

cp decomposition glioma 73 train rank5 test

VIVI TANG

17/11/2021

1. Kmeans

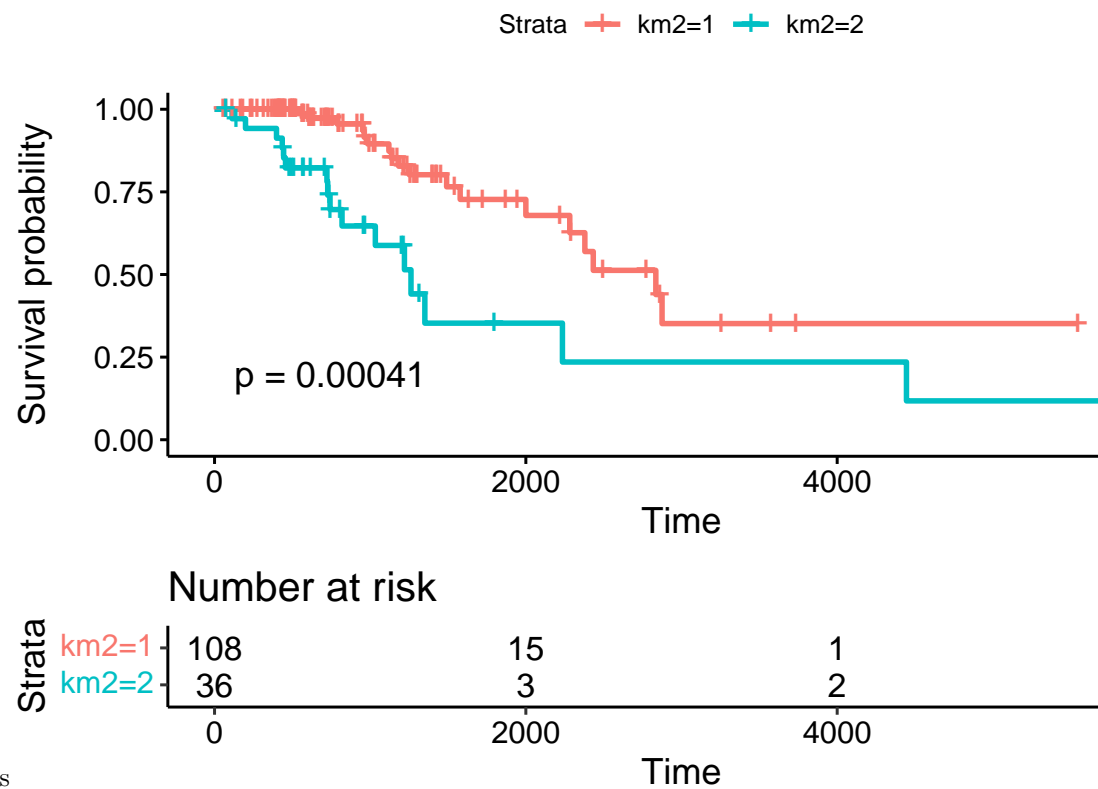
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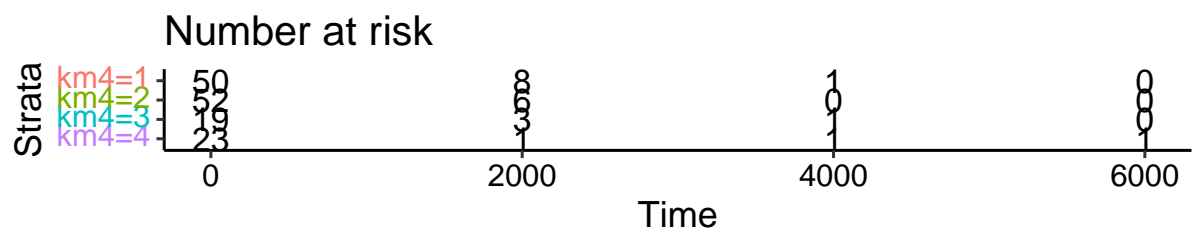
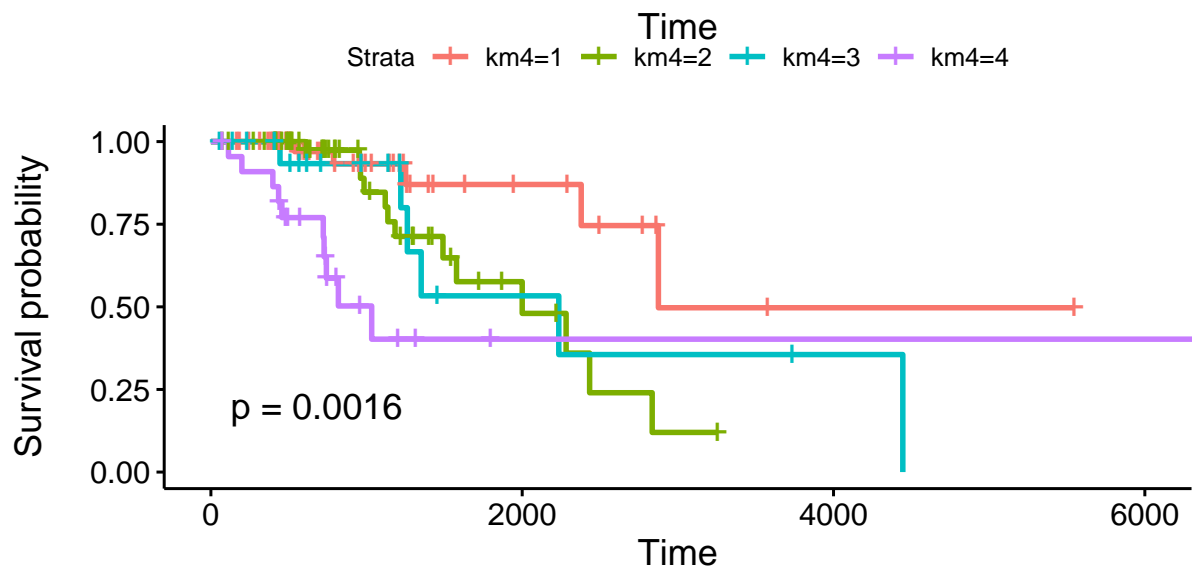
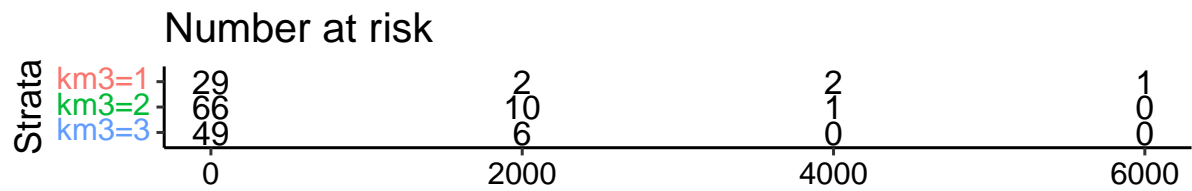
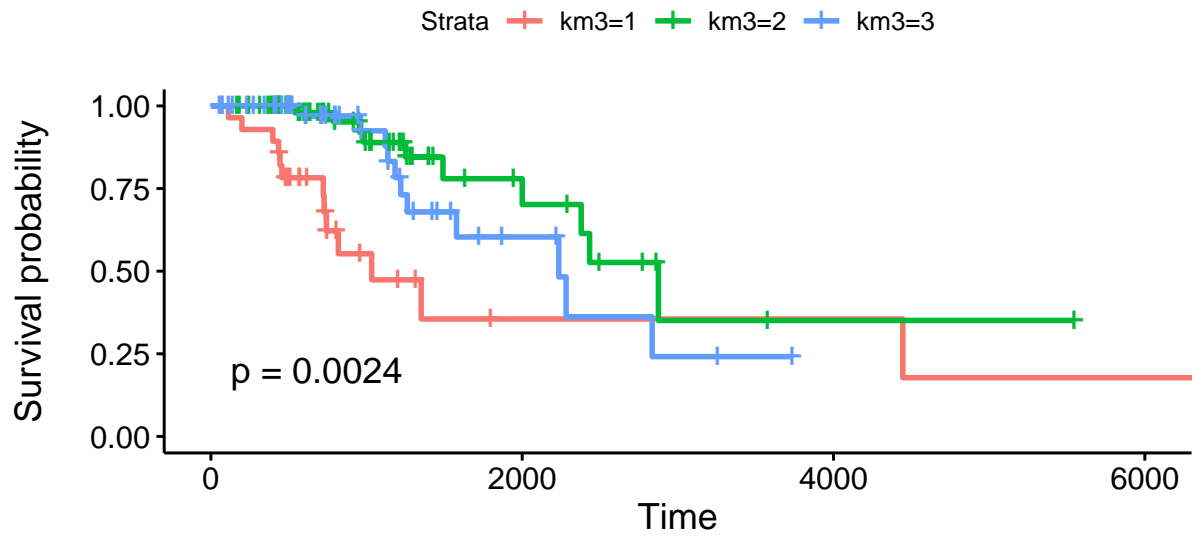
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## Warning: package 'survminer' was built under R version 3.6.2
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## Warning: package 'ggplot2' was built under R version 3.6.2
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## Warning: package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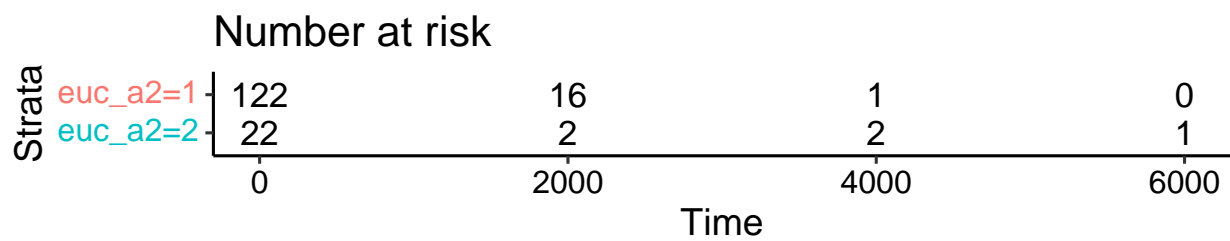
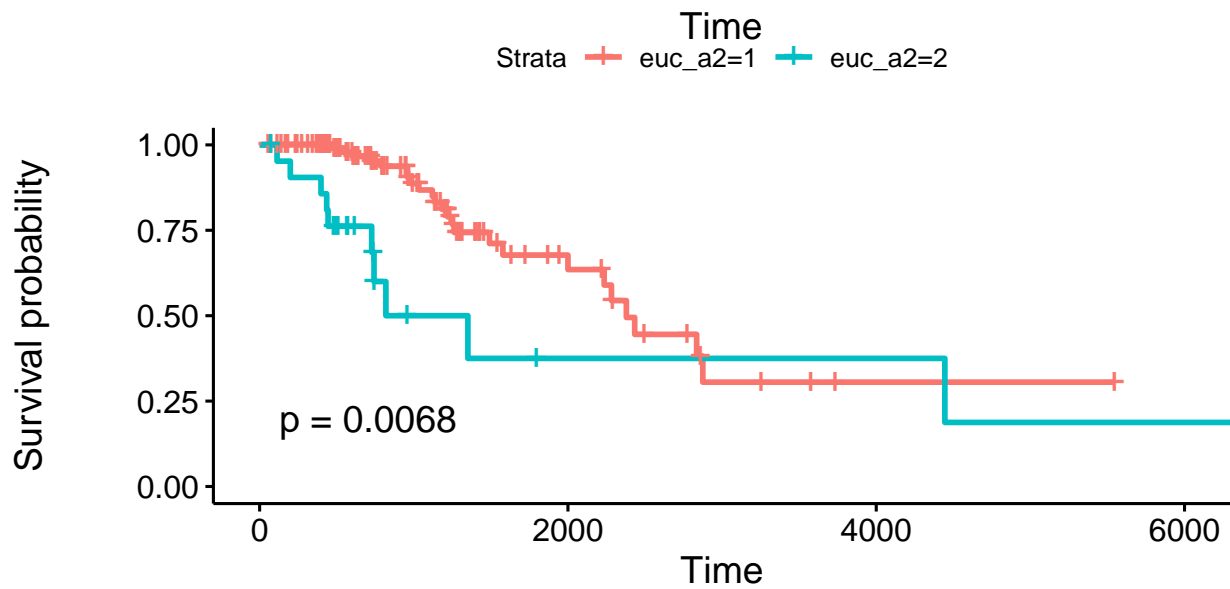
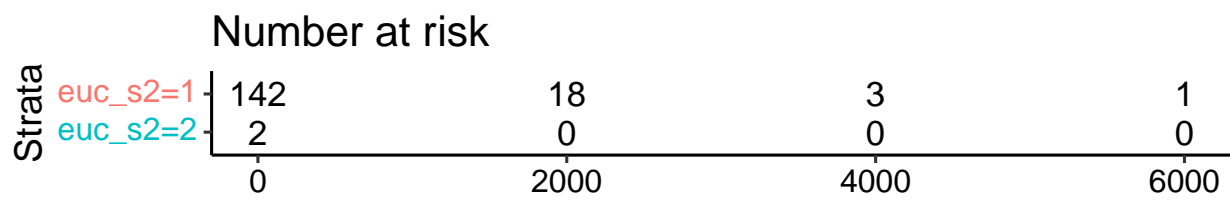
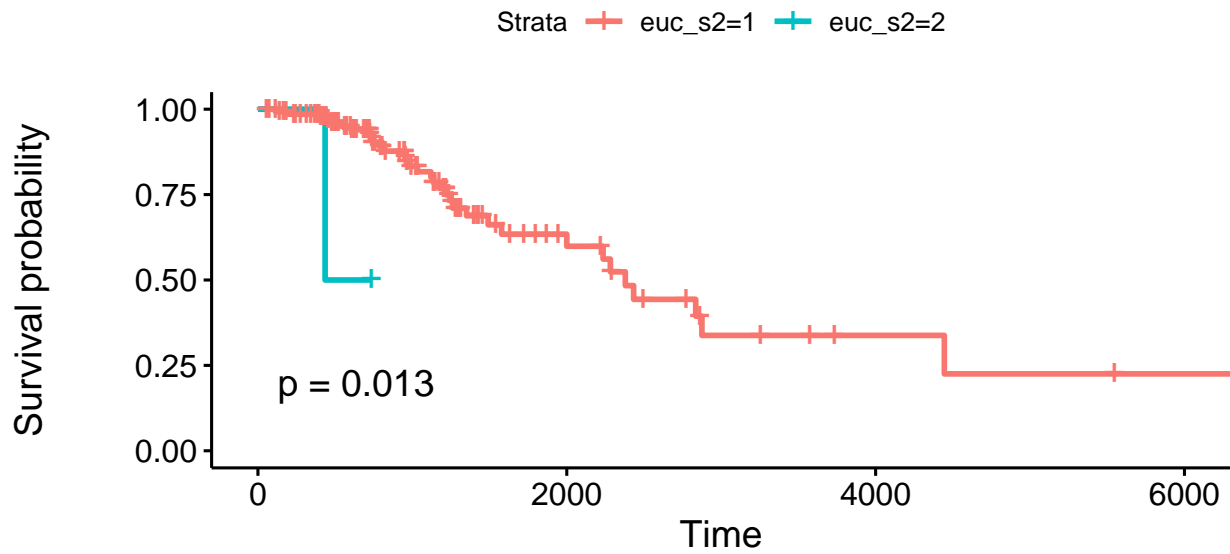


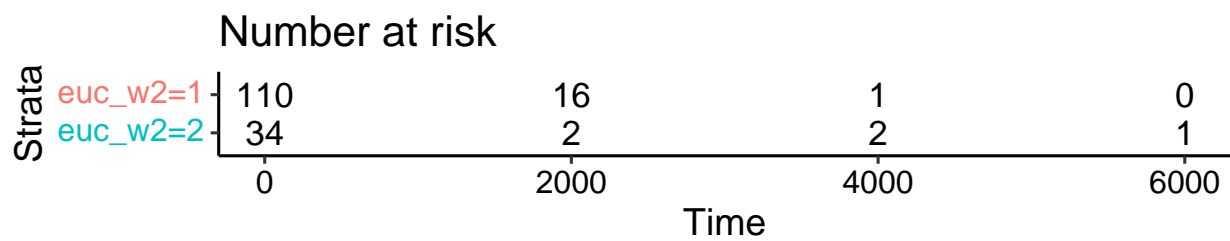
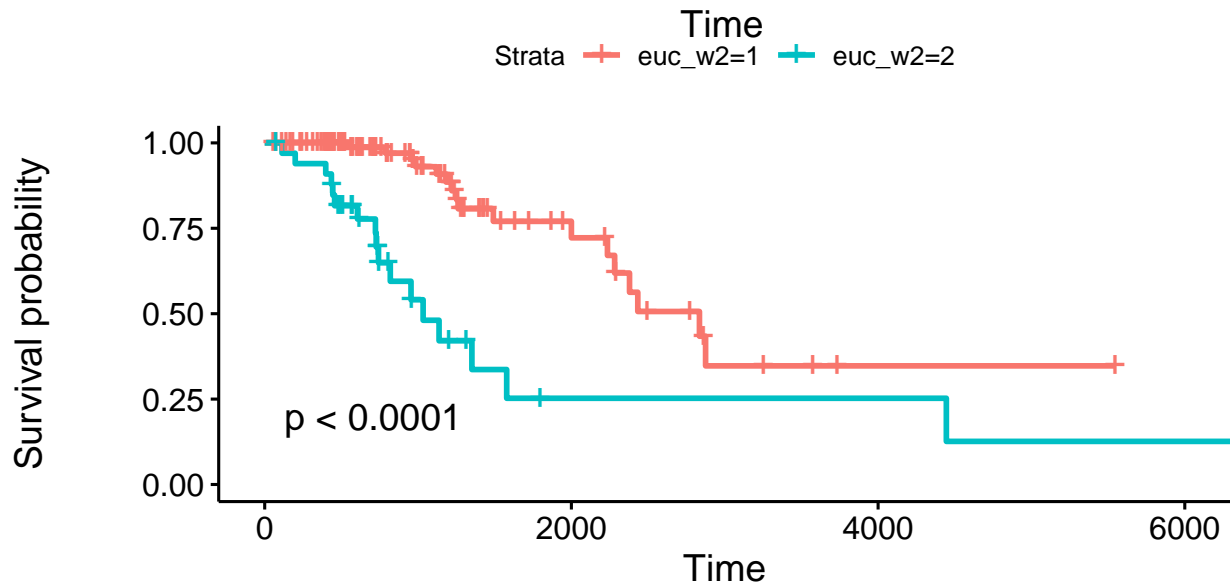
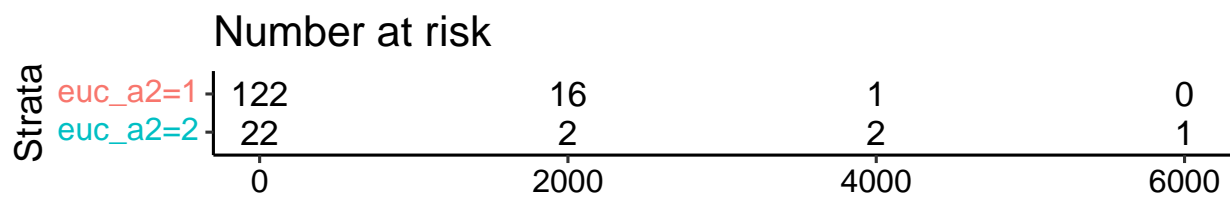
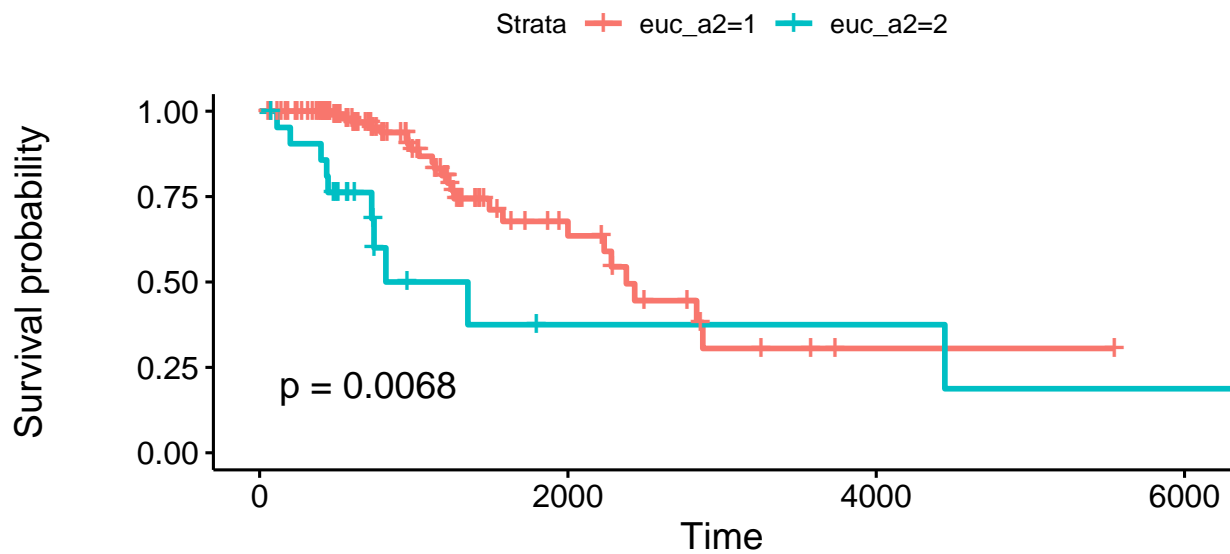
3. Fit the results of Kmeans

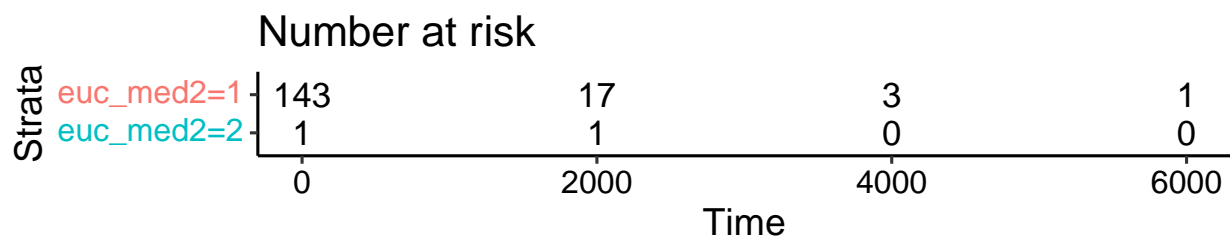
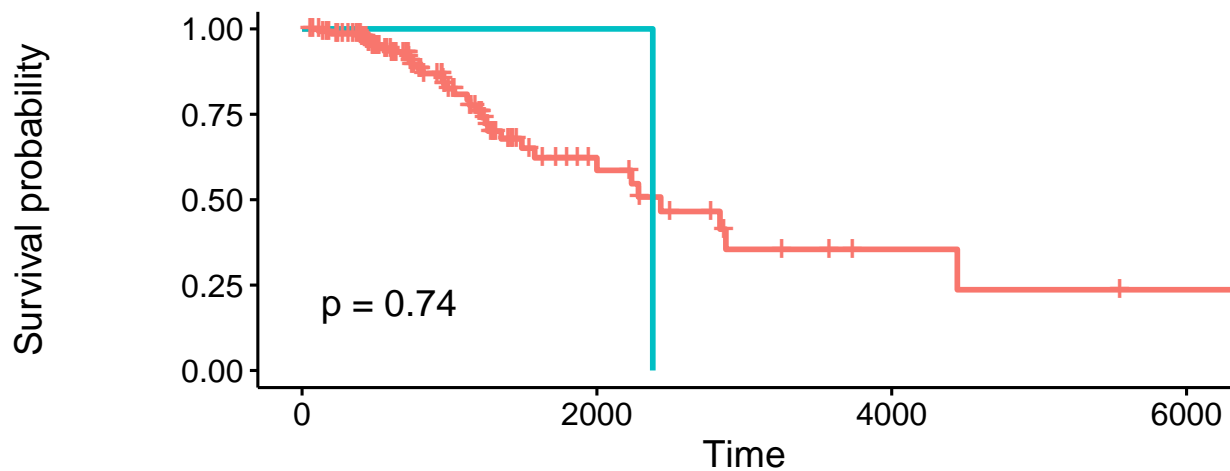
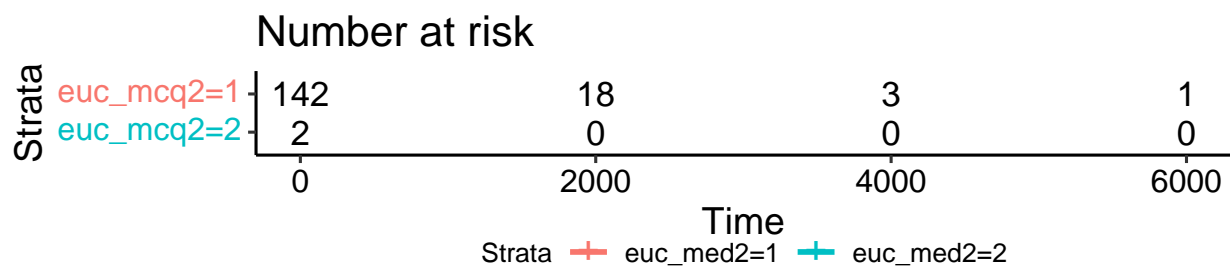
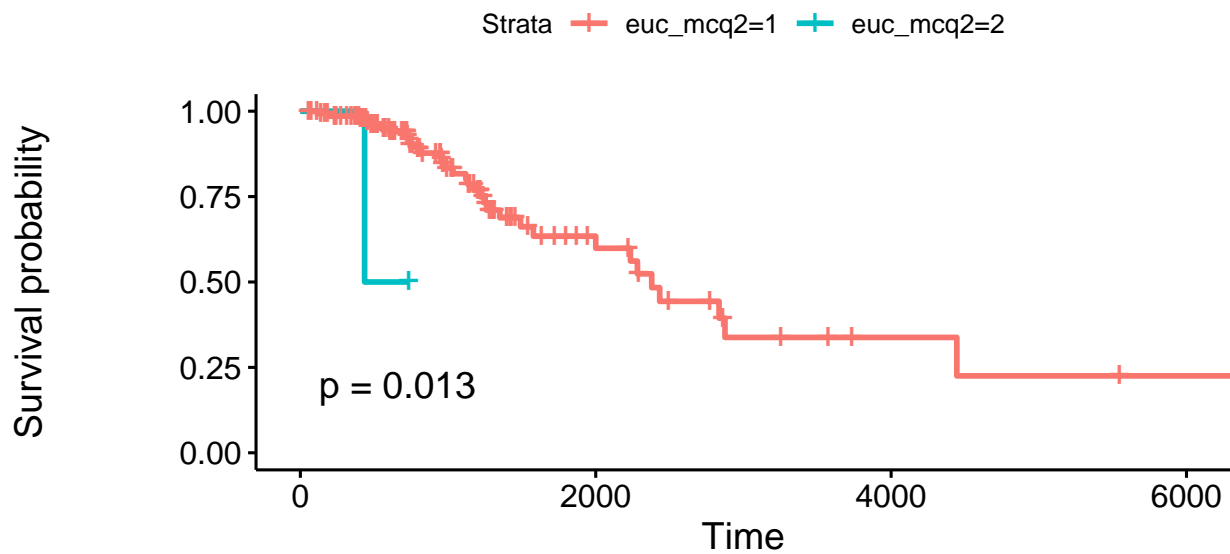


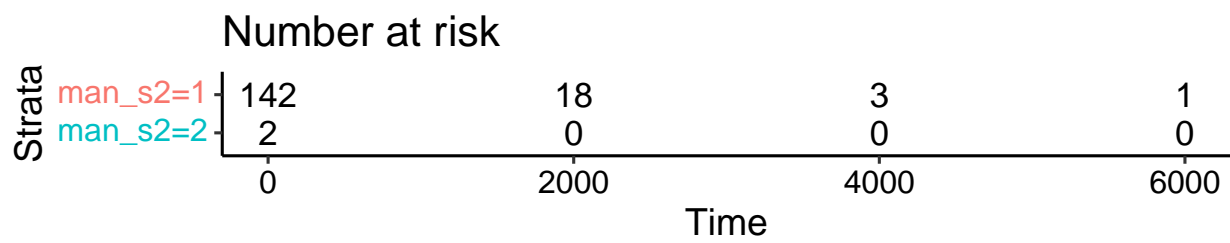
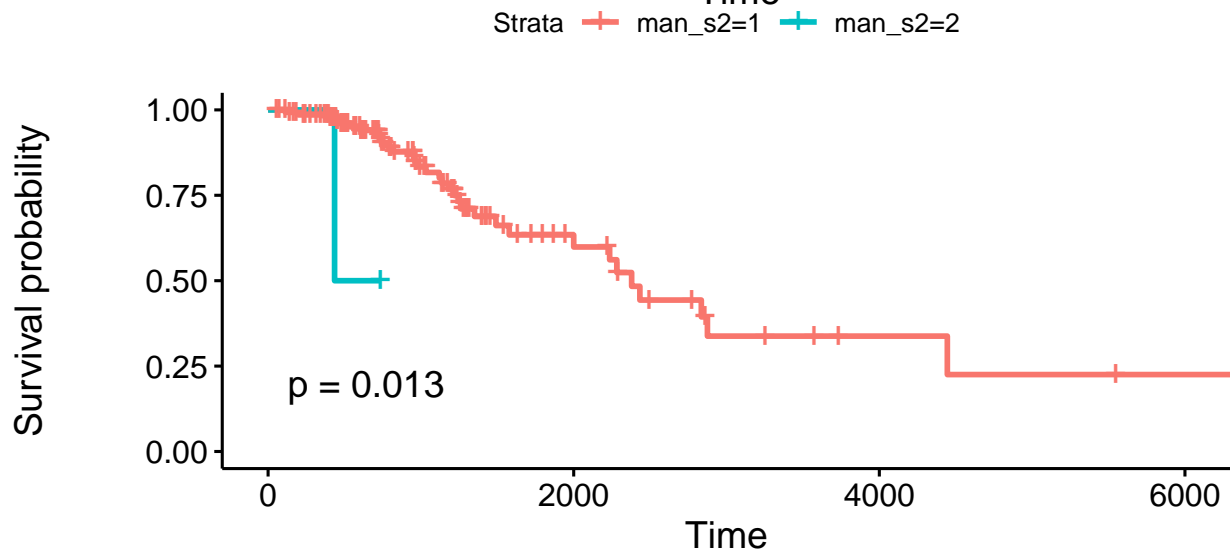
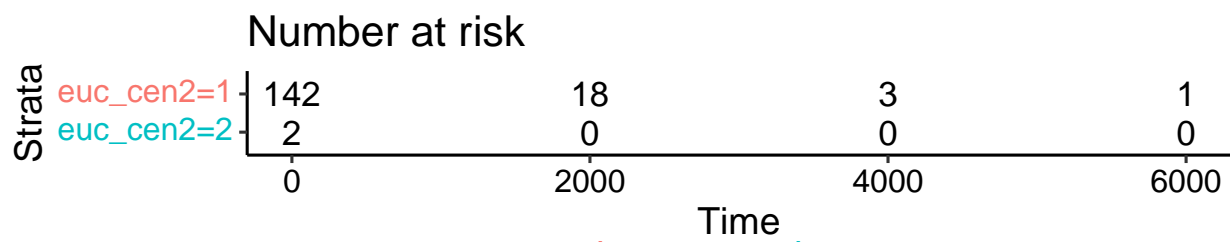
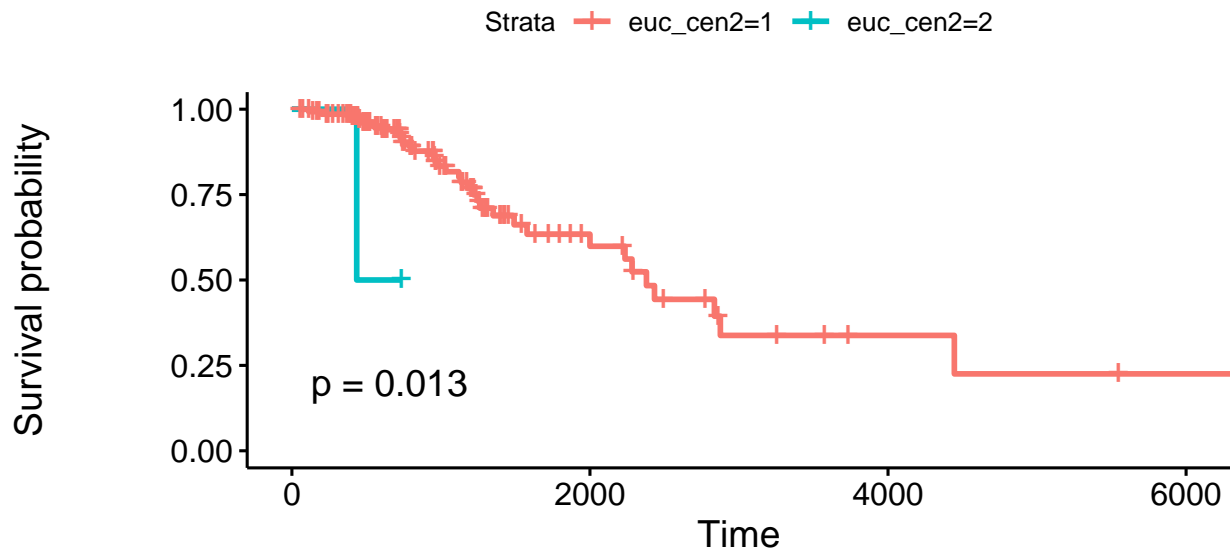
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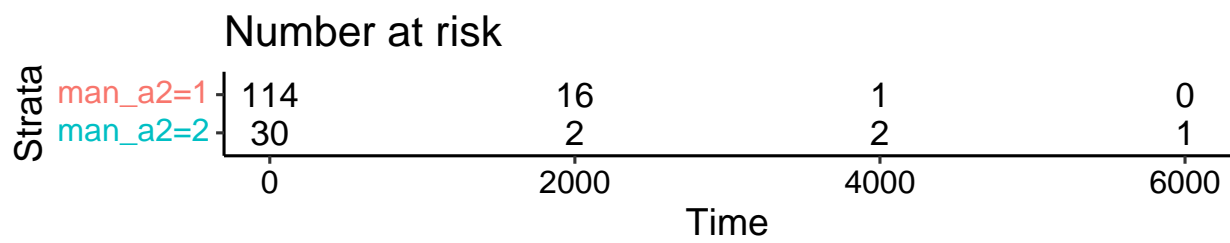
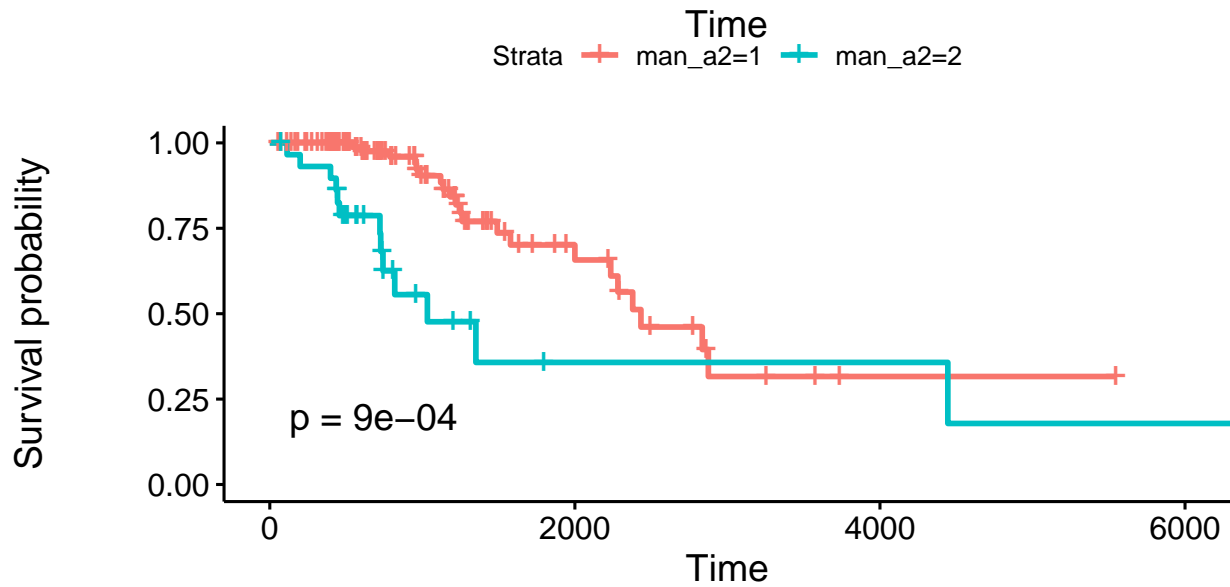
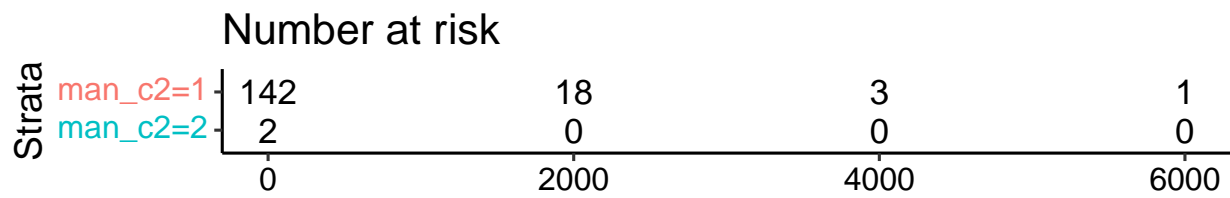
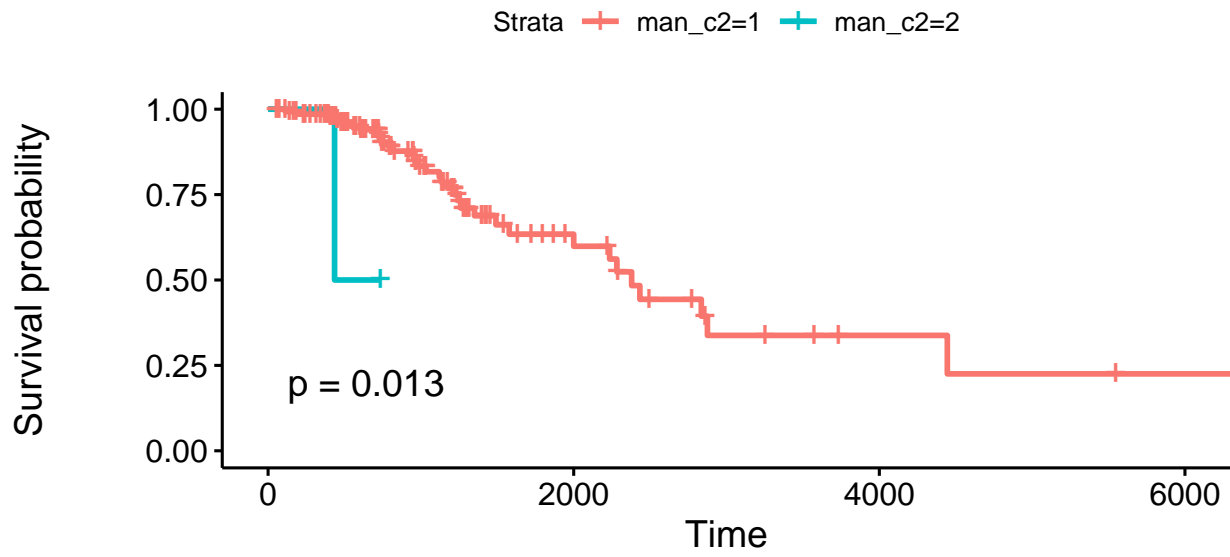
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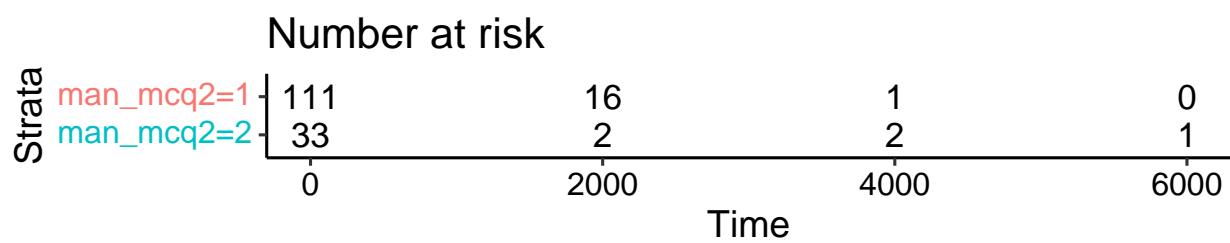
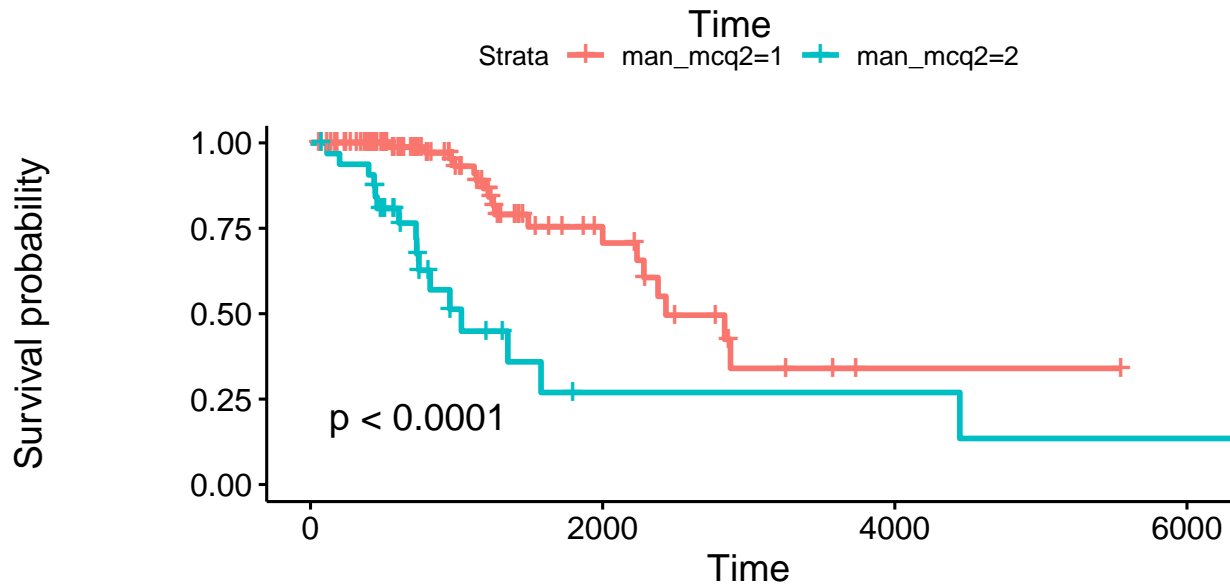
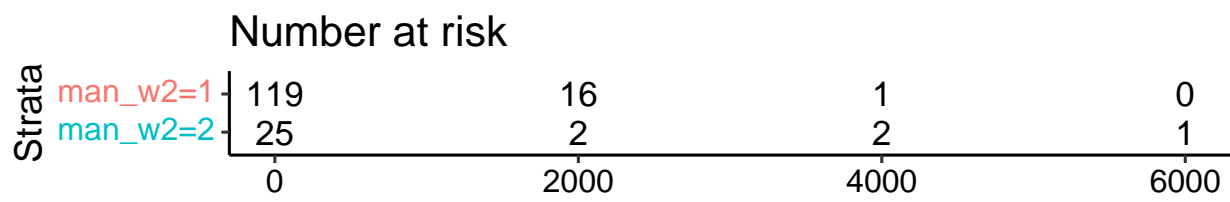
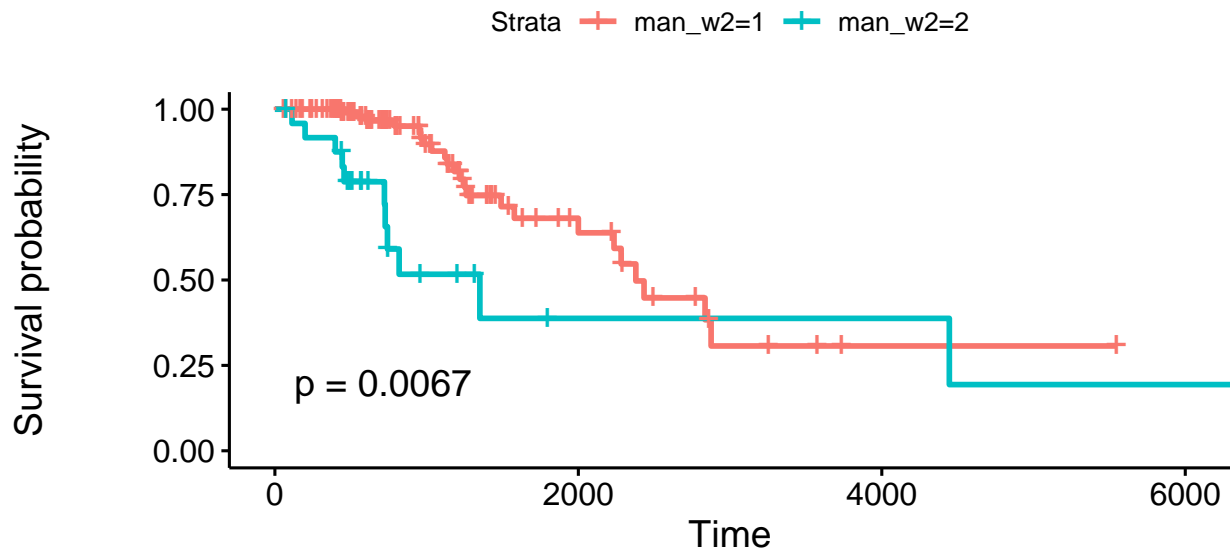


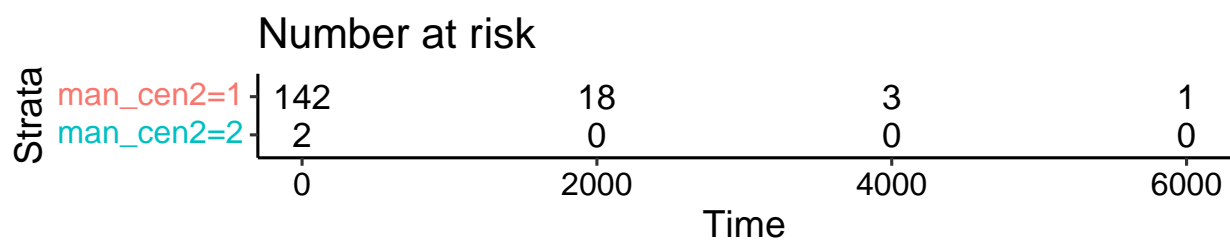
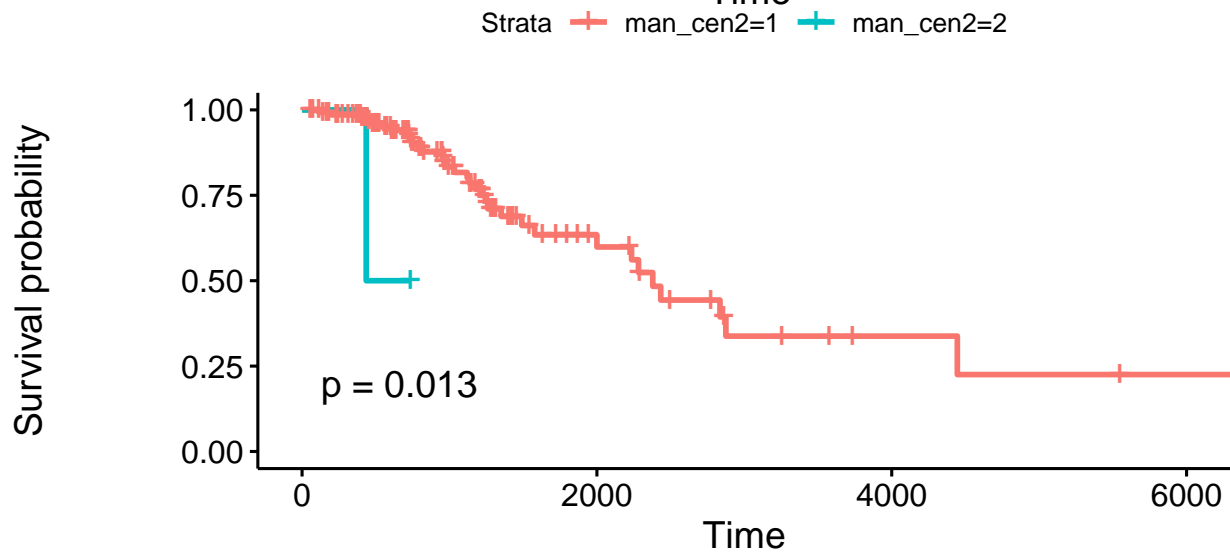
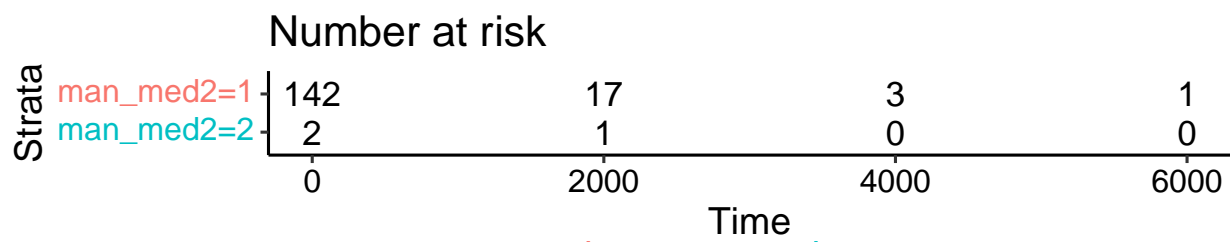
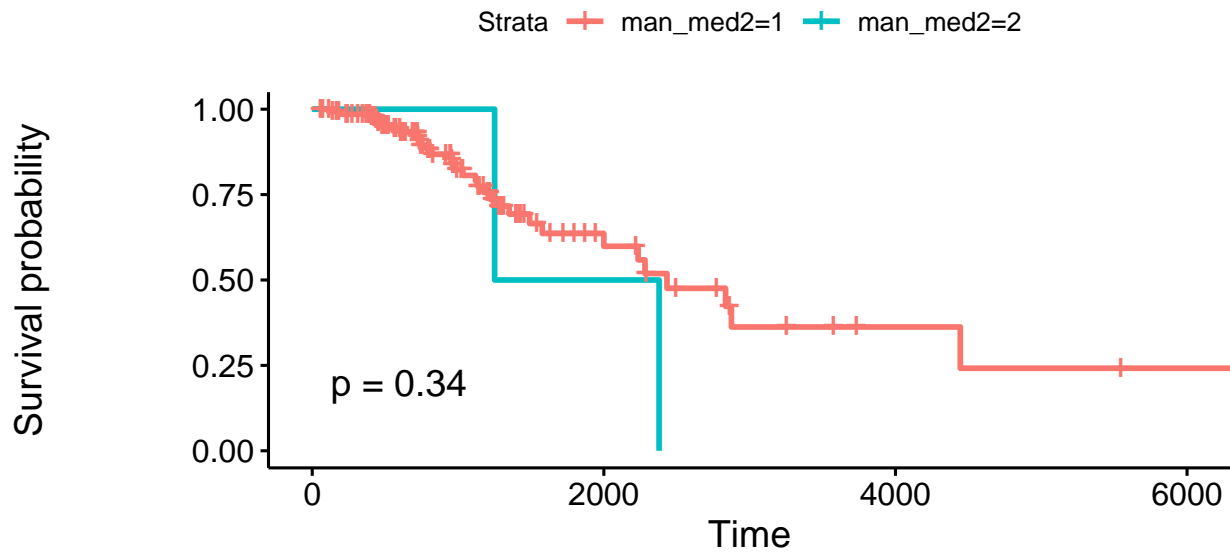


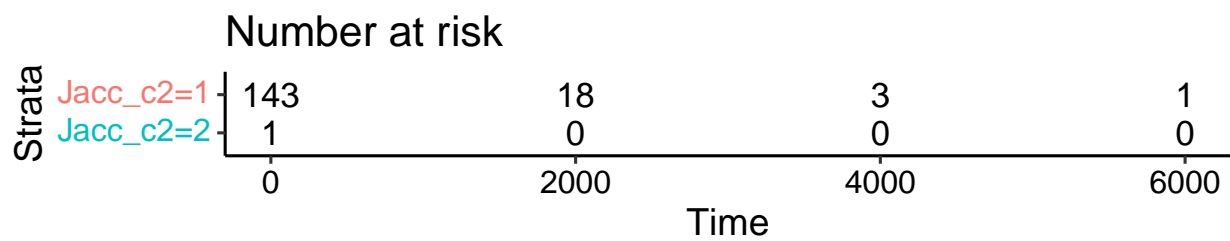
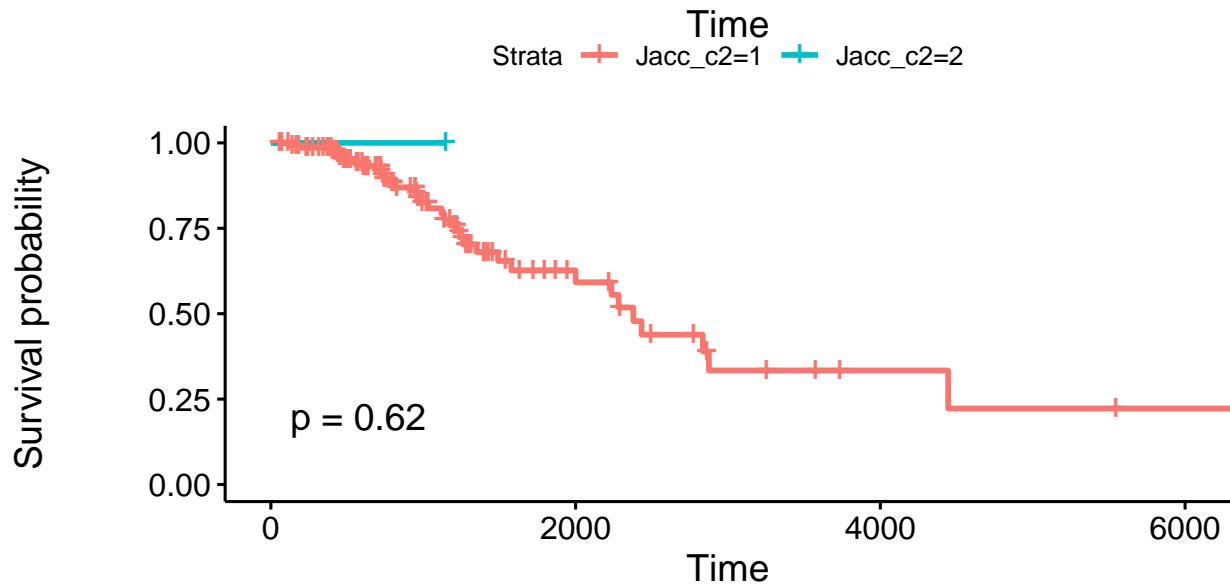
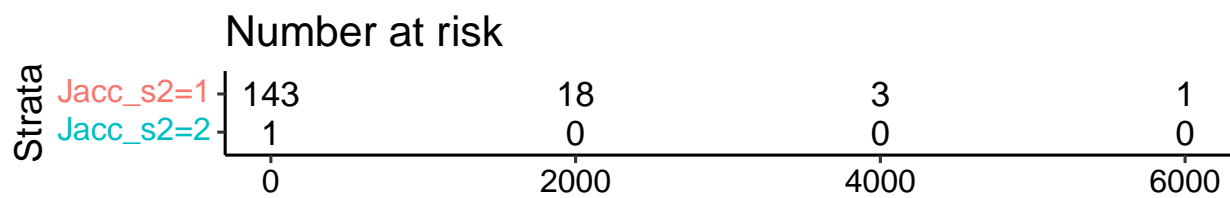
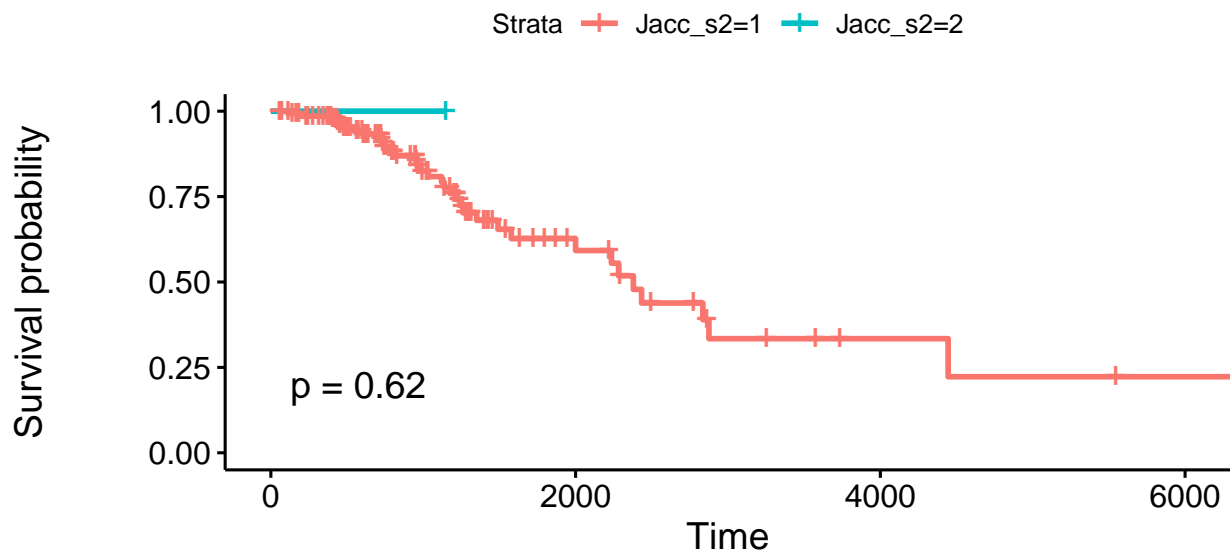


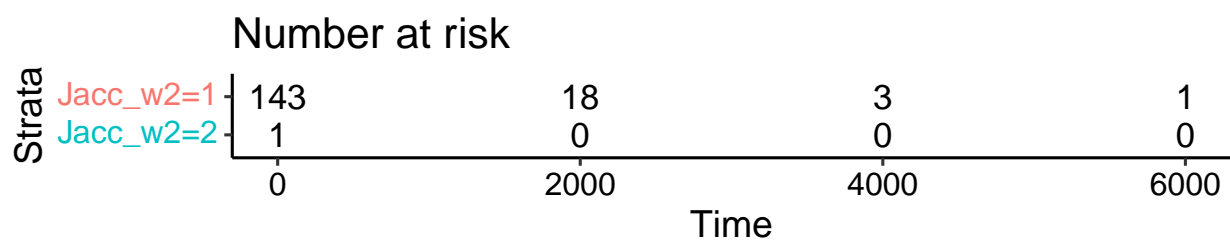
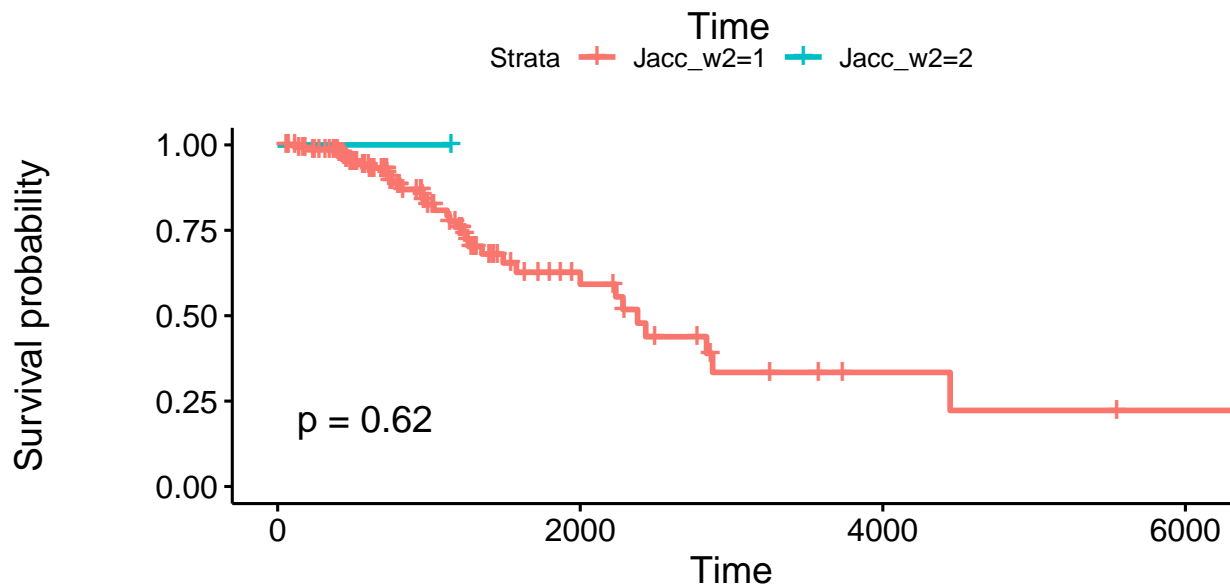
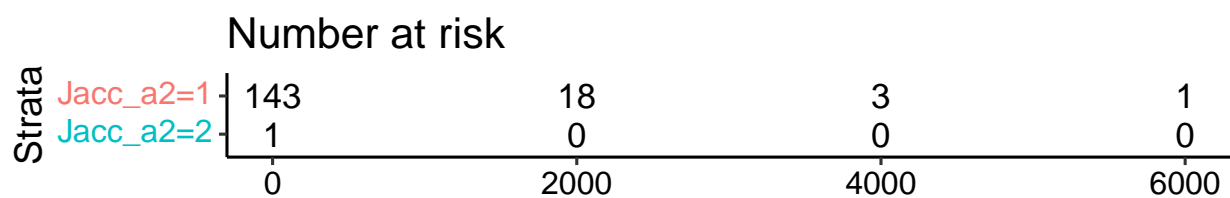
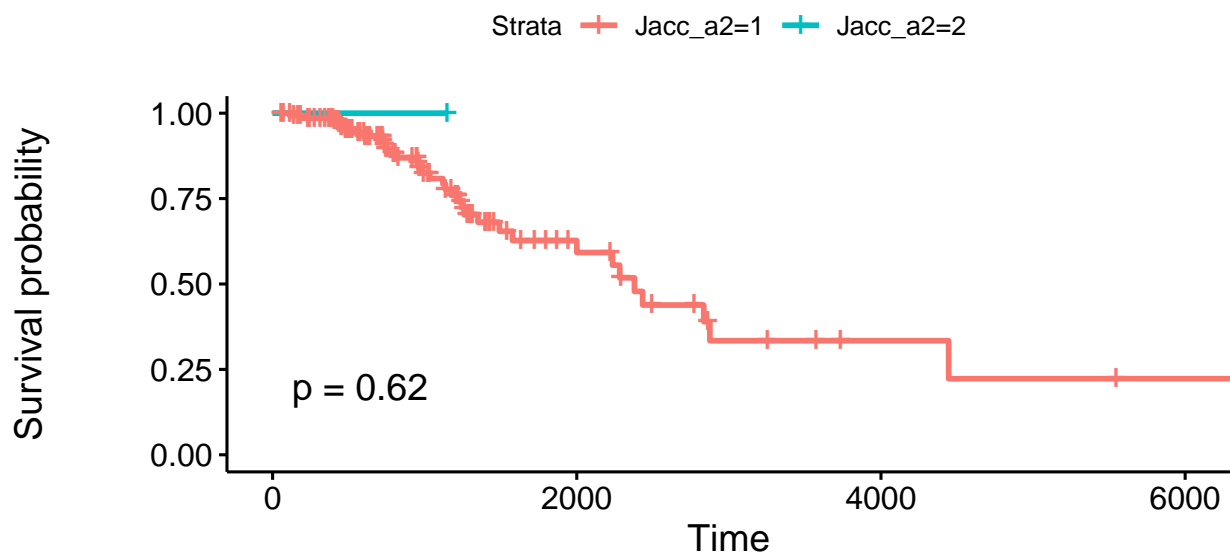


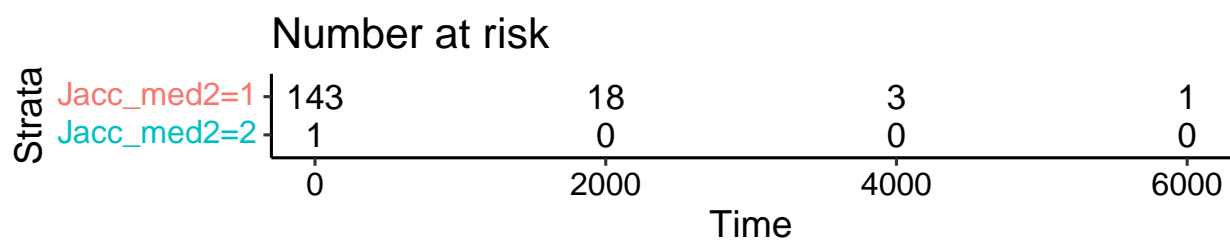
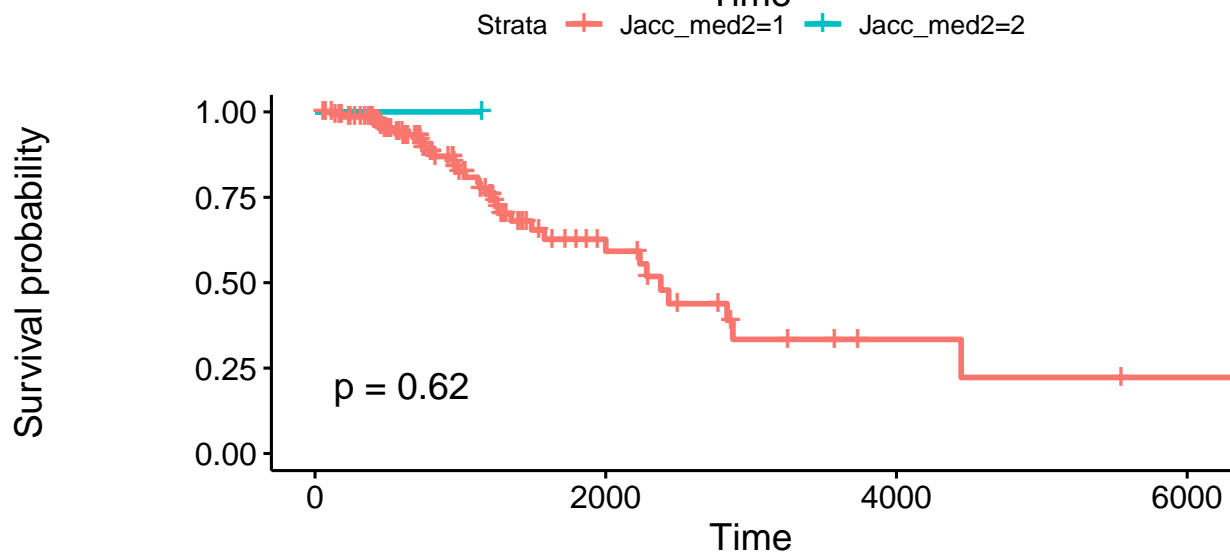
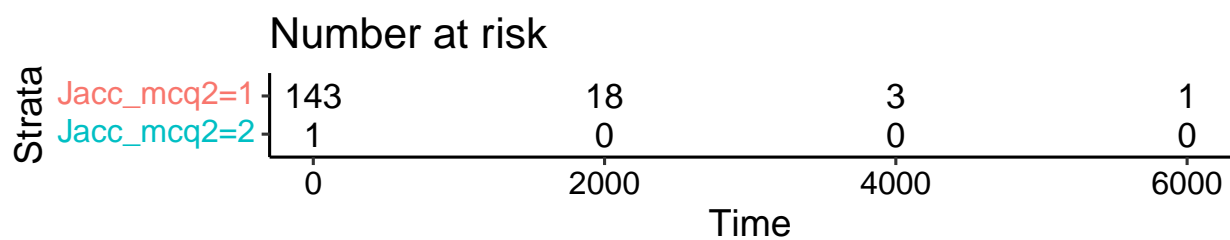
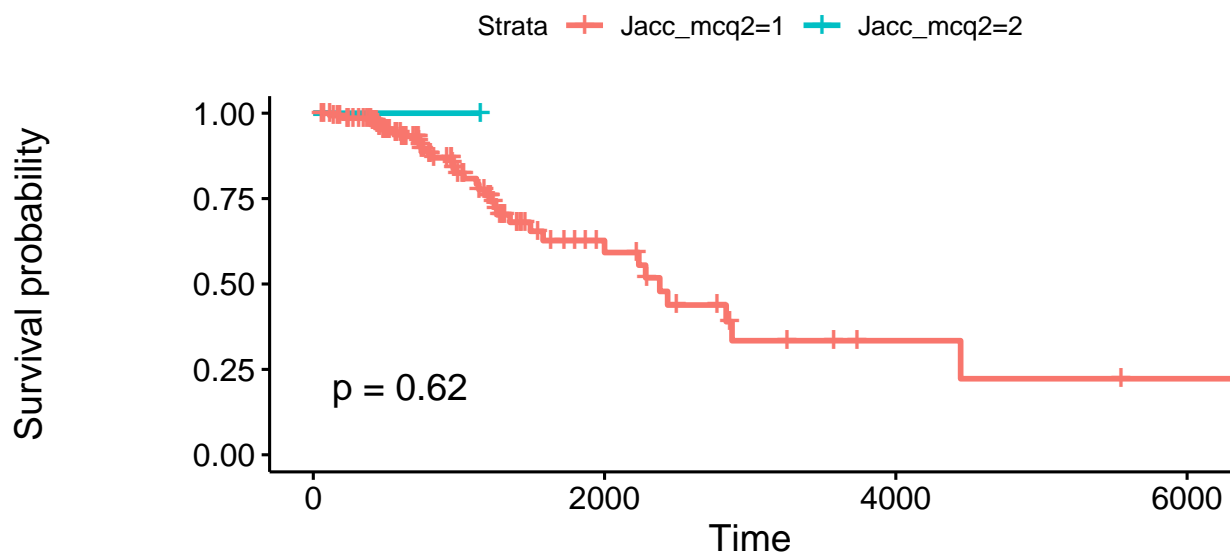


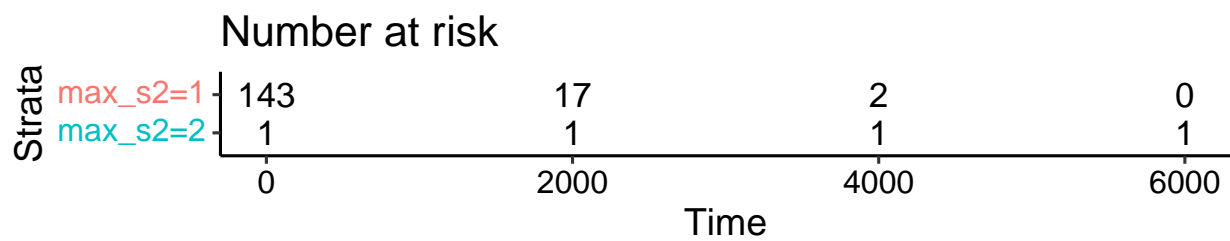
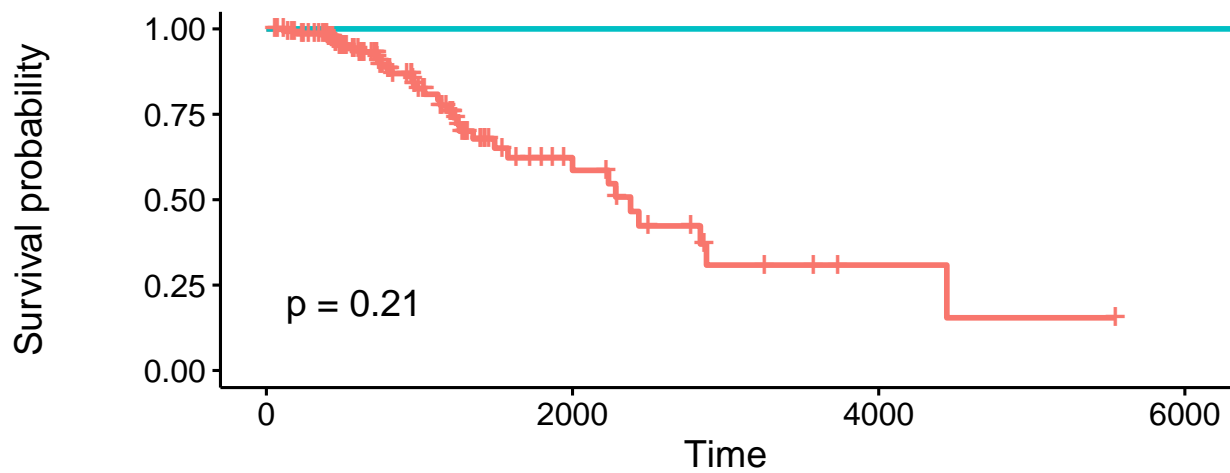
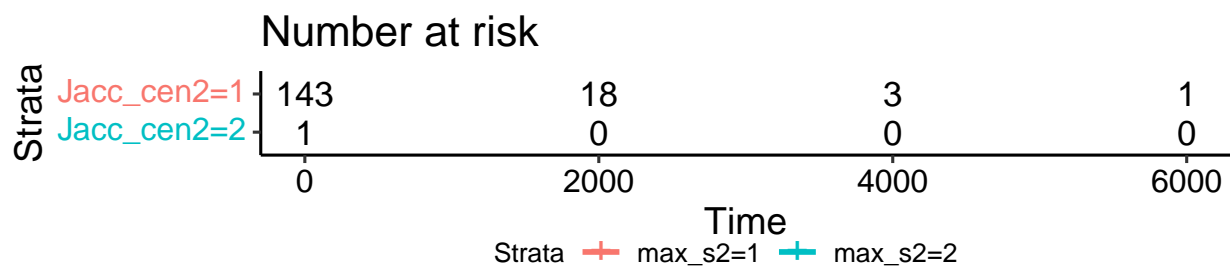
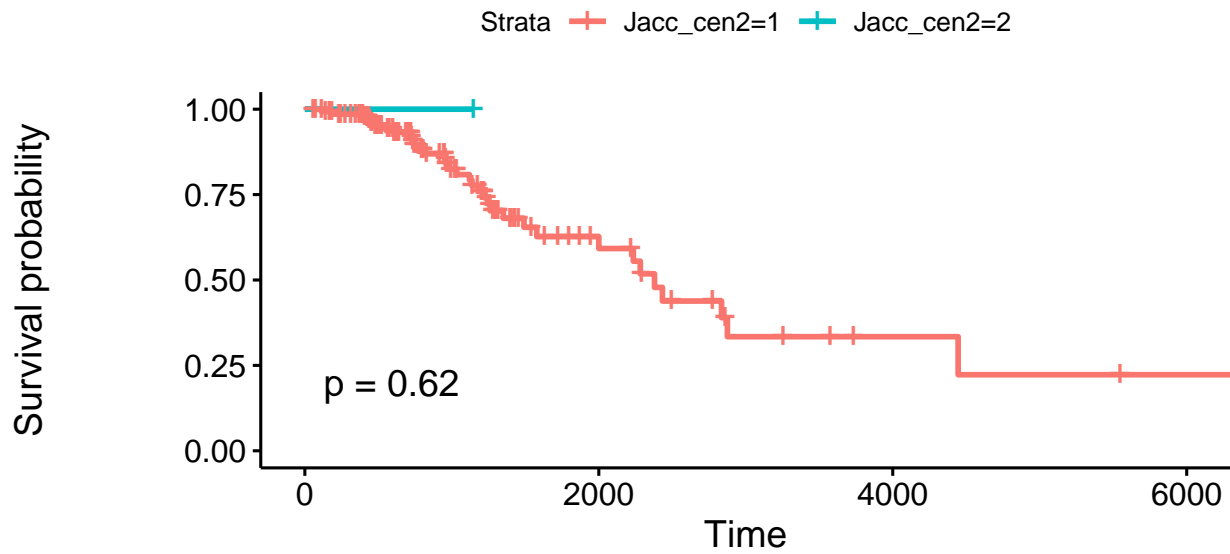


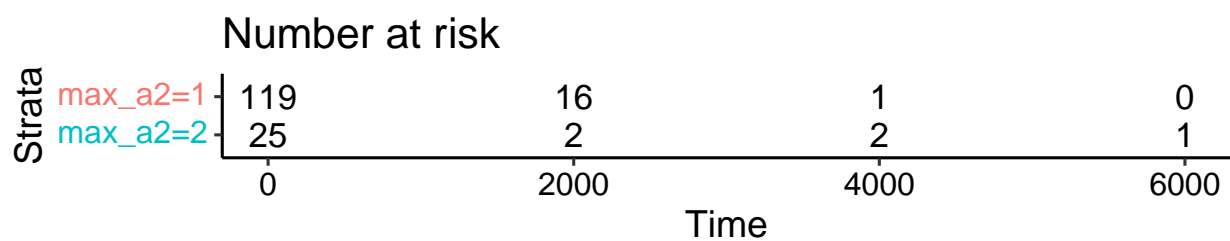
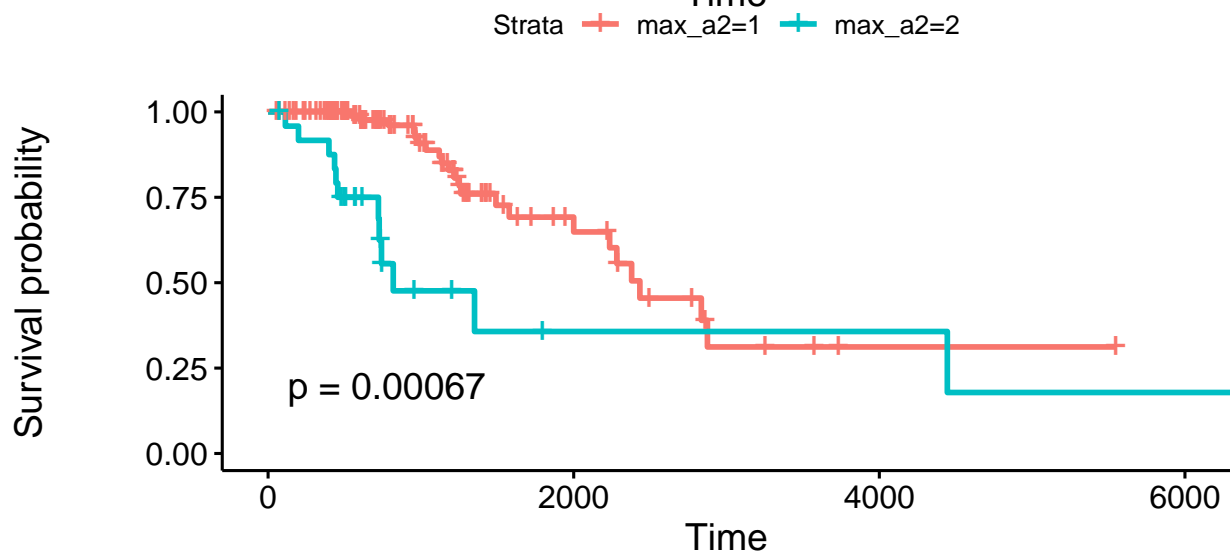
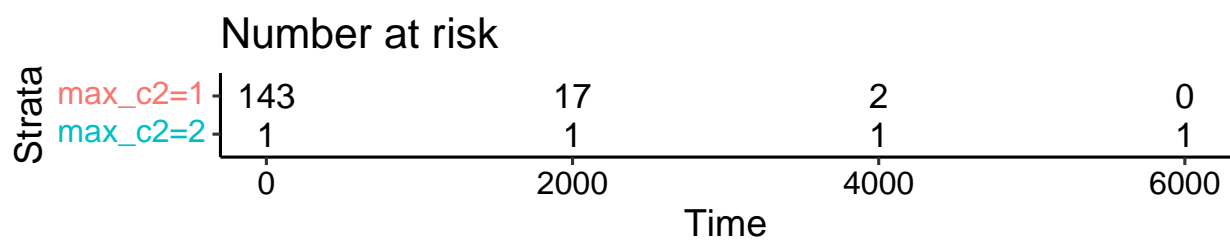
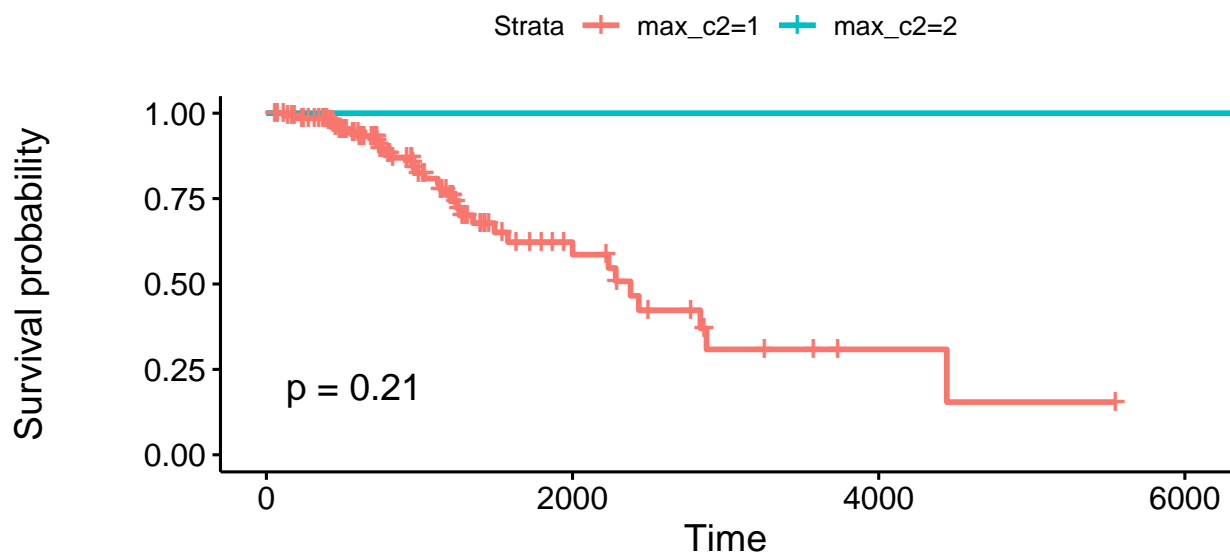


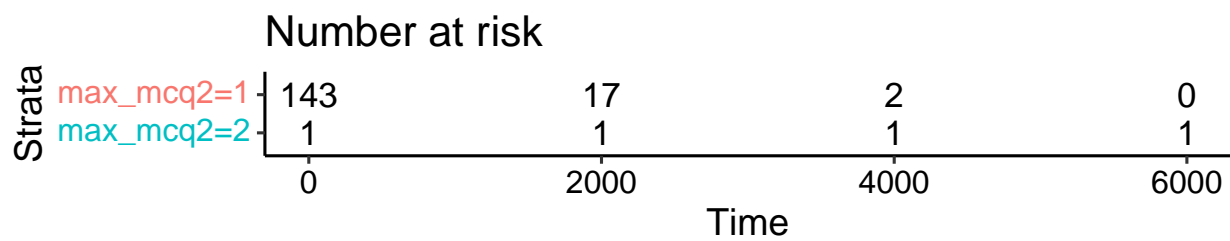
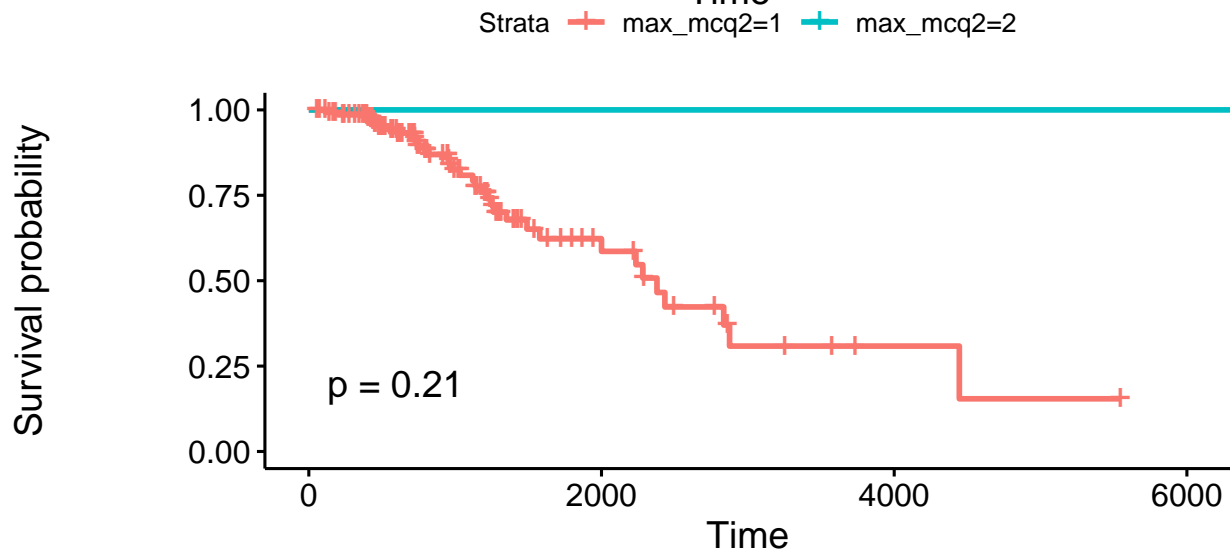
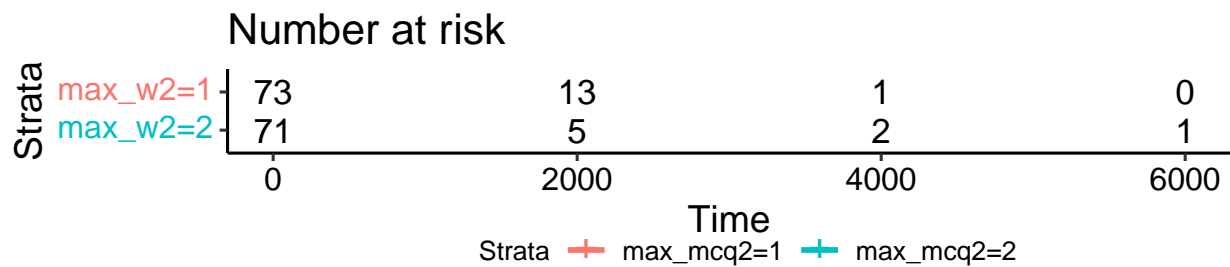
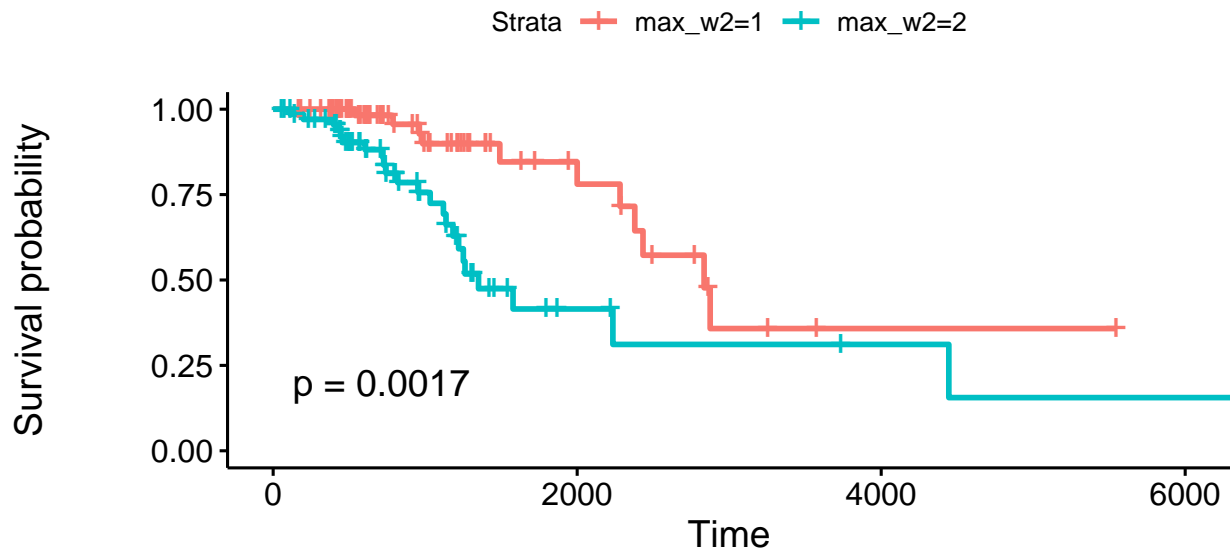




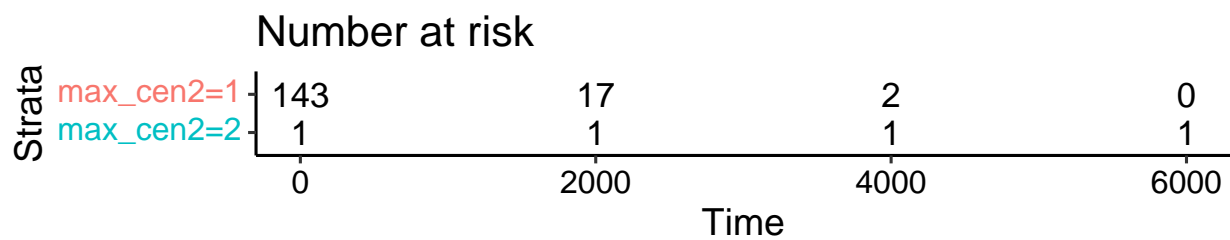
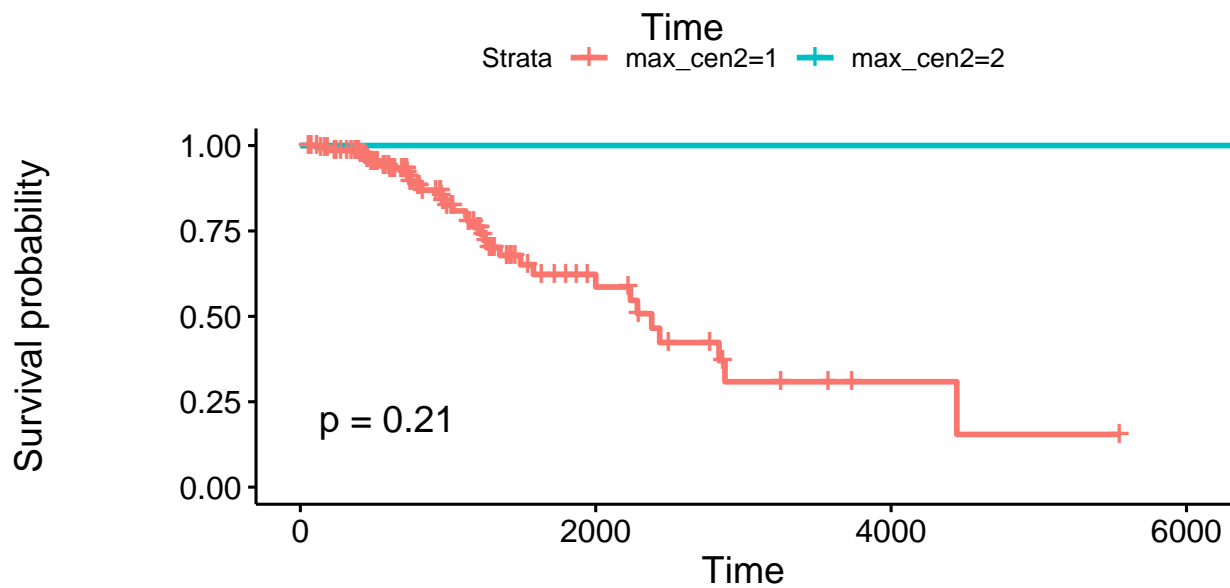
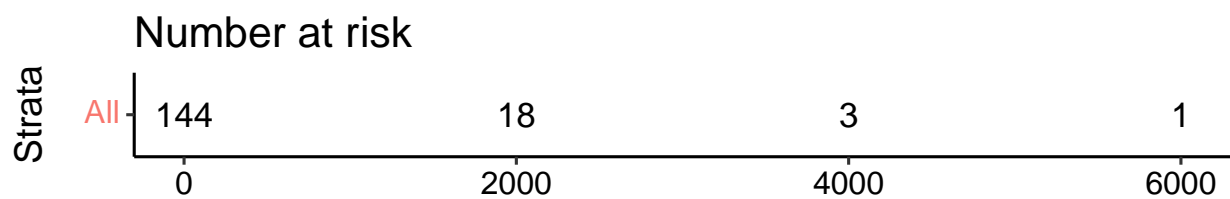
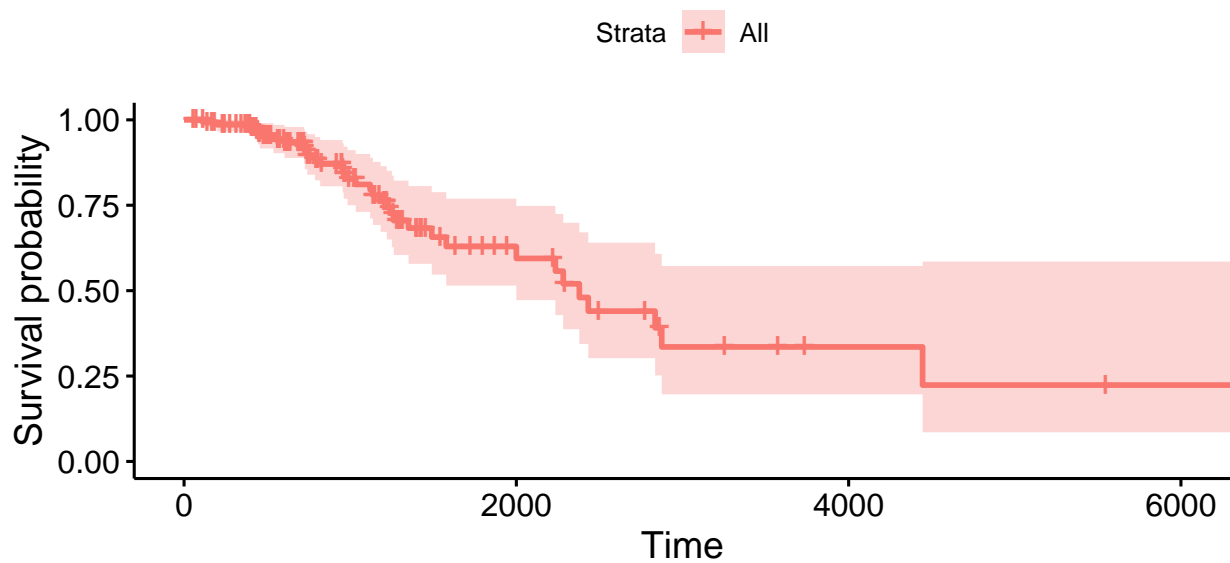


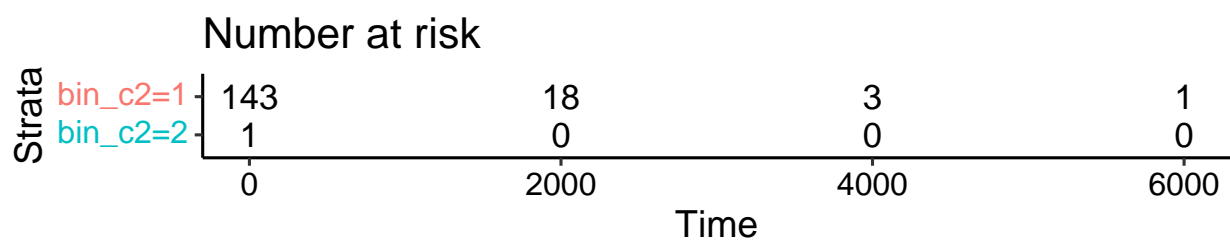
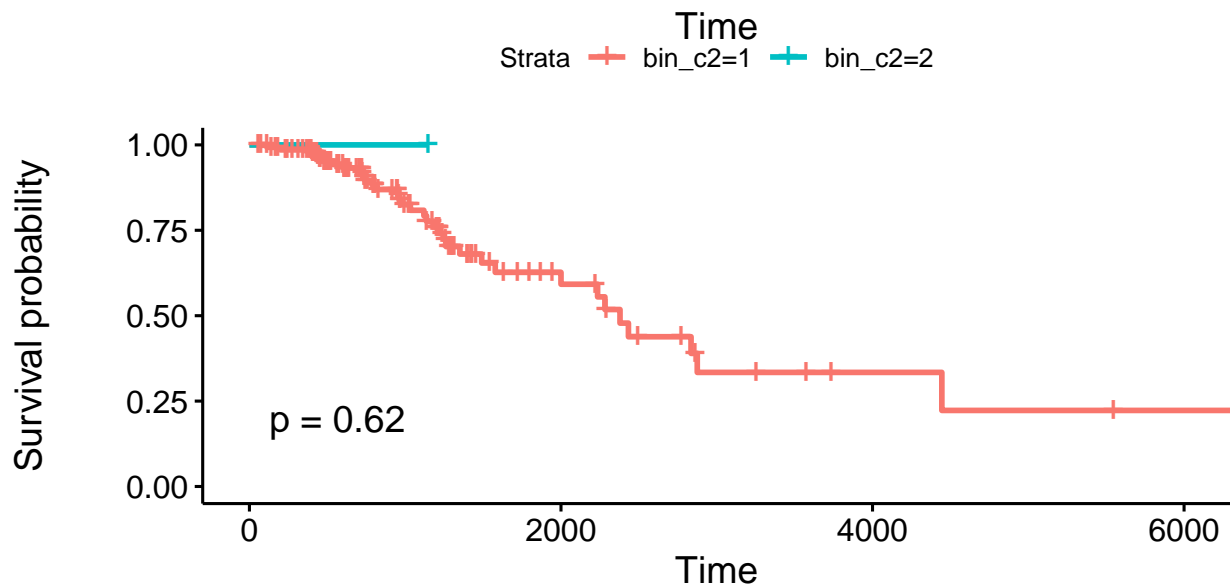
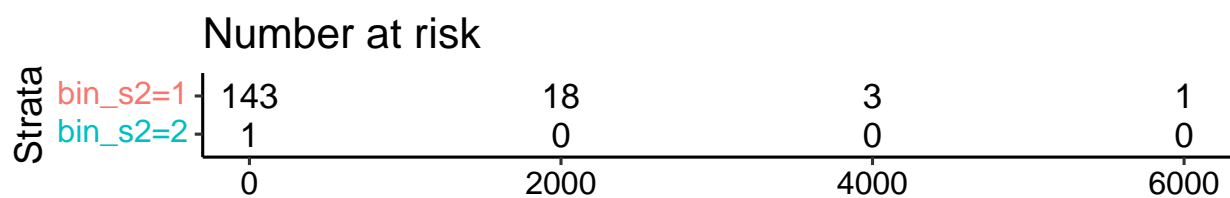
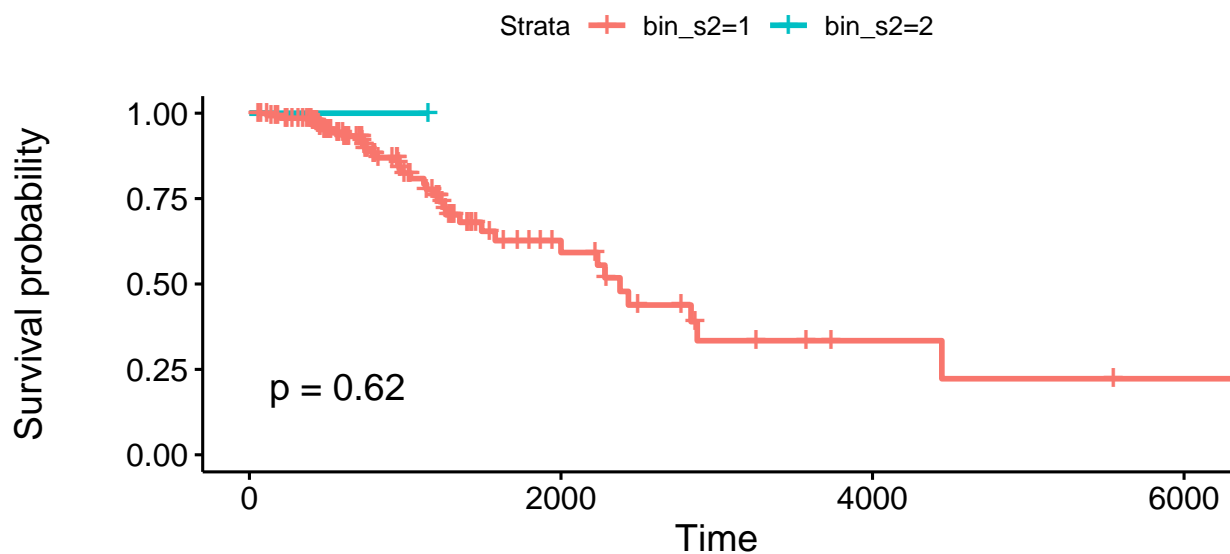


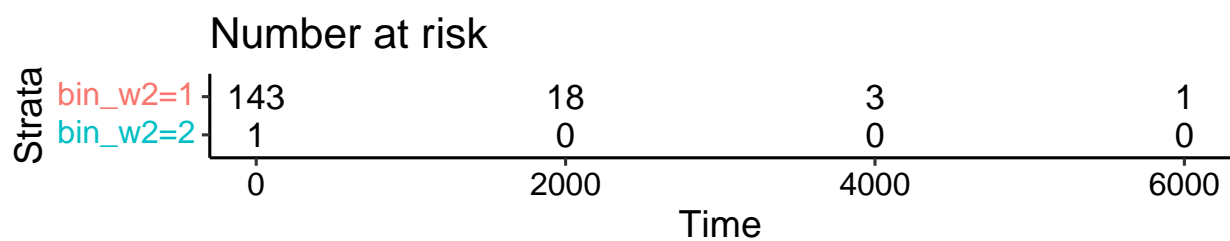
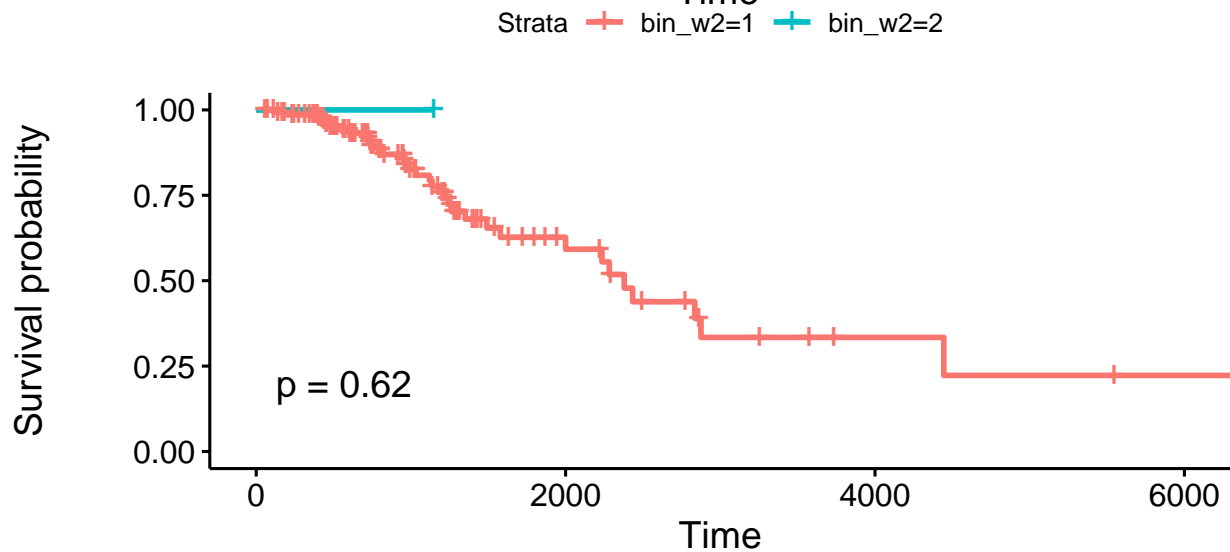
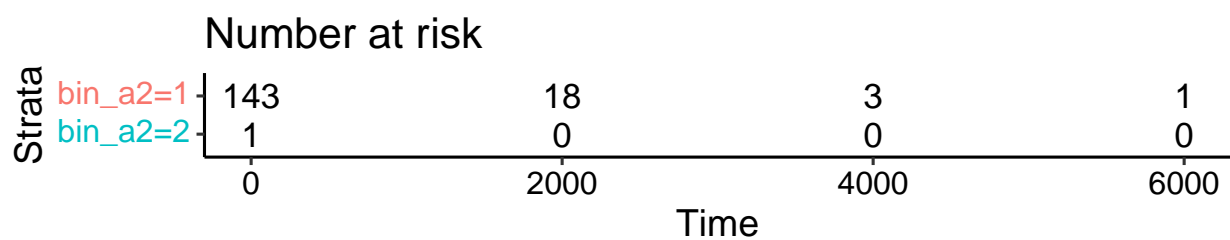
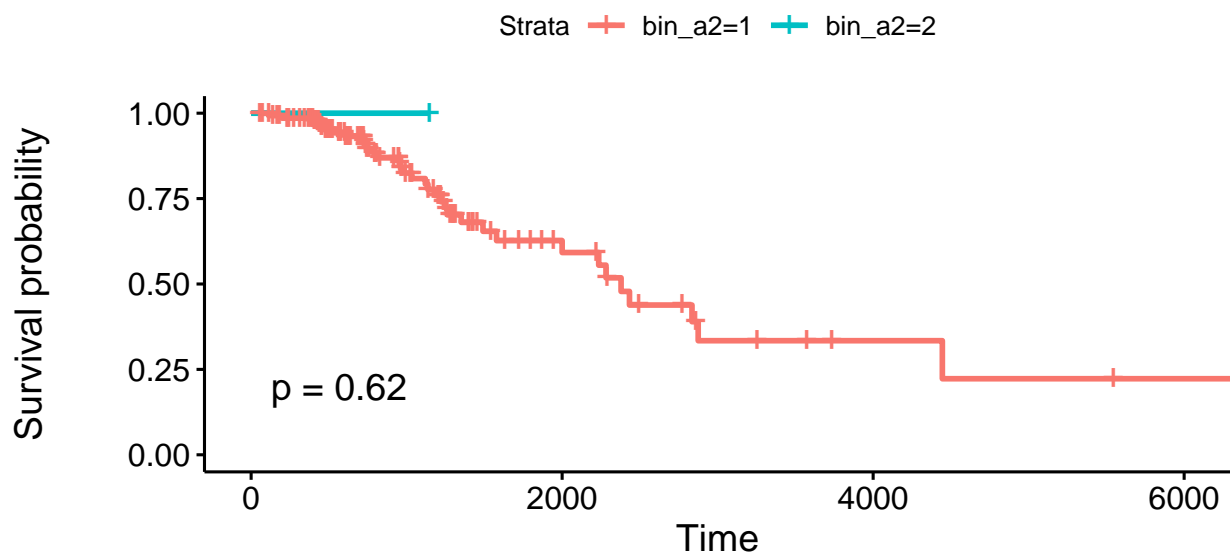


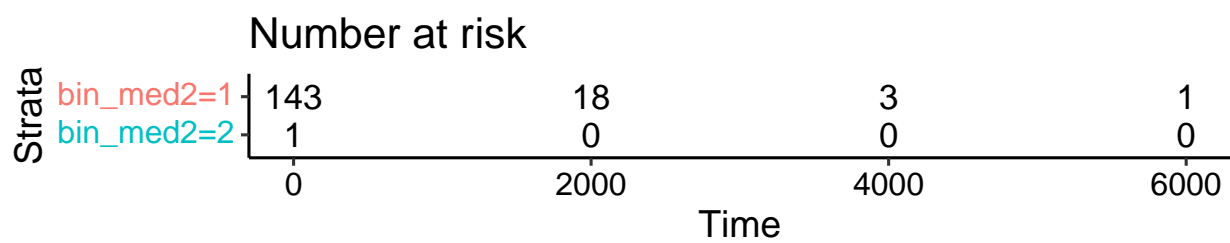
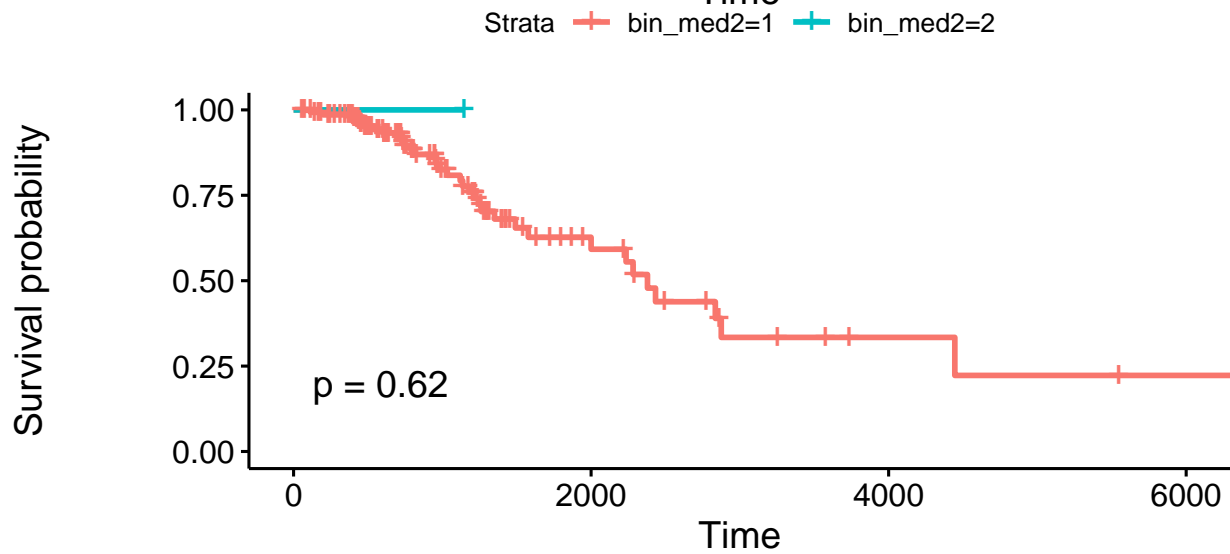
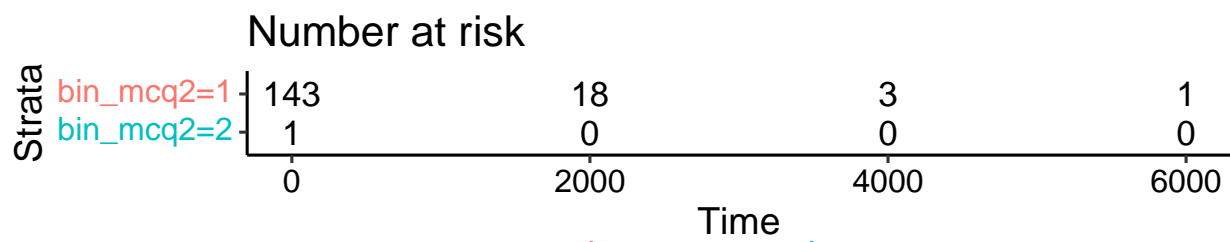
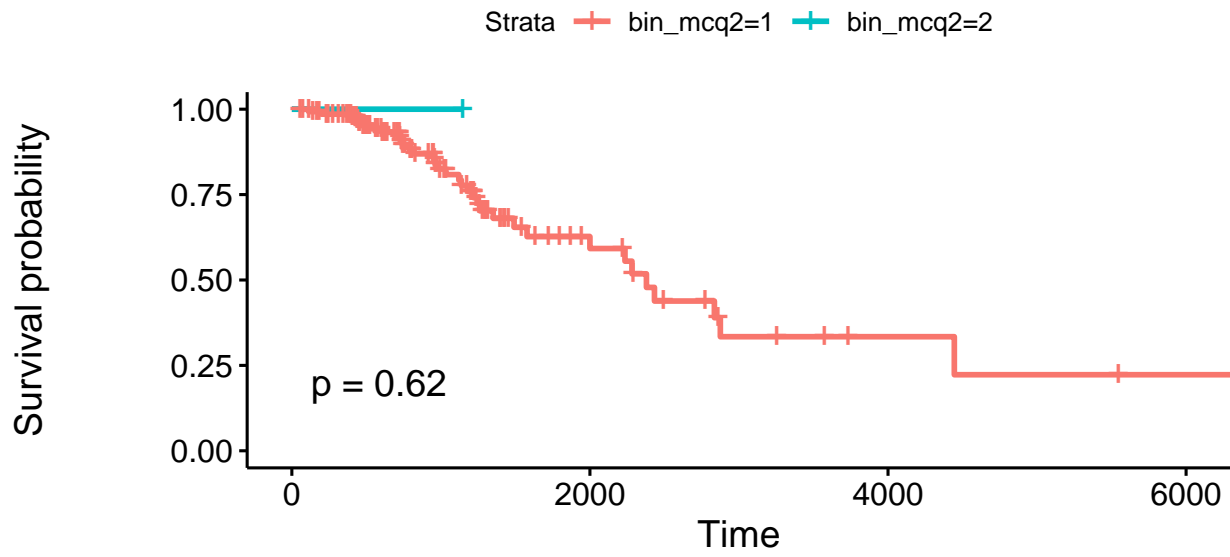


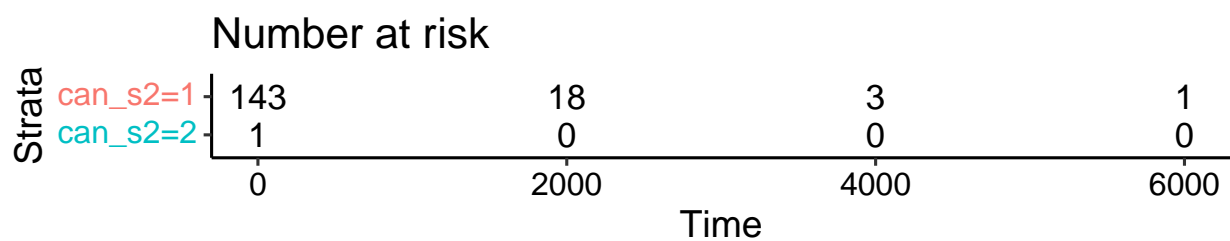
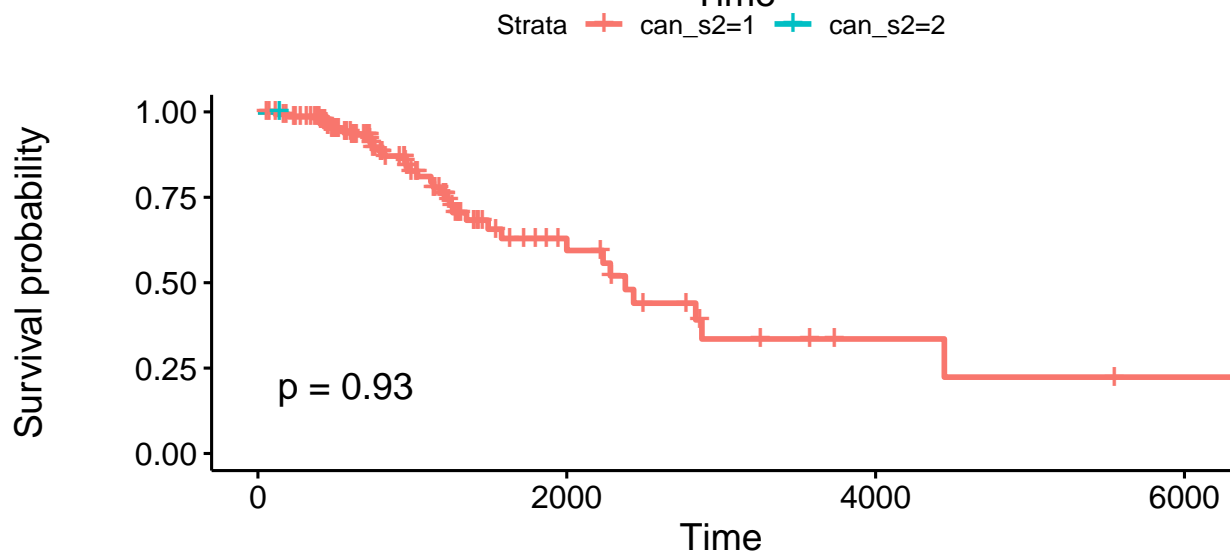
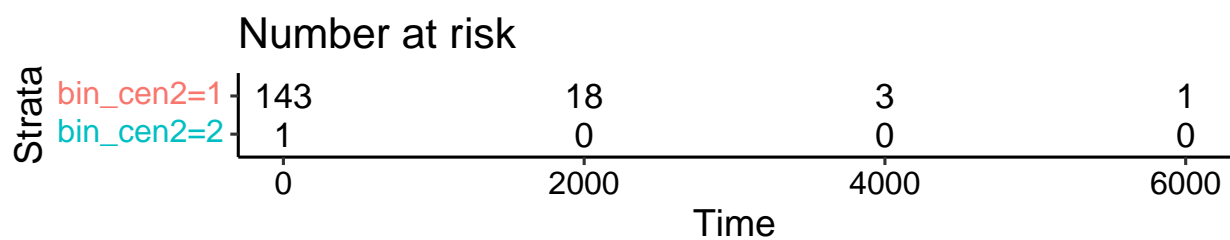
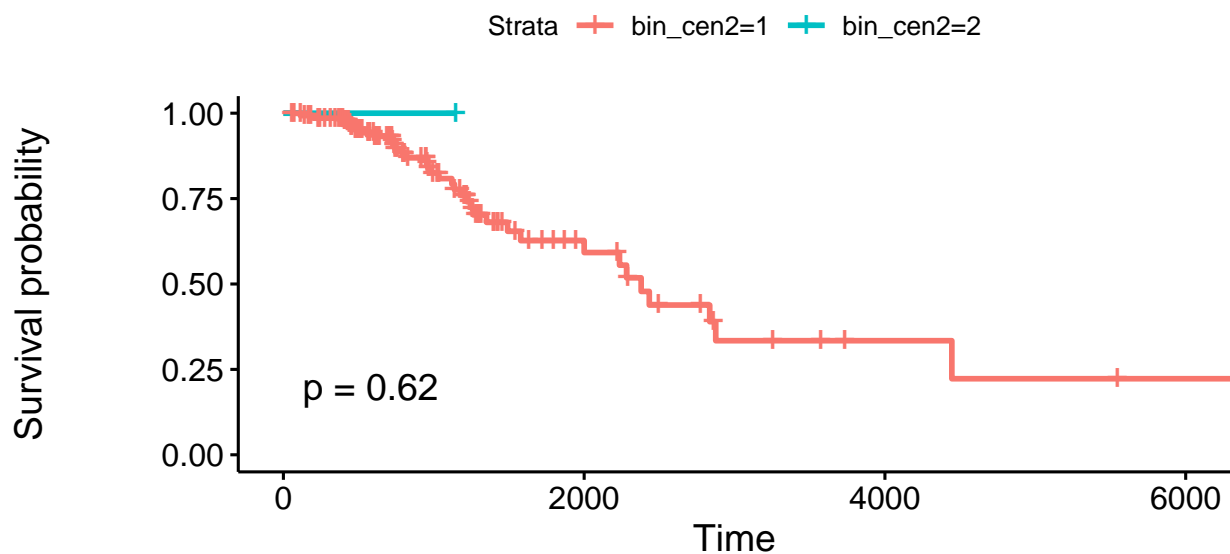
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## This is a null model.
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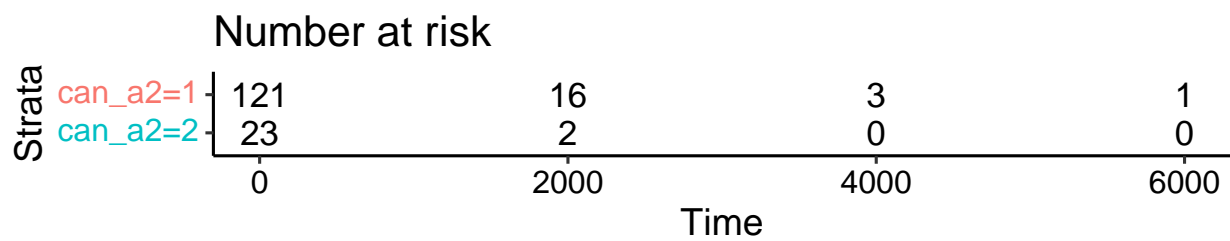
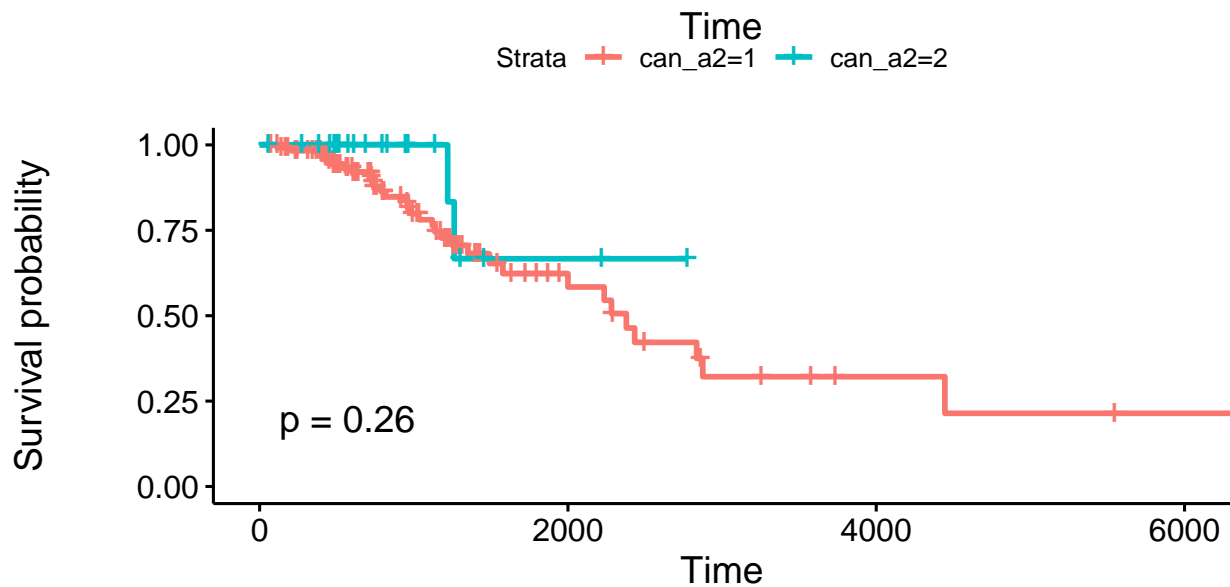
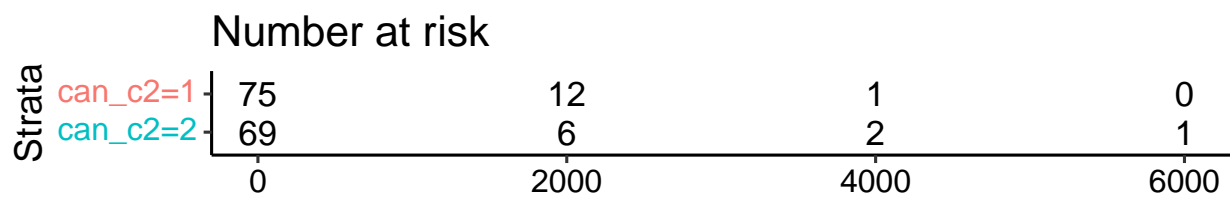
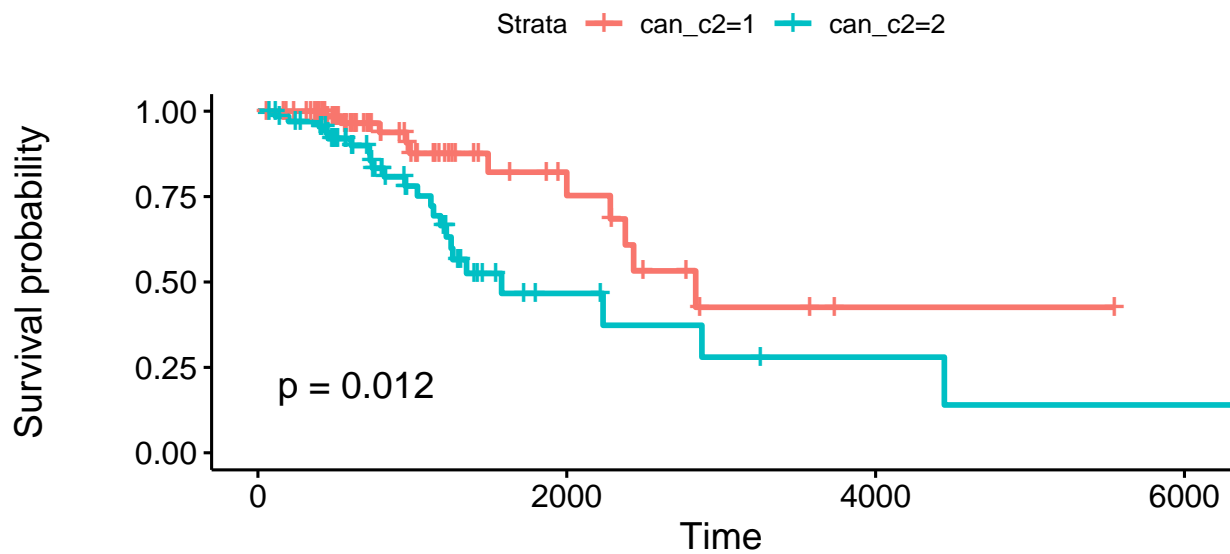


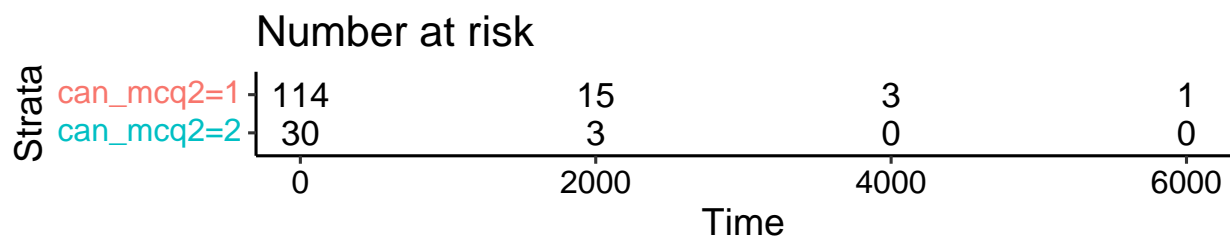
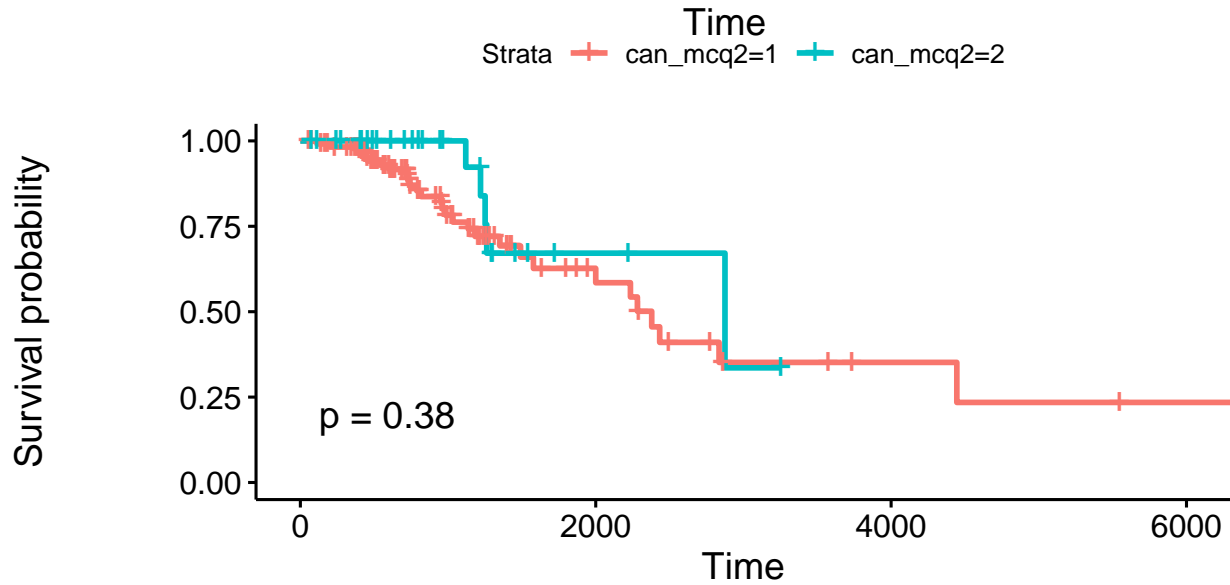
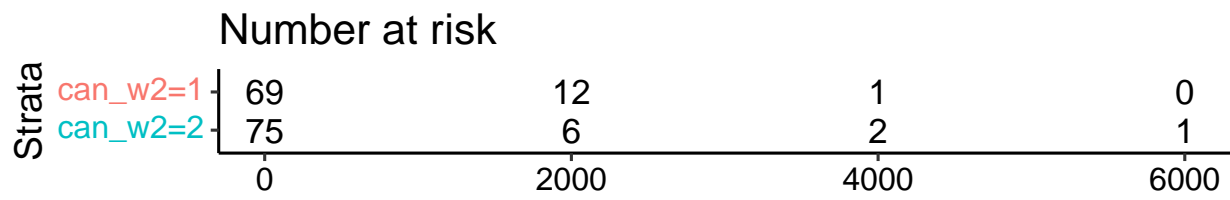
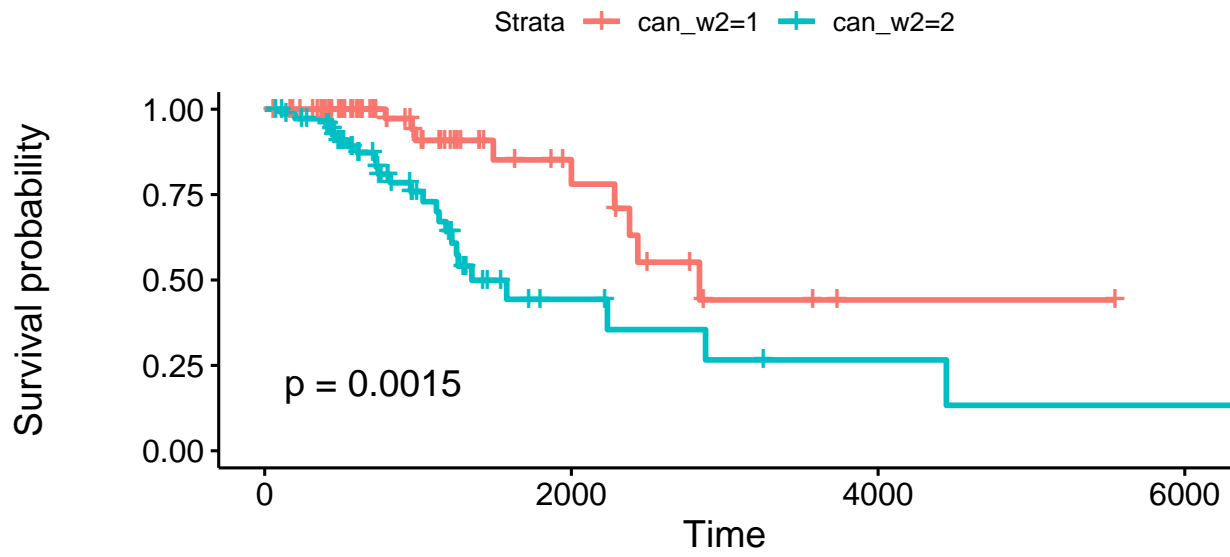


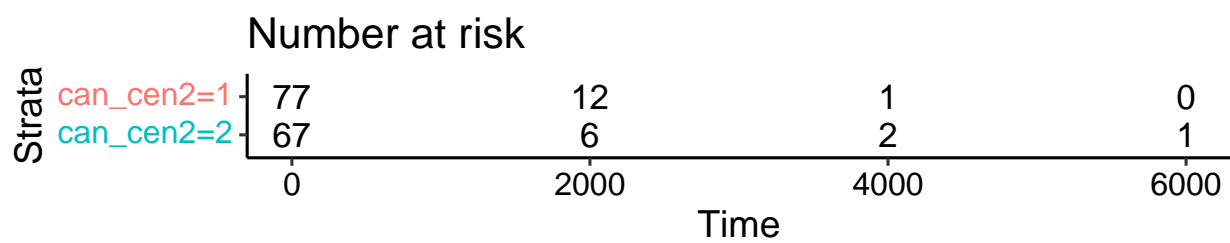
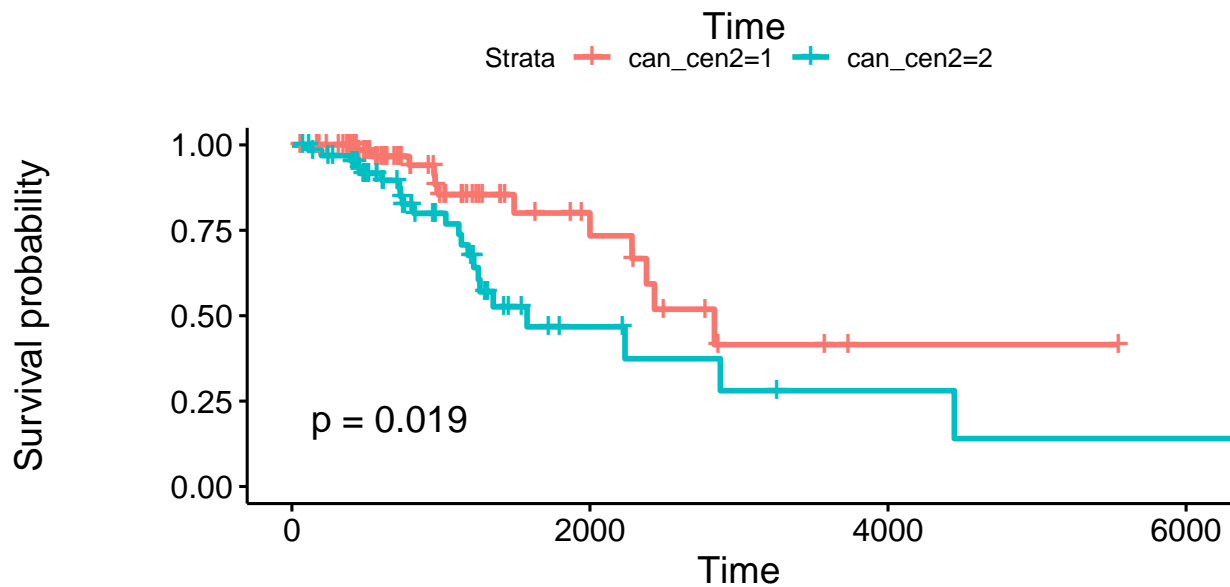
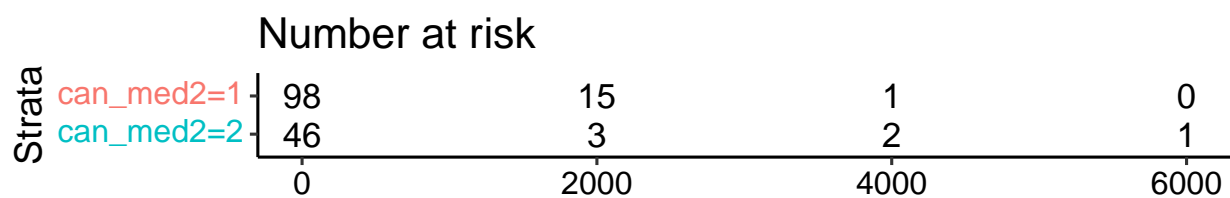
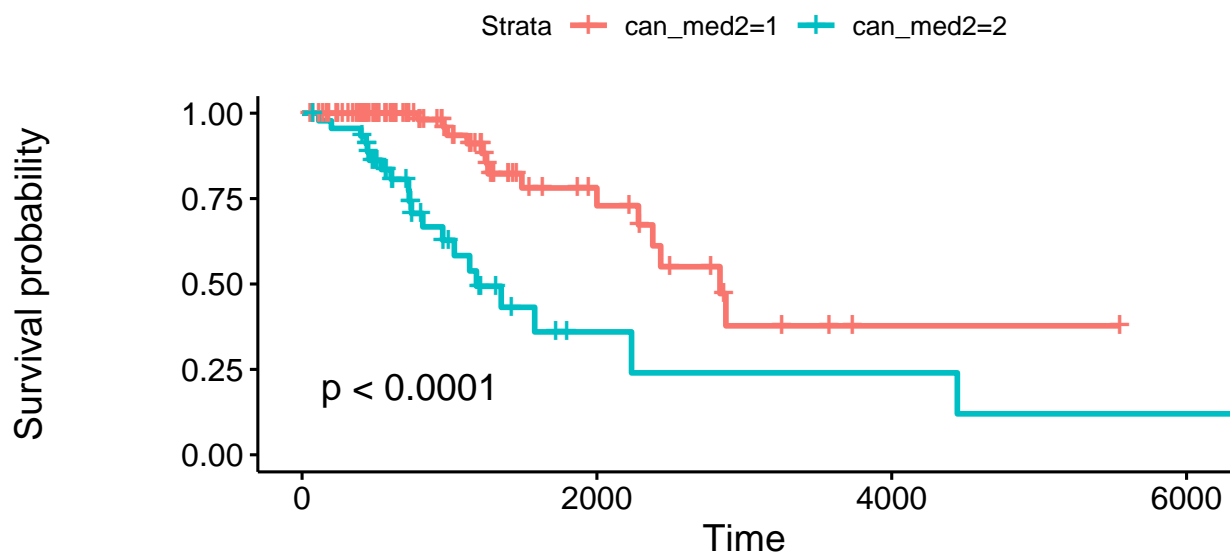


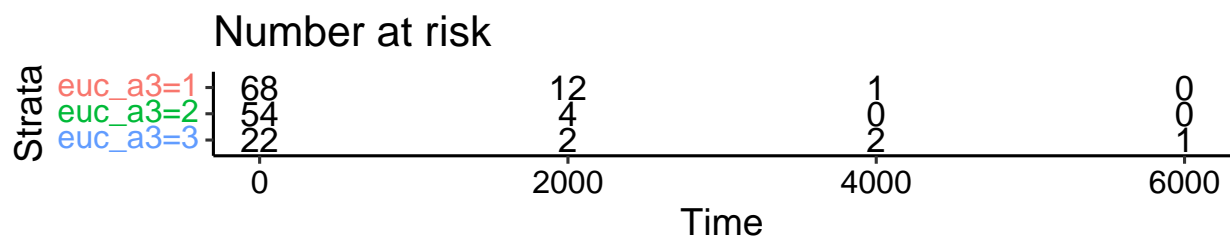
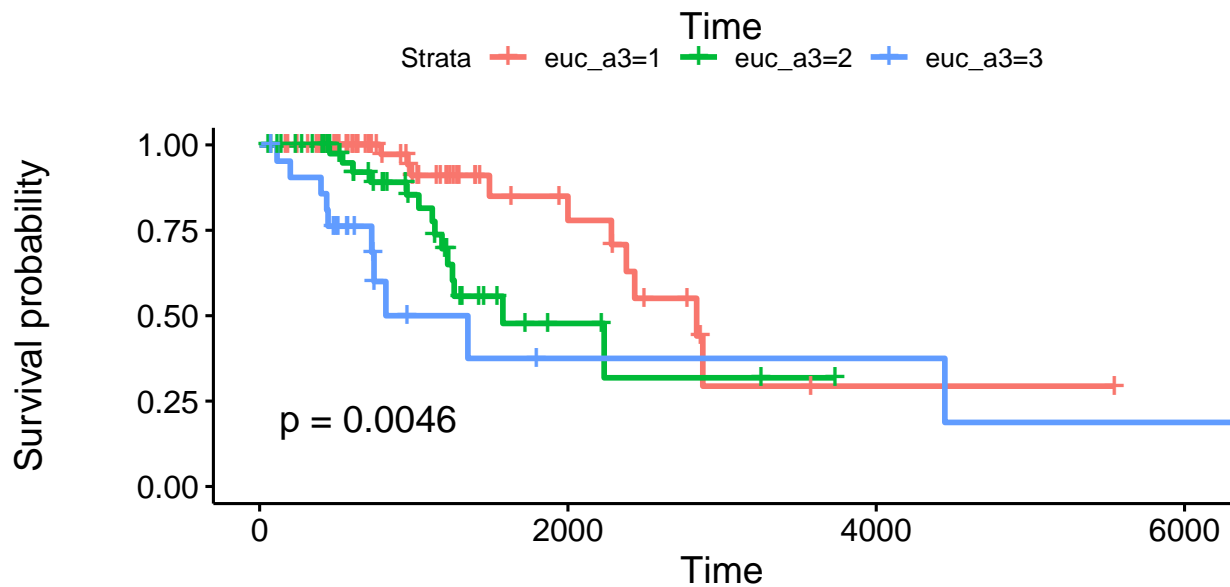
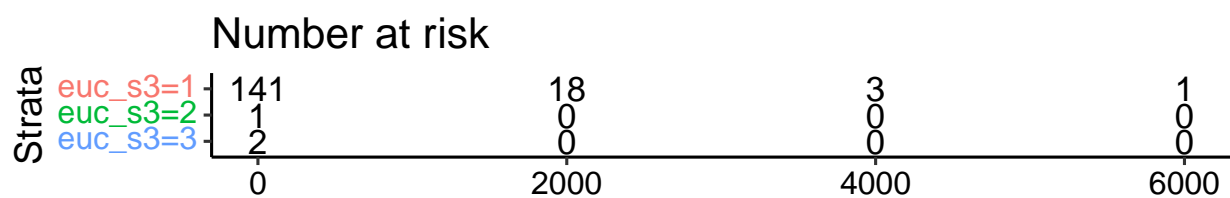
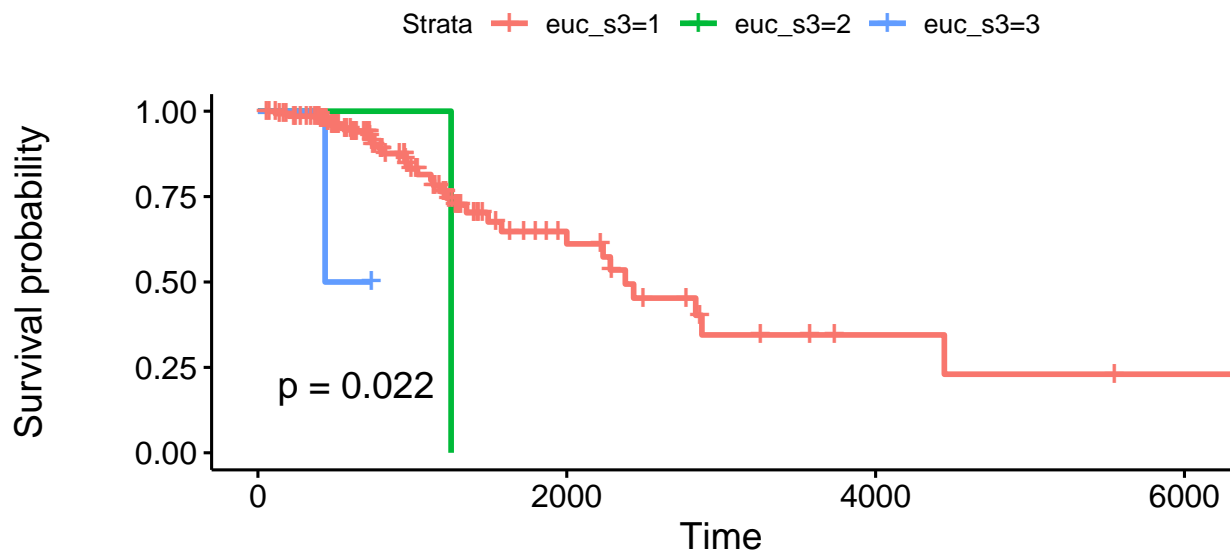


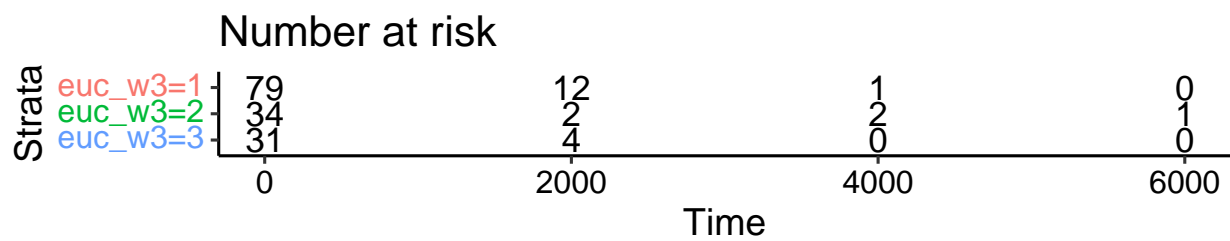
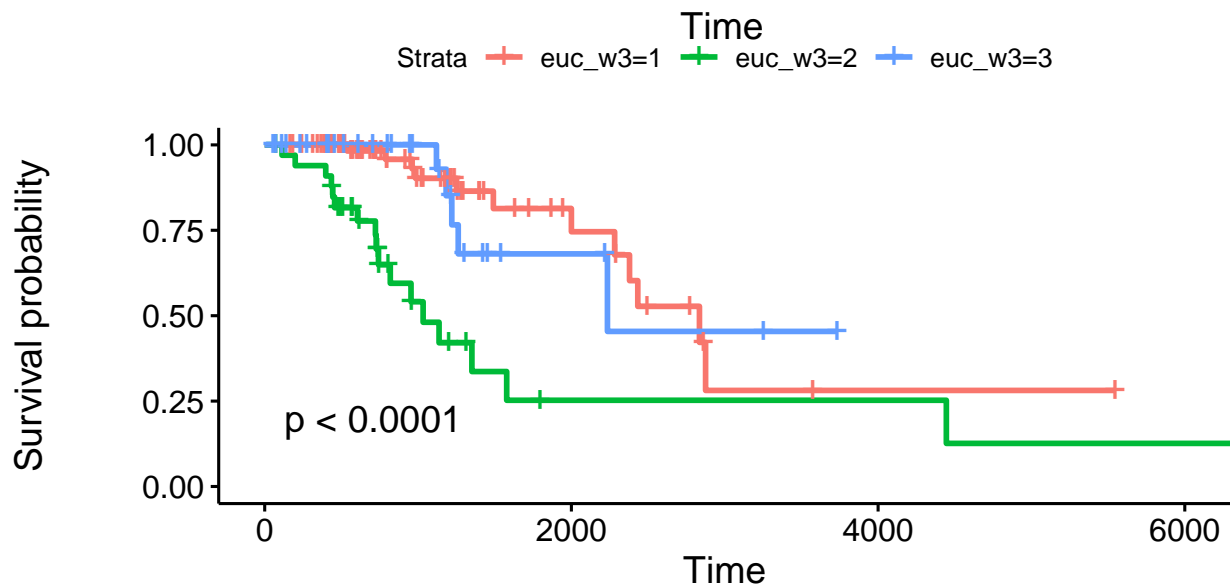
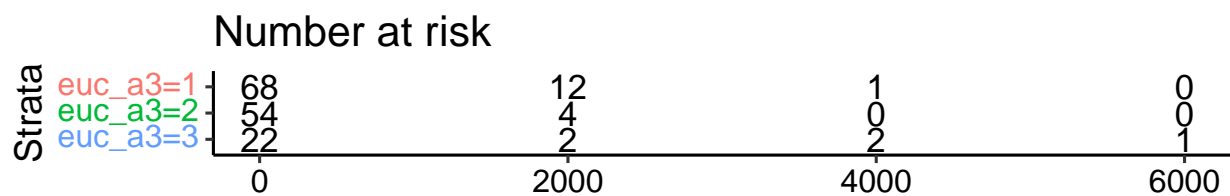
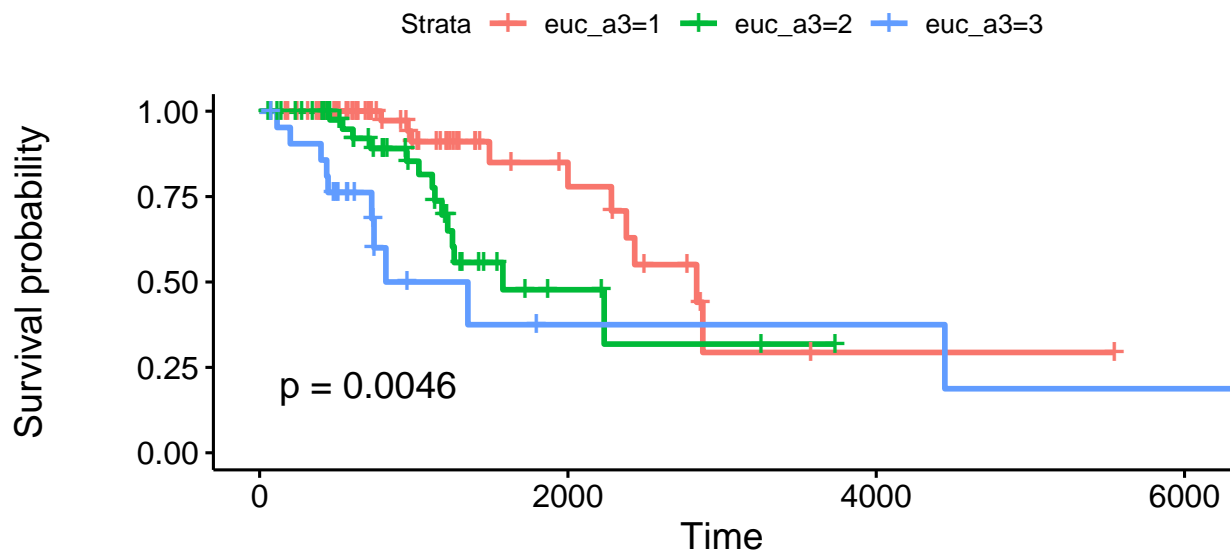


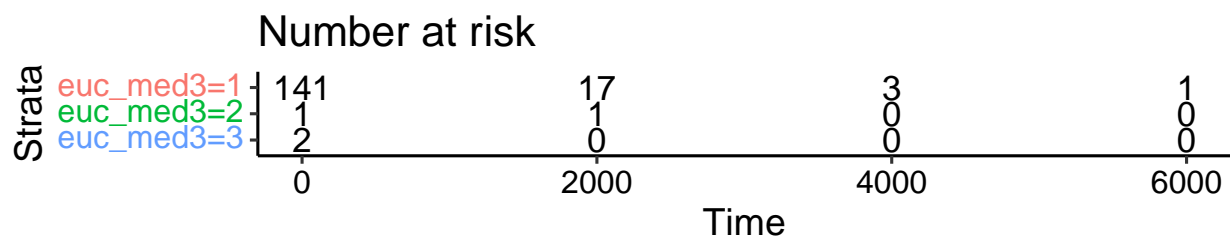
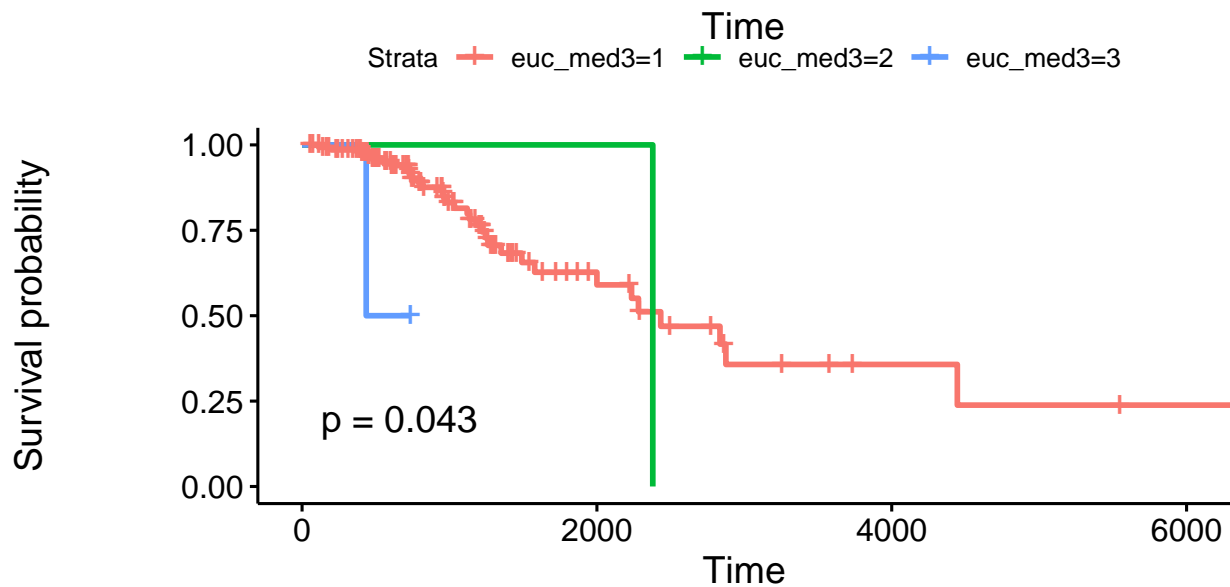
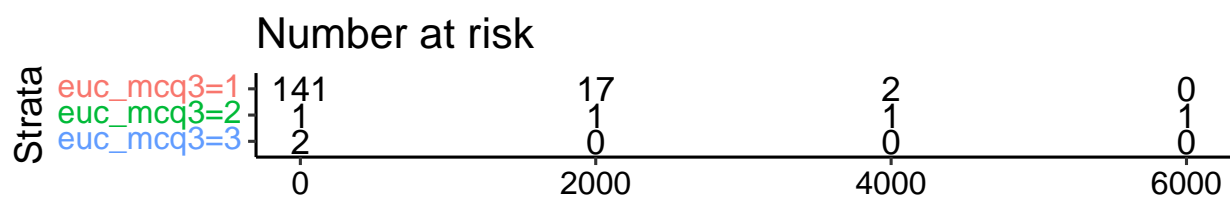
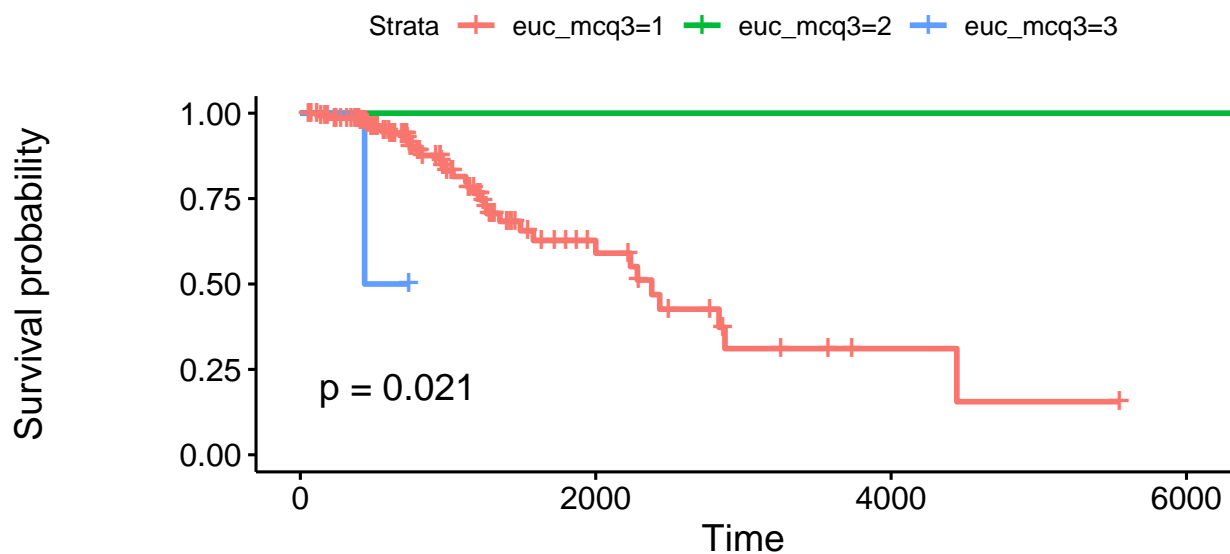


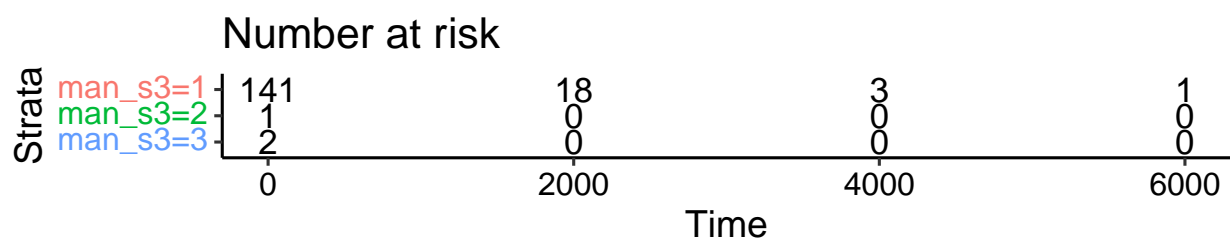
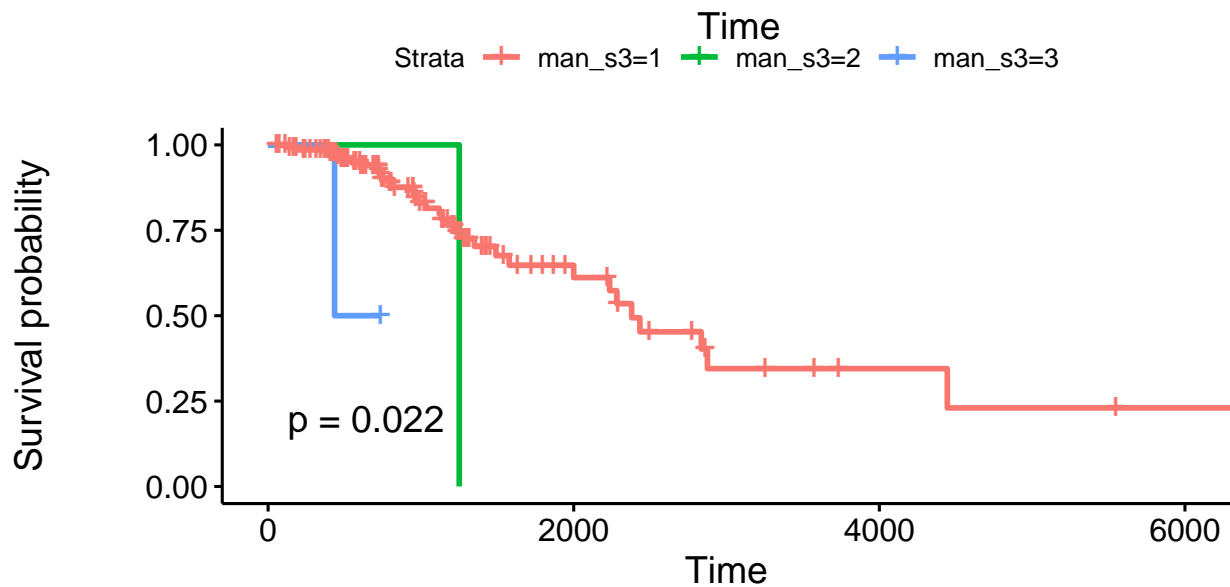
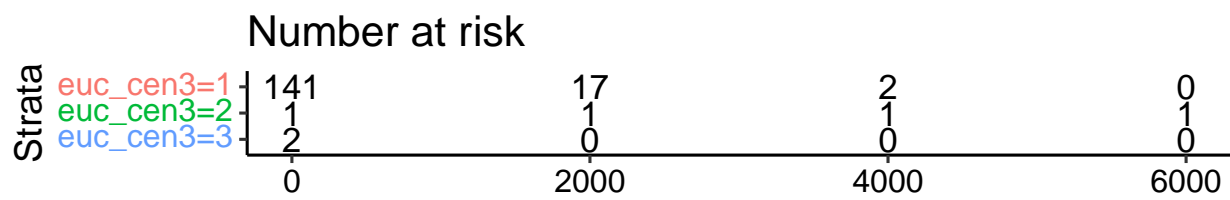
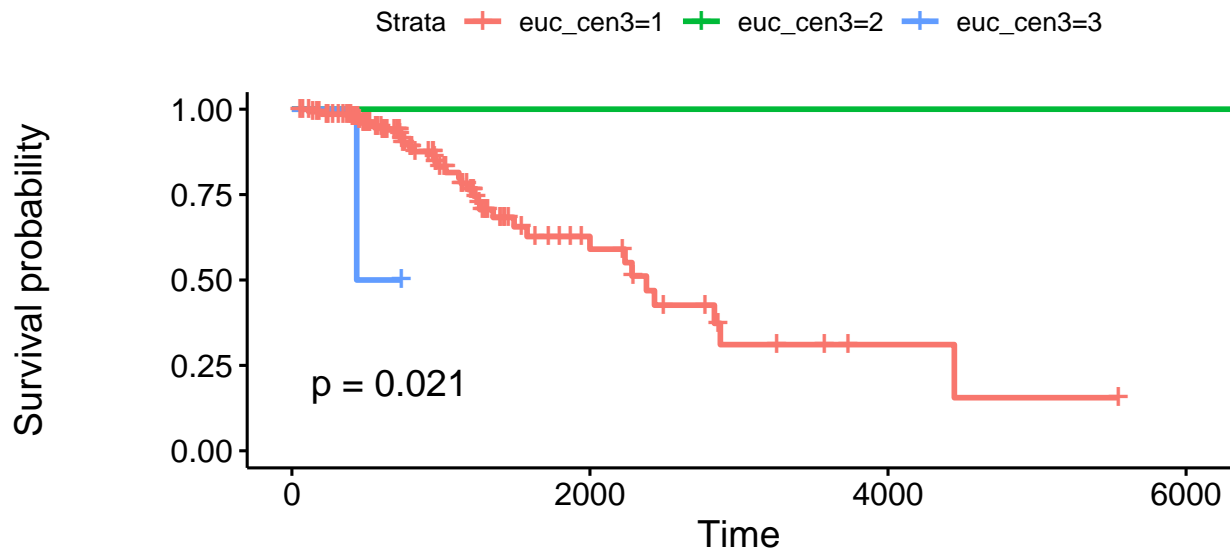


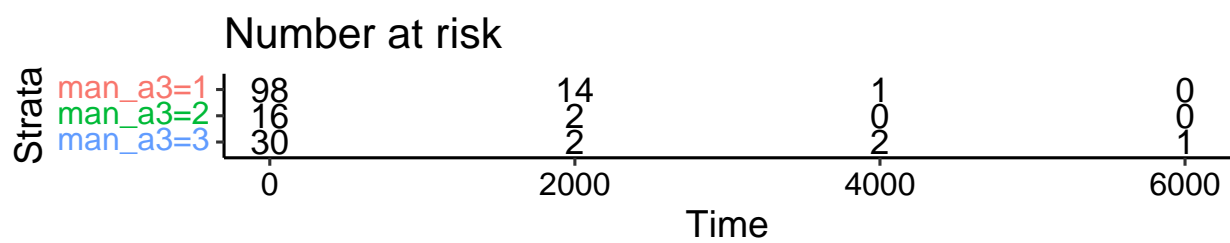
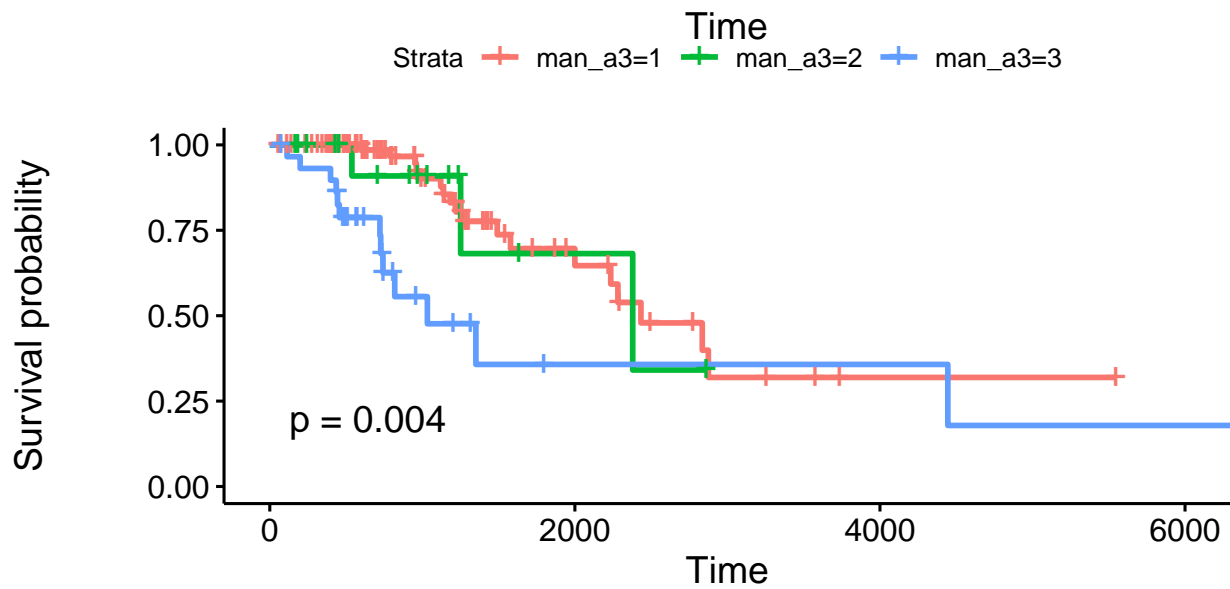
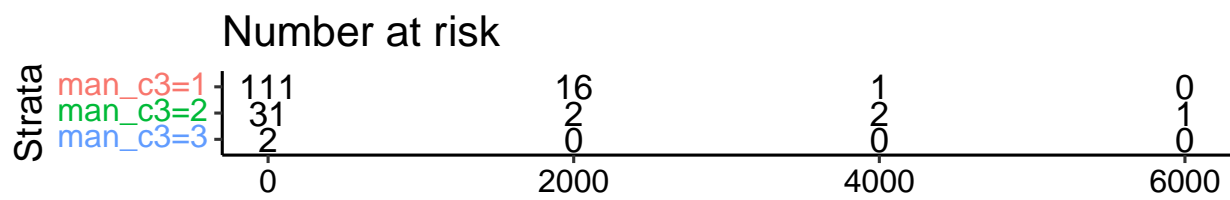
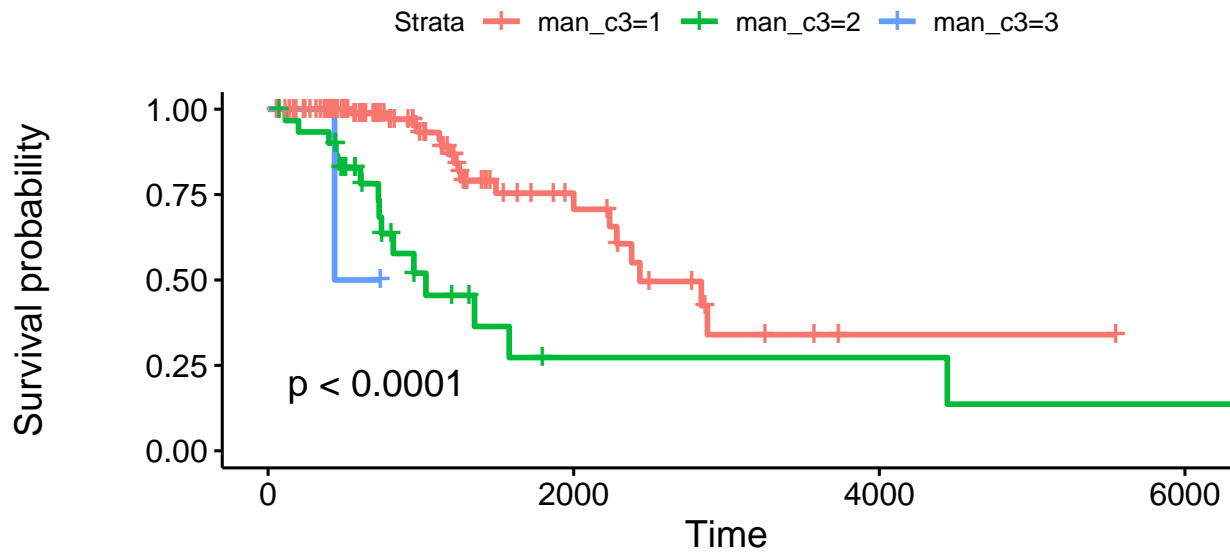


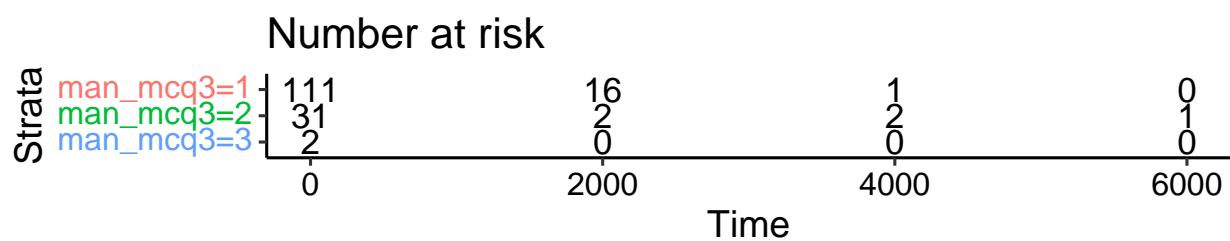
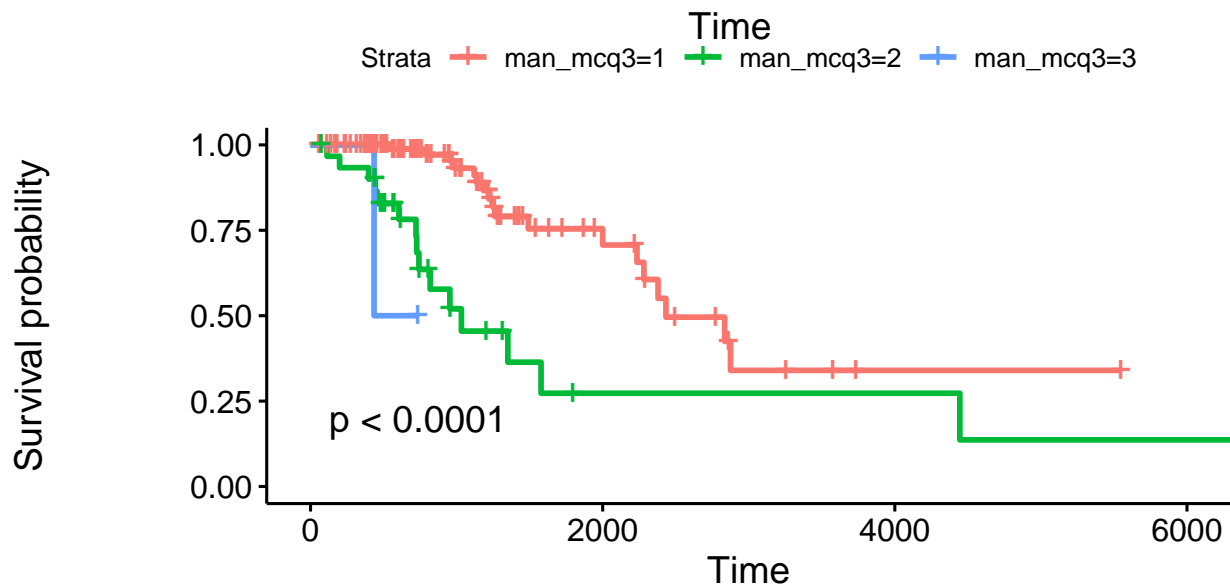
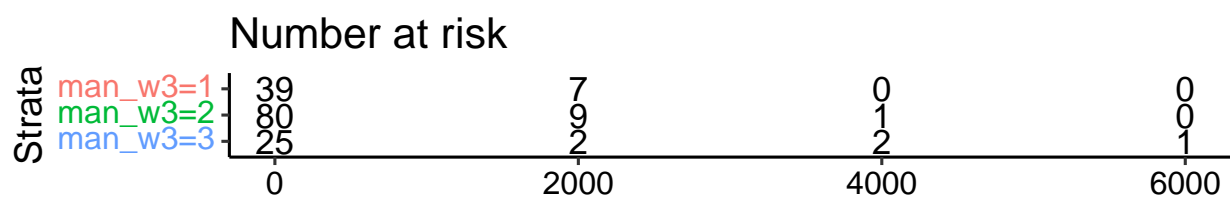
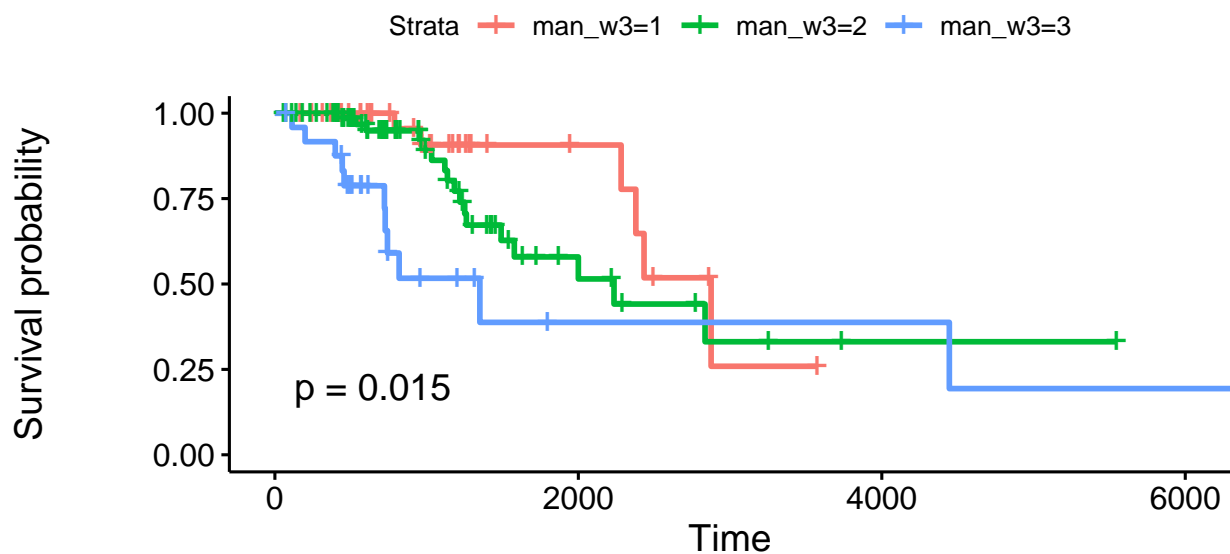


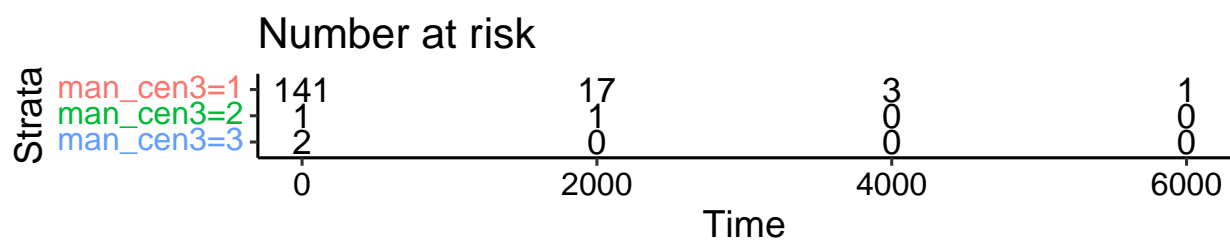
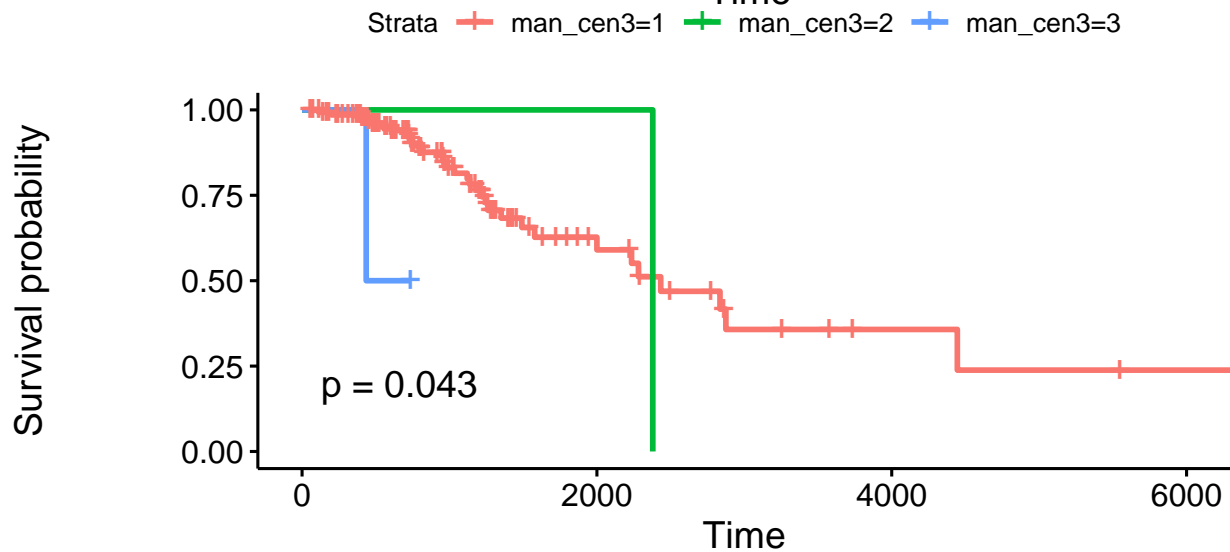
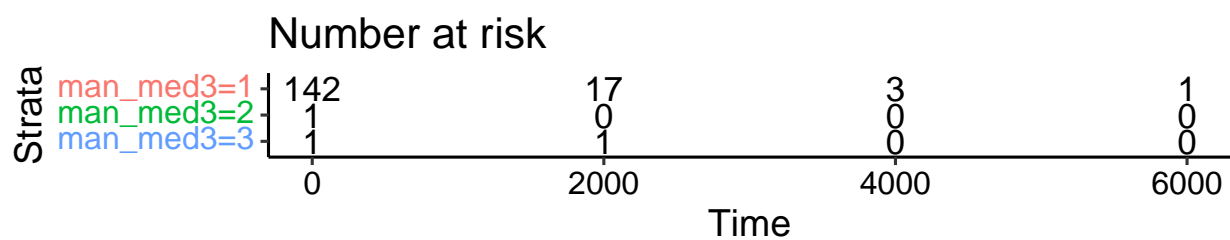
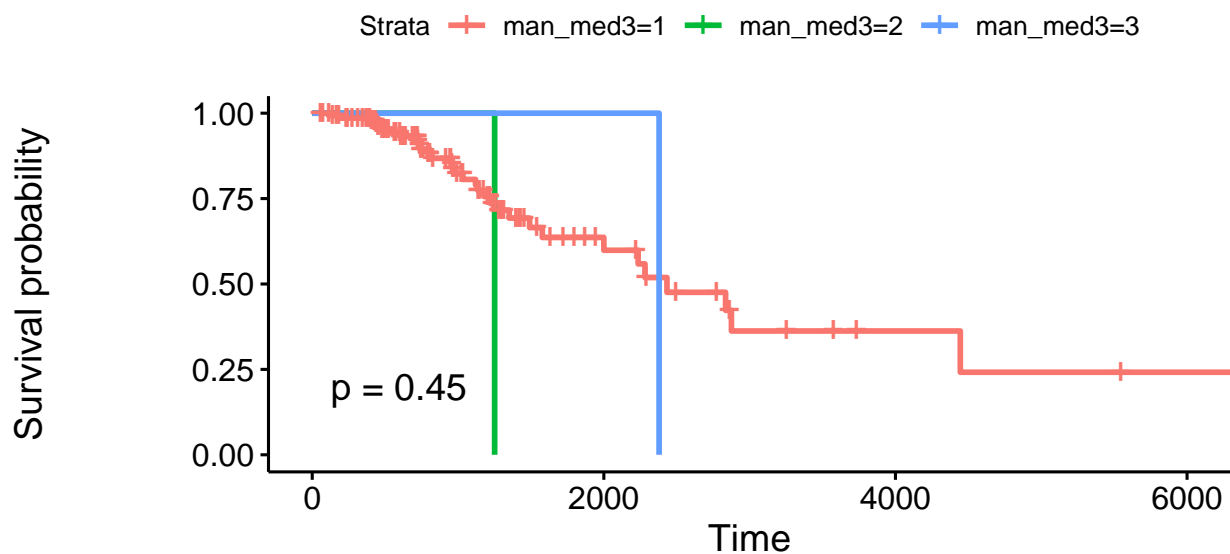


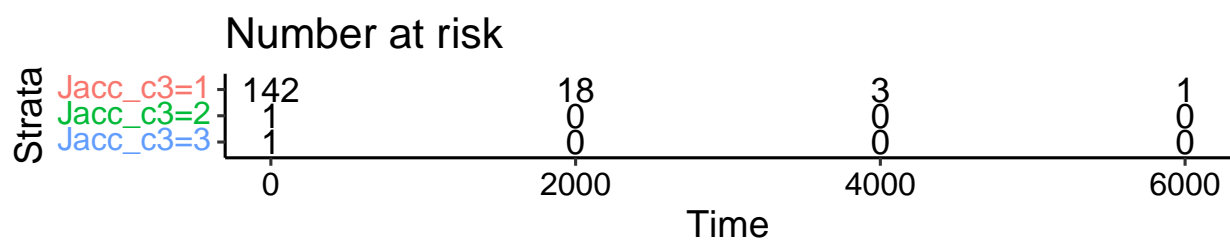
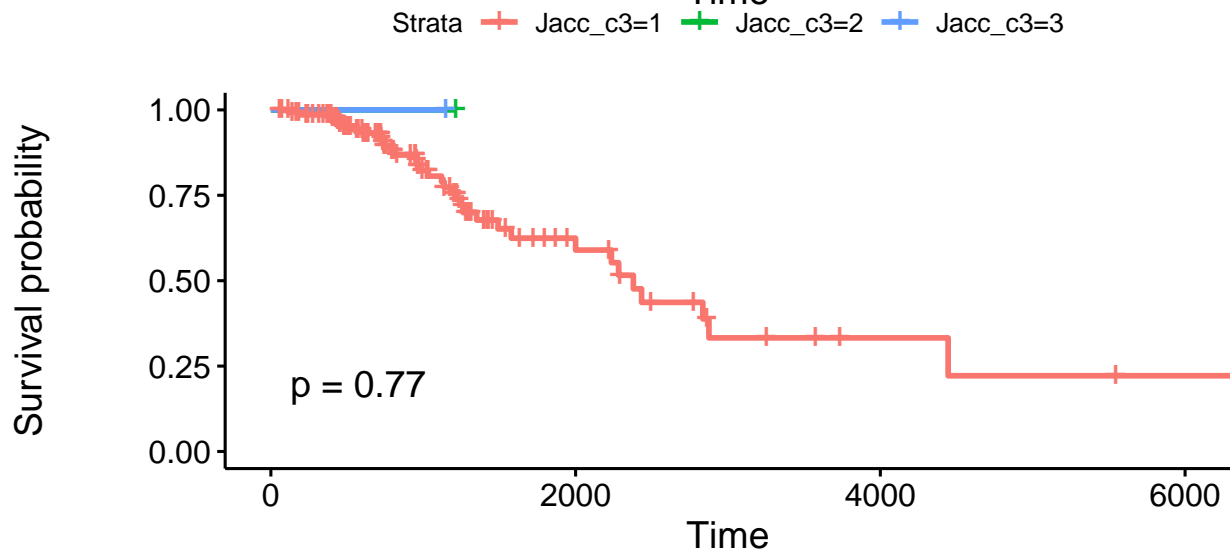
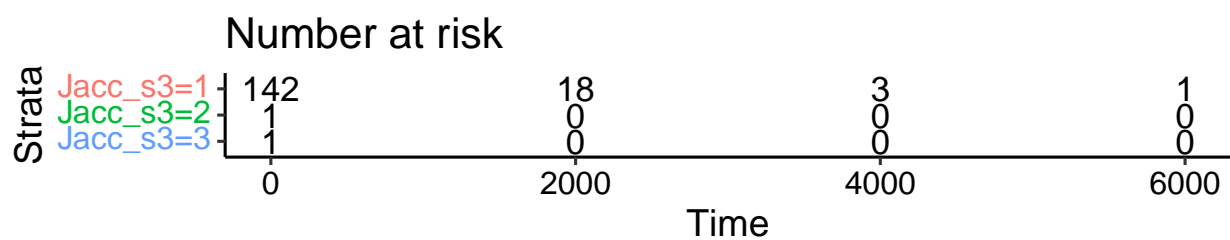
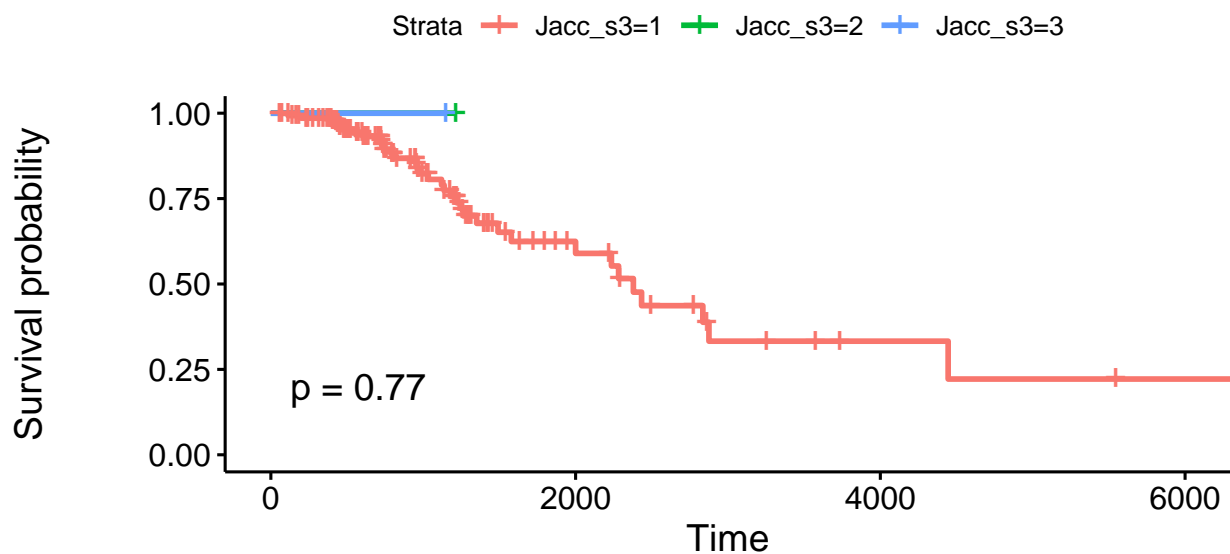


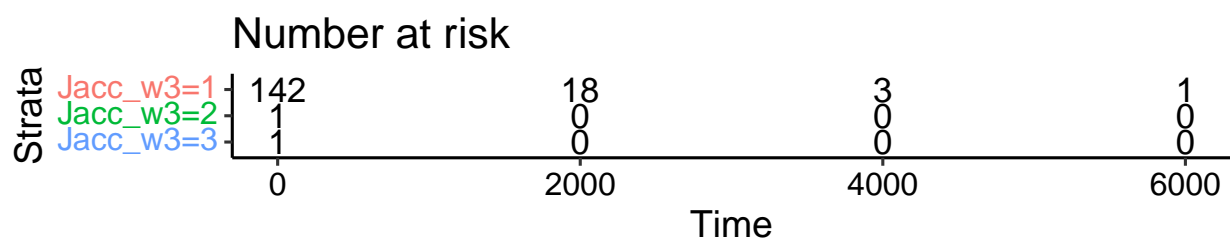
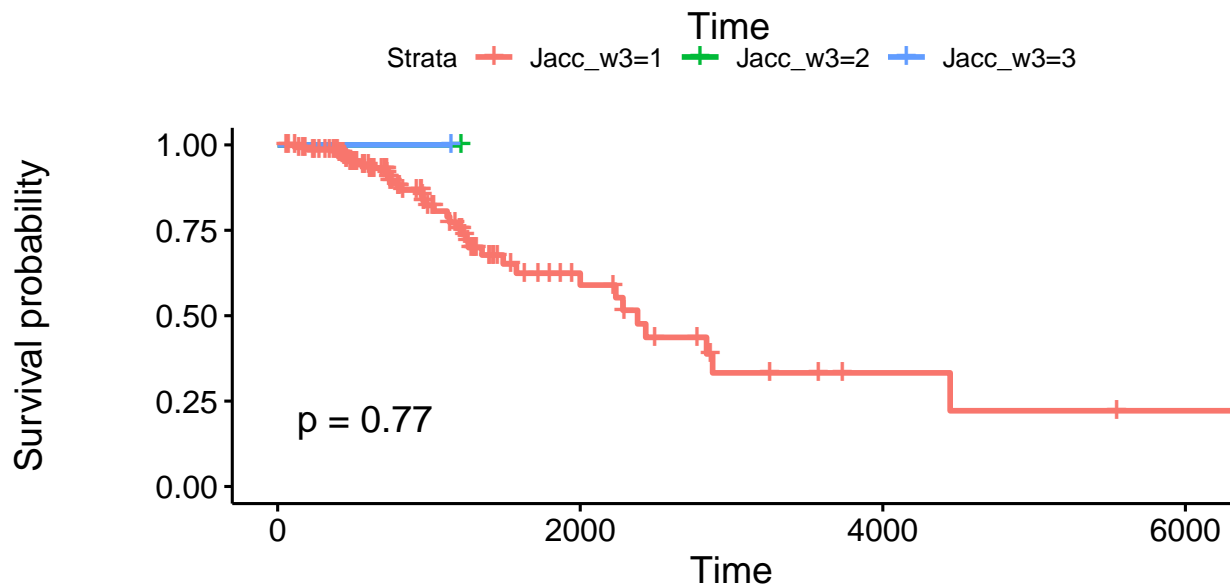
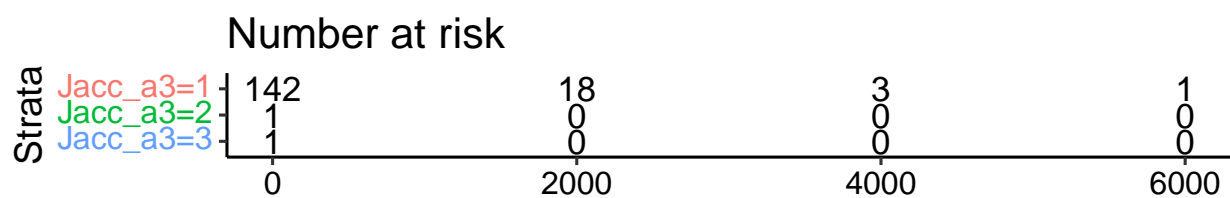
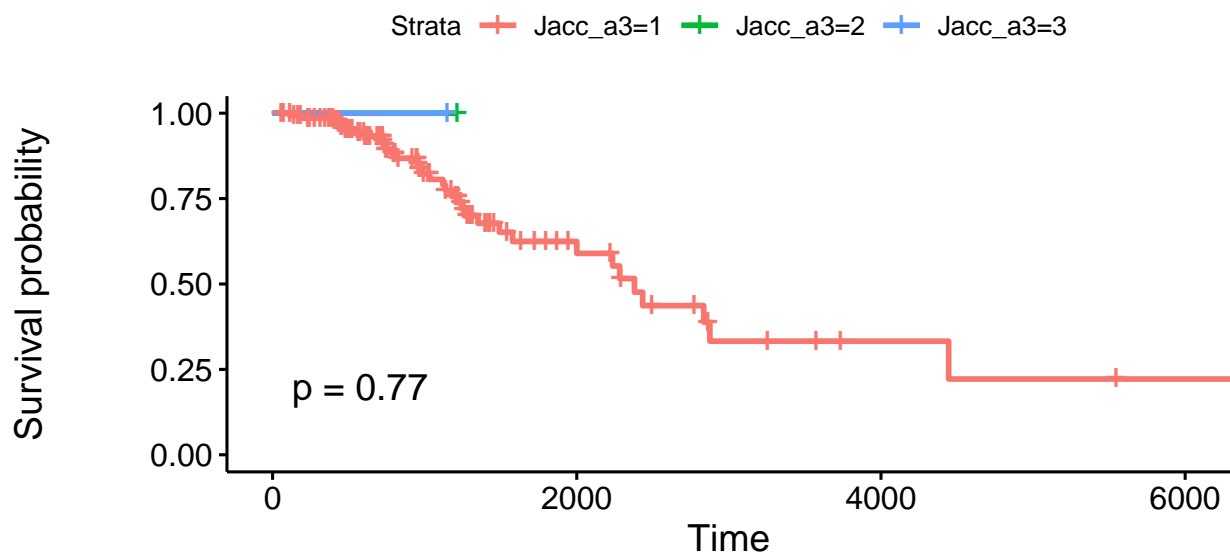


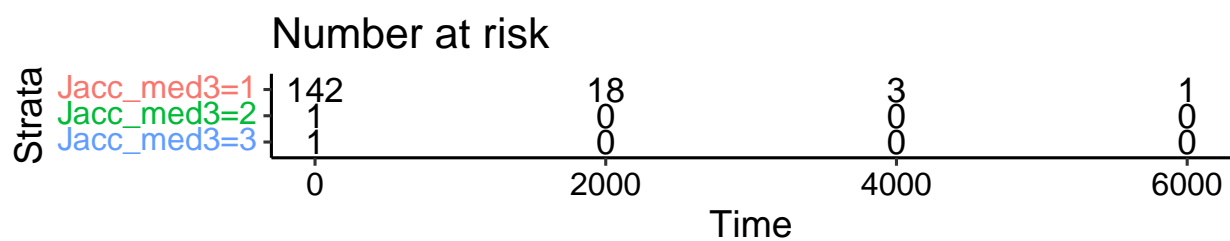
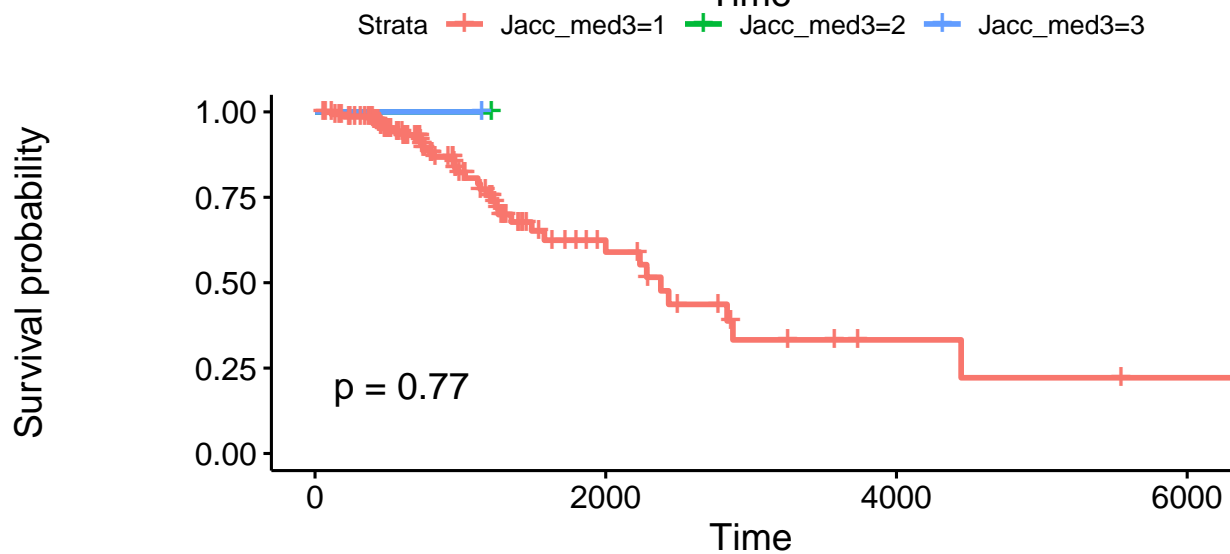
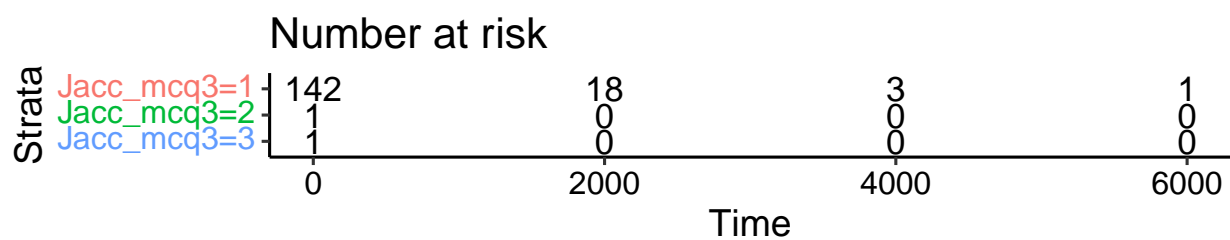
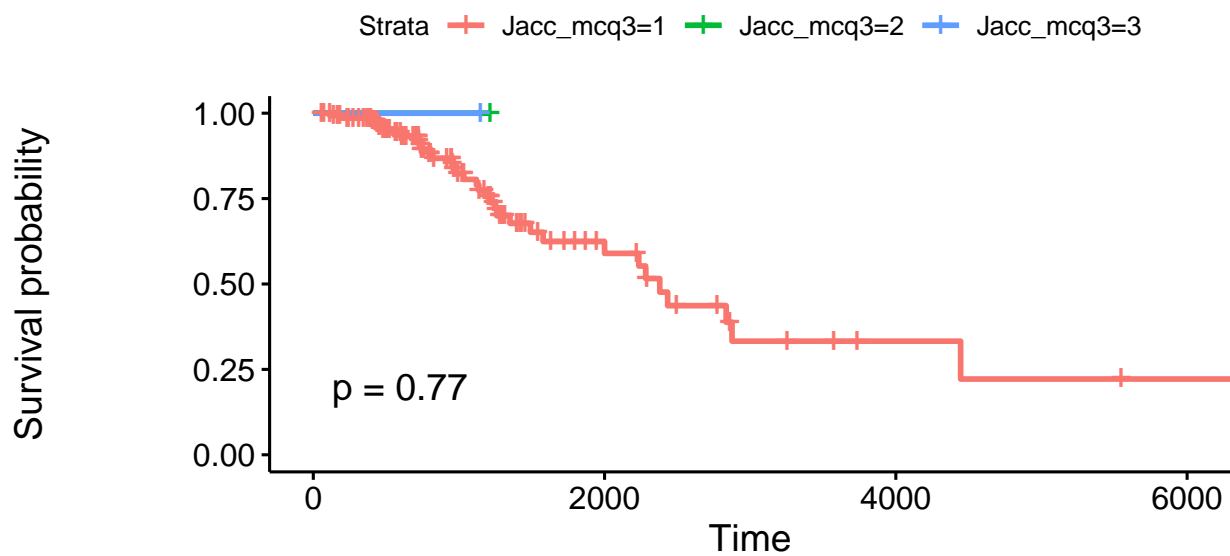


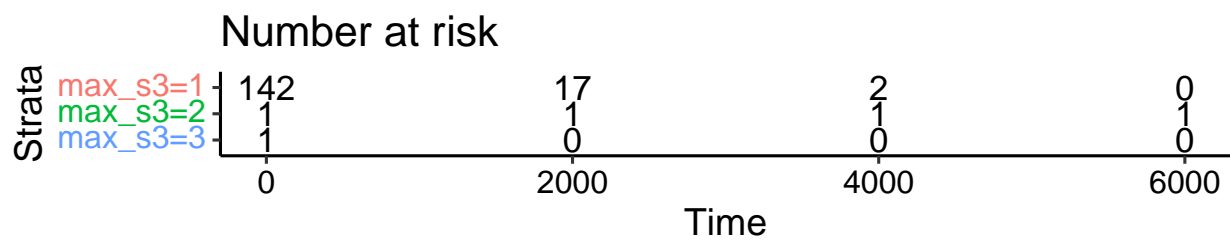
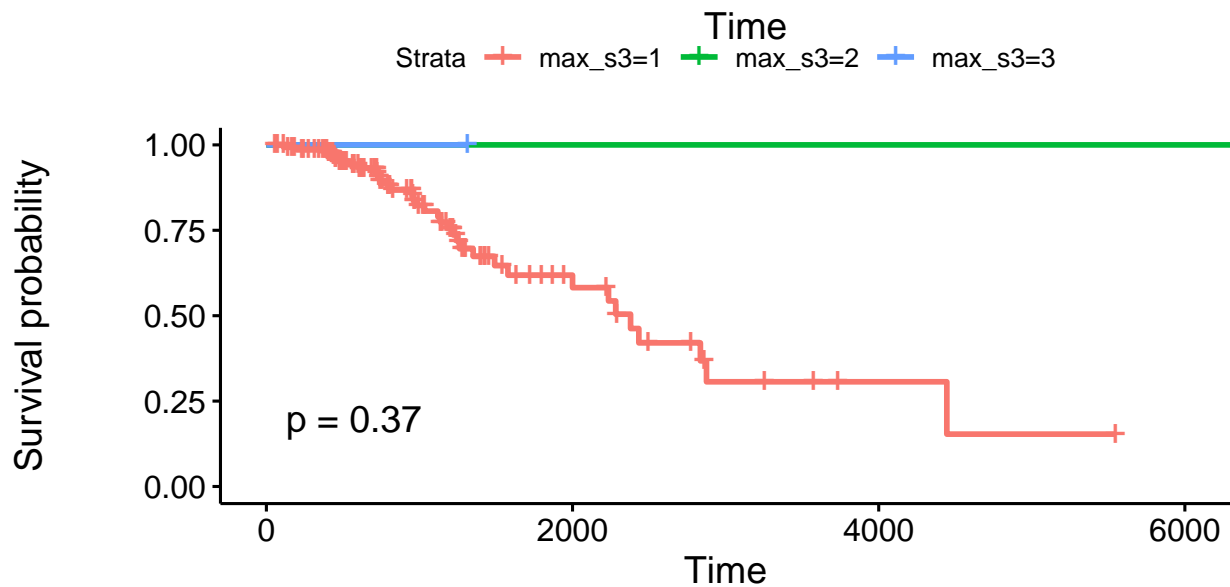
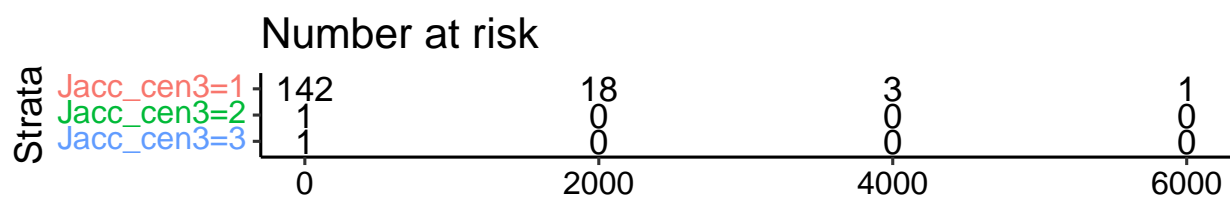
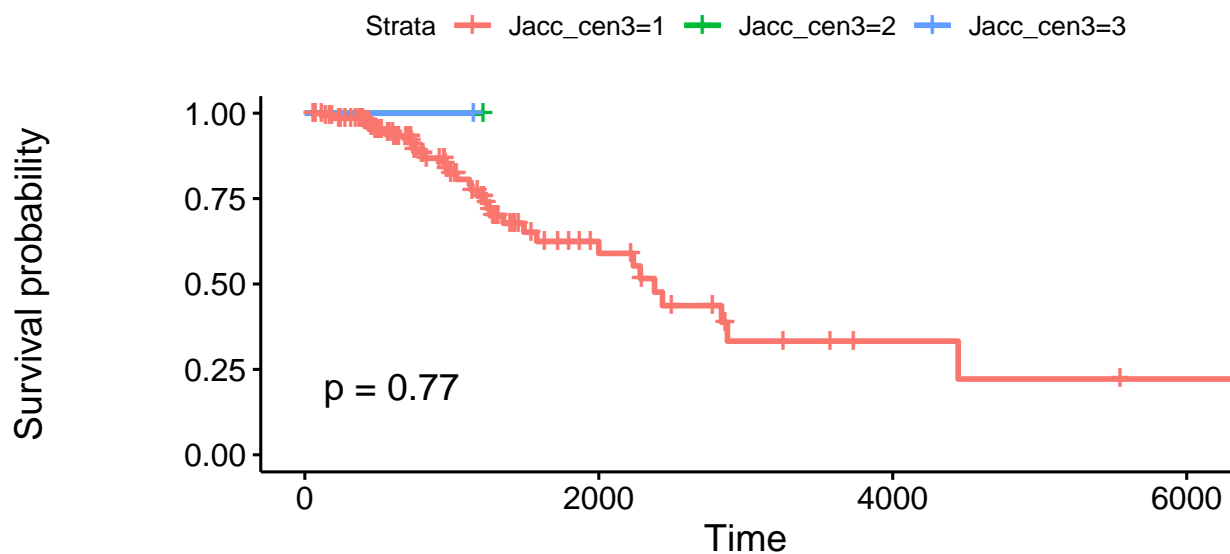


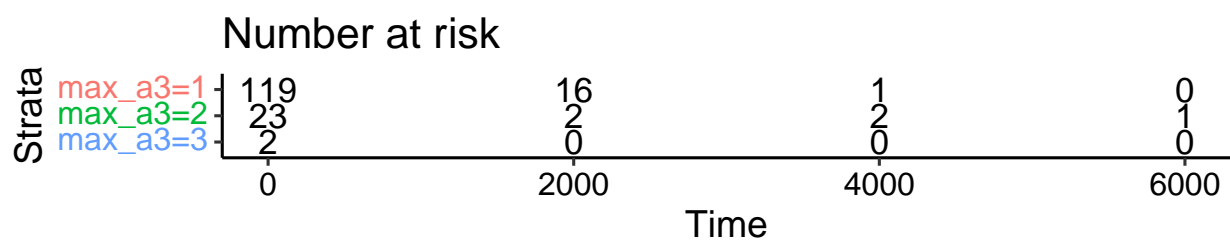
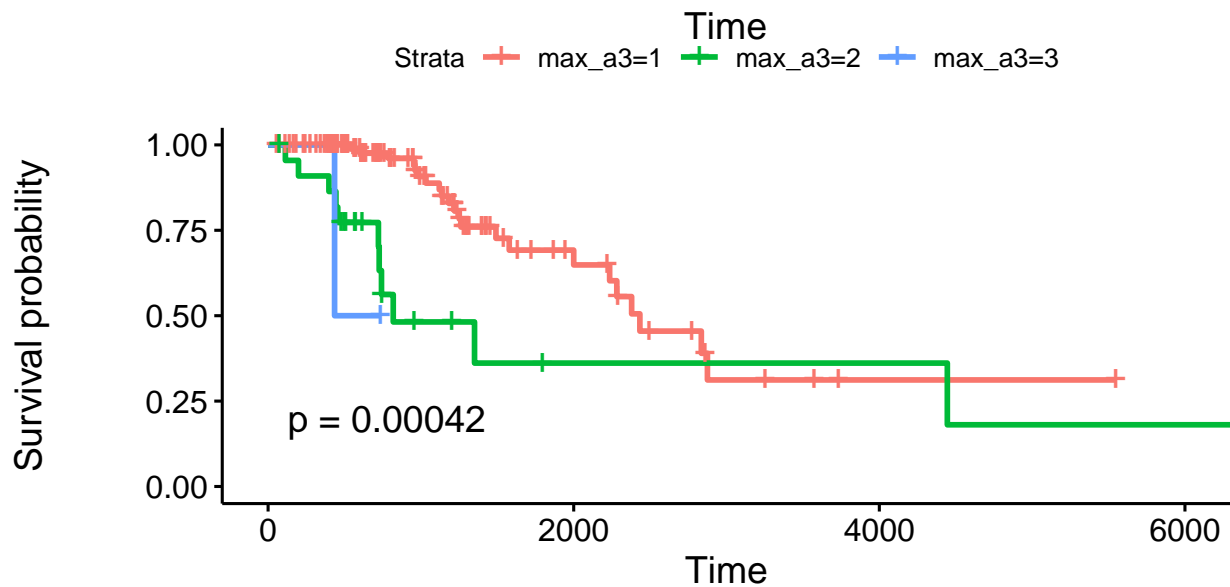
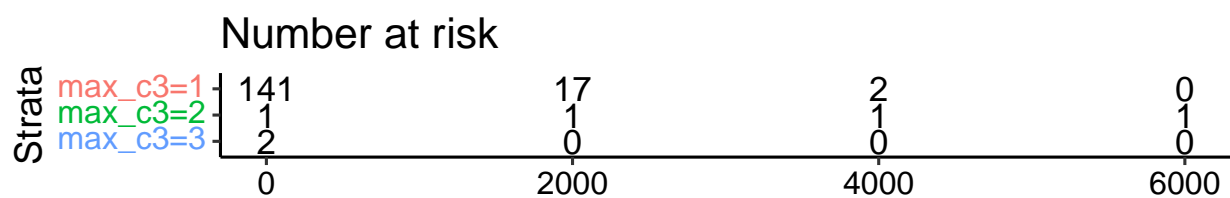
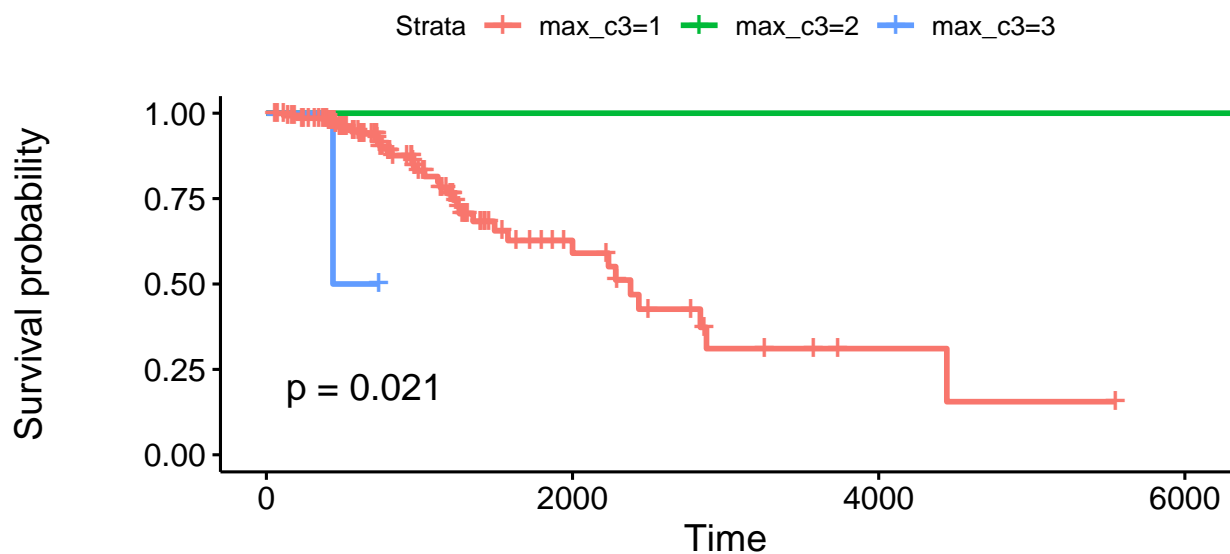


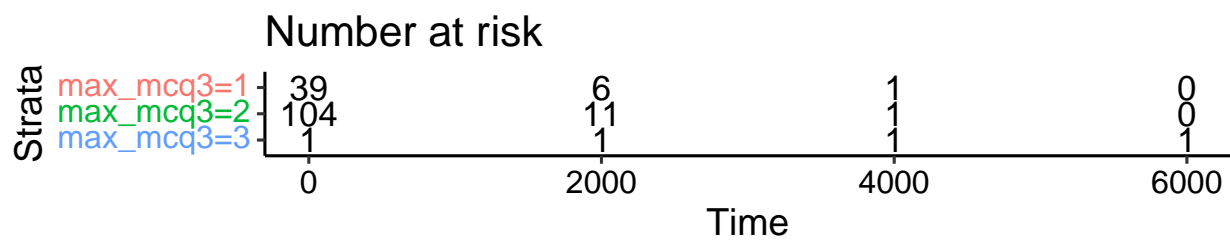
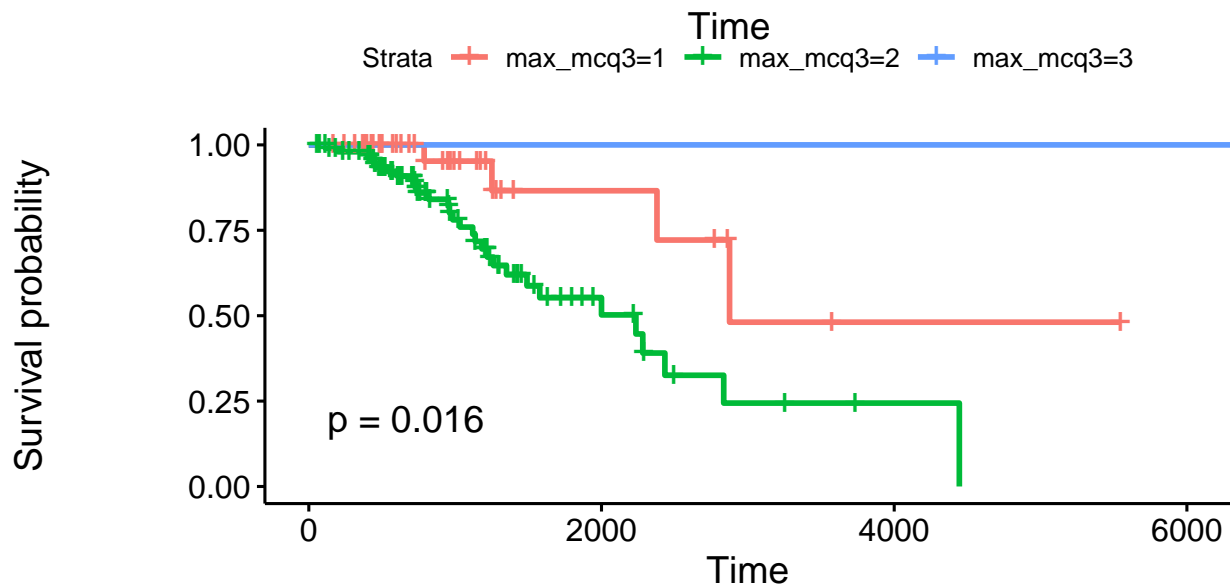
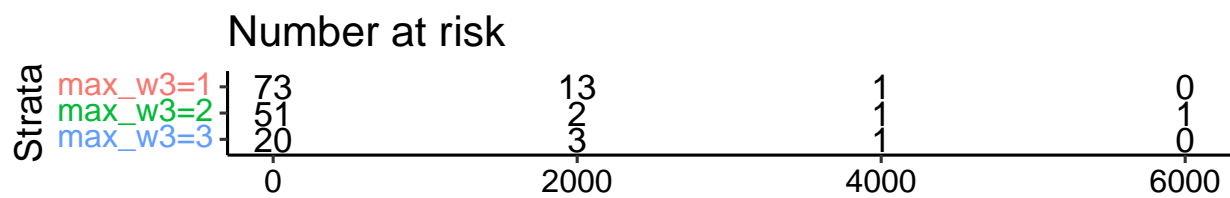
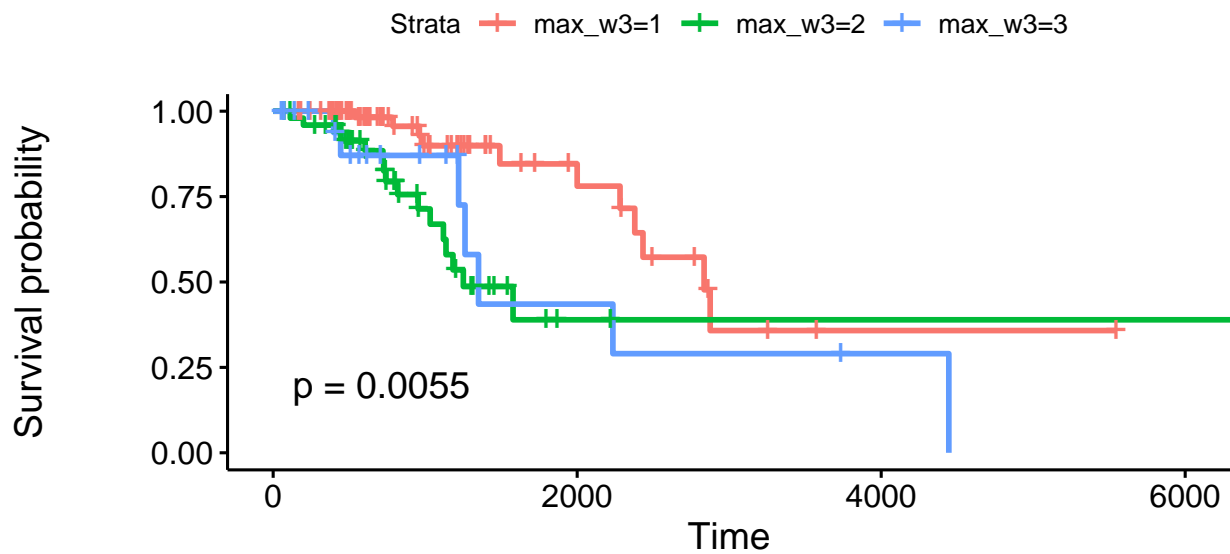


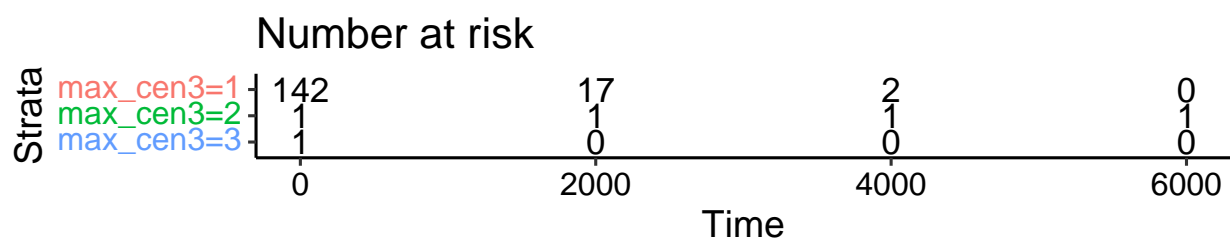
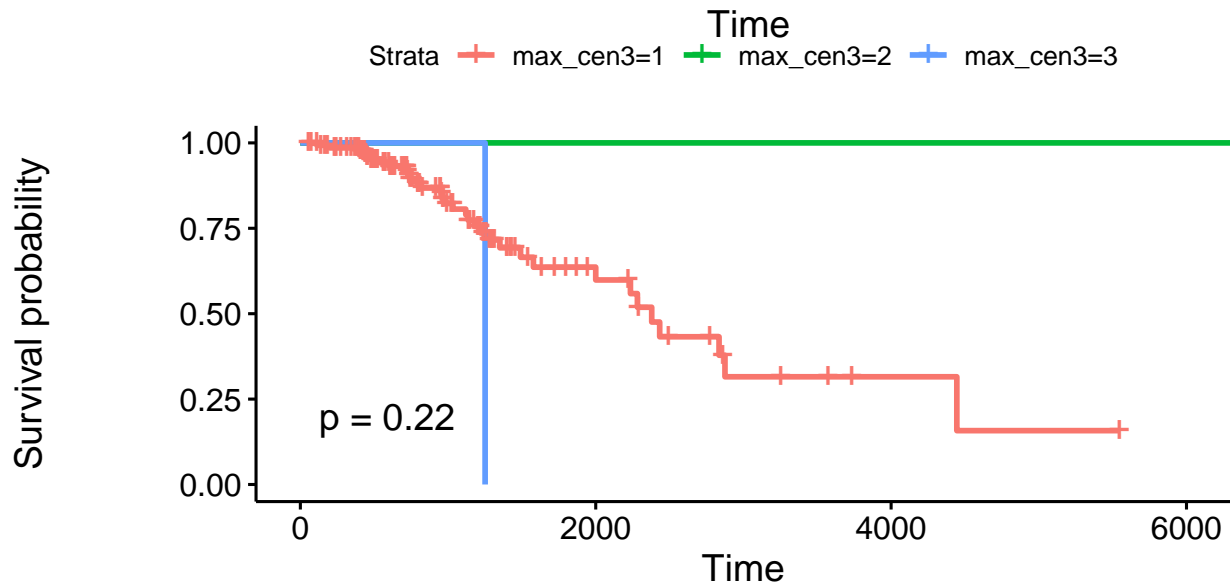
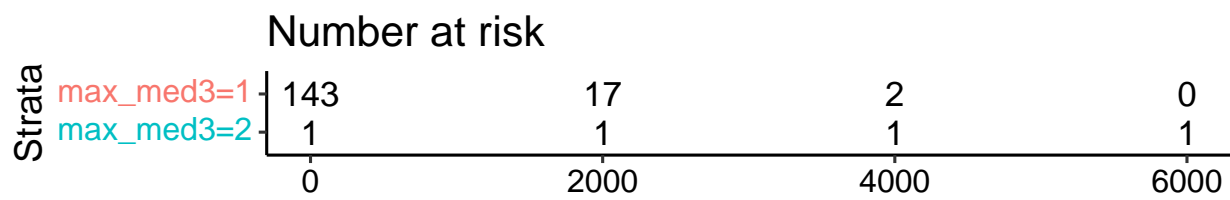
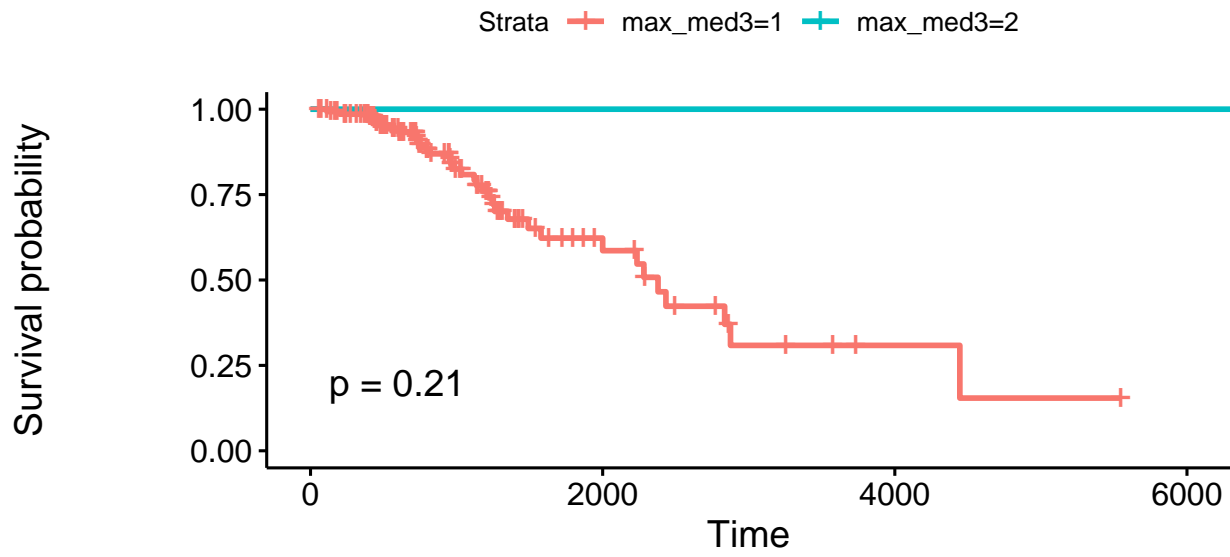


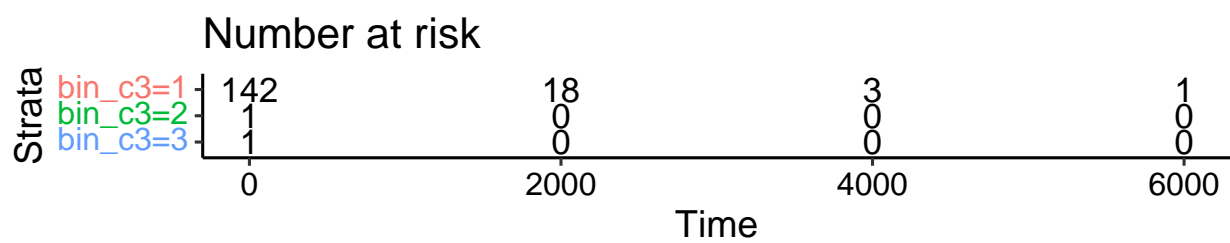
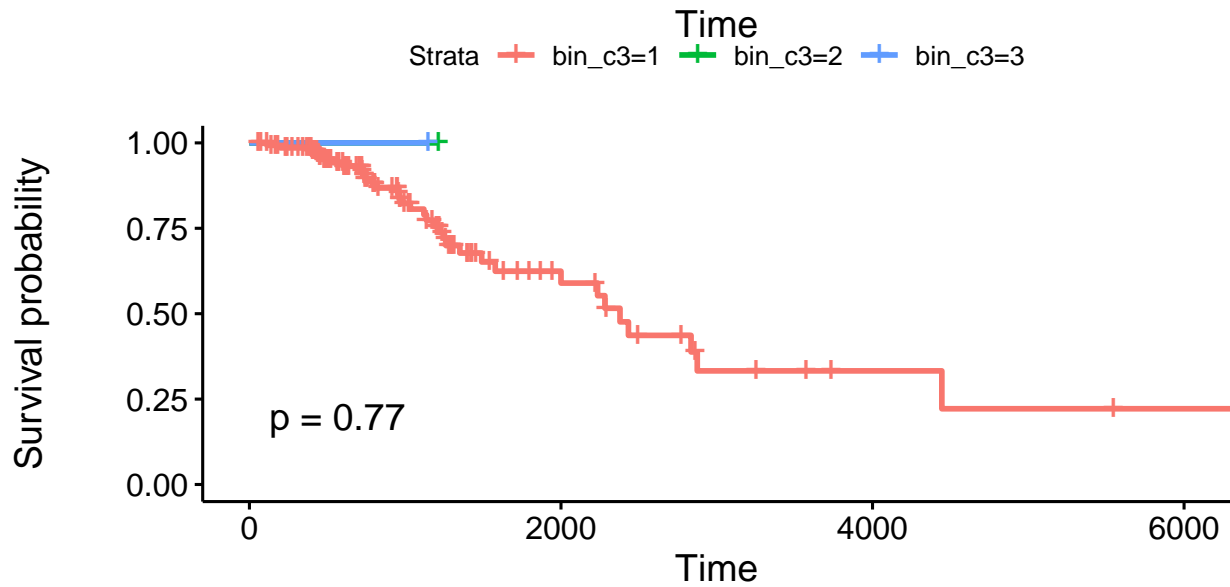
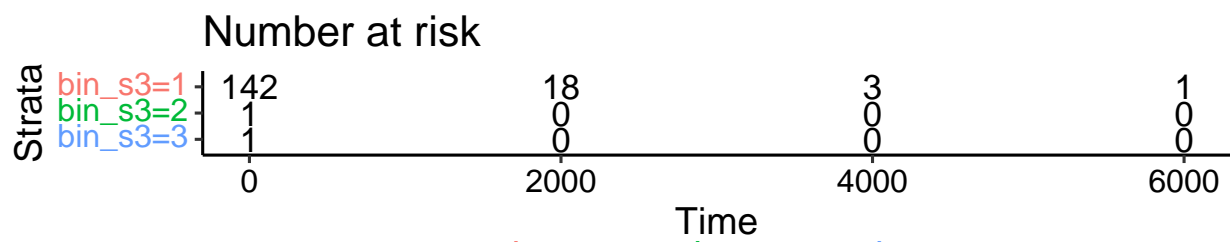
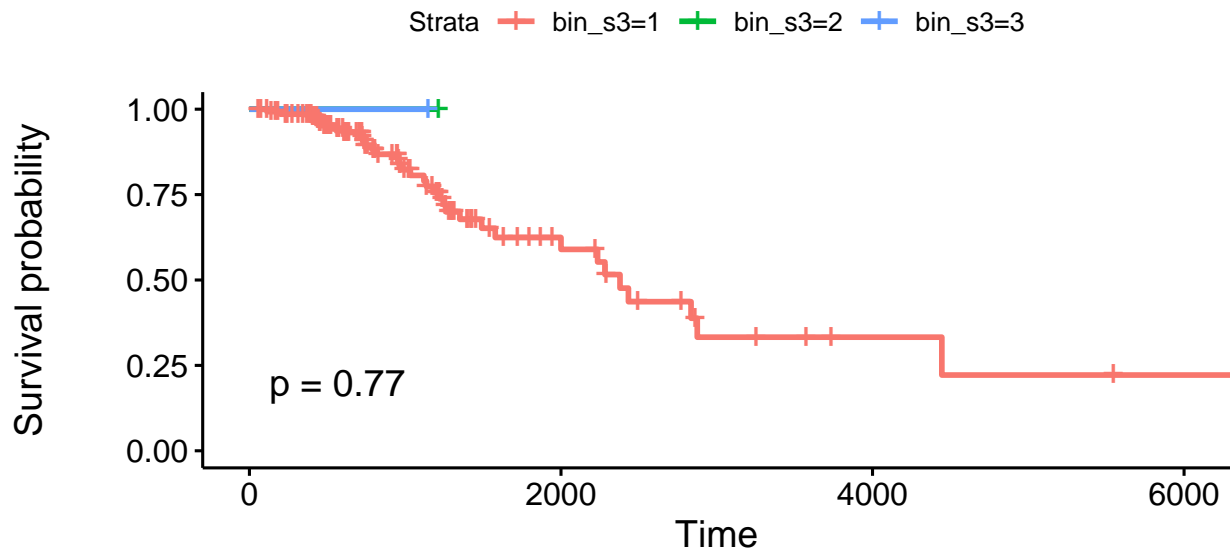


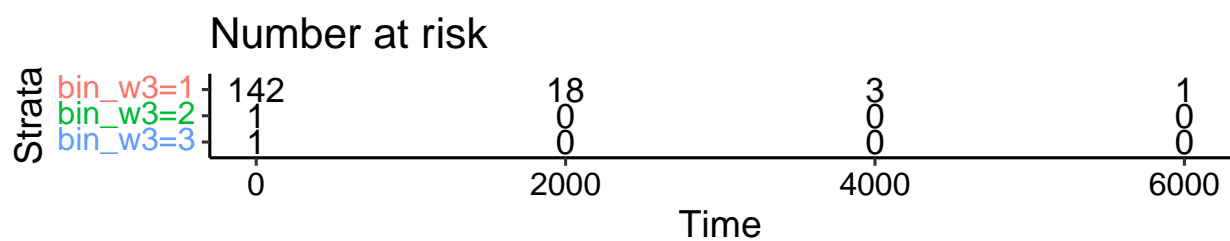
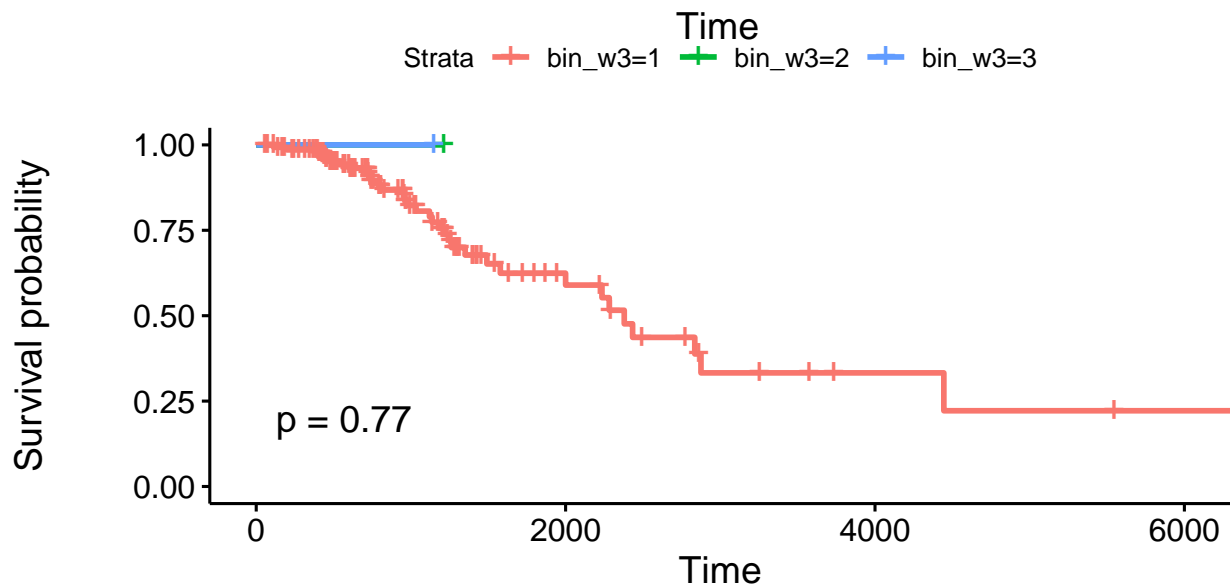
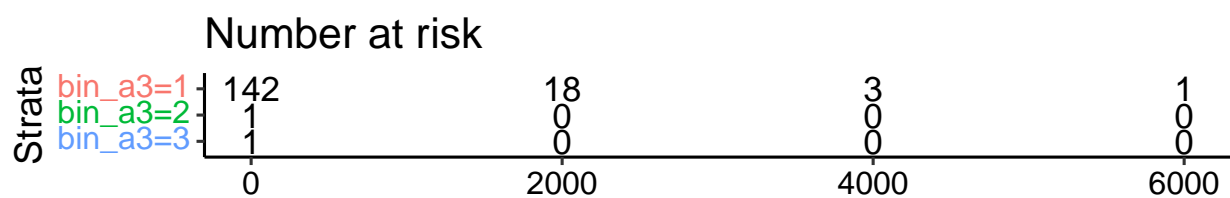
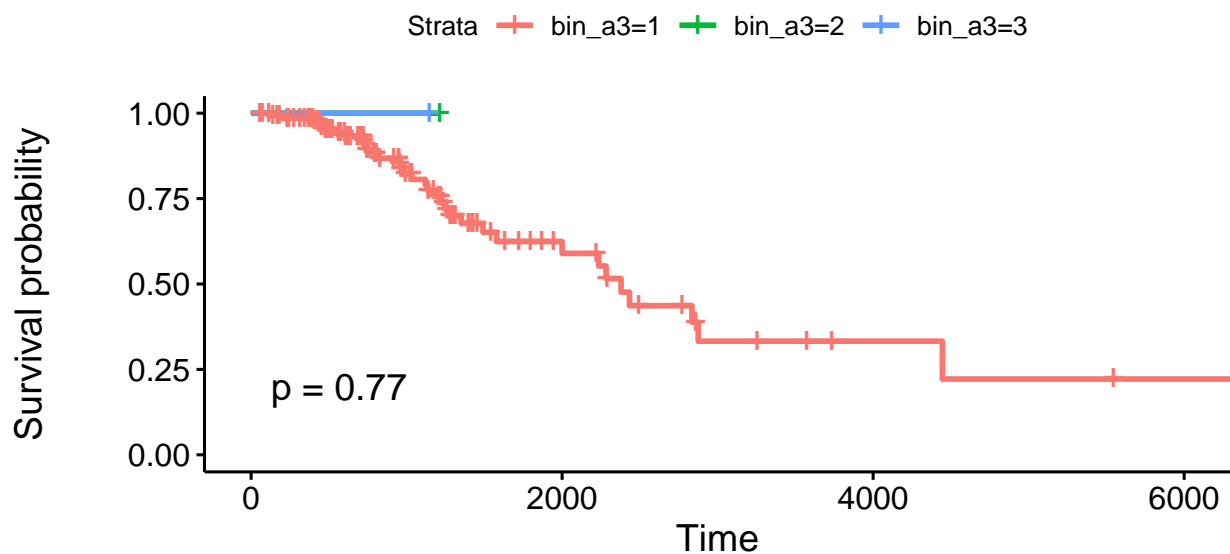


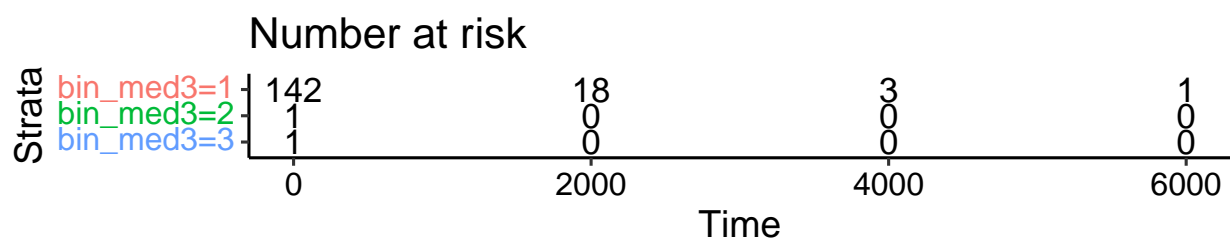
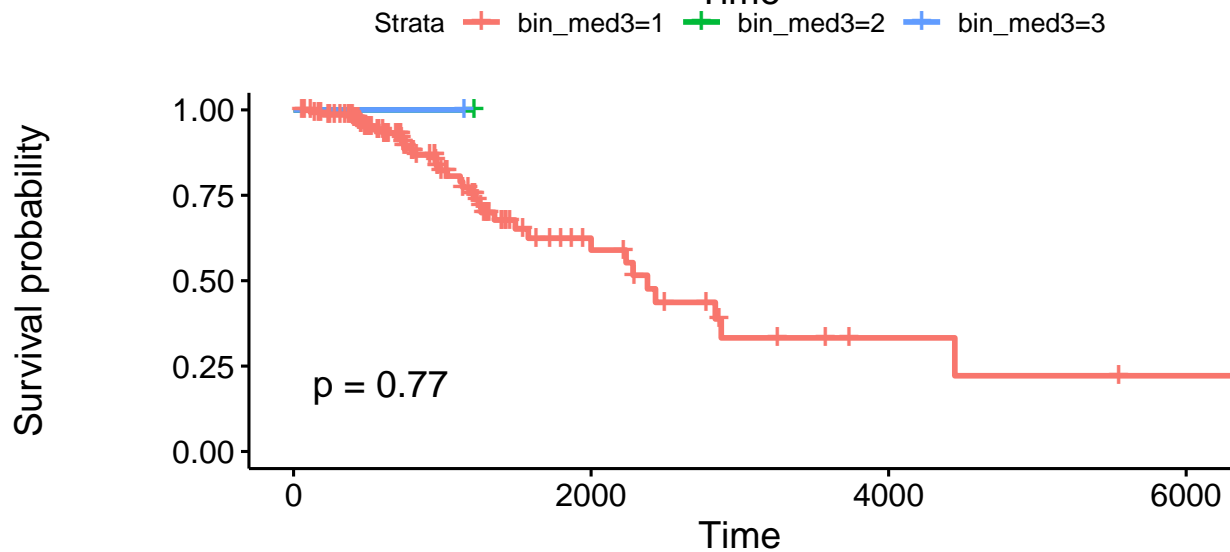
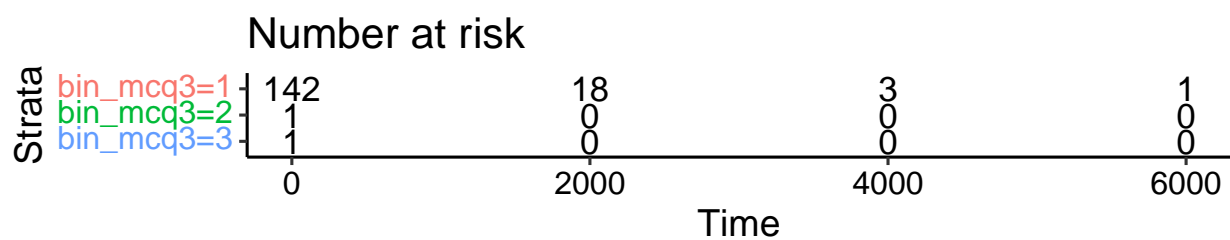
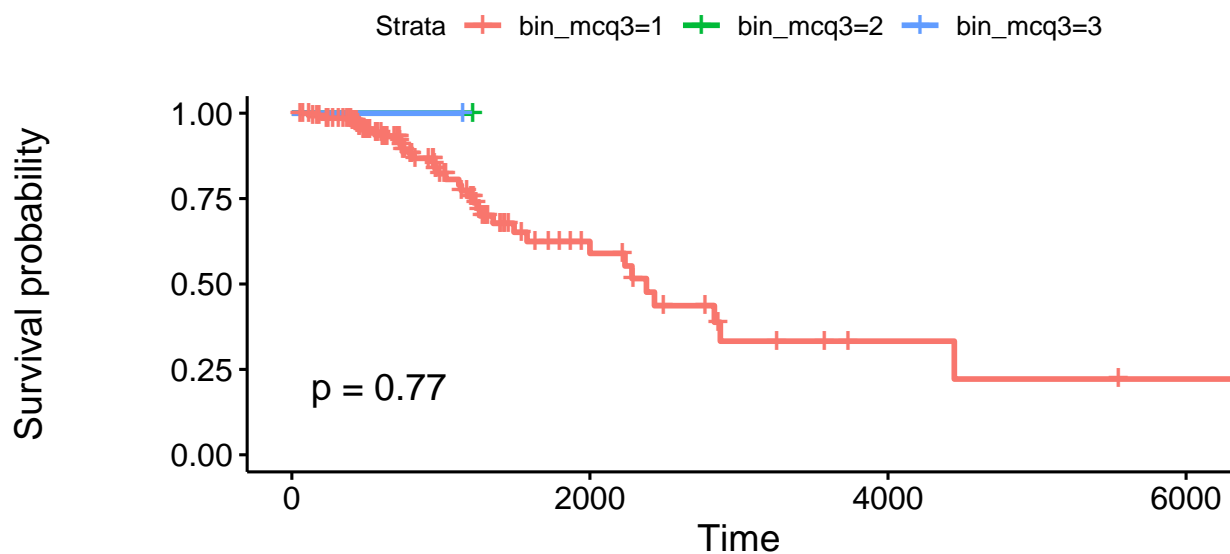


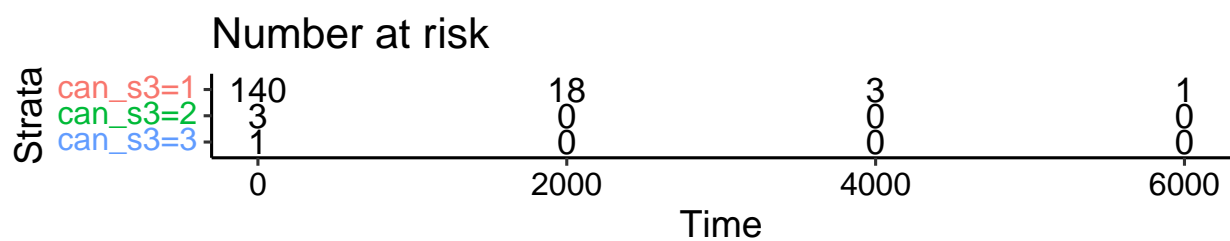
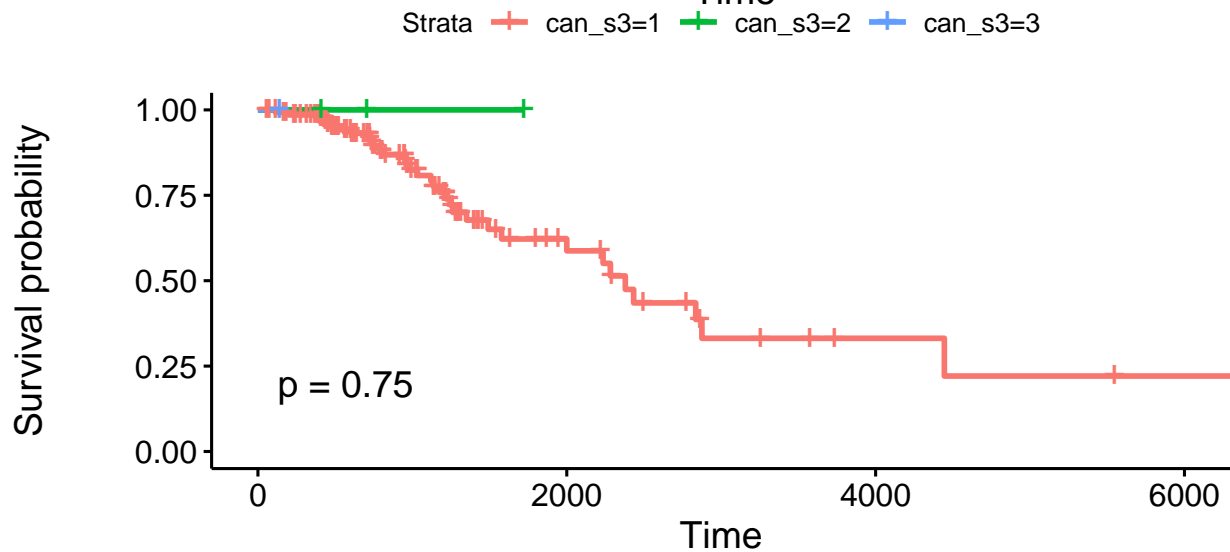
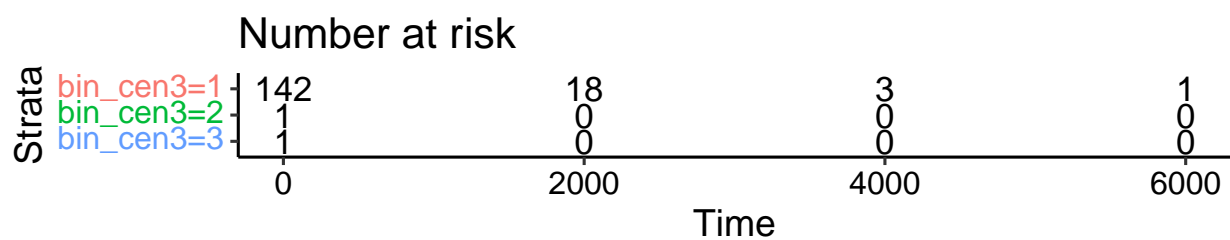
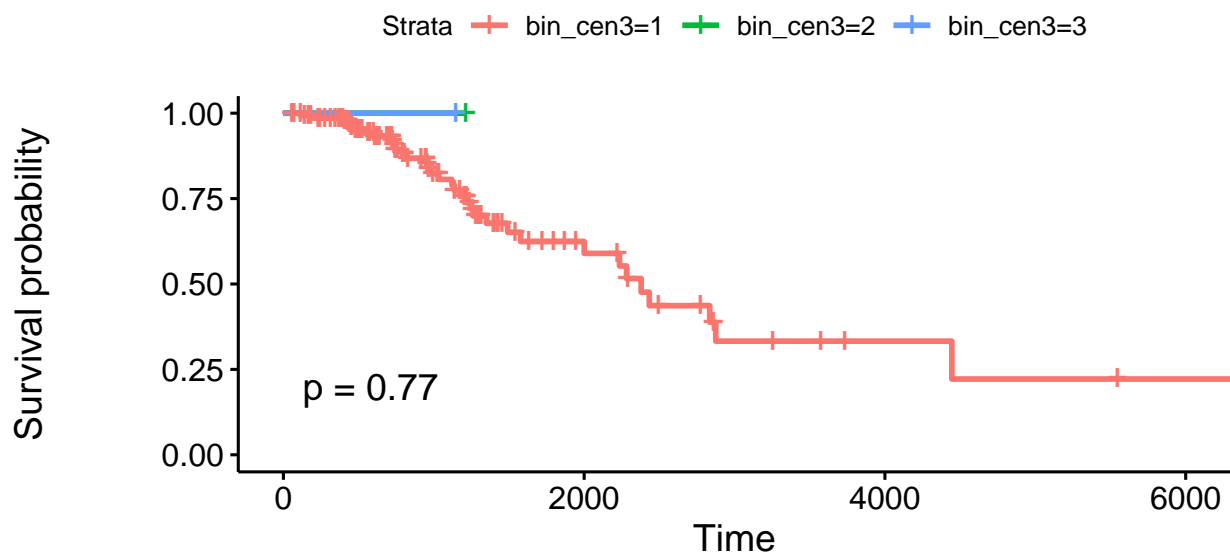


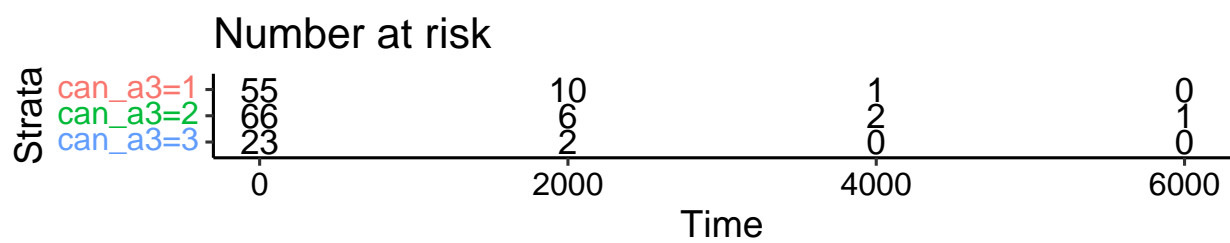
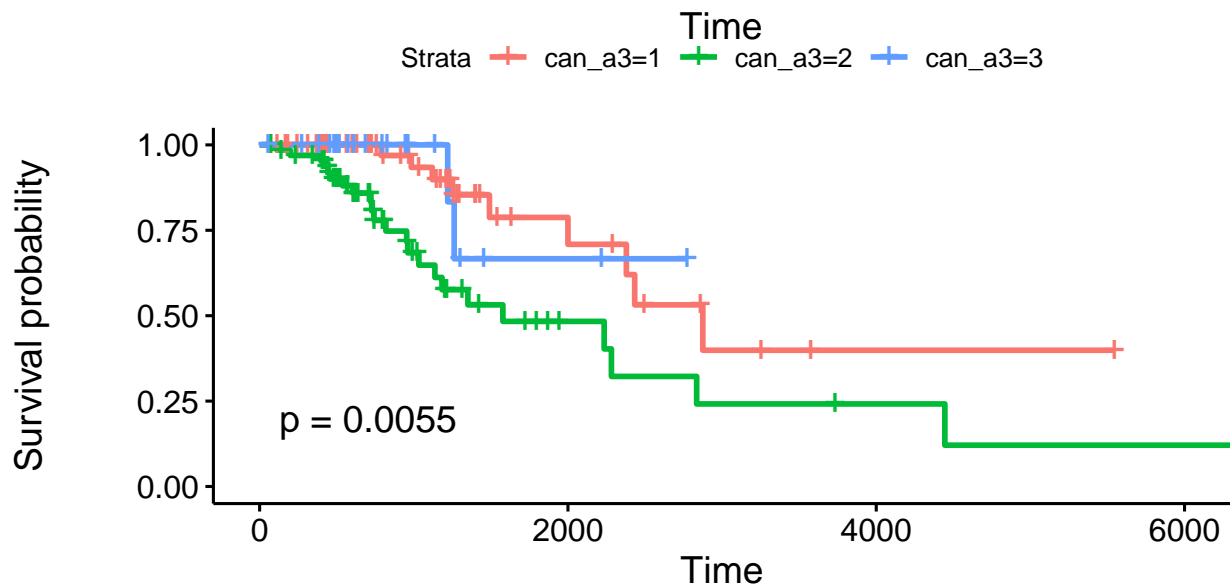
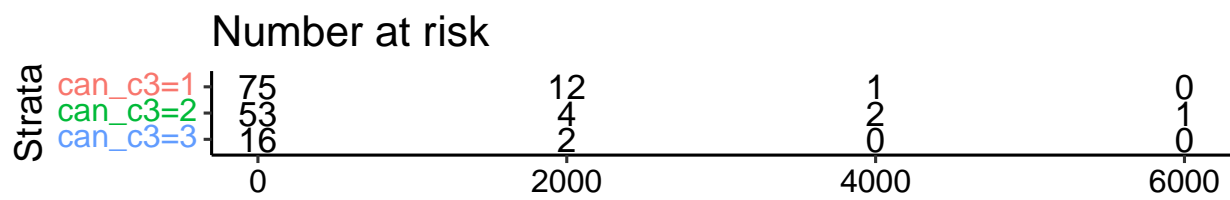
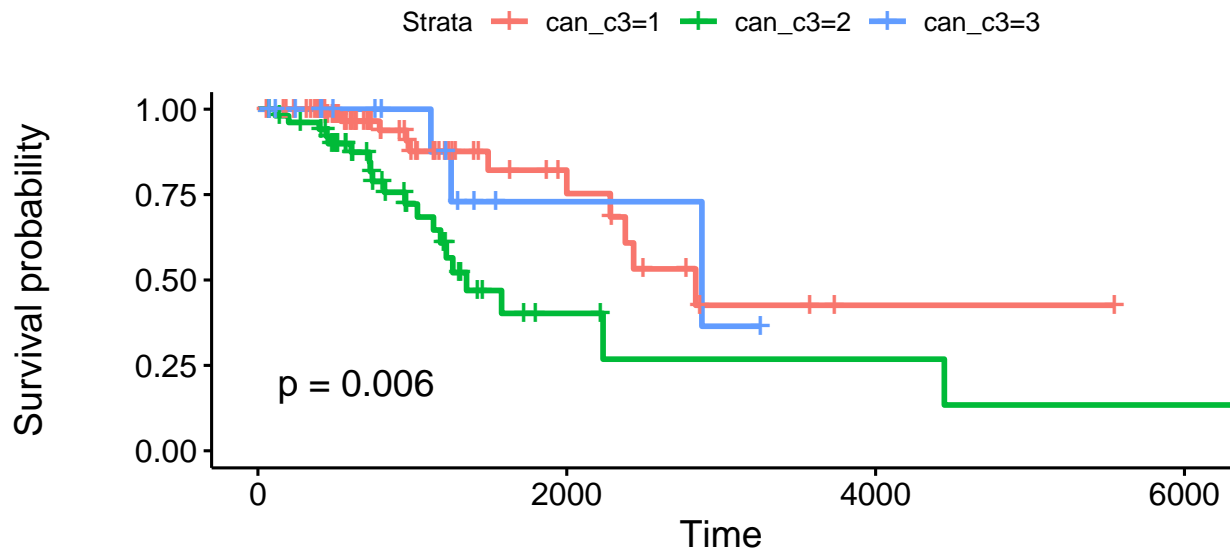


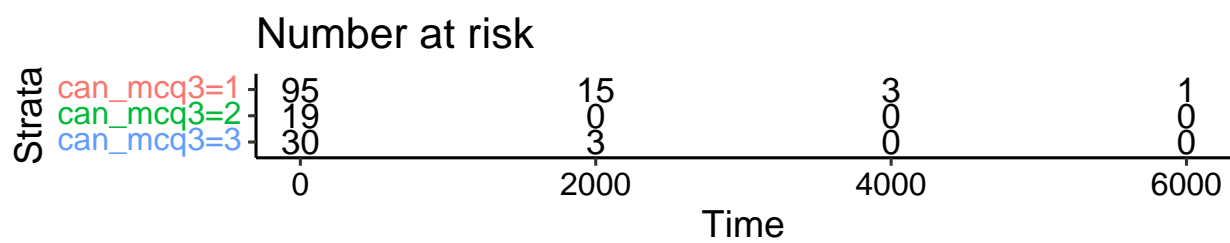
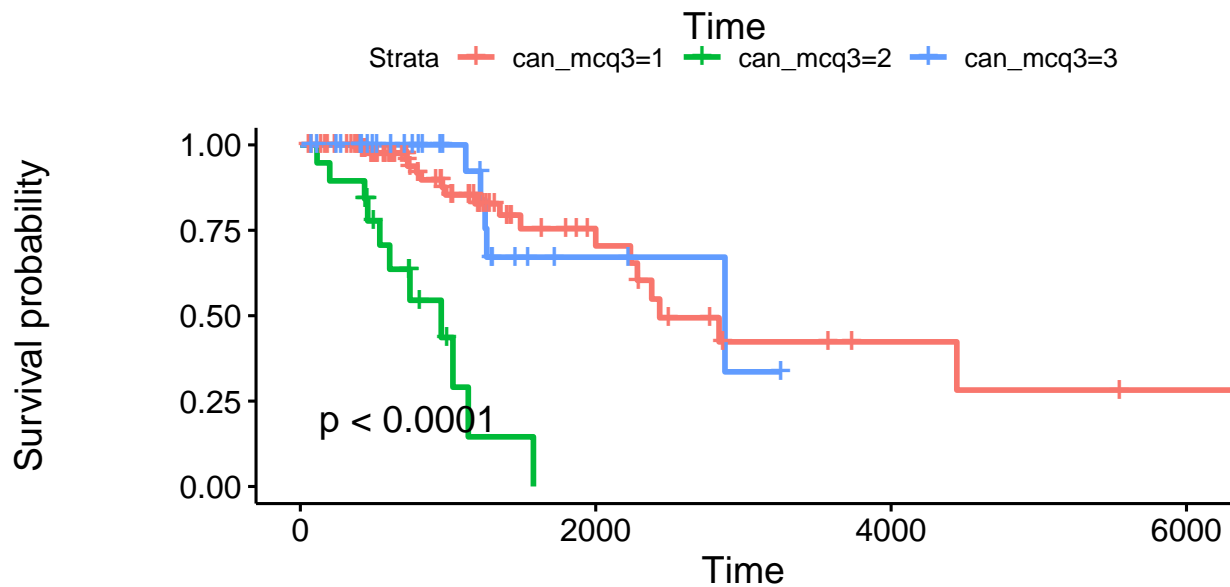
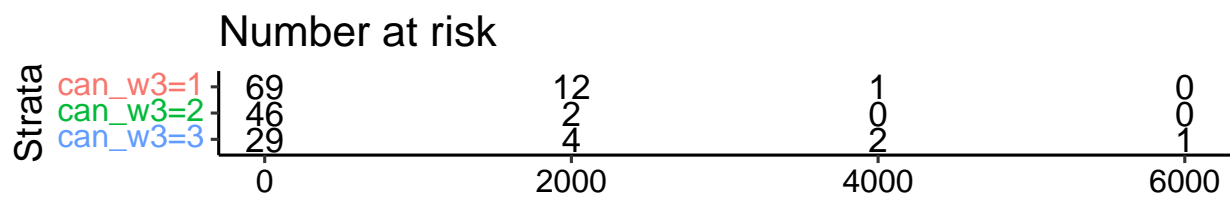
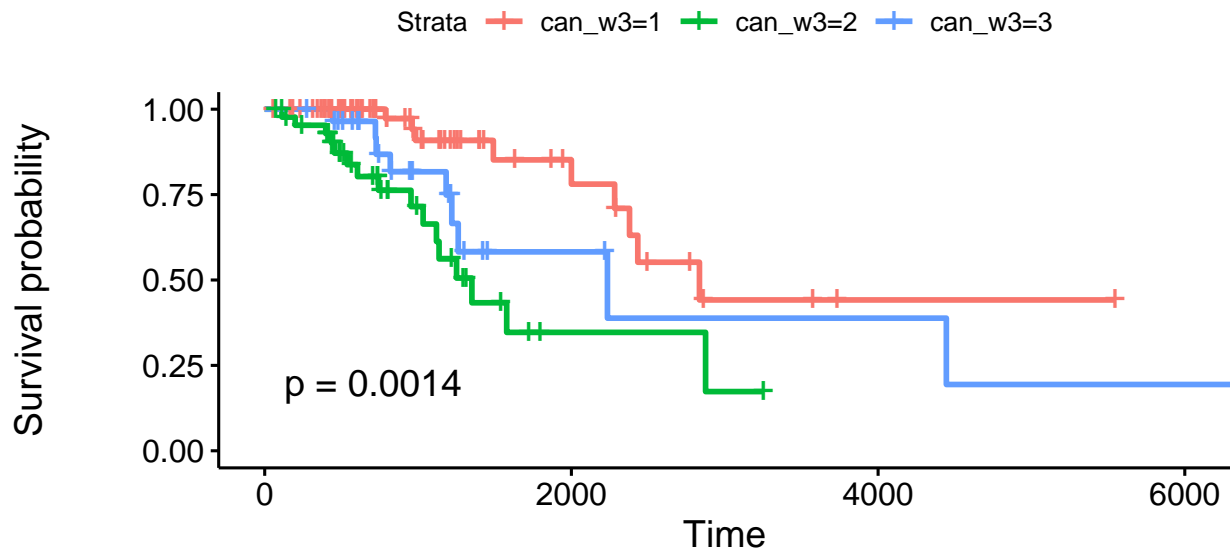


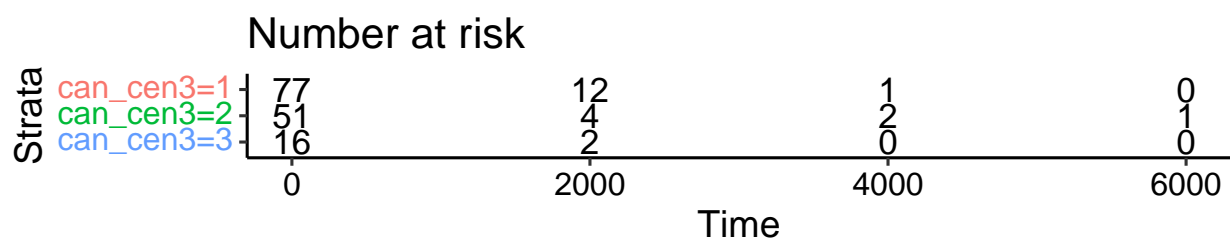
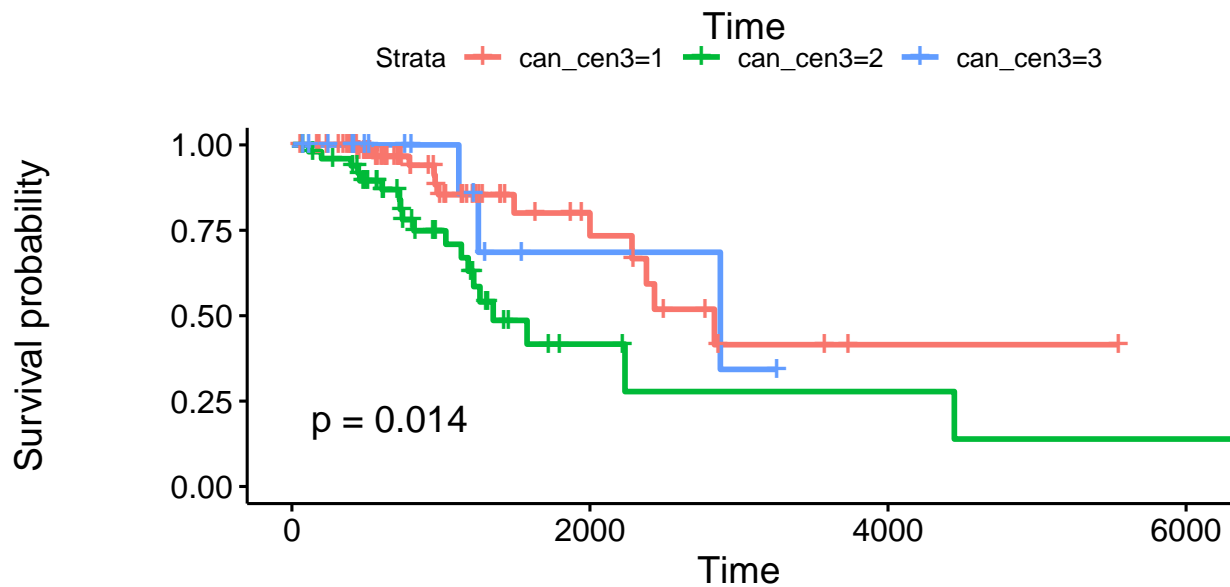
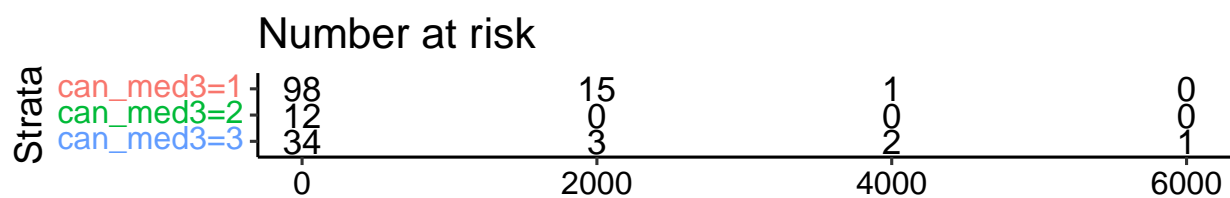
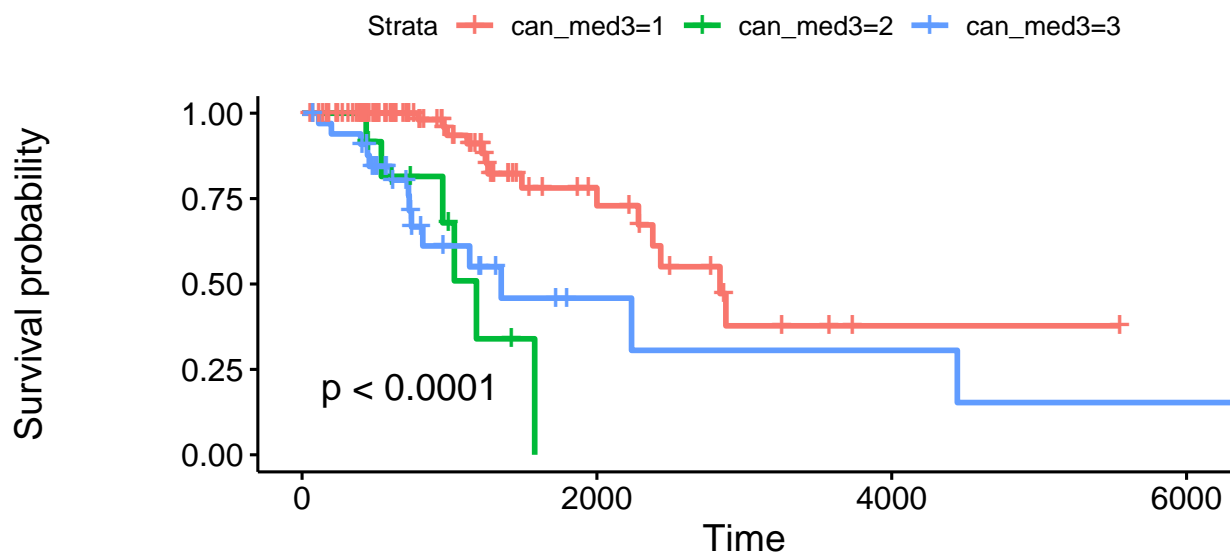


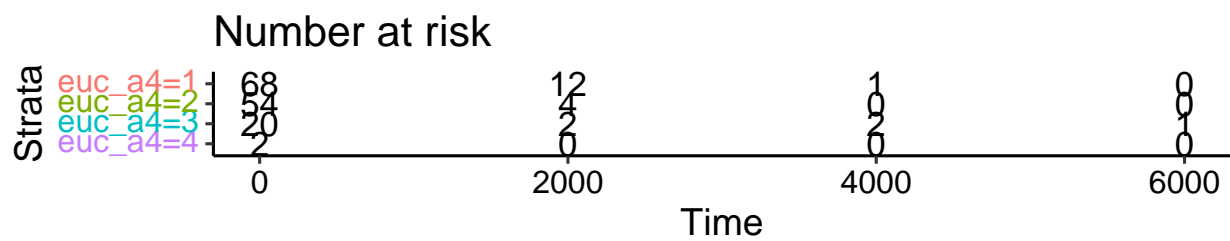
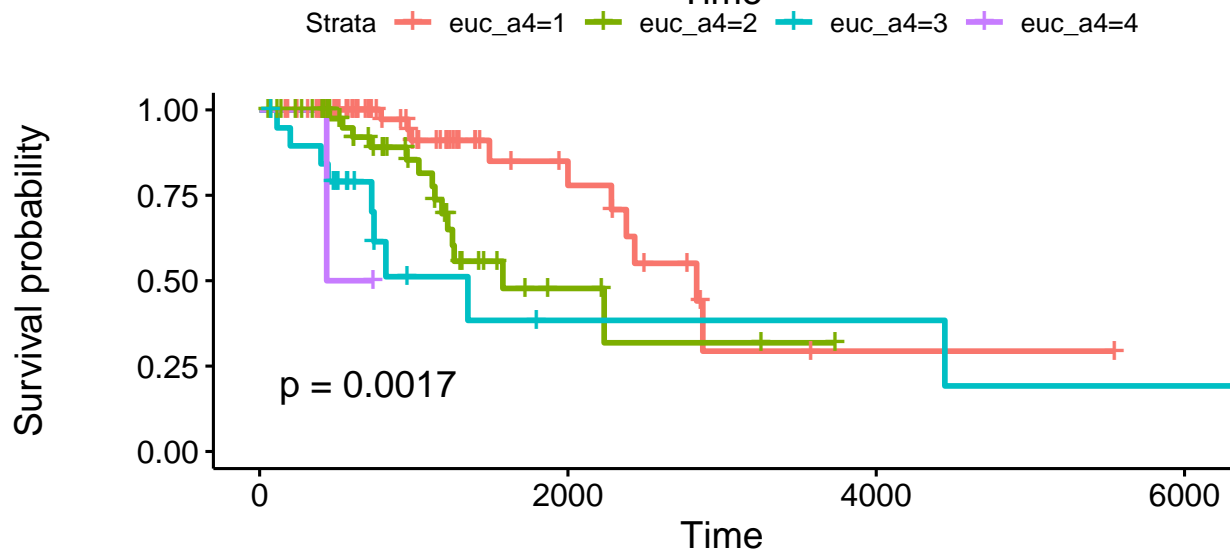
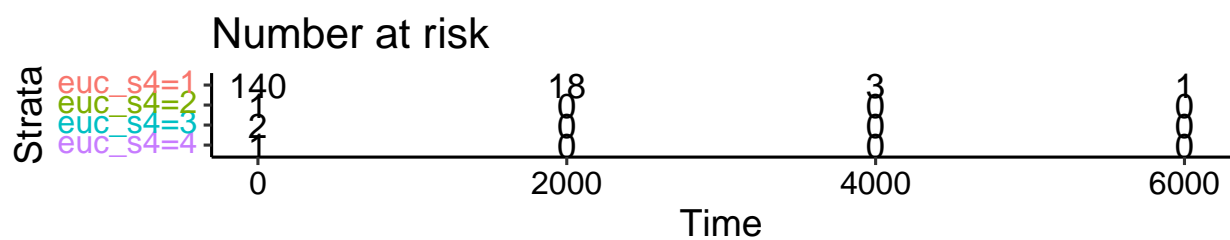
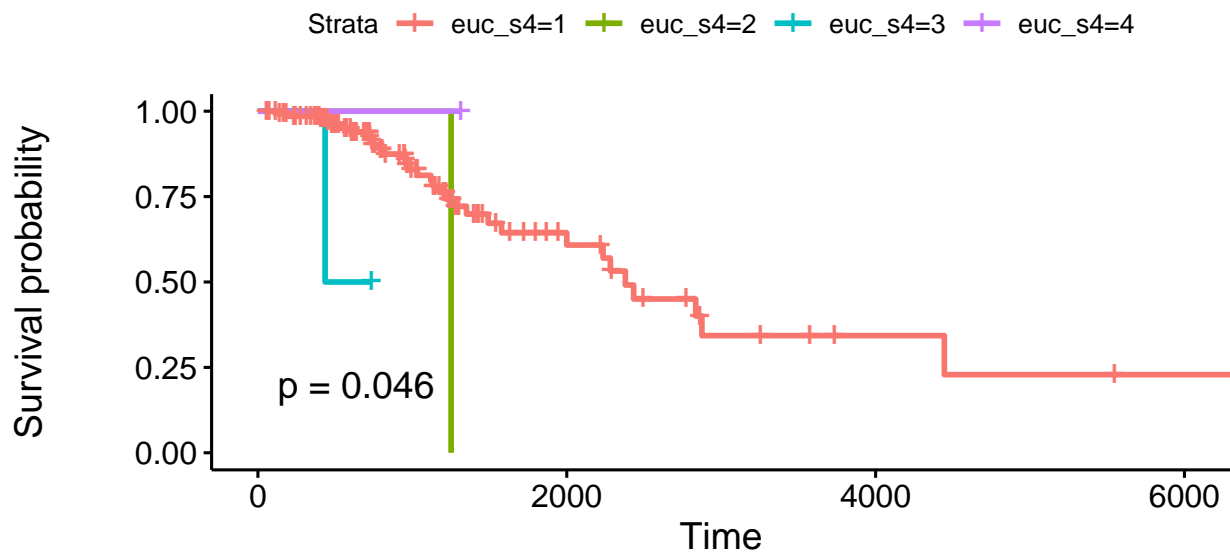


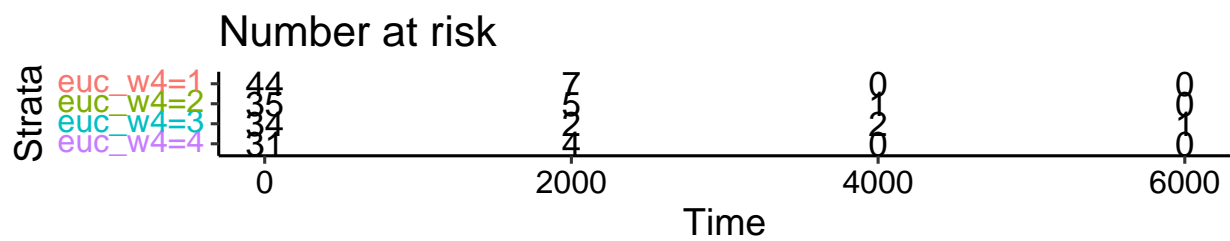
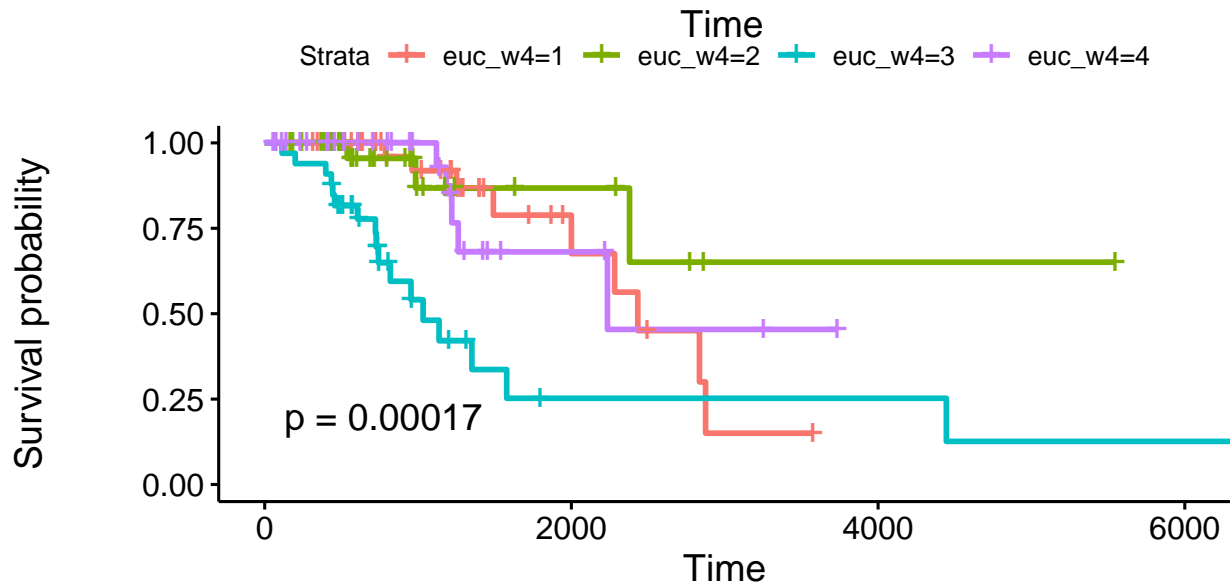
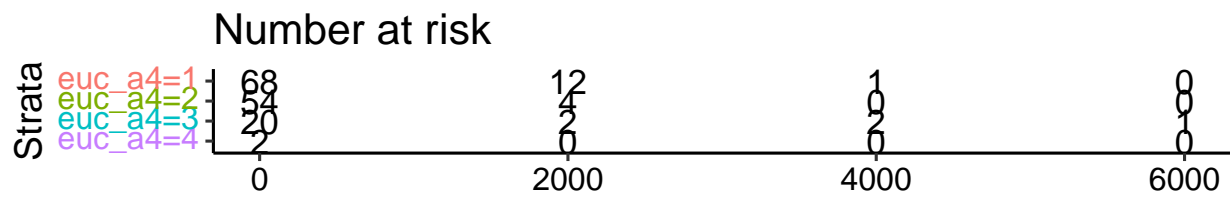
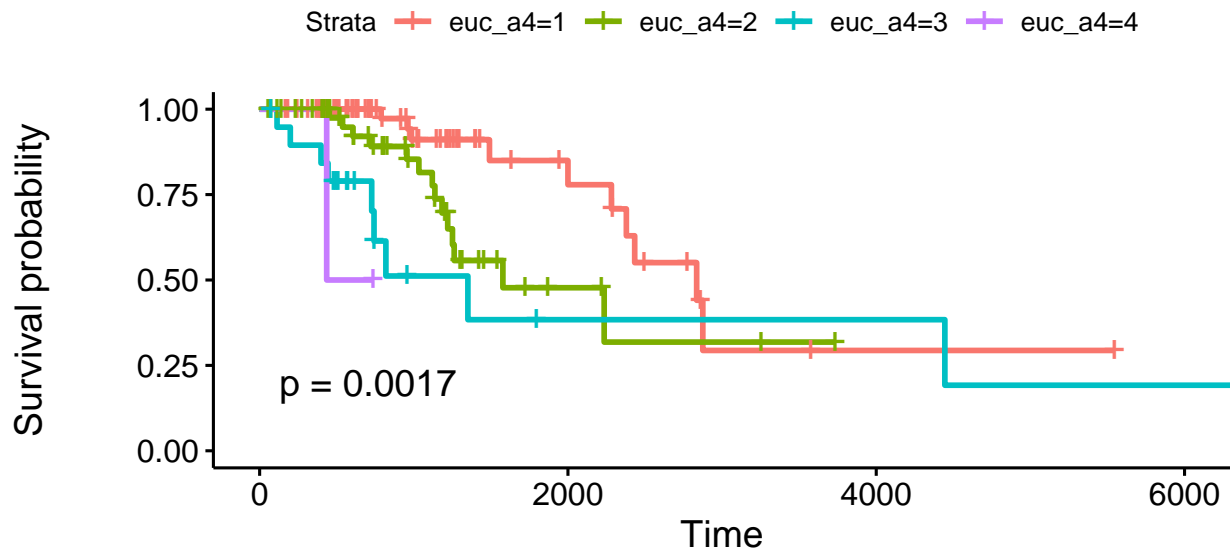


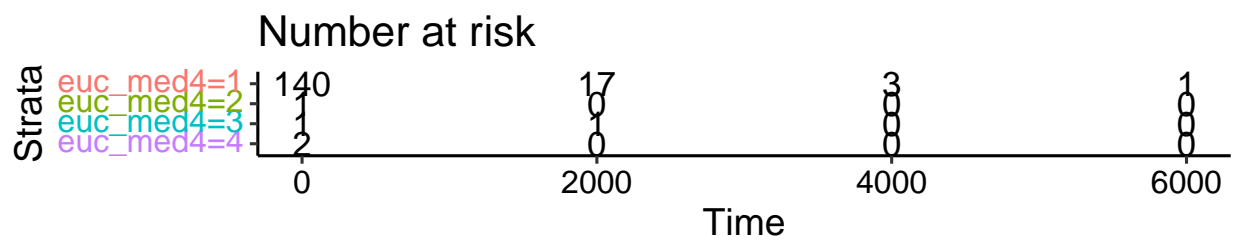
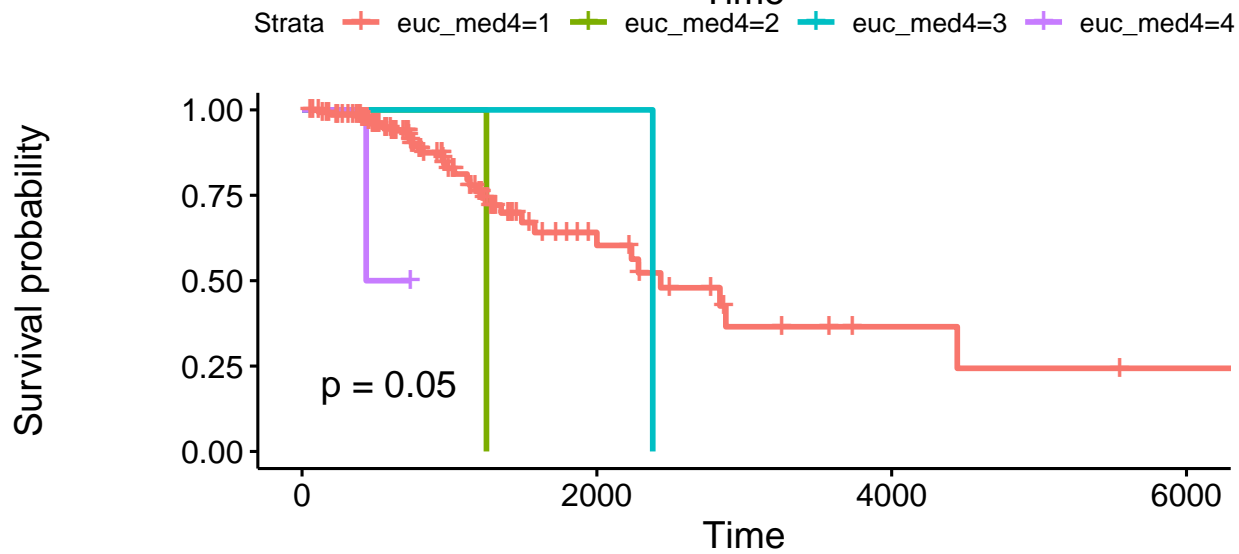
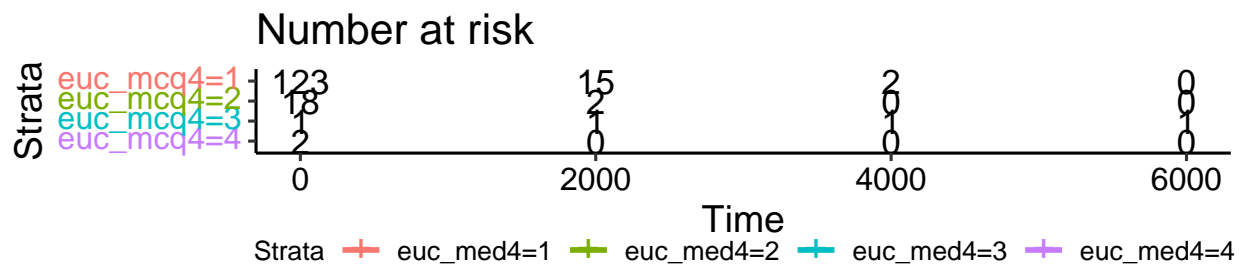
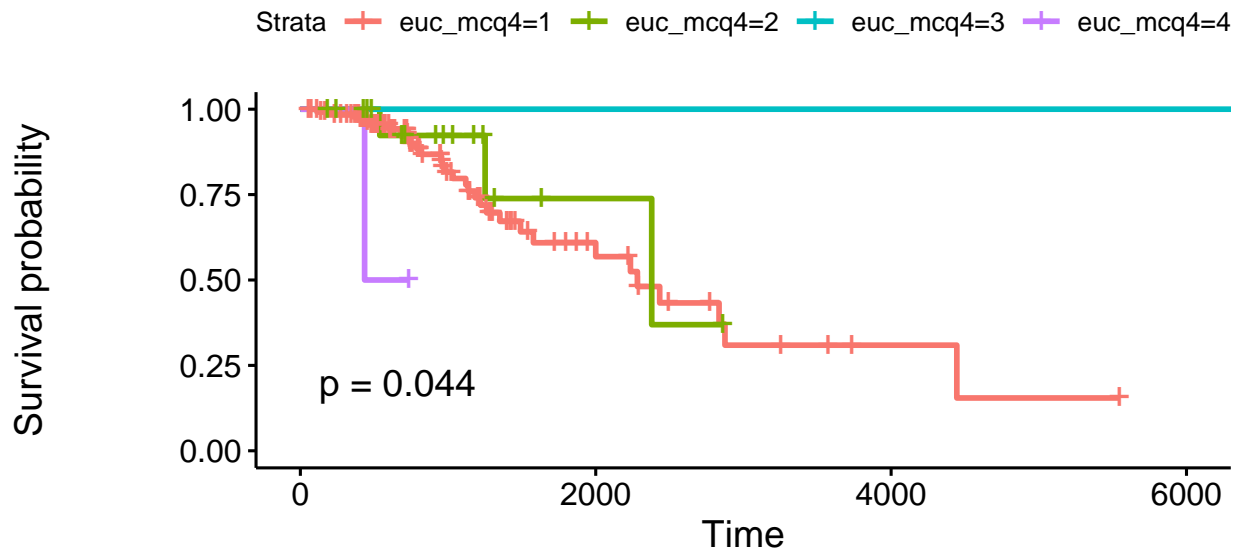


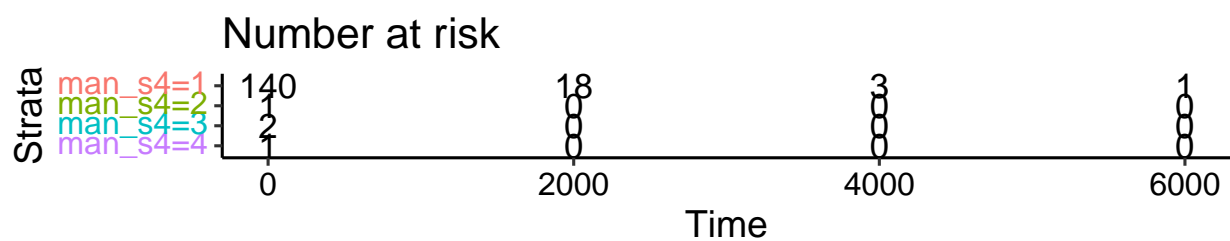
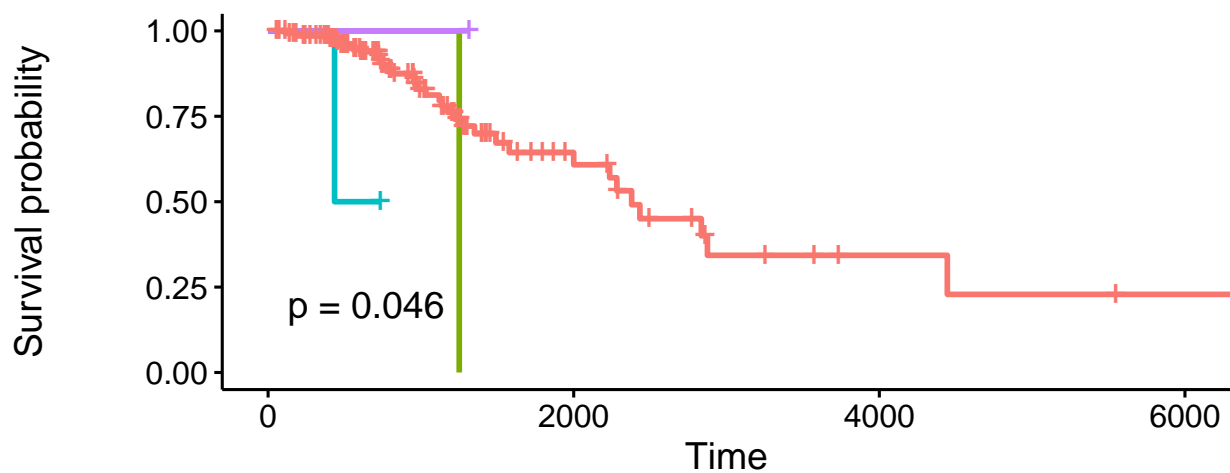
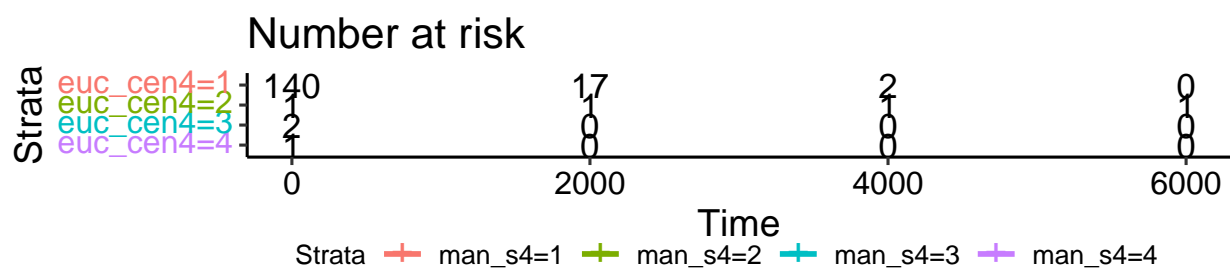
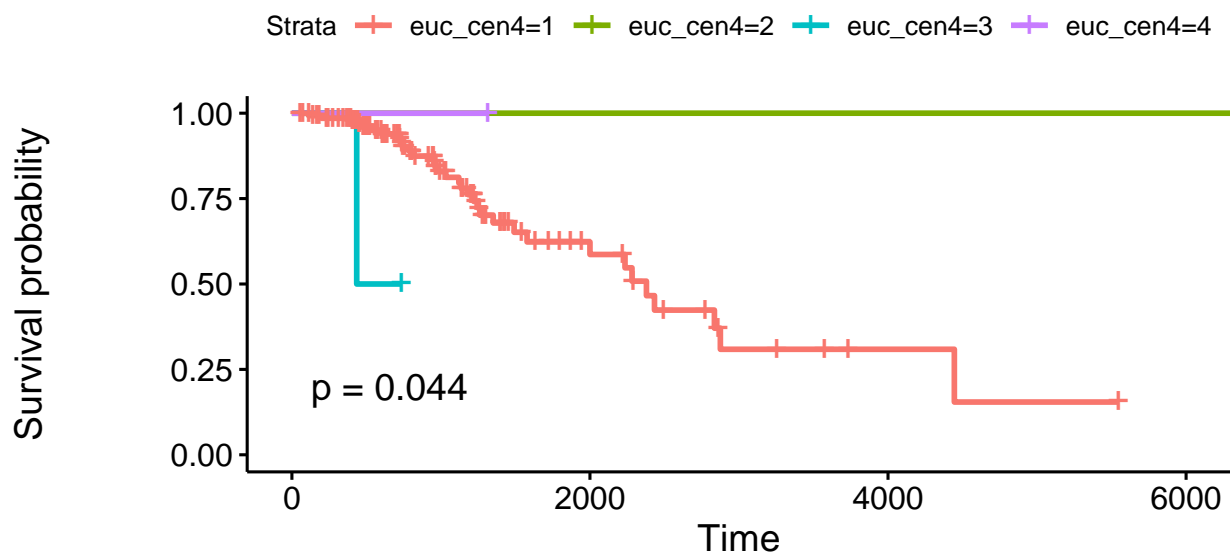


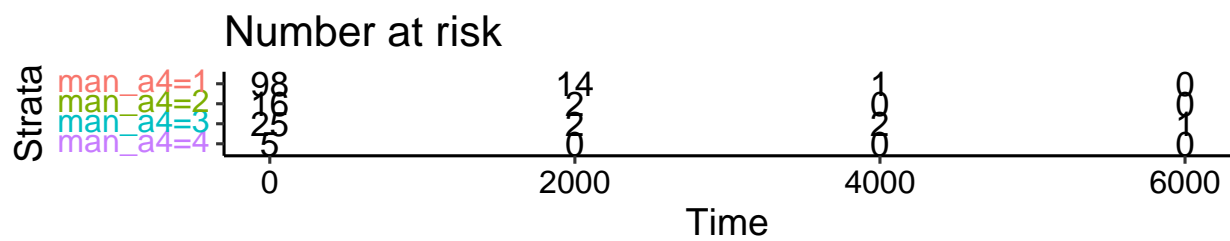
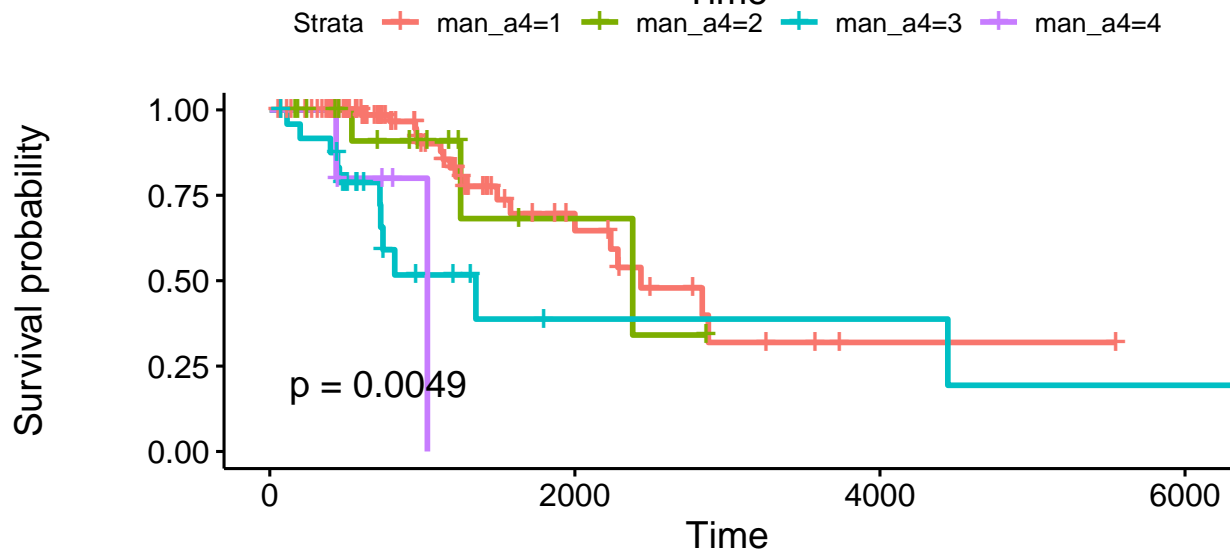
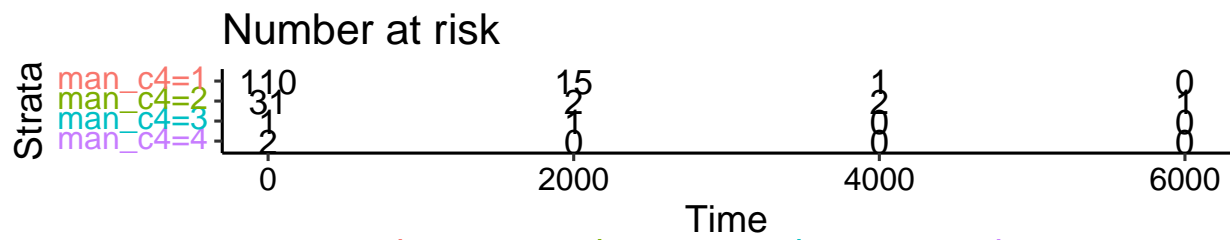
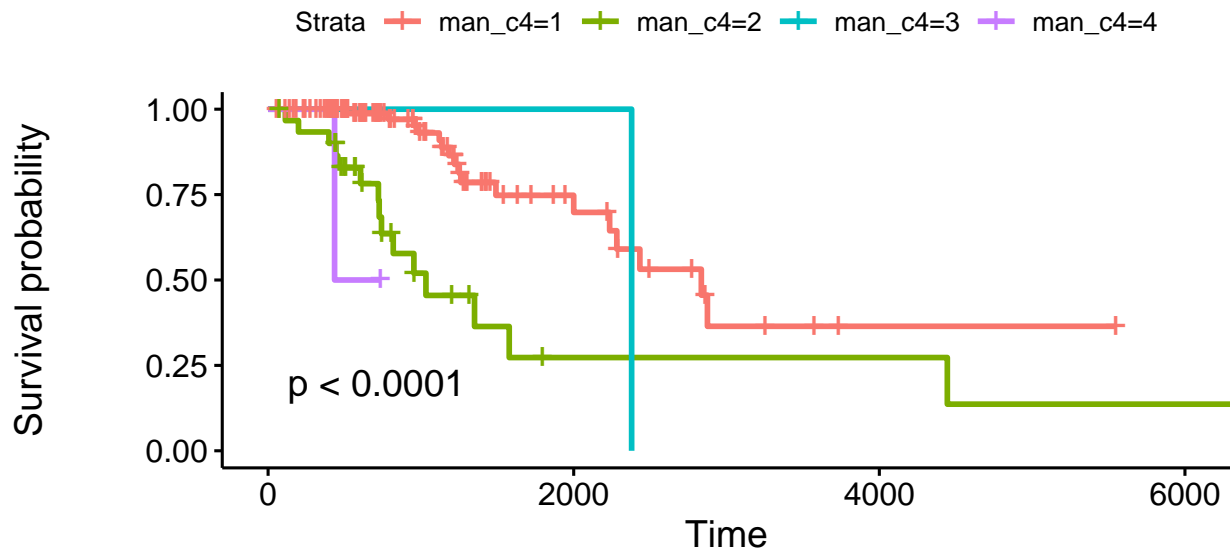


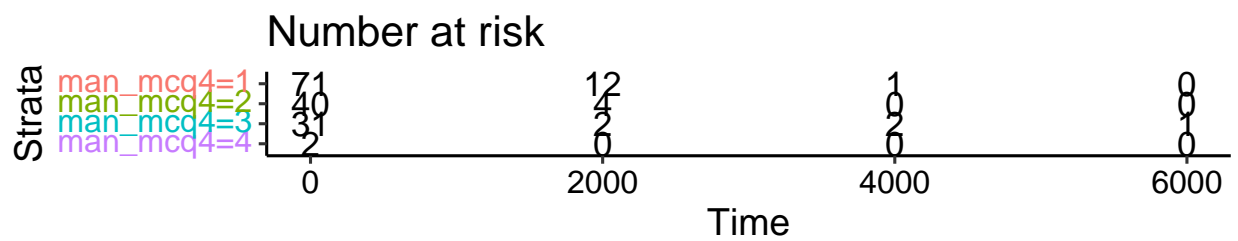
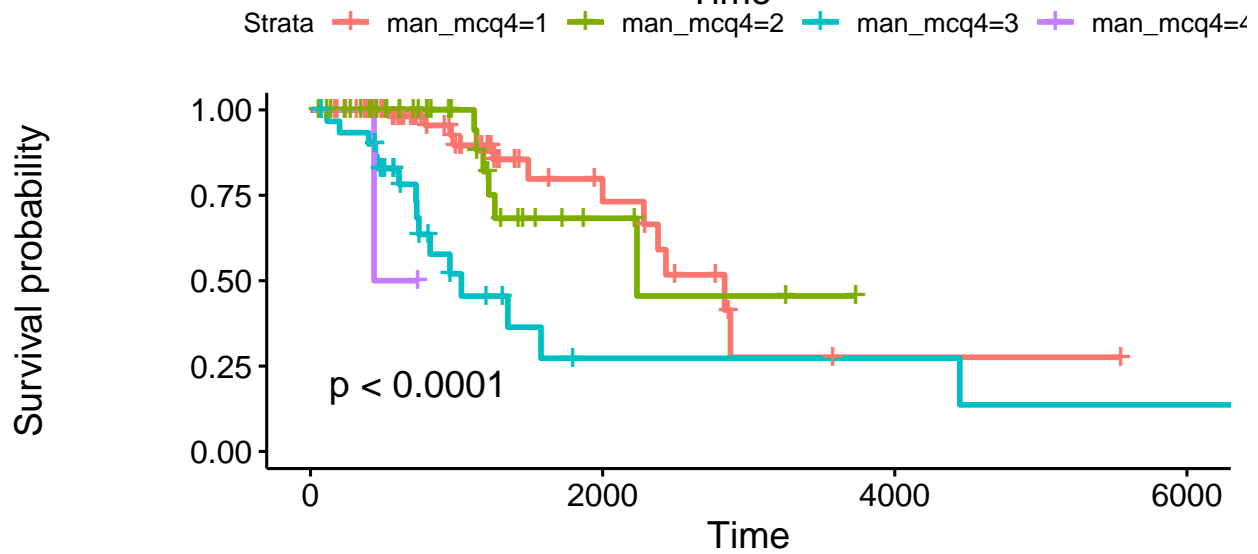
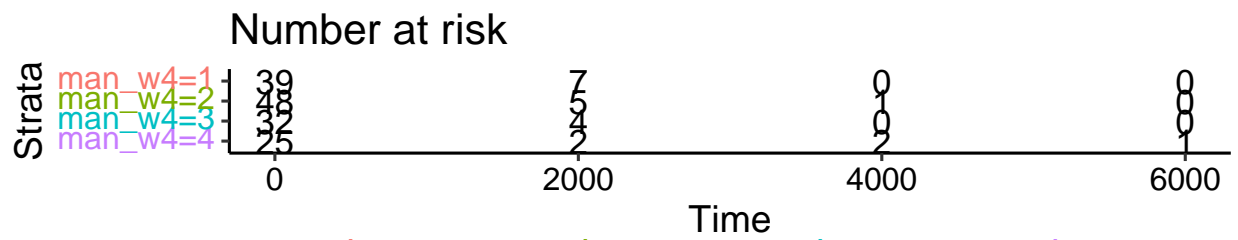
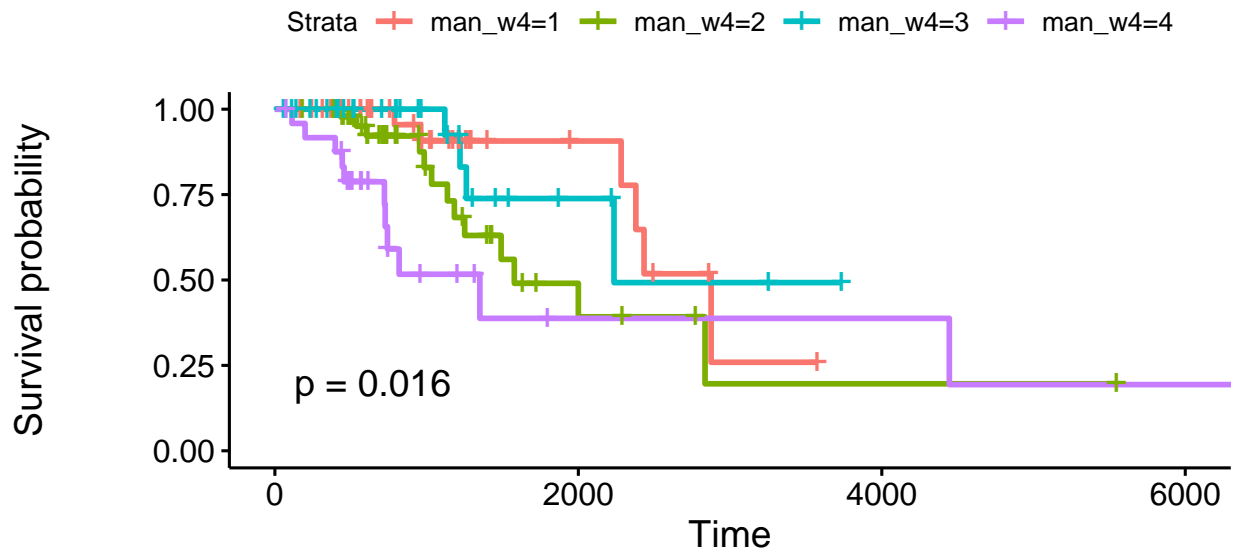


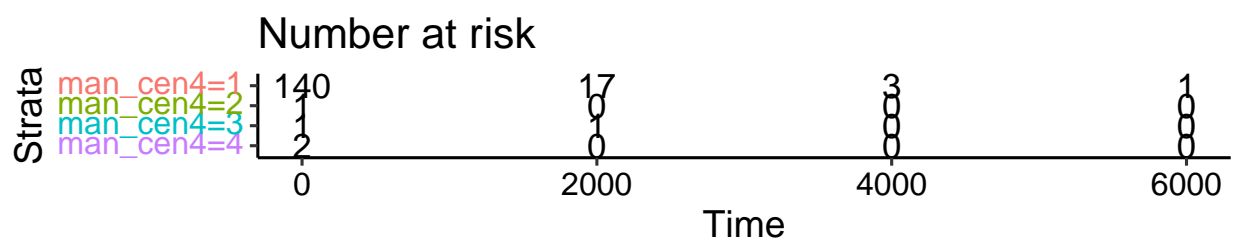
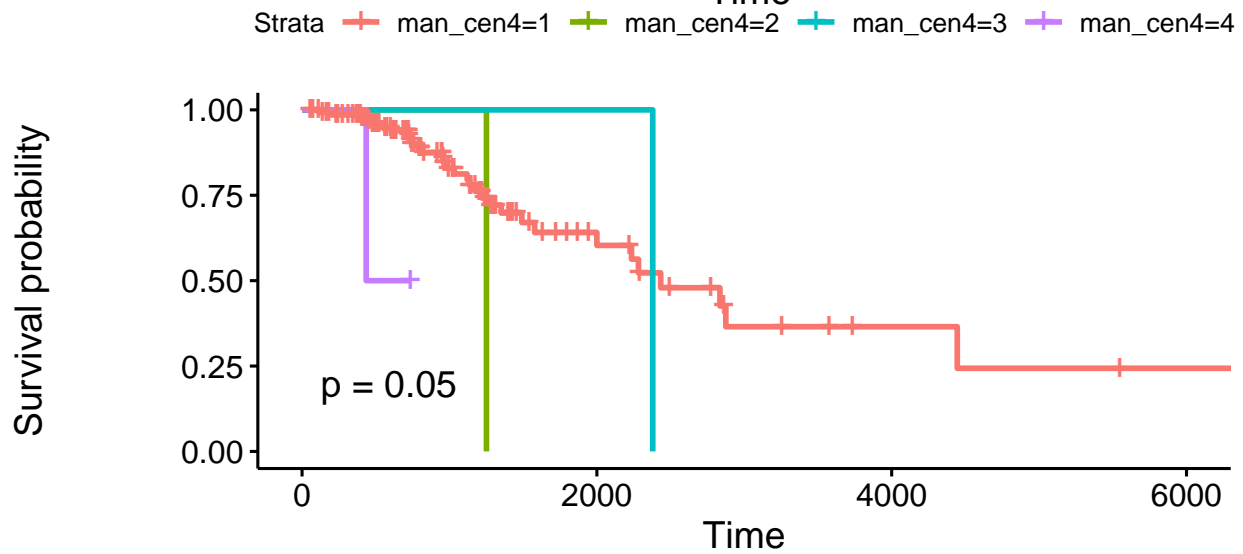
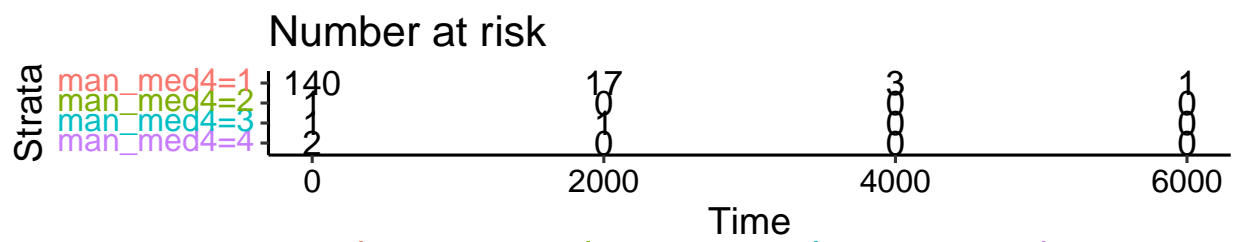
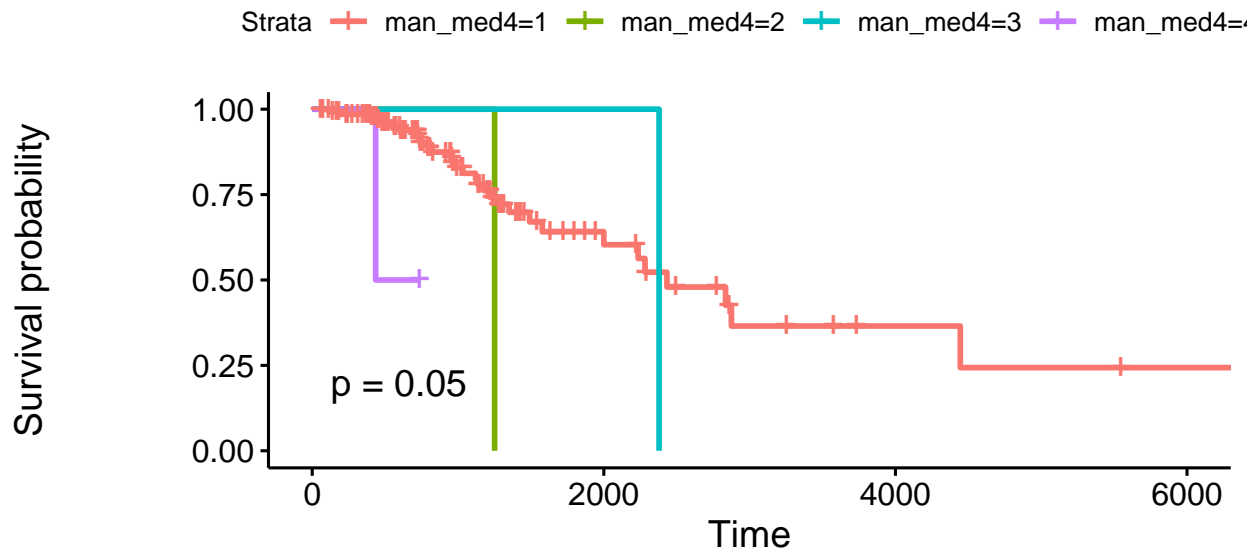


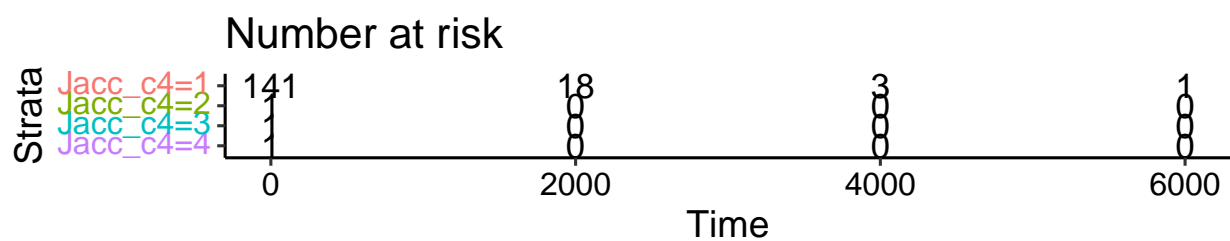
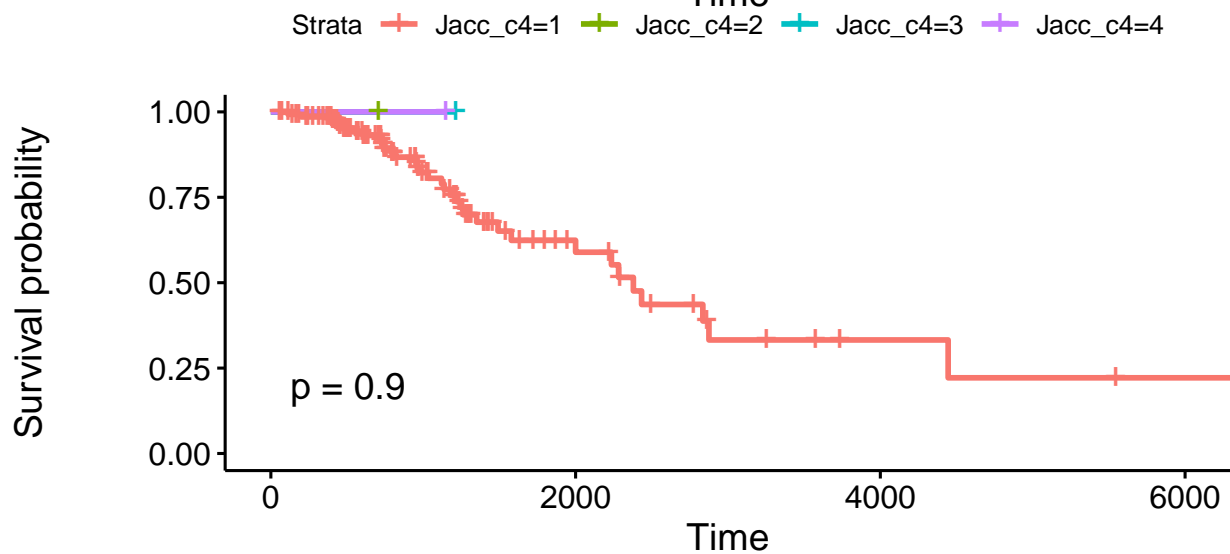
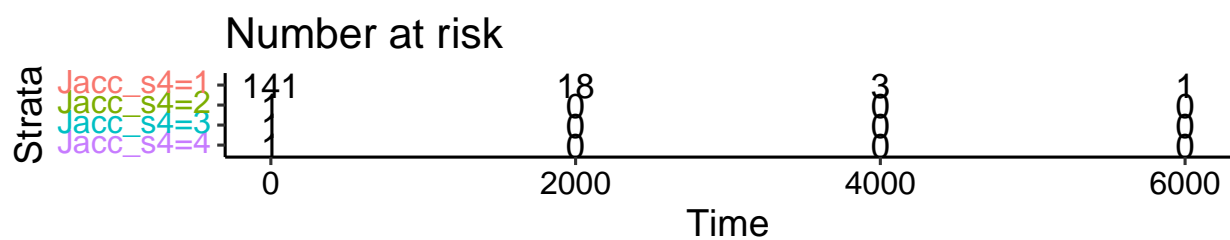
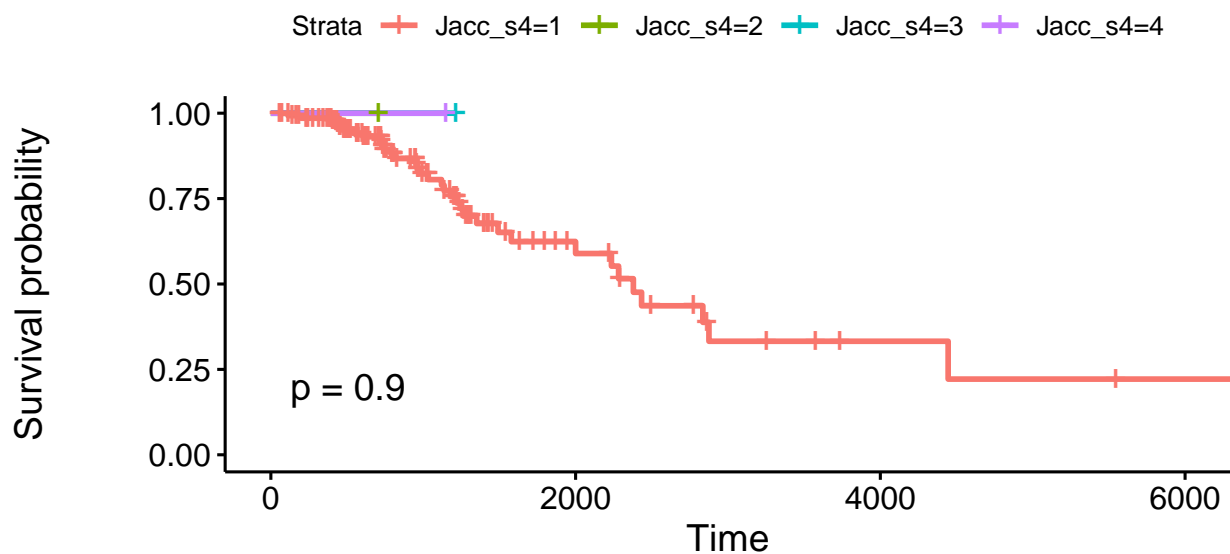


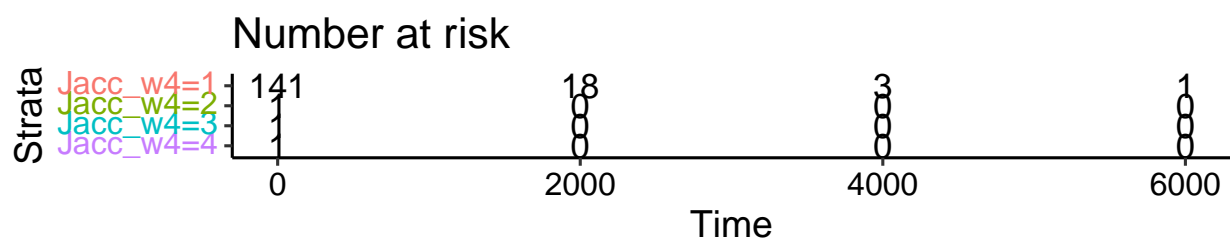
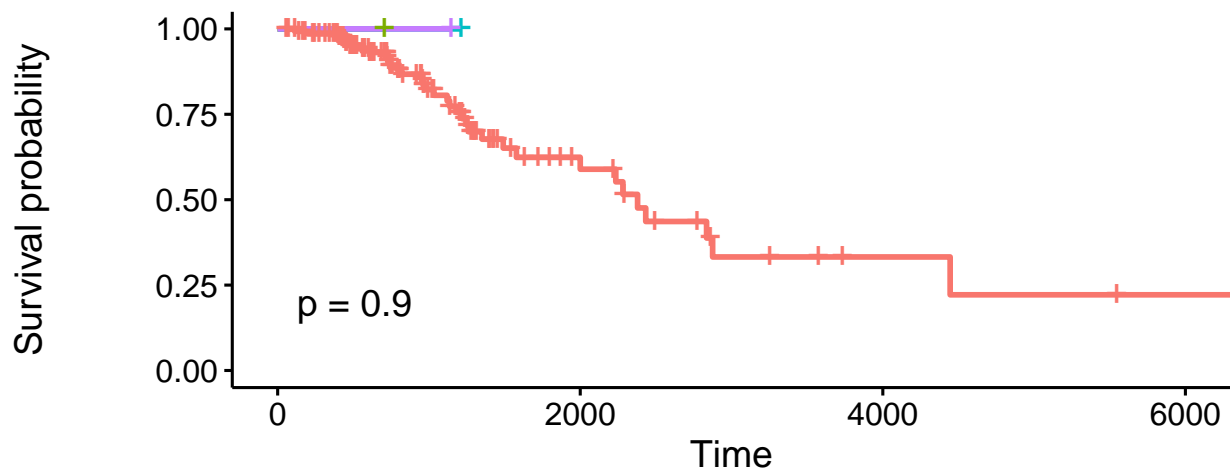
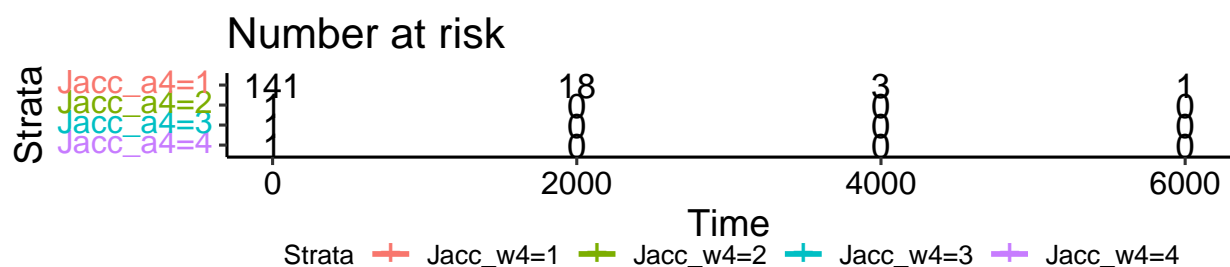
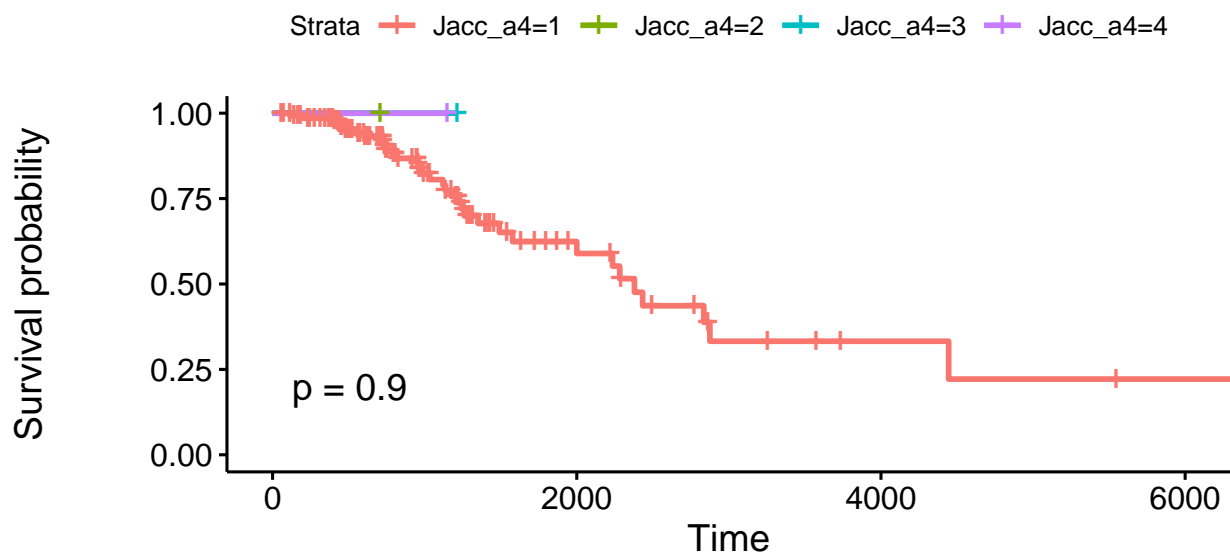


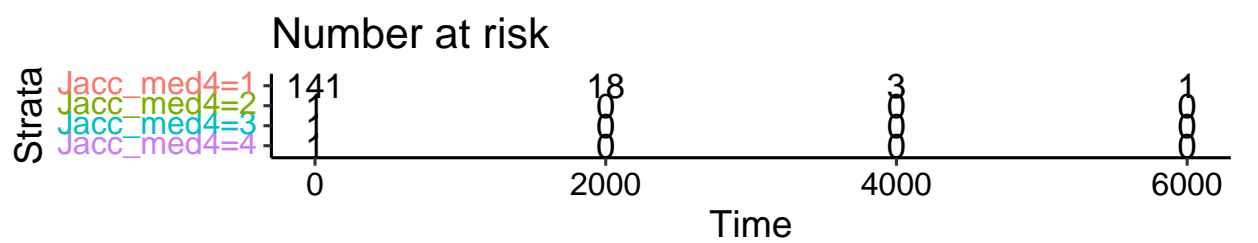
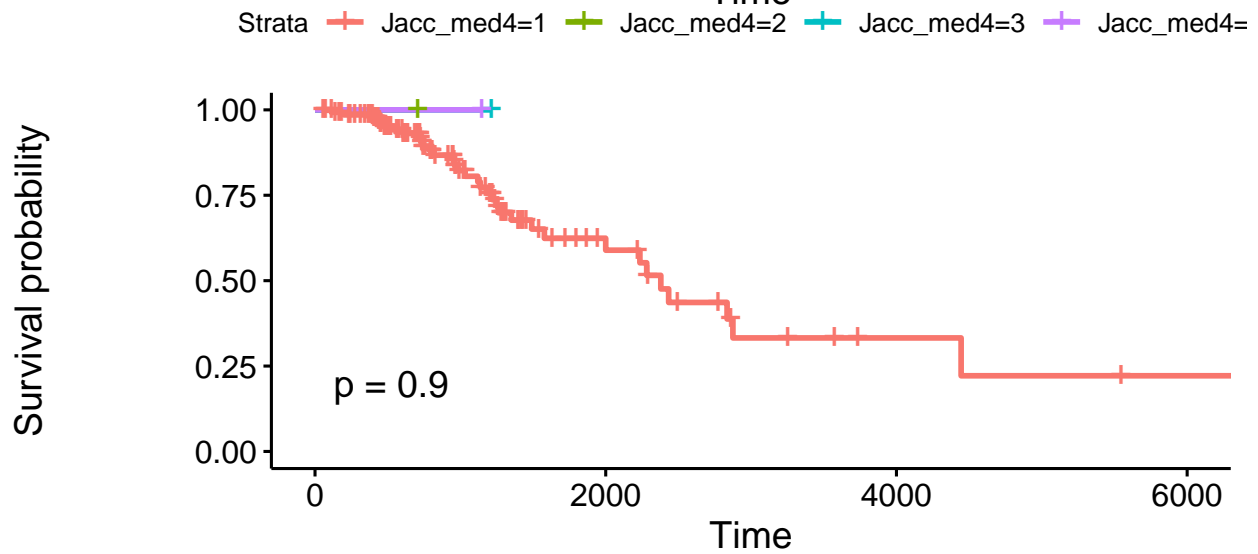
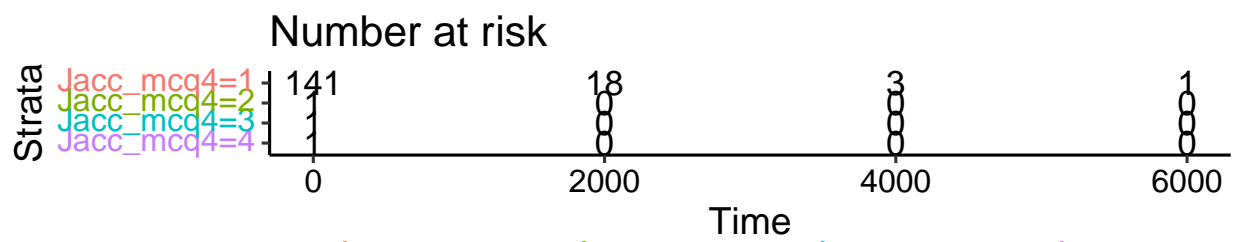
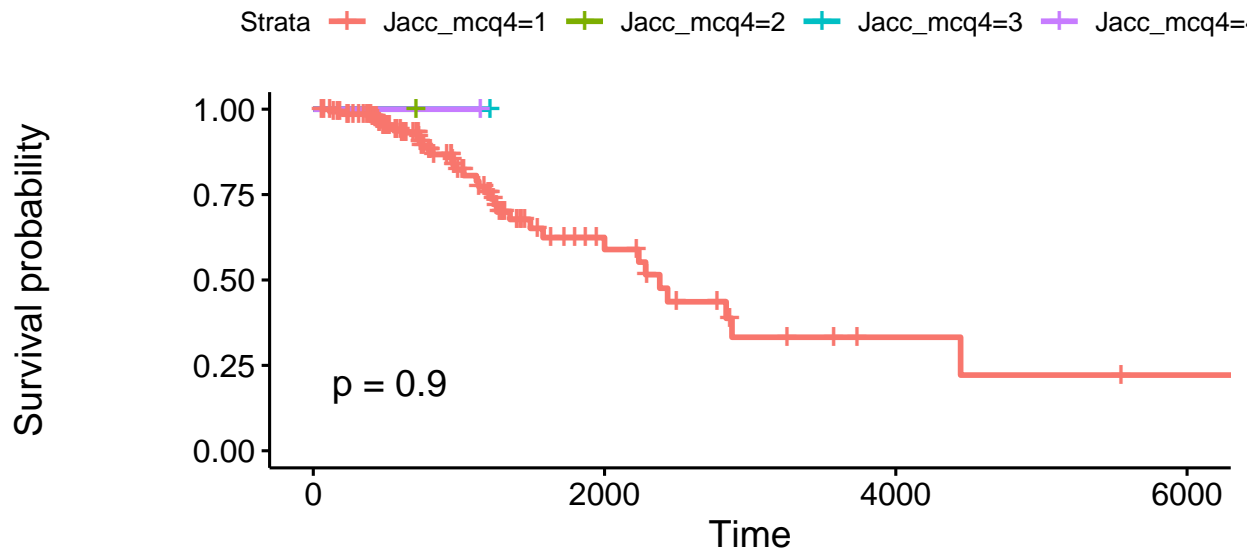


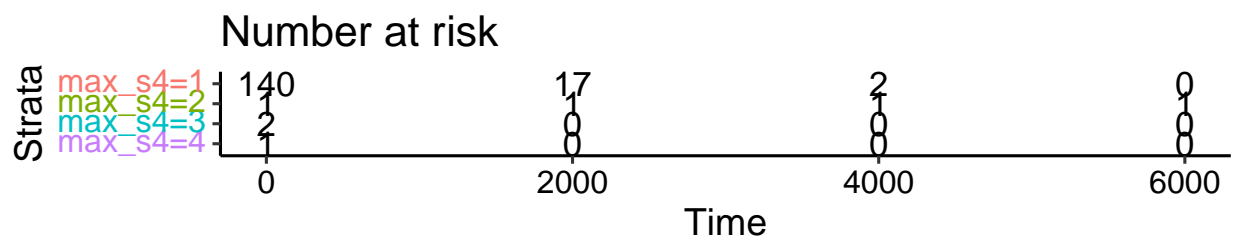
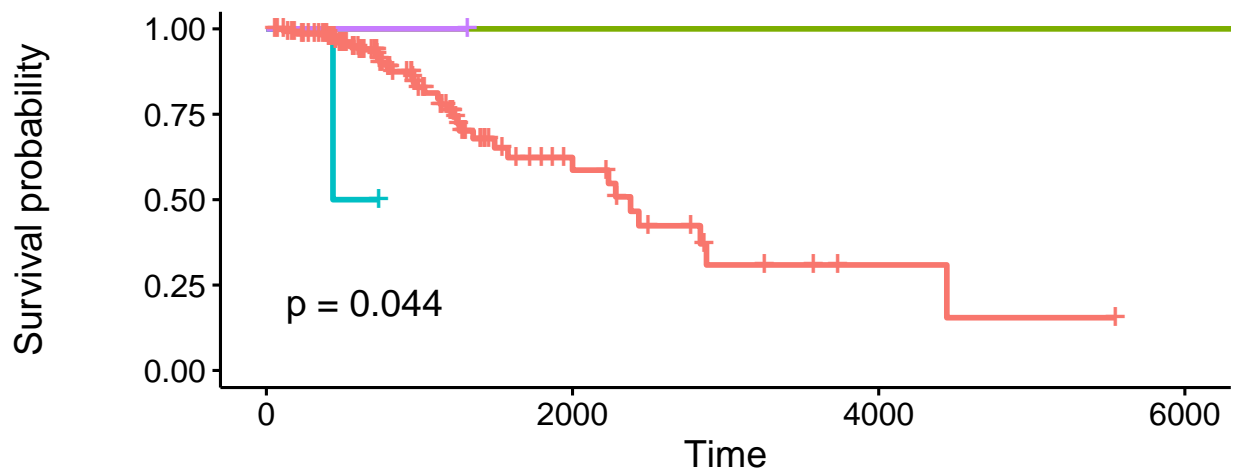
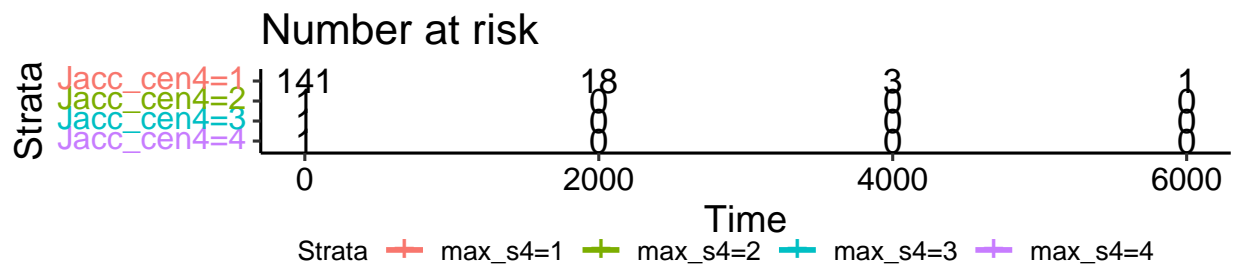
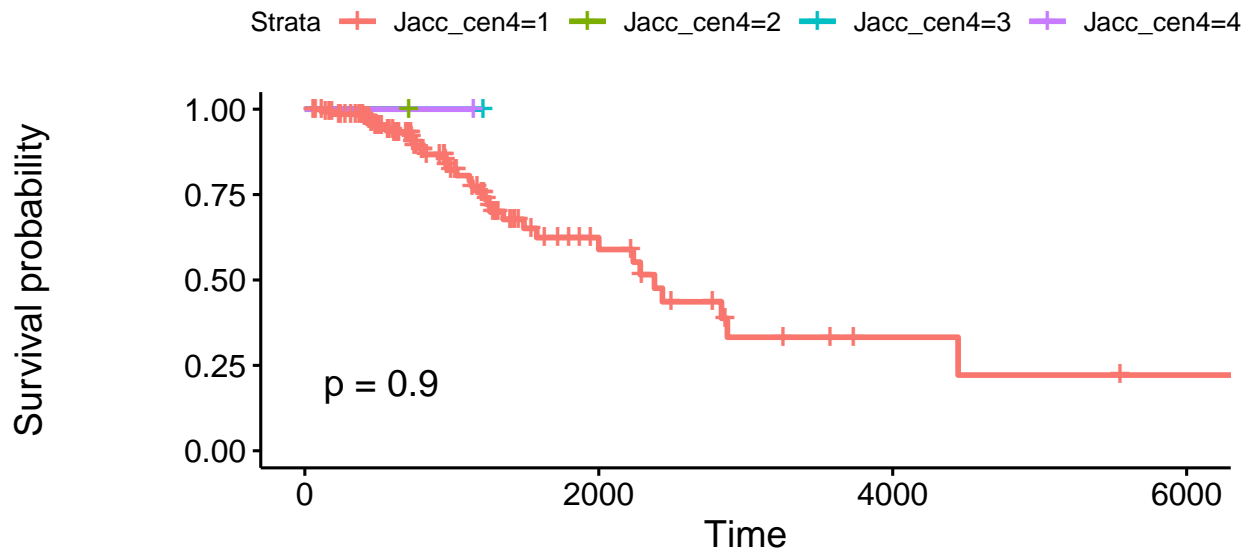


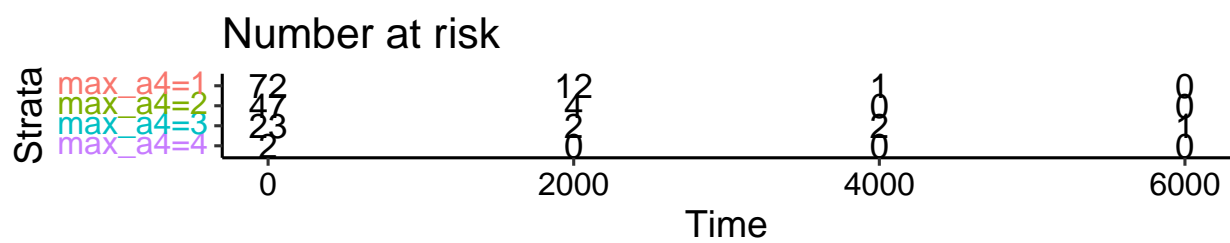
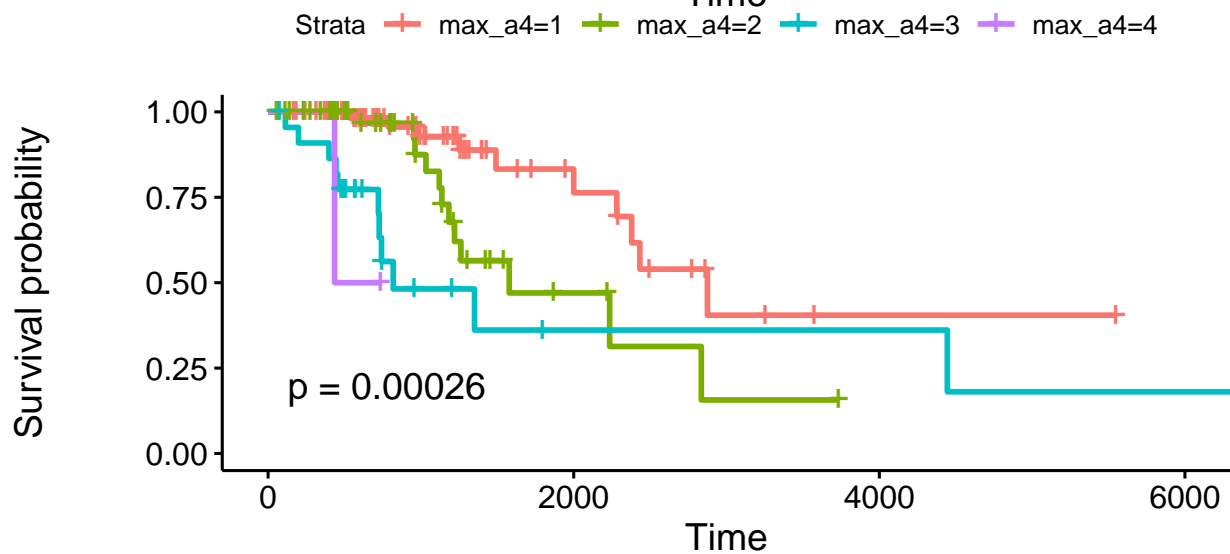
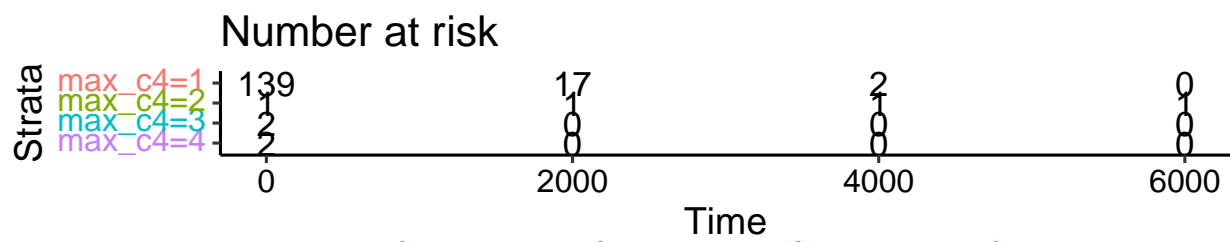
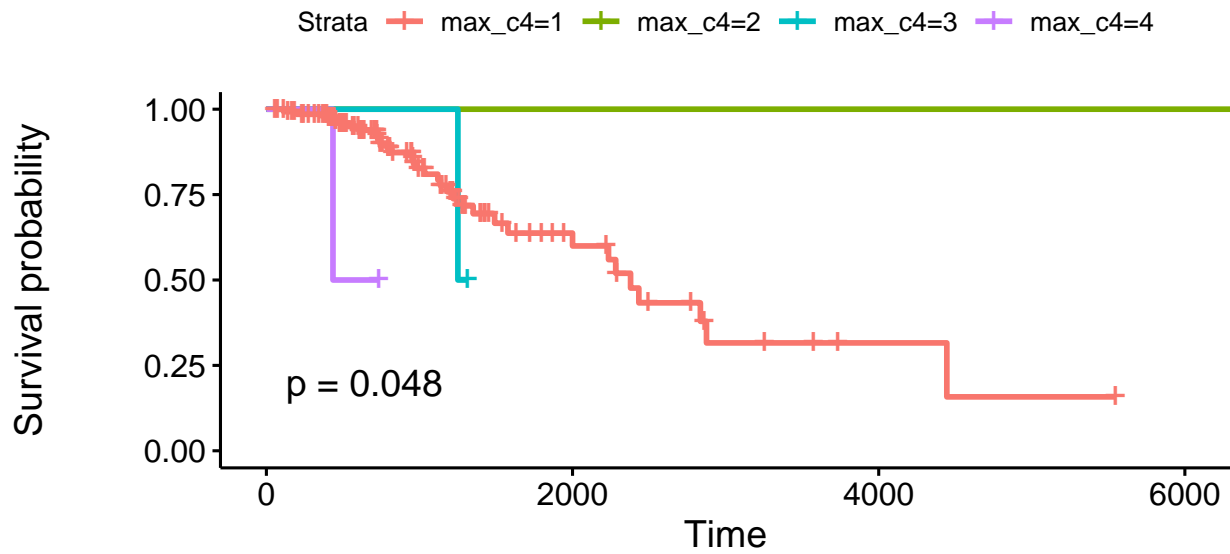


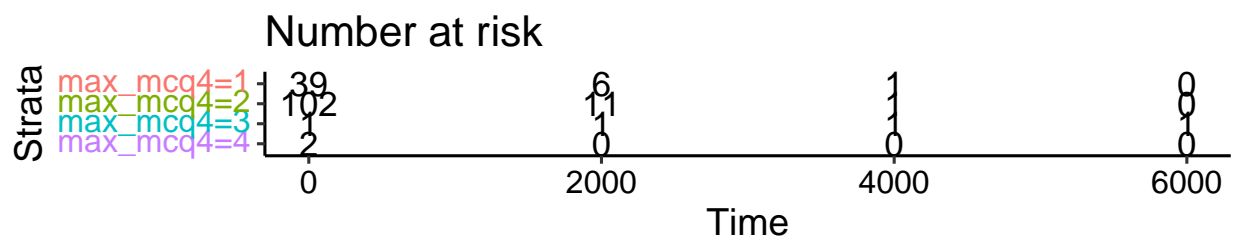
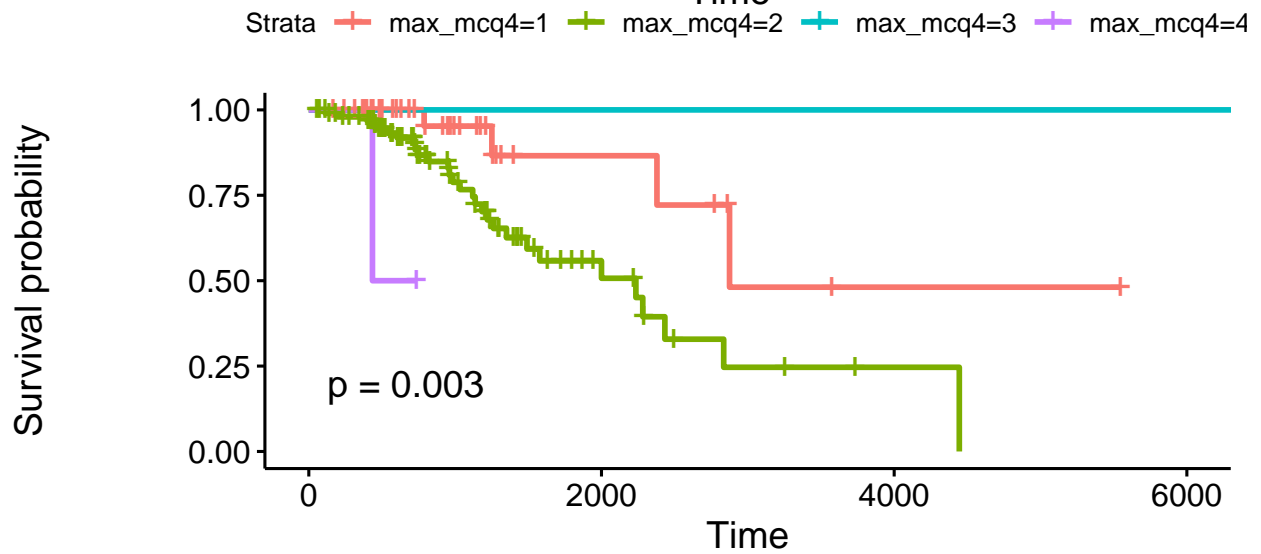
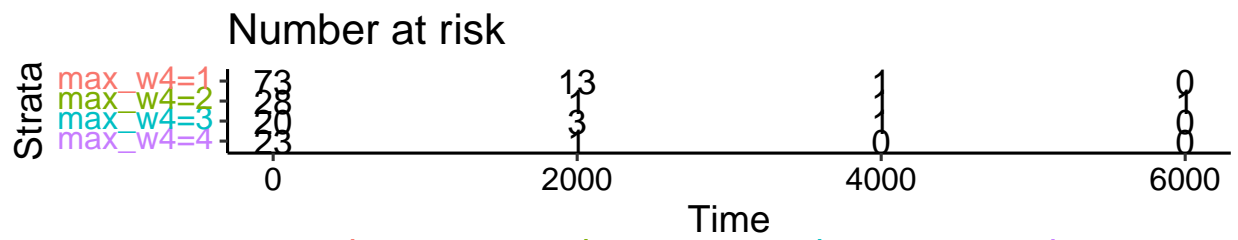
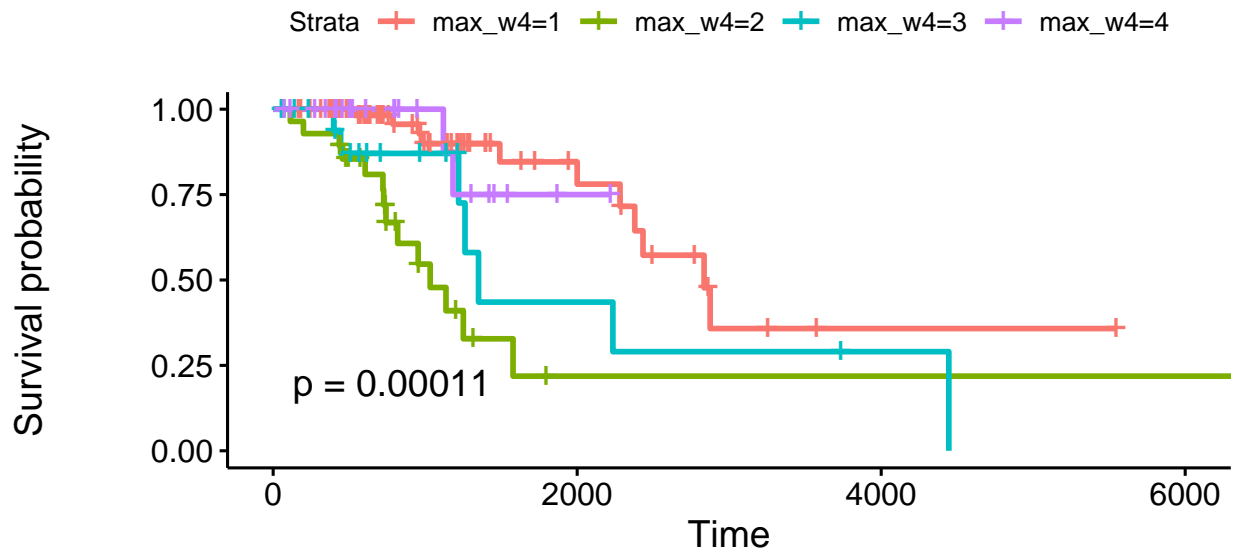


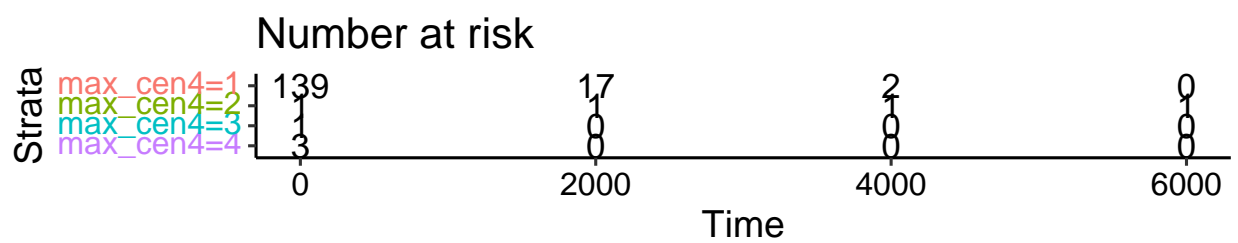
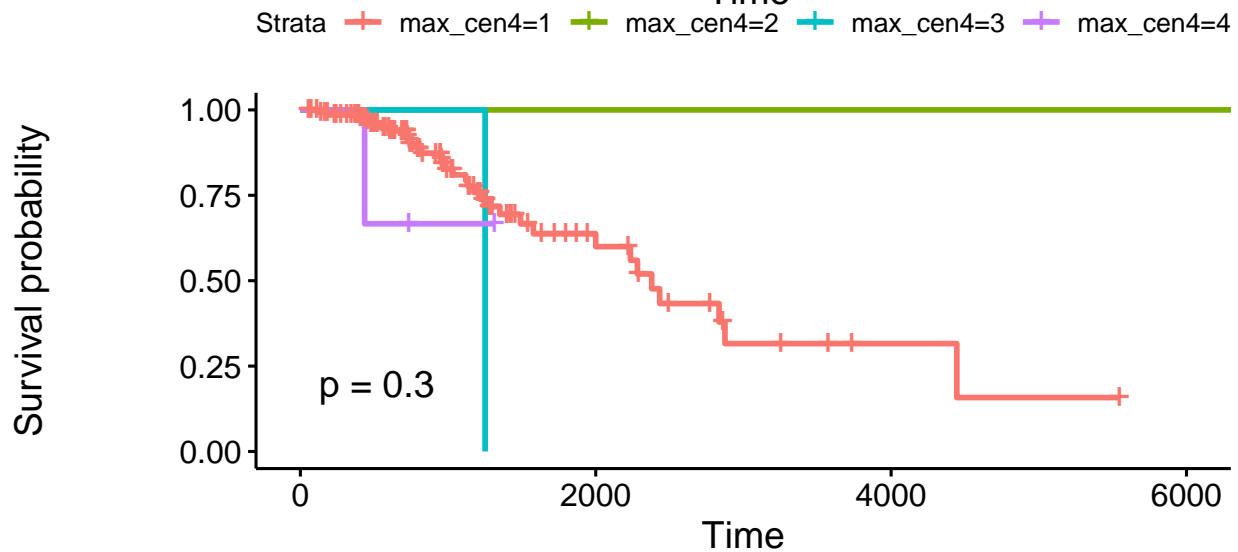
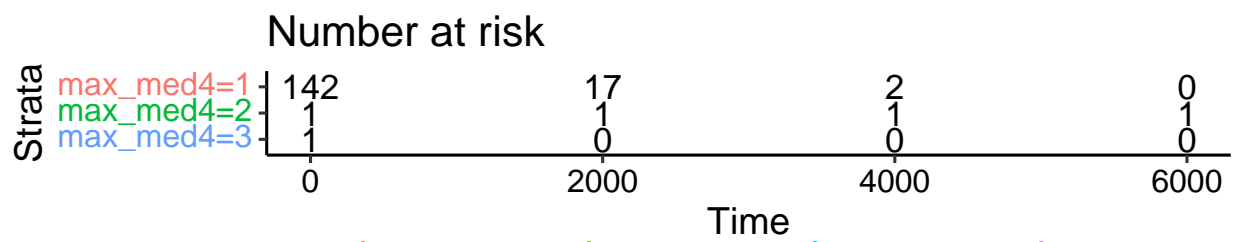
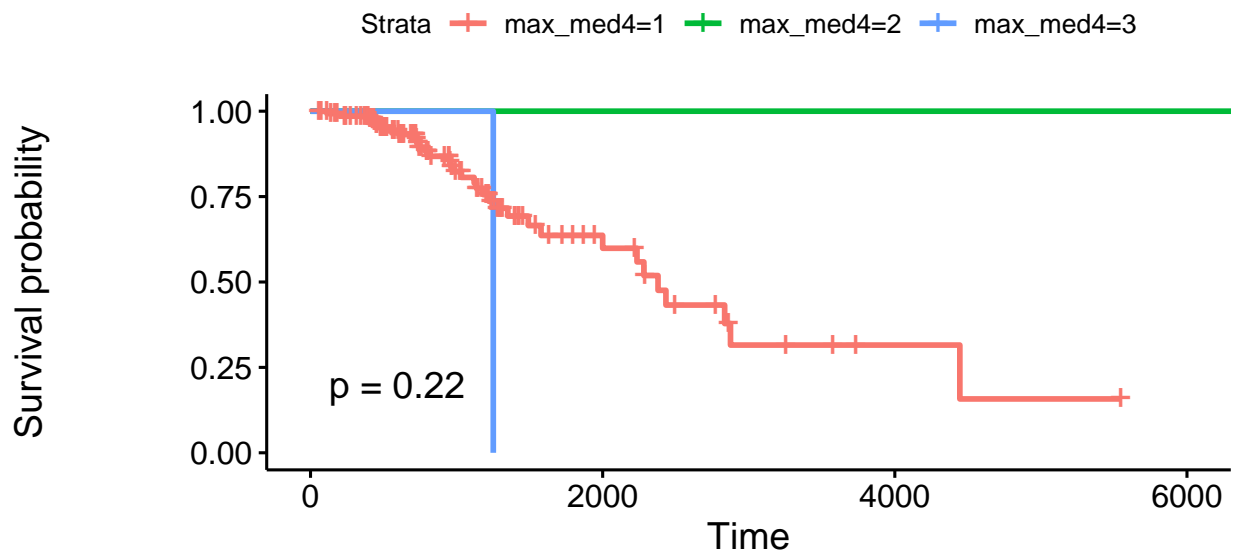


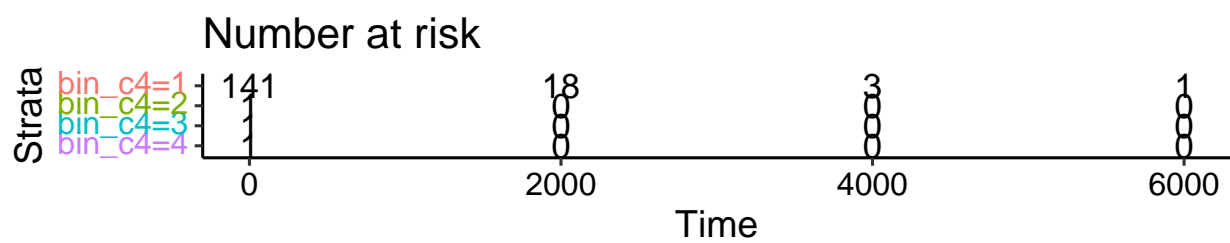
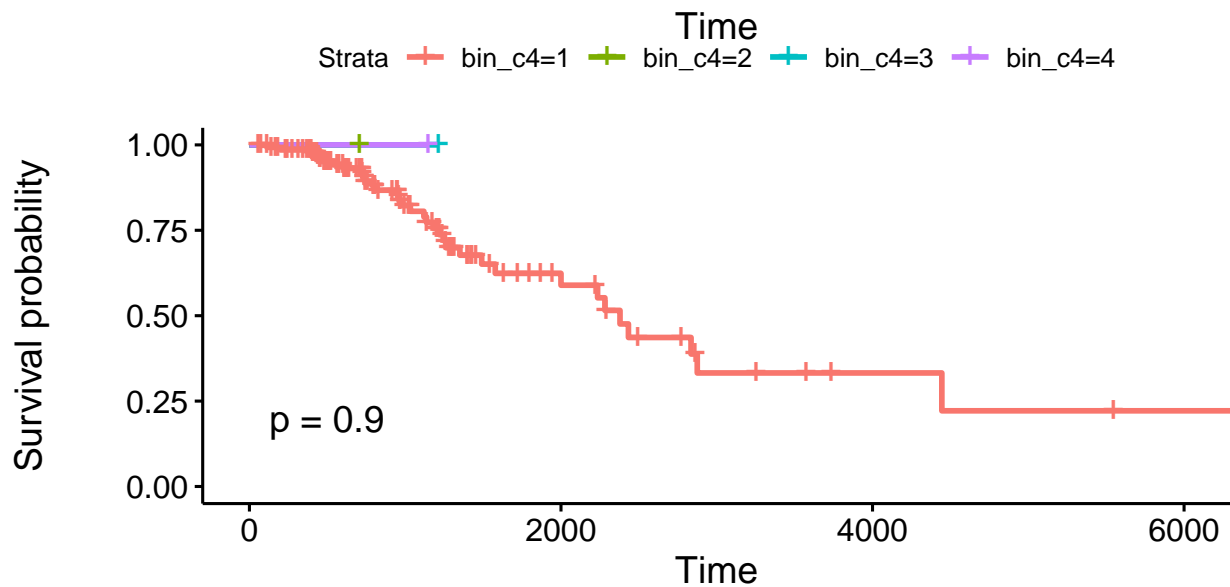
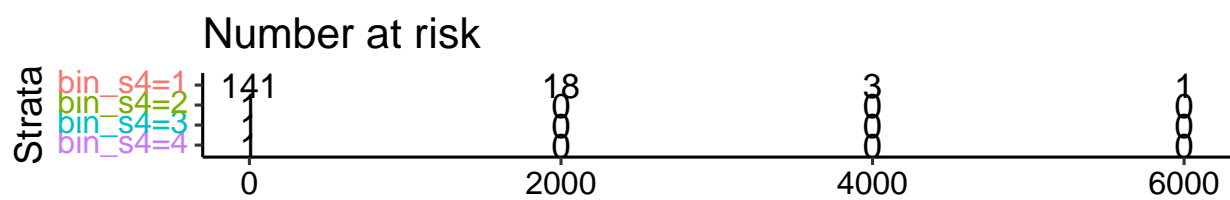
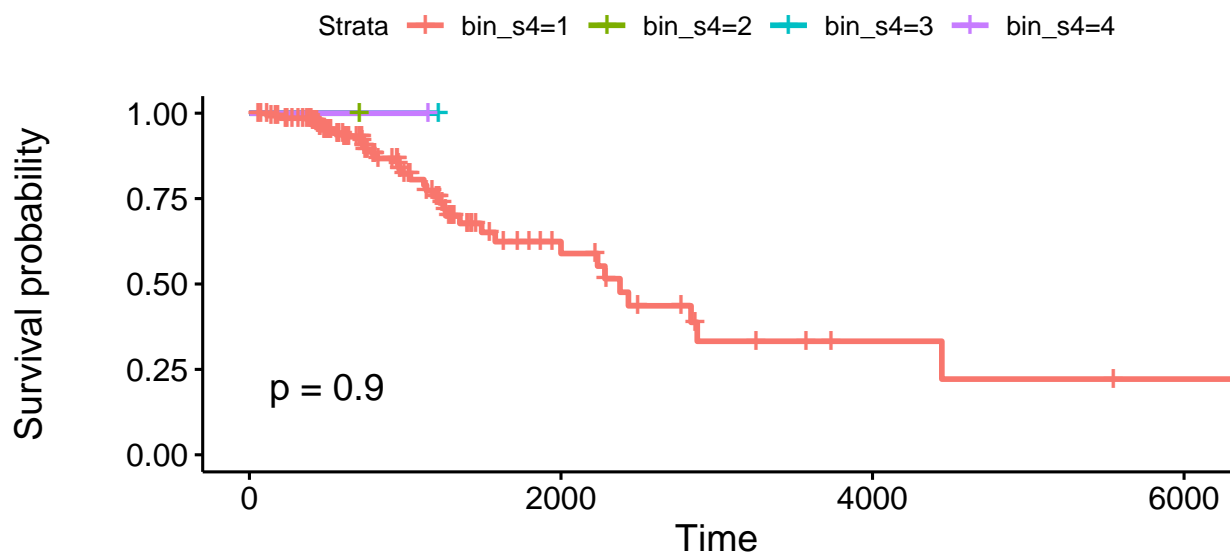


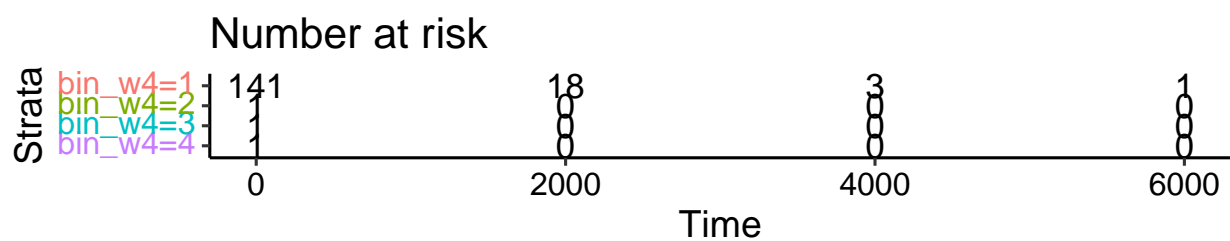
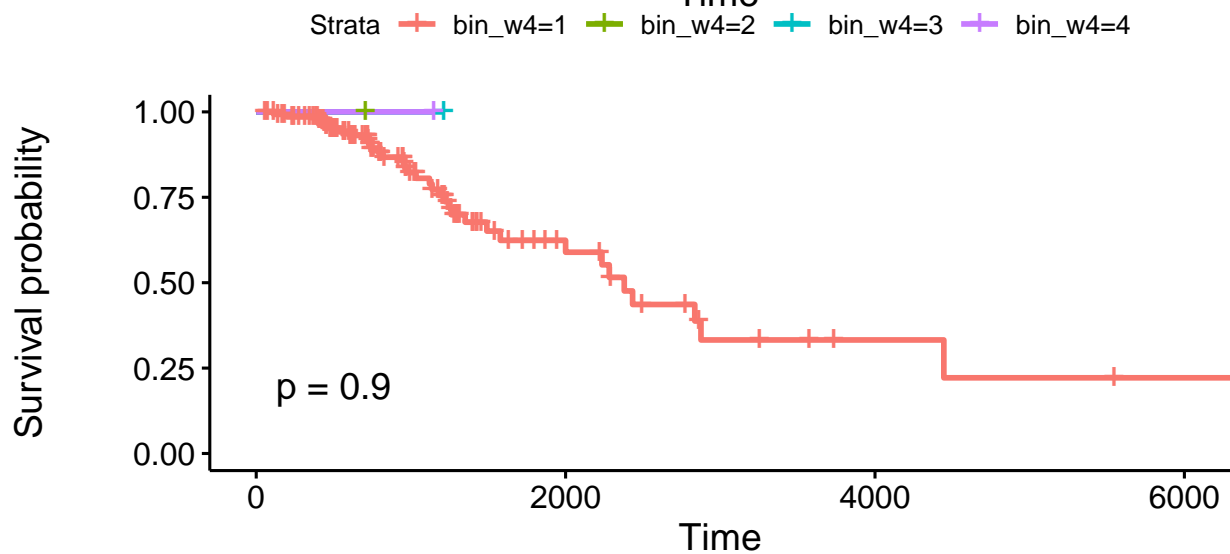
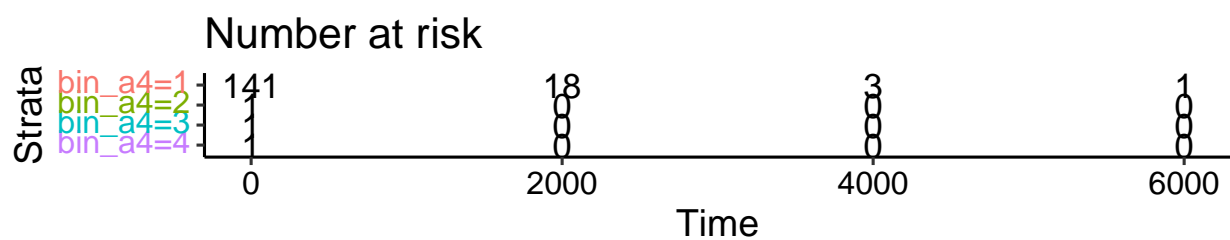
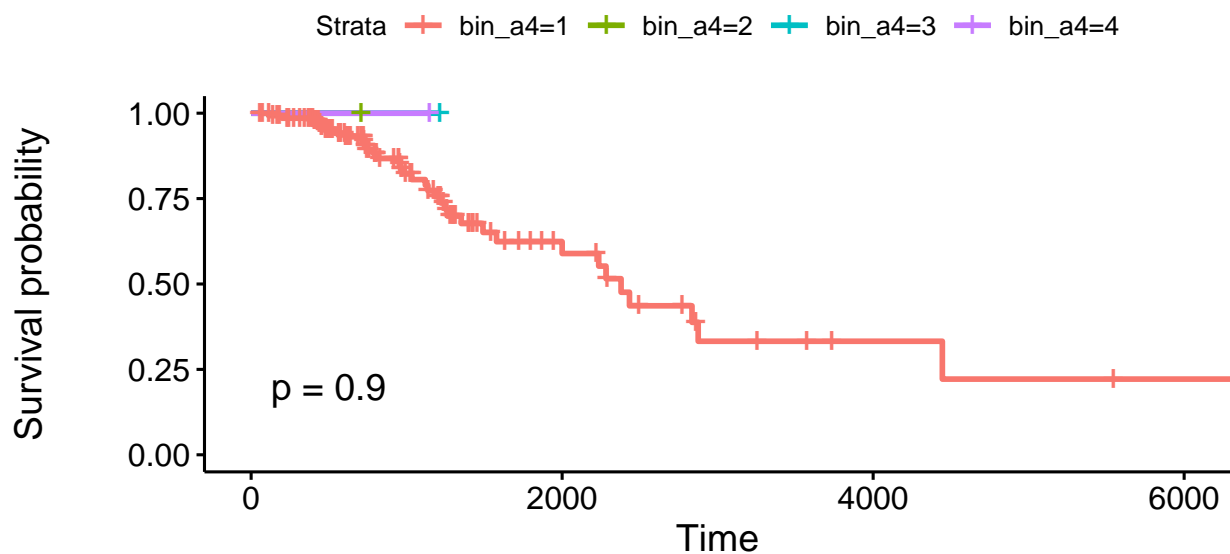


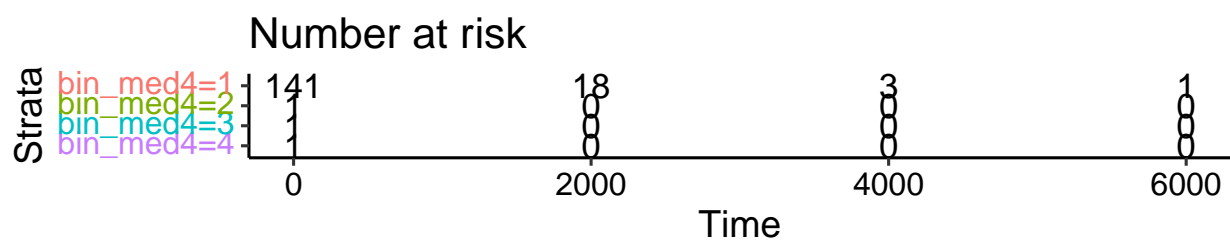
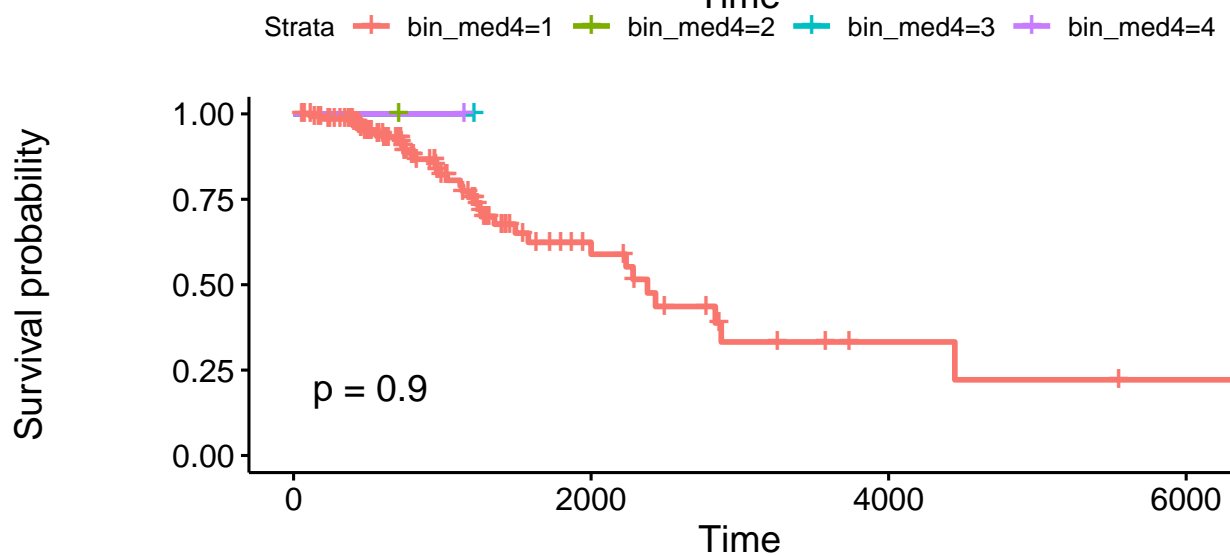
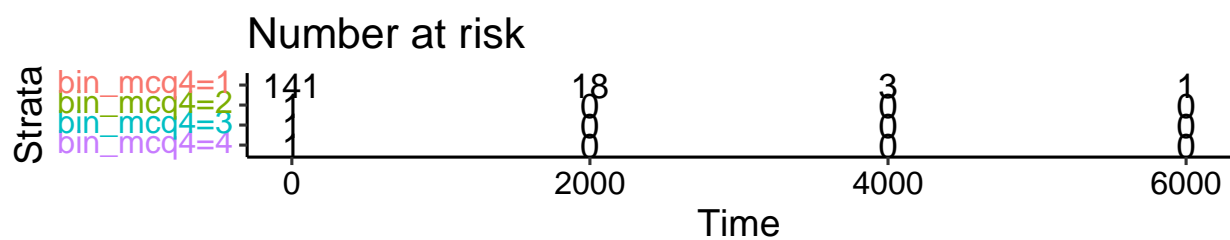
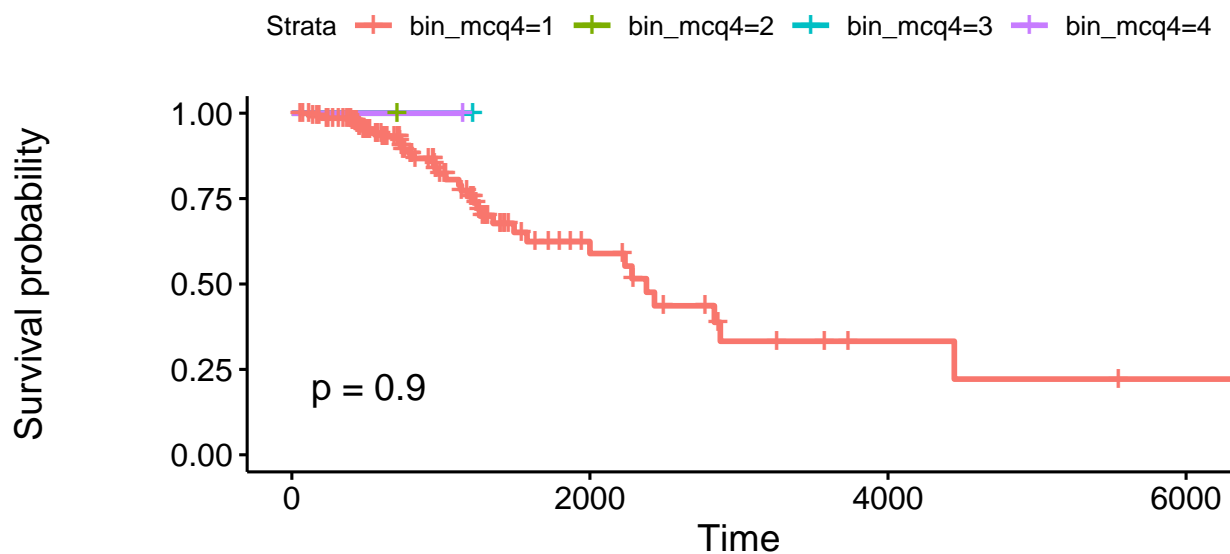


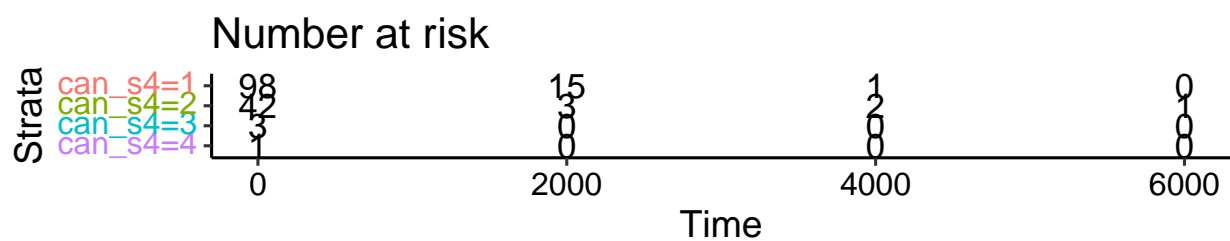
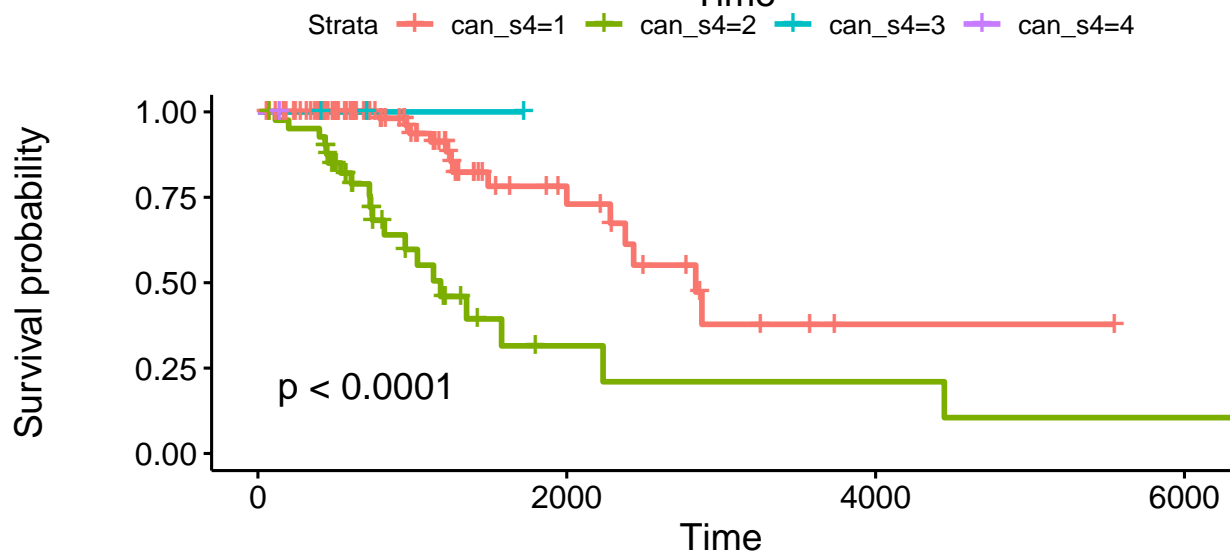
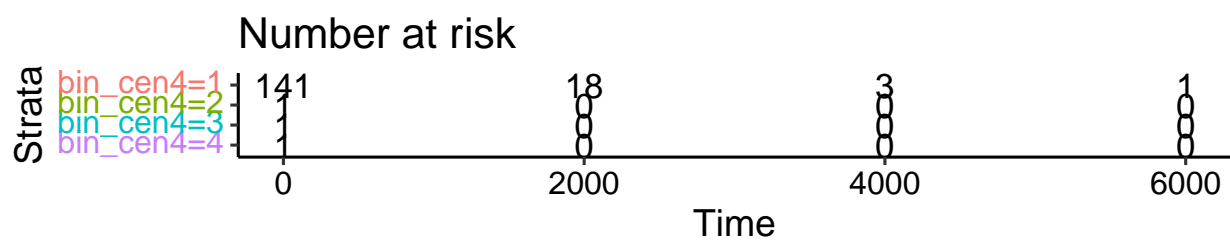
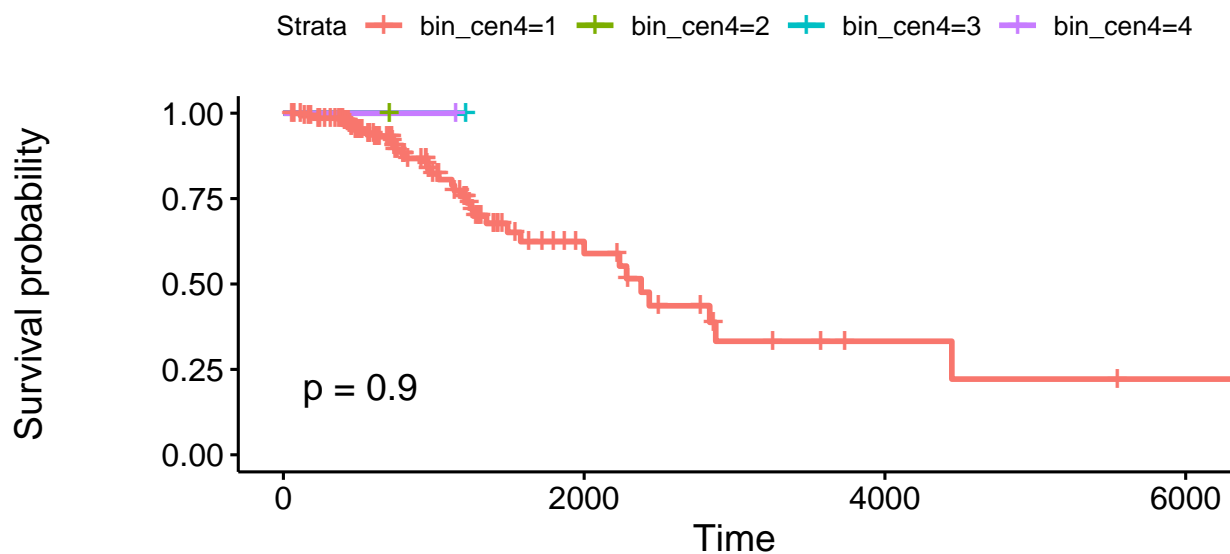


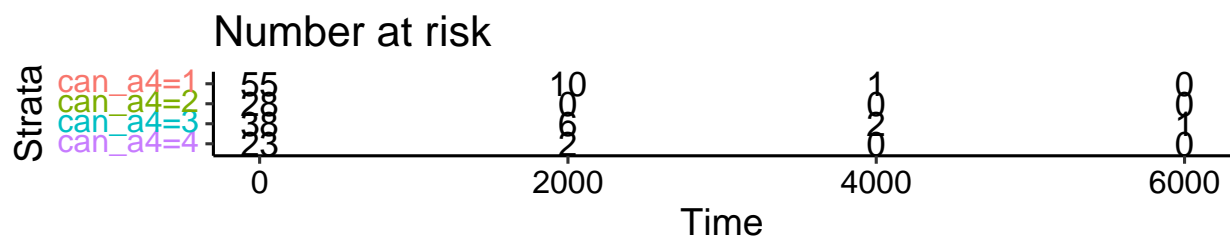
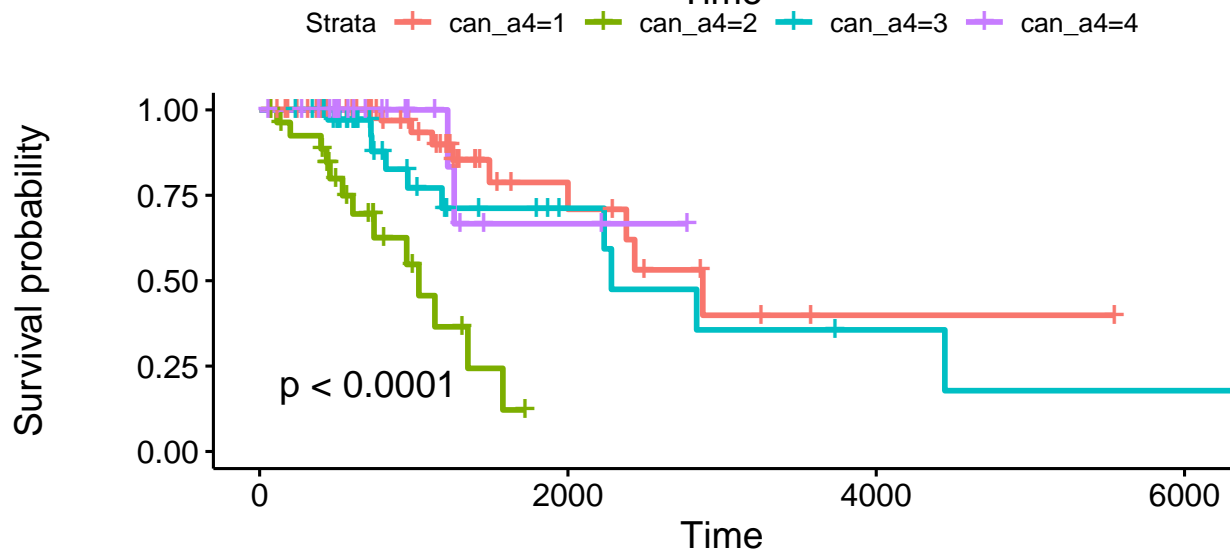
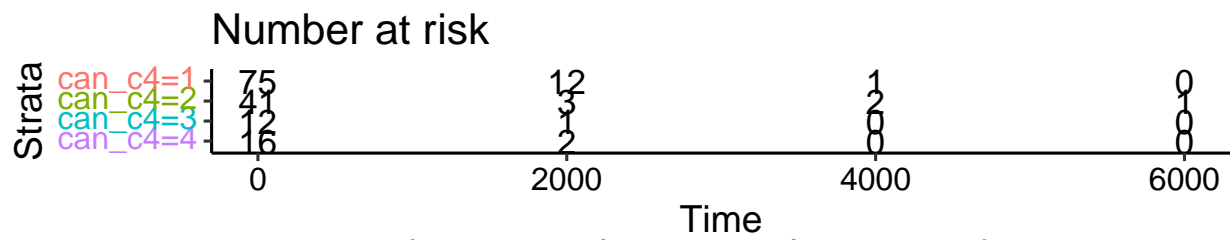
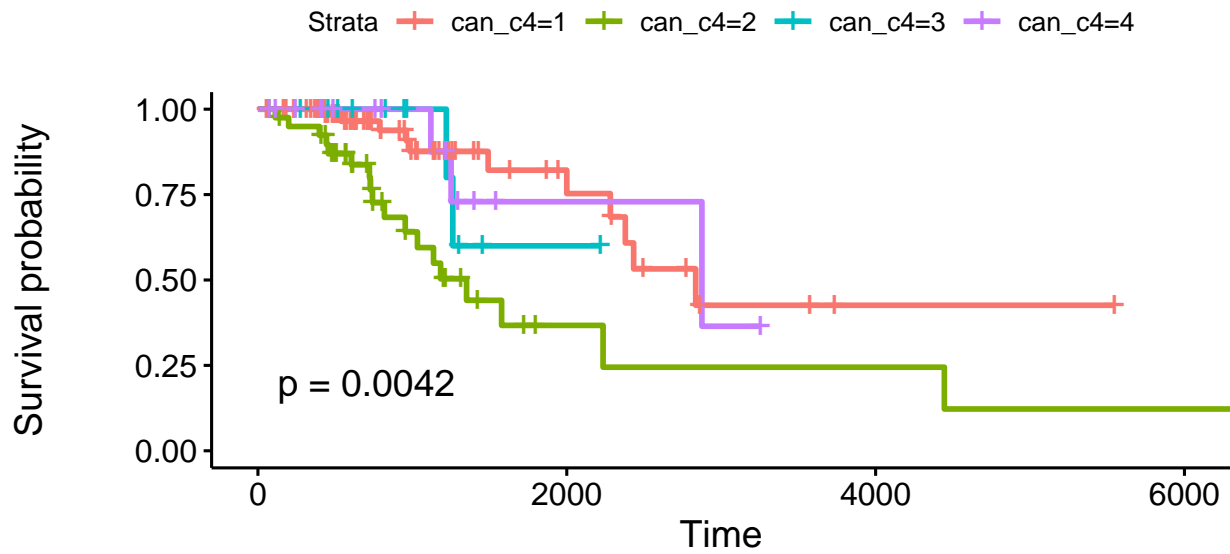


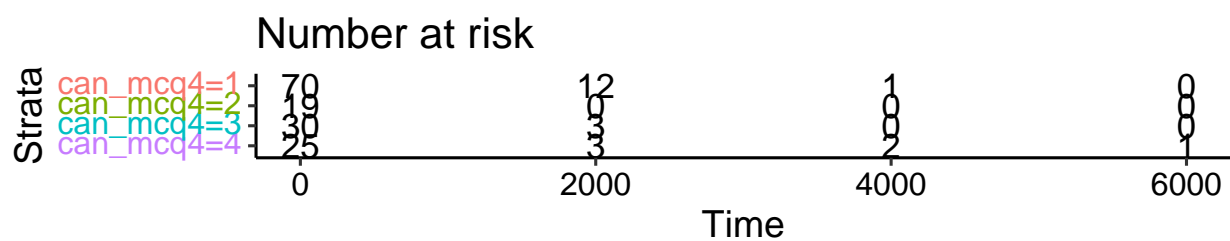
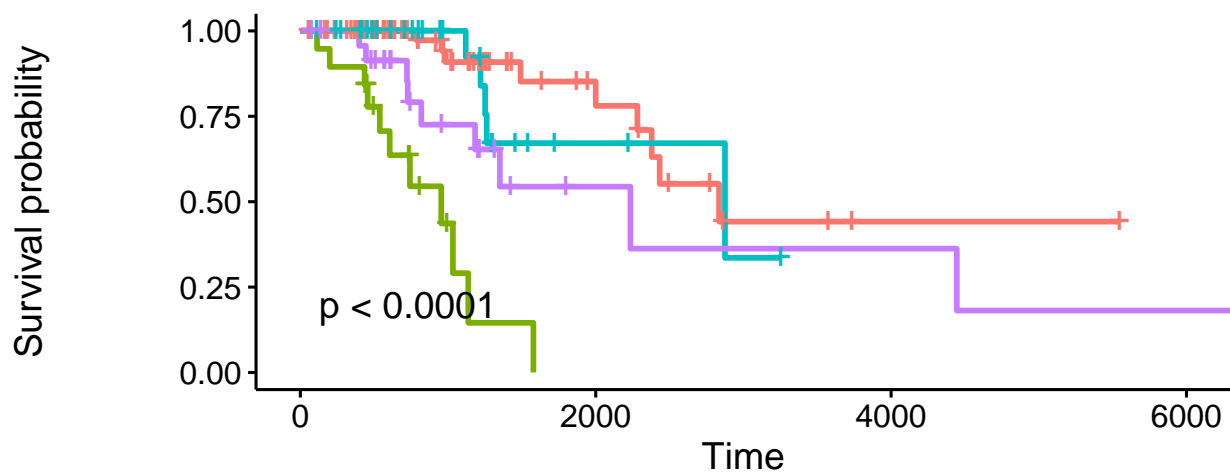
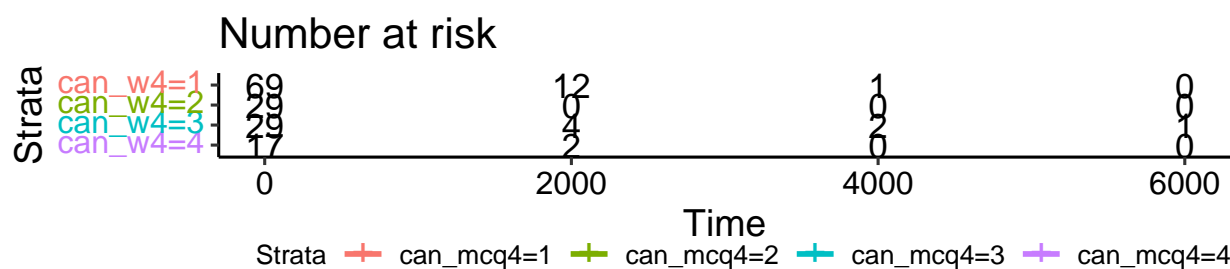
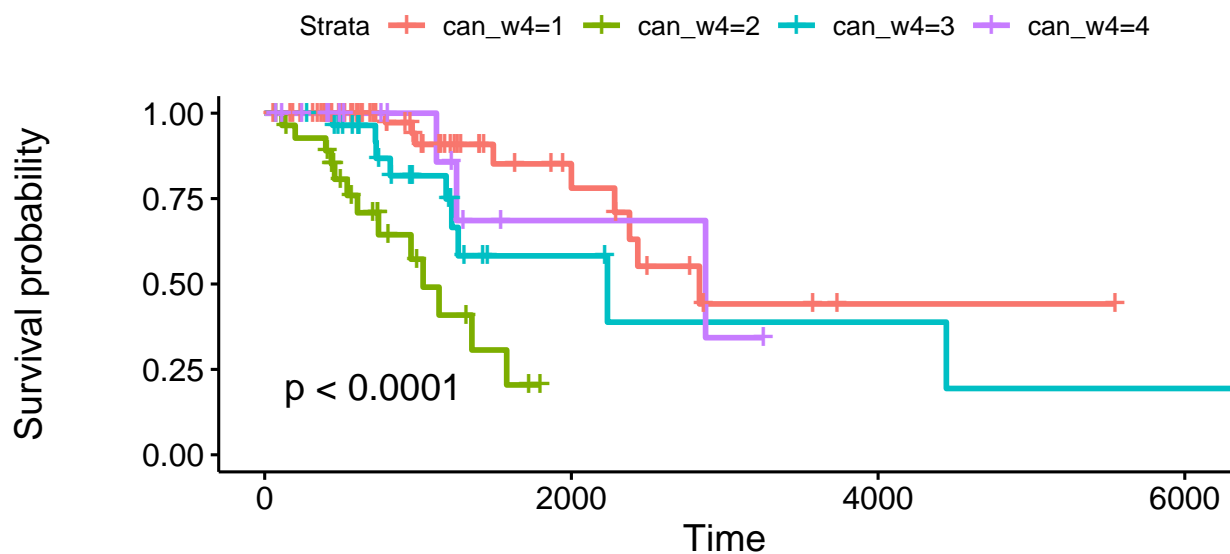


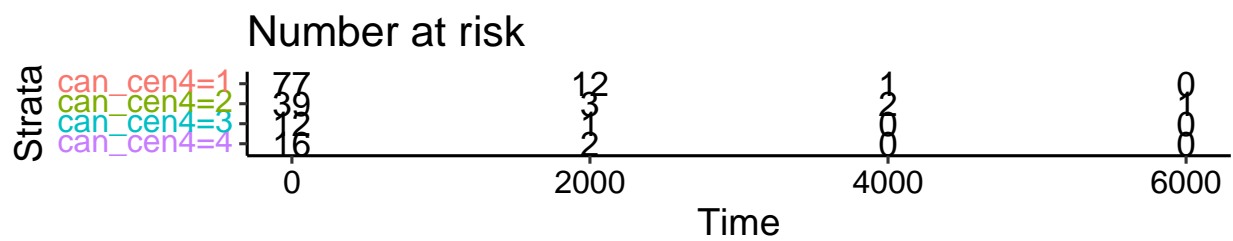
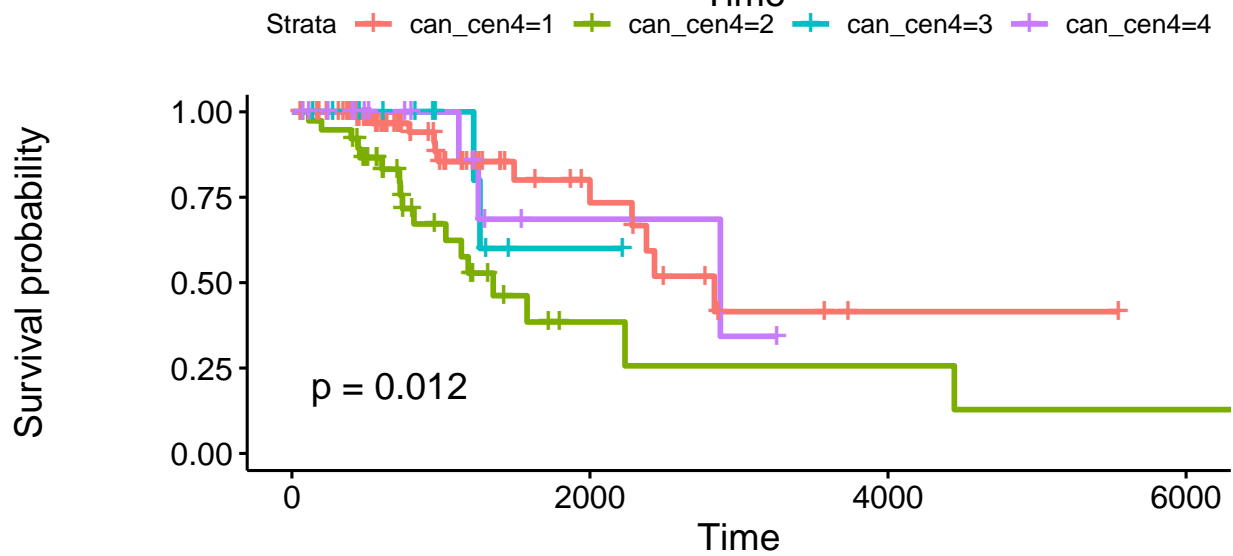
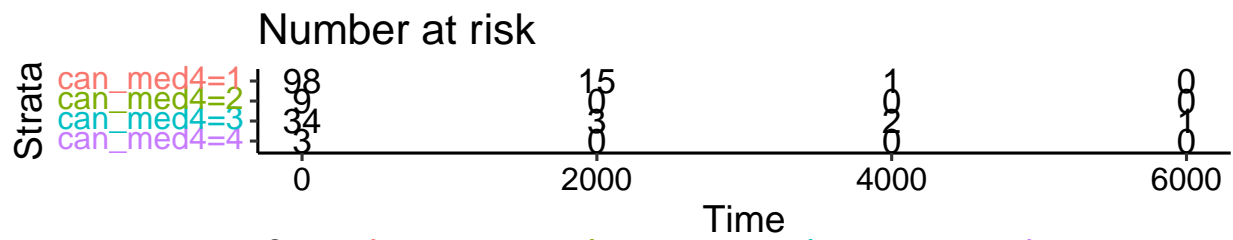
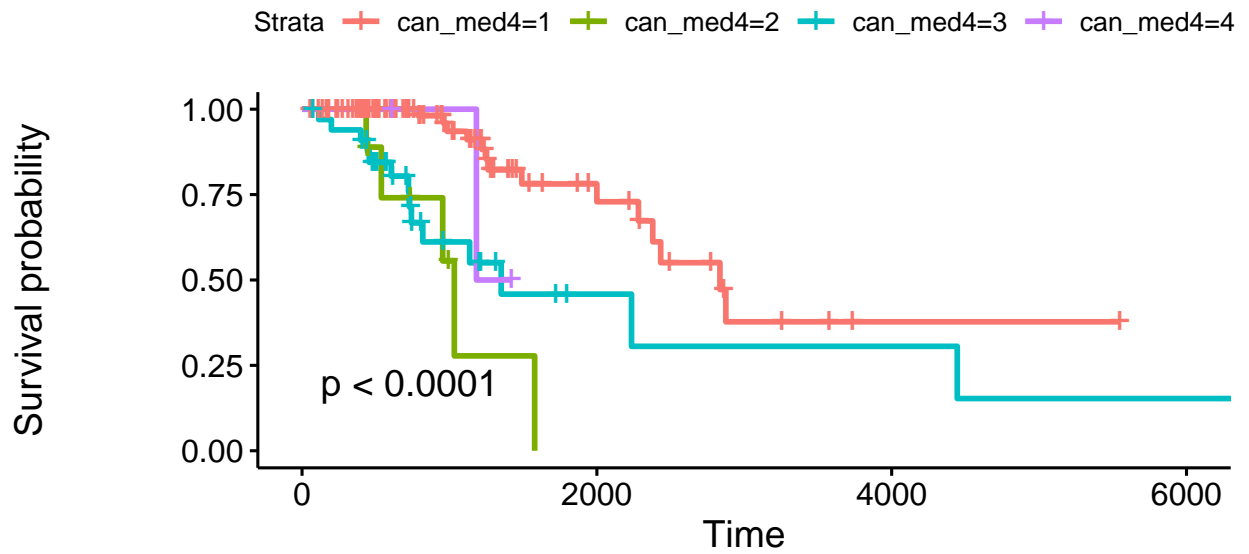






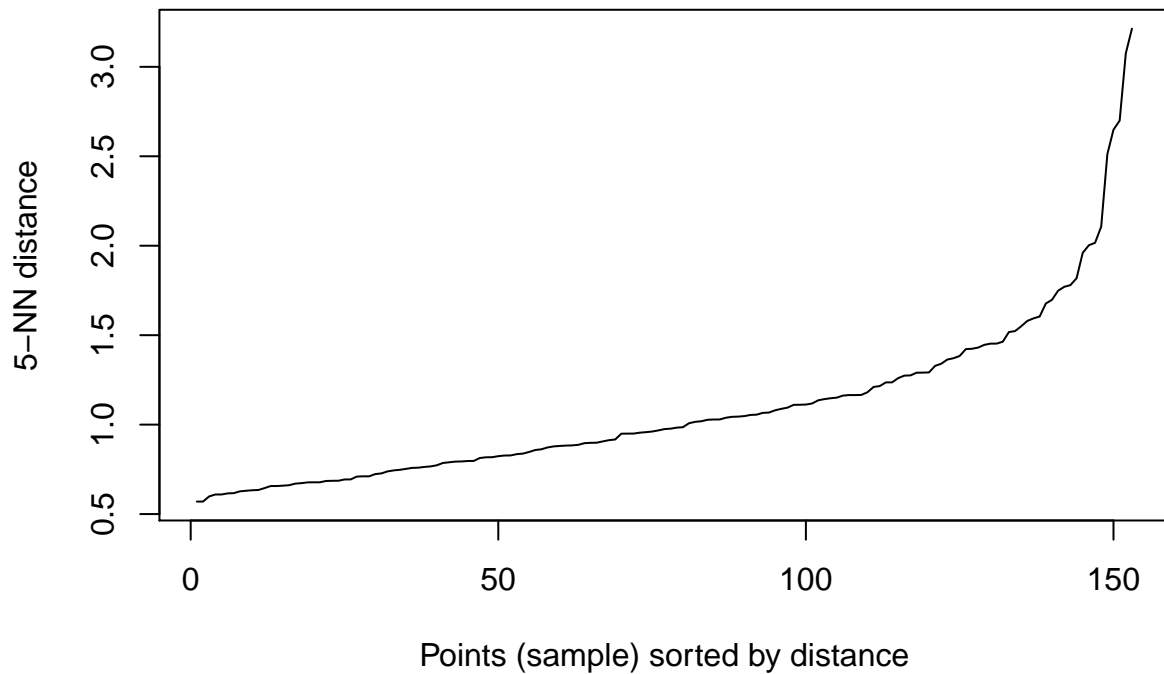






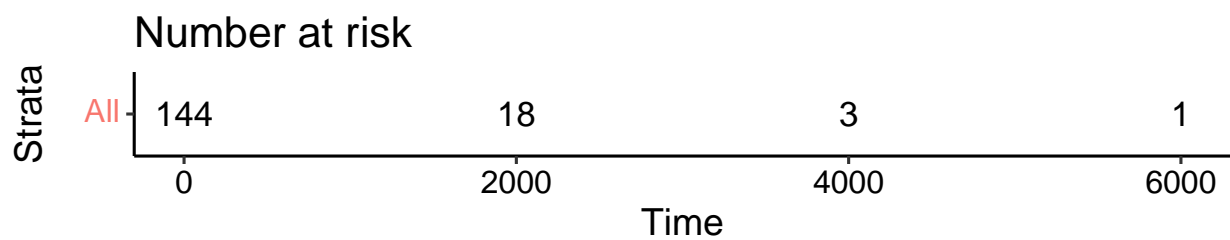
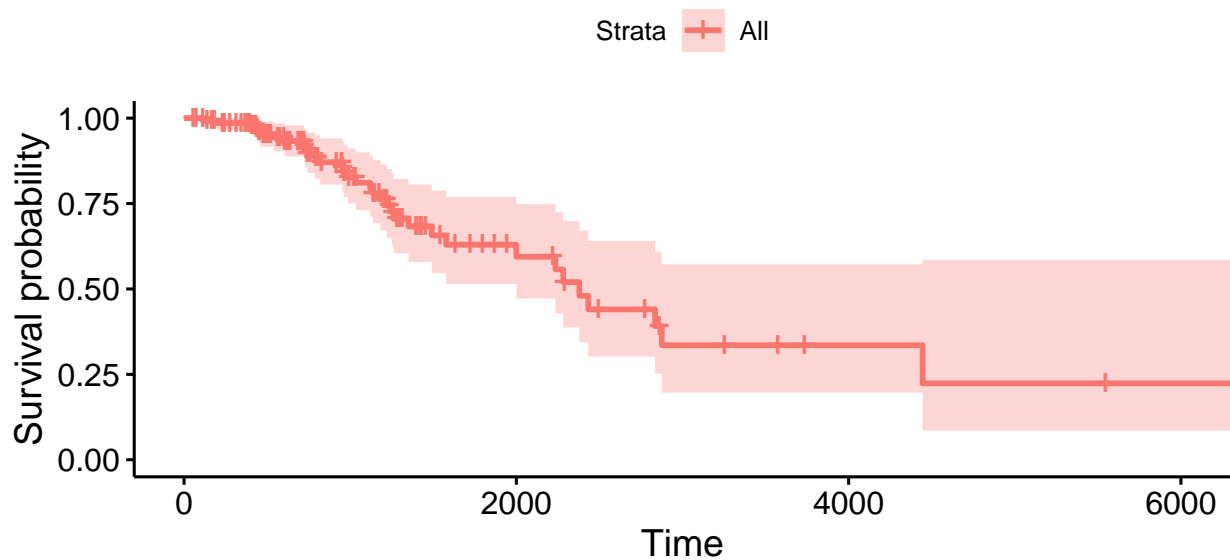
3. DBSCAN

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

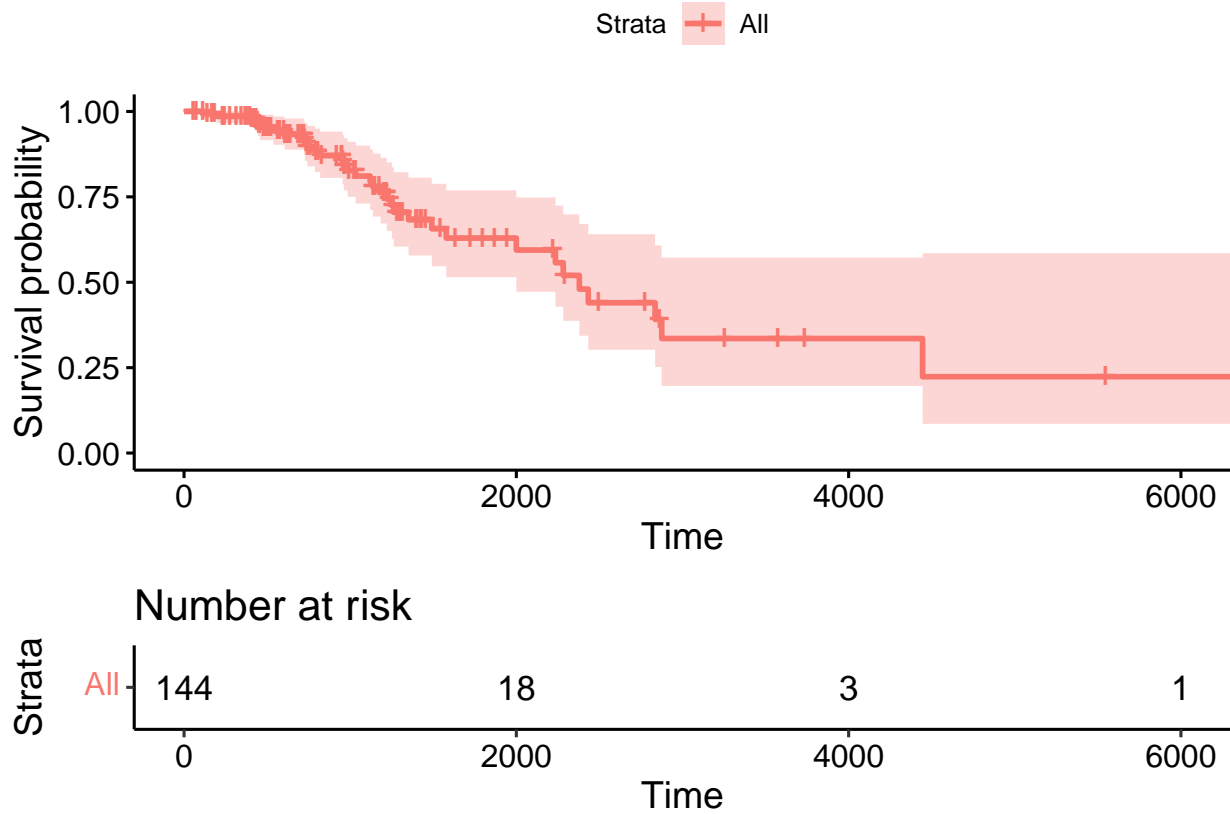


```
## Warning in dbscan(tucker1, eps = 16, MinPts = 20): converting argument MinPts
## (fpc) to minPts (dbscan)!
```

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



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



4. EM algorithm based on GMM

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

