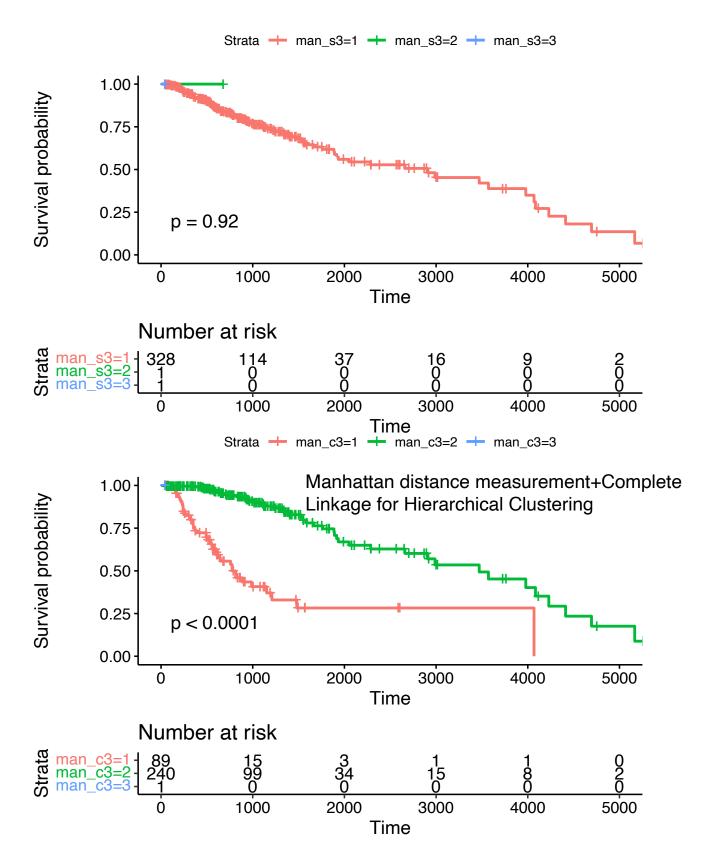


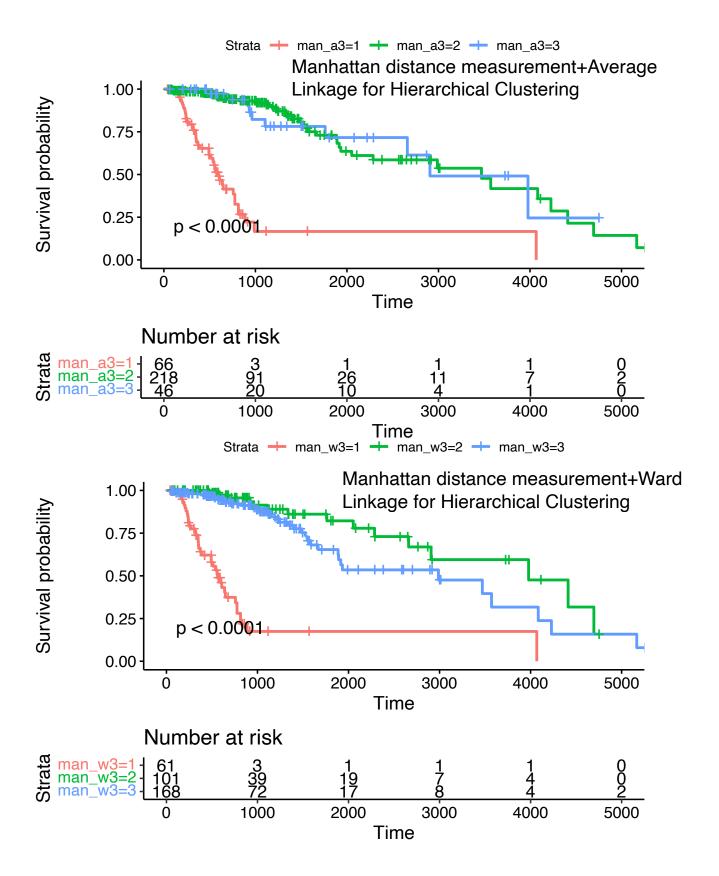


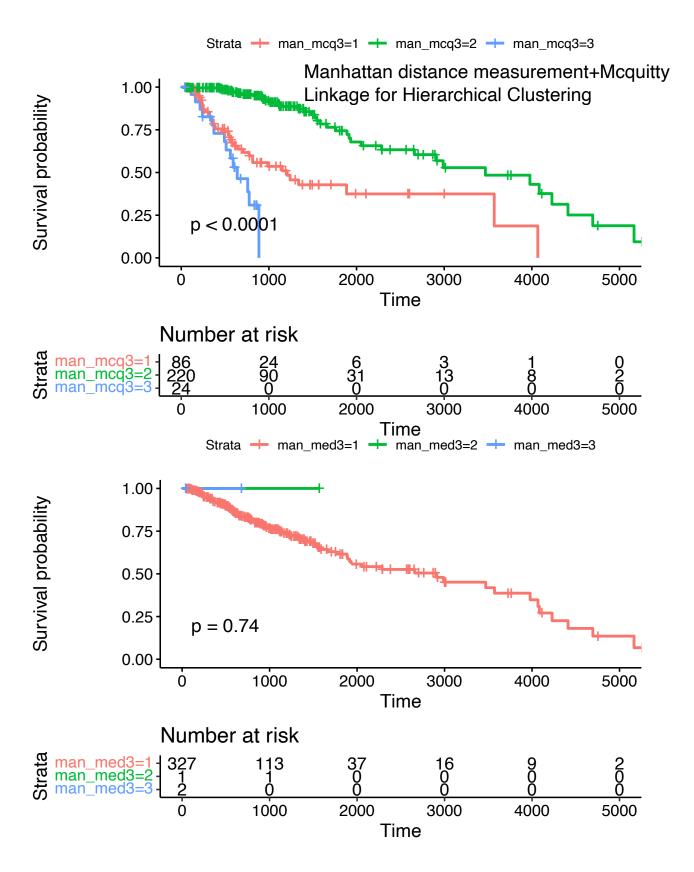


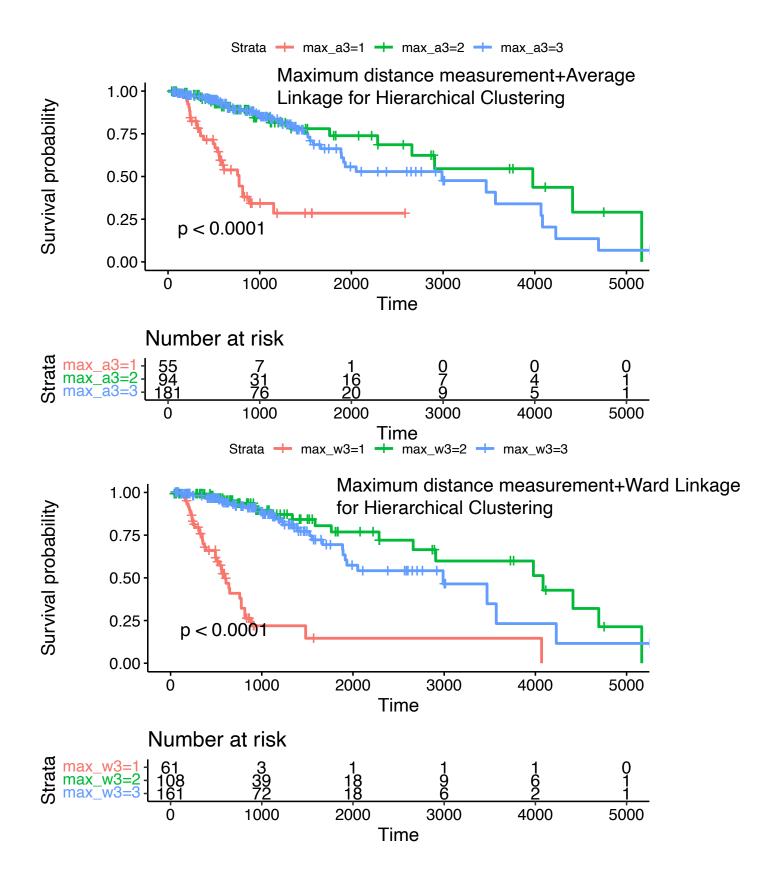


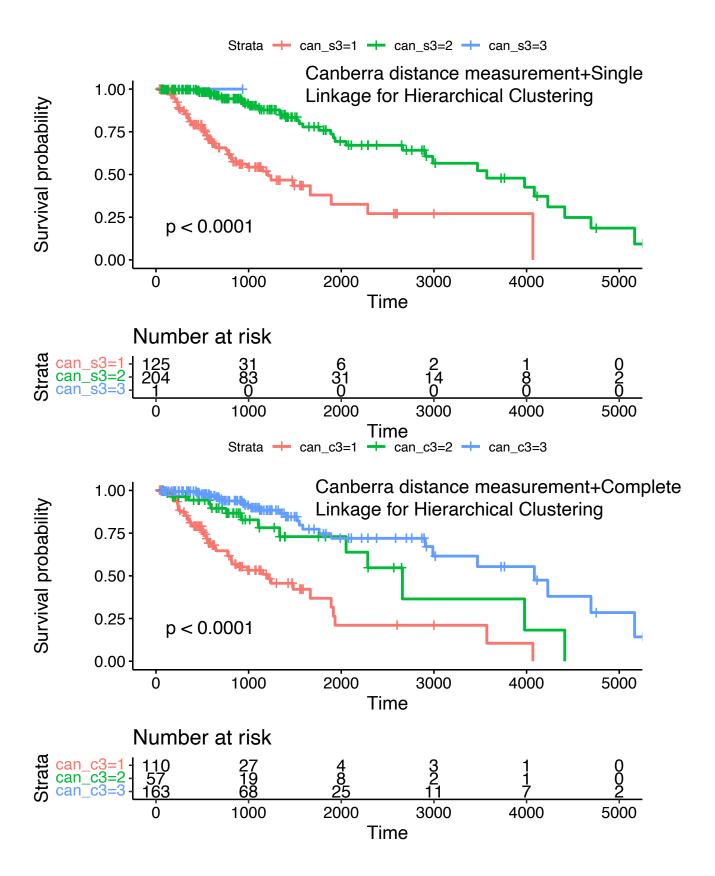


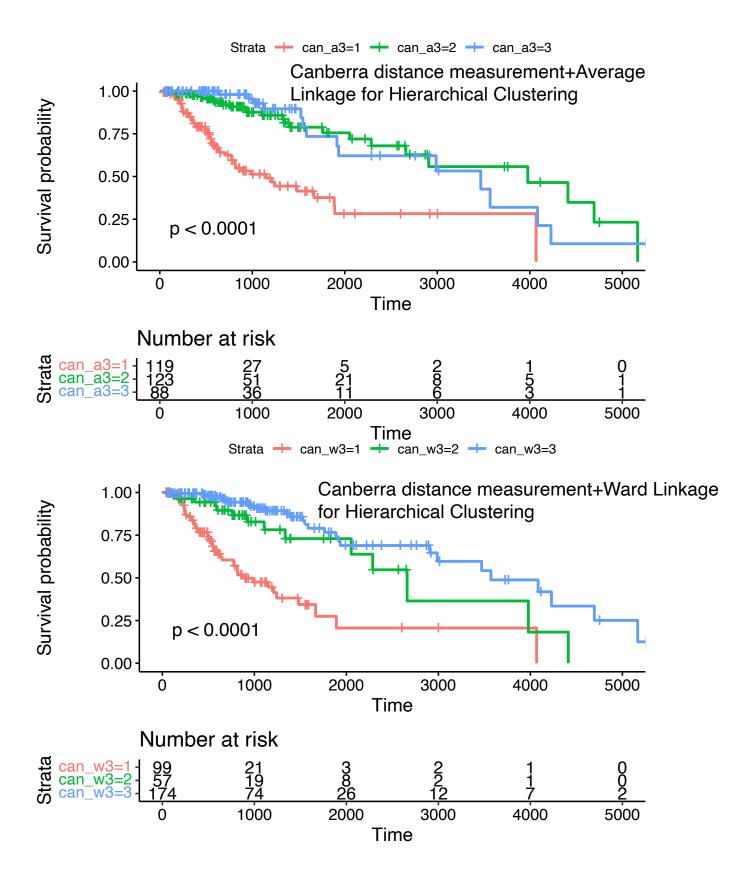


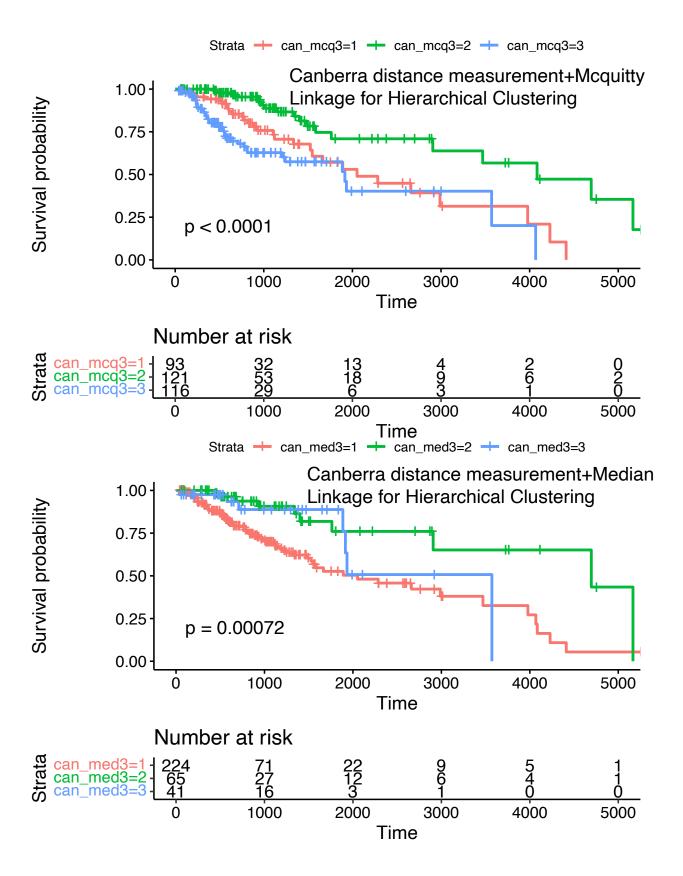


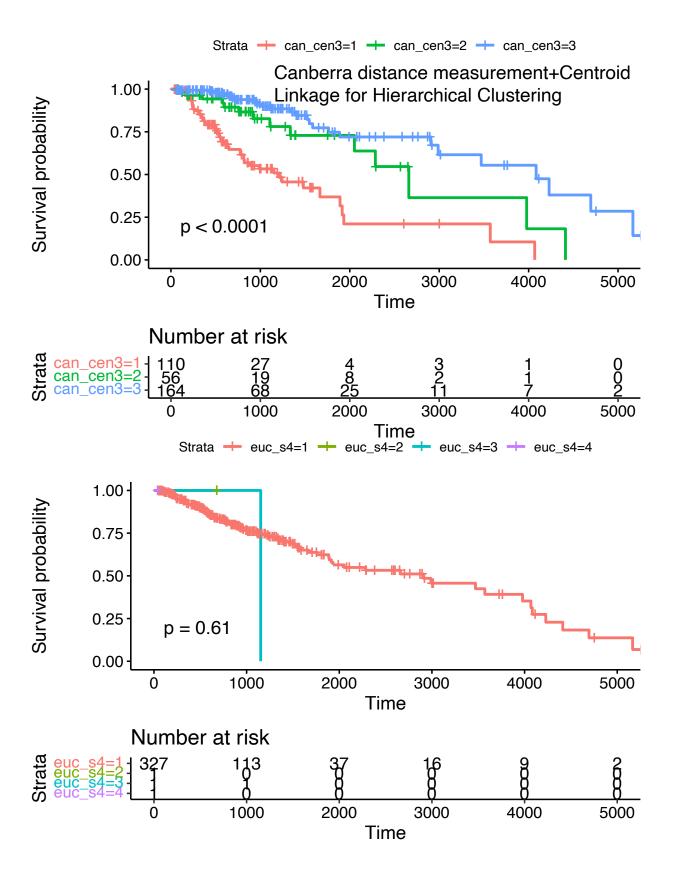


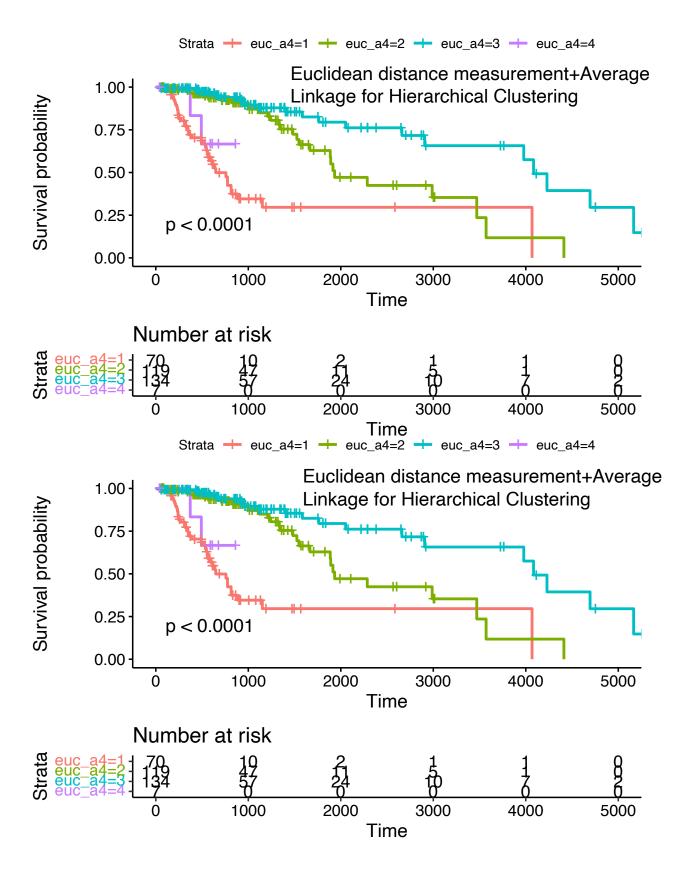


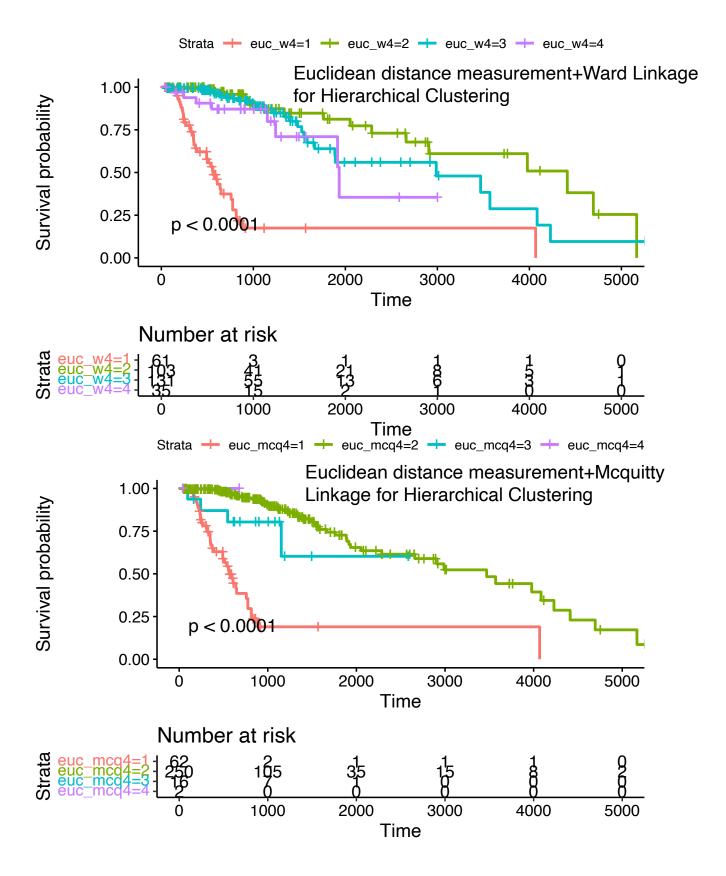


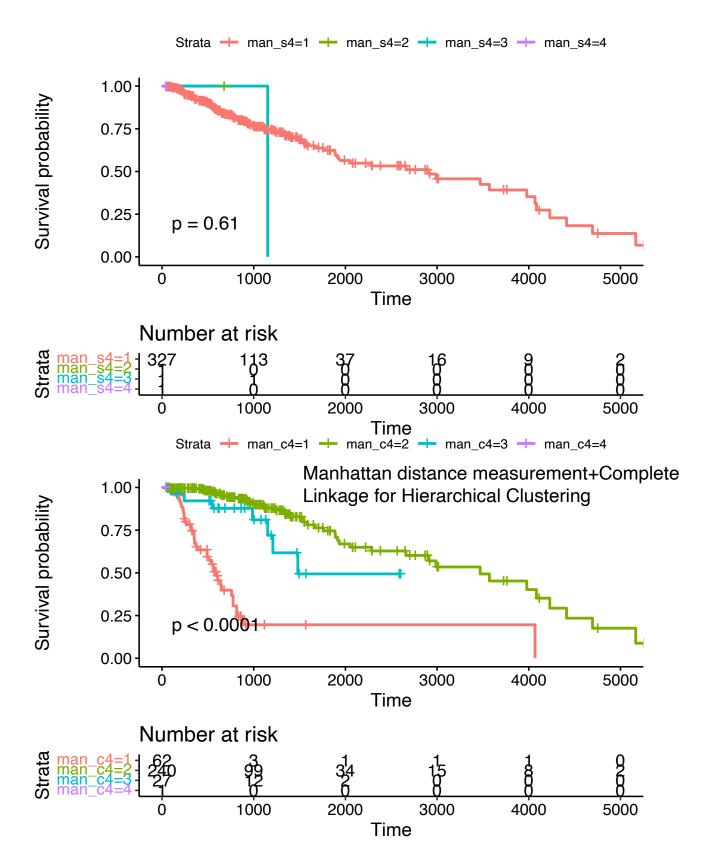


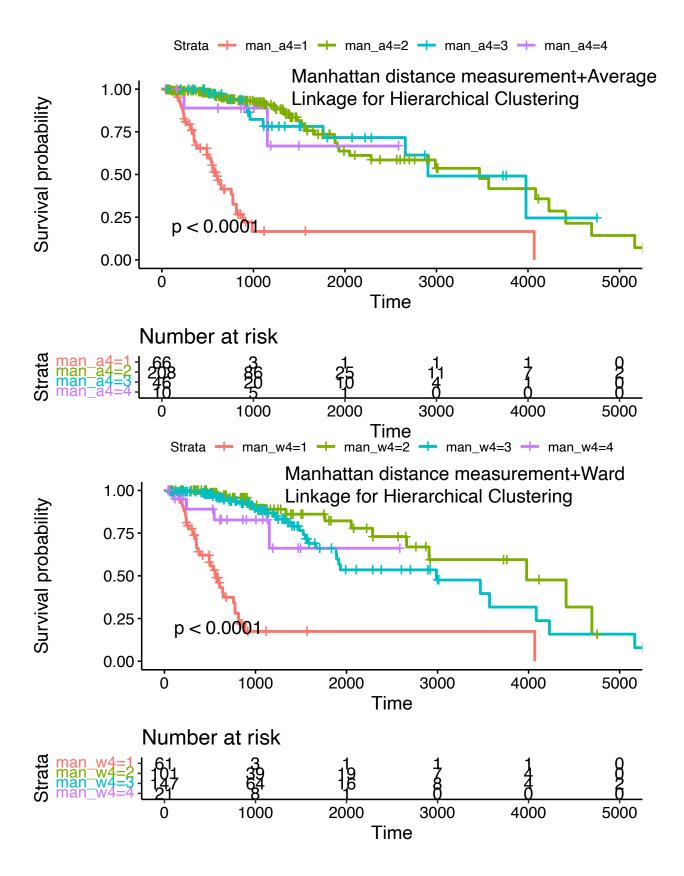


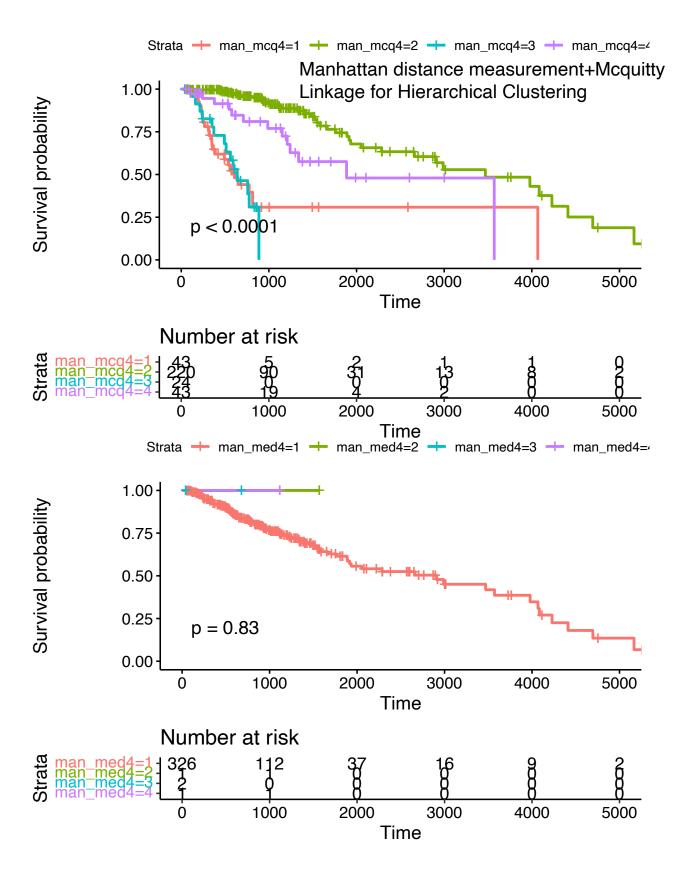


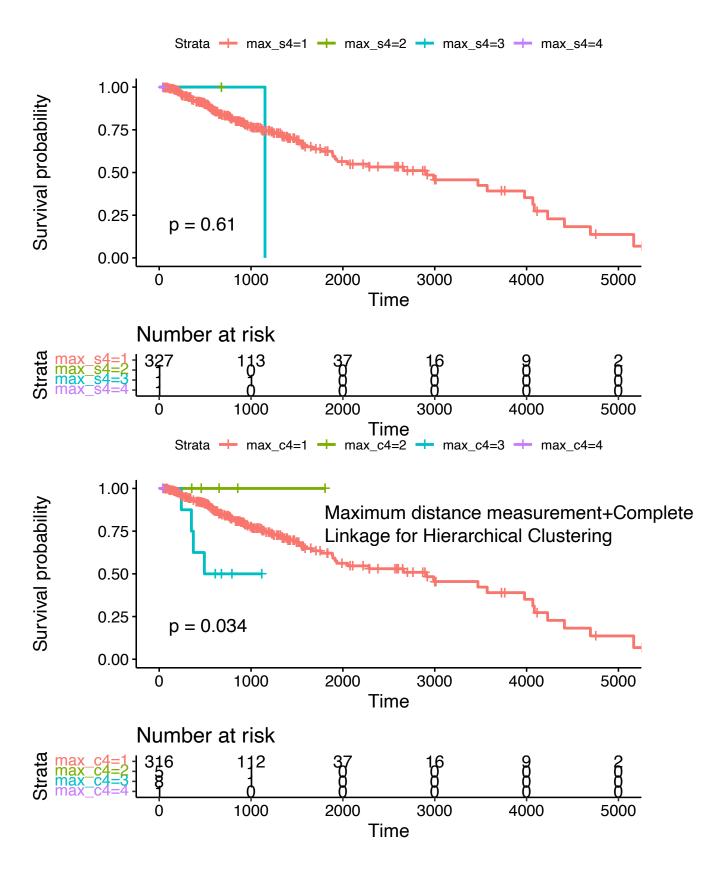


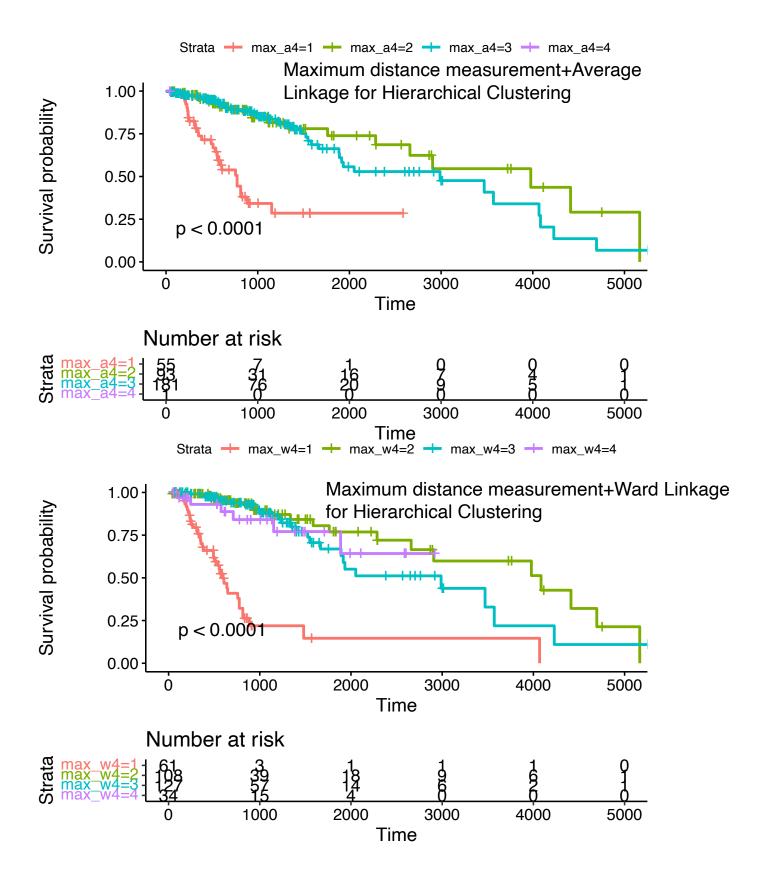


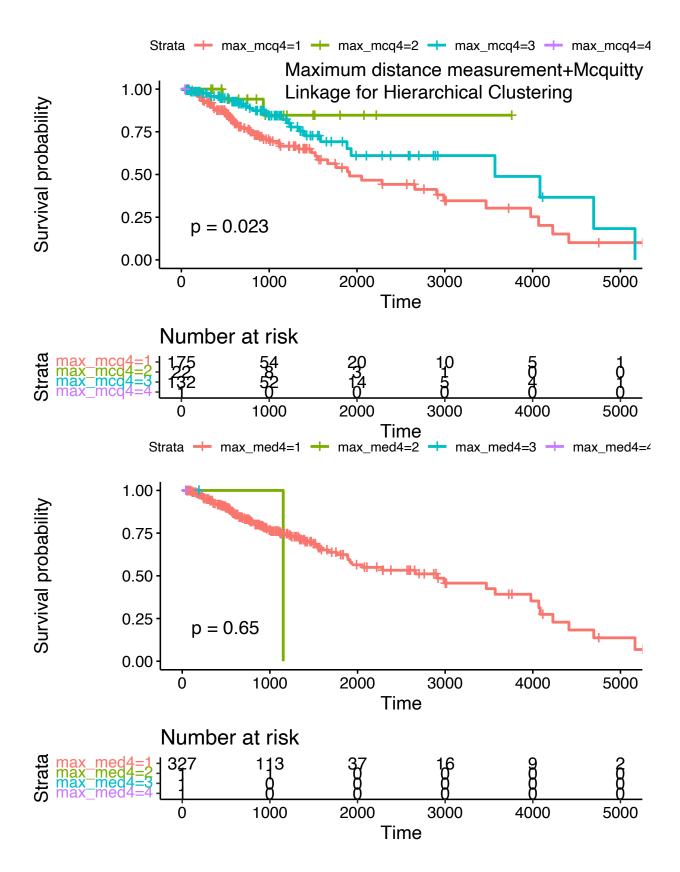


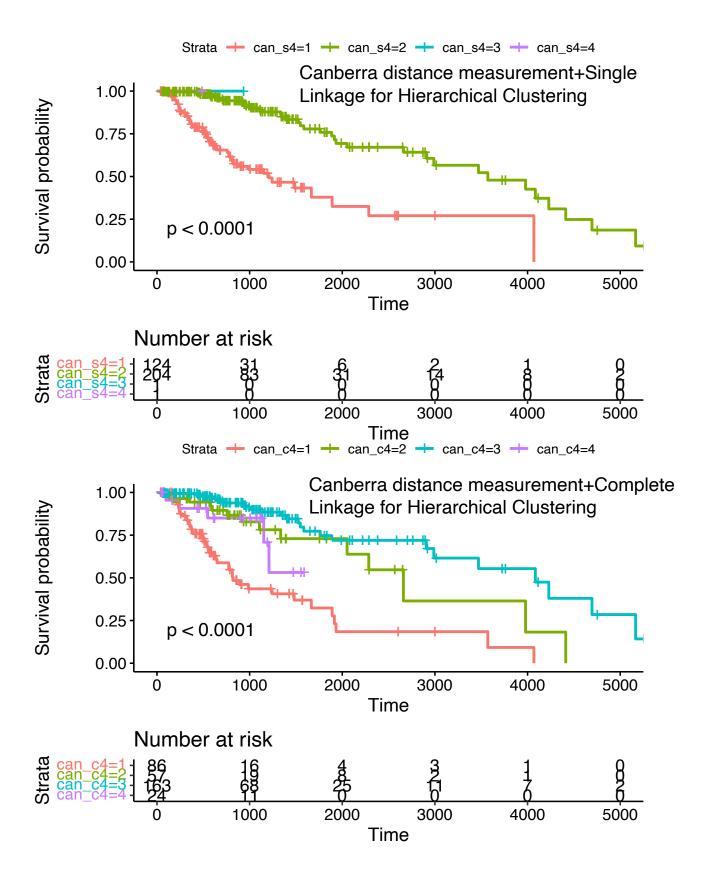


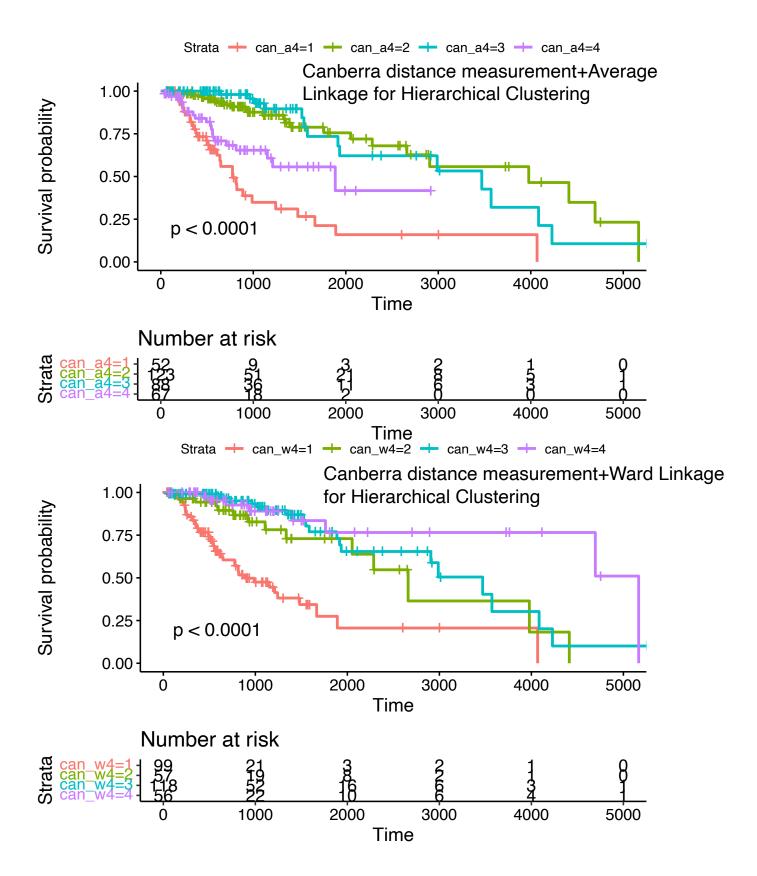


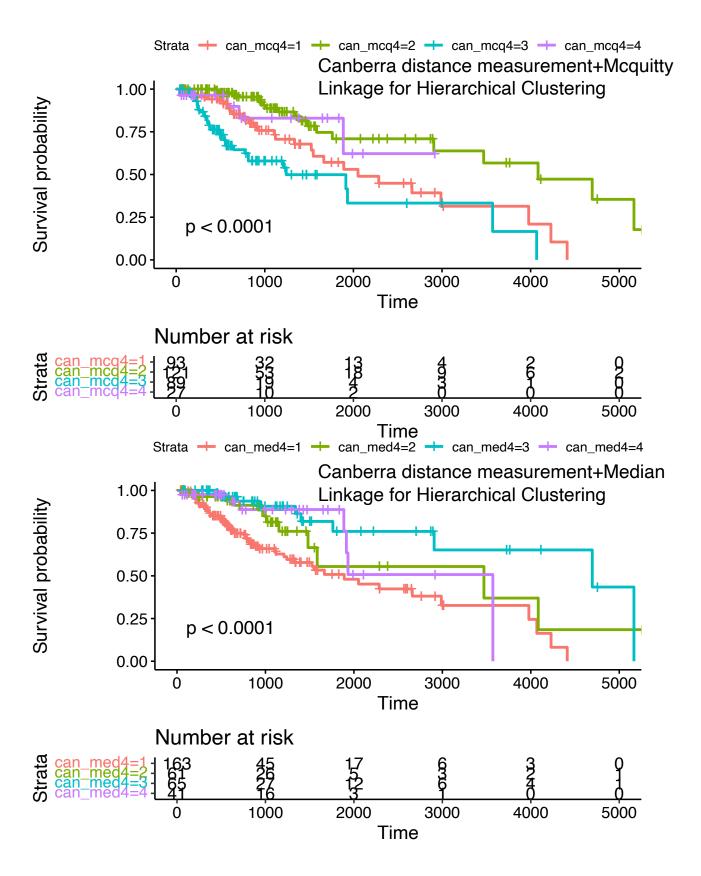


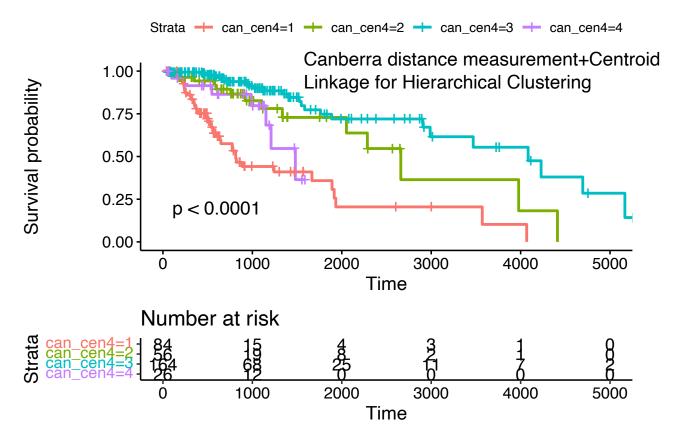






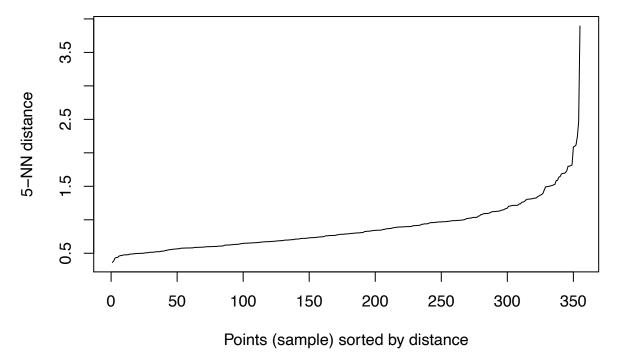






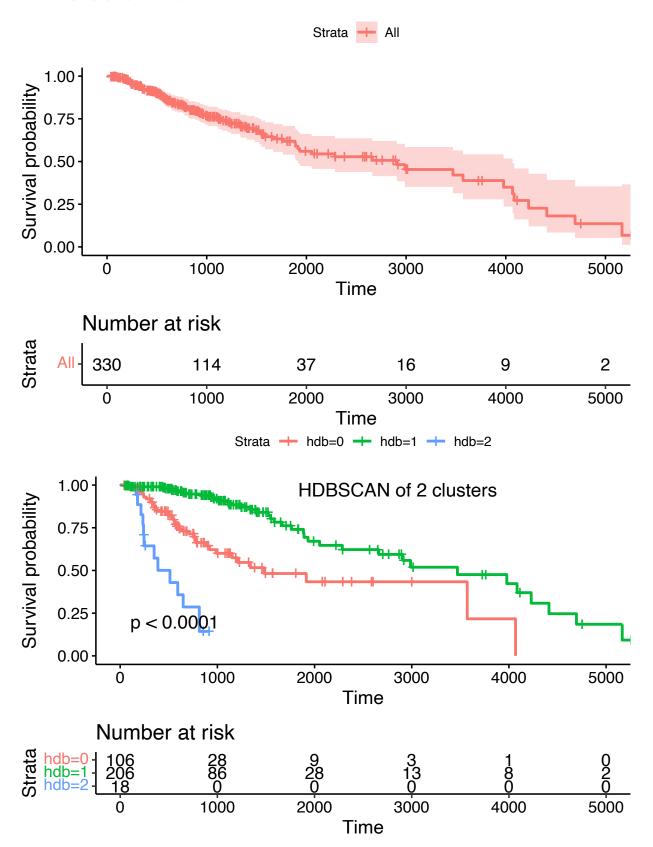
# 3. DBSCAN

## Warning: package 'dbscan' was built under R version 3.6.2



## Warning in dbscan(tucker1, eps = 16, MinPts = 20): converting argument MinPts
## (fpc) to minPts (dbscan)!

## Warning in .pvalue(fit, data = data, method = method, pval = pval, pval.coord = pval.coord, : There
## This is a null model.



### 4. EM algorithm based on GMM

## Warning: package 'mclust' was built under R version 3.6.2

