

cp decomposition Breast 73 test rank9

VIVI TANG

16/11/2021

1. Kmeans

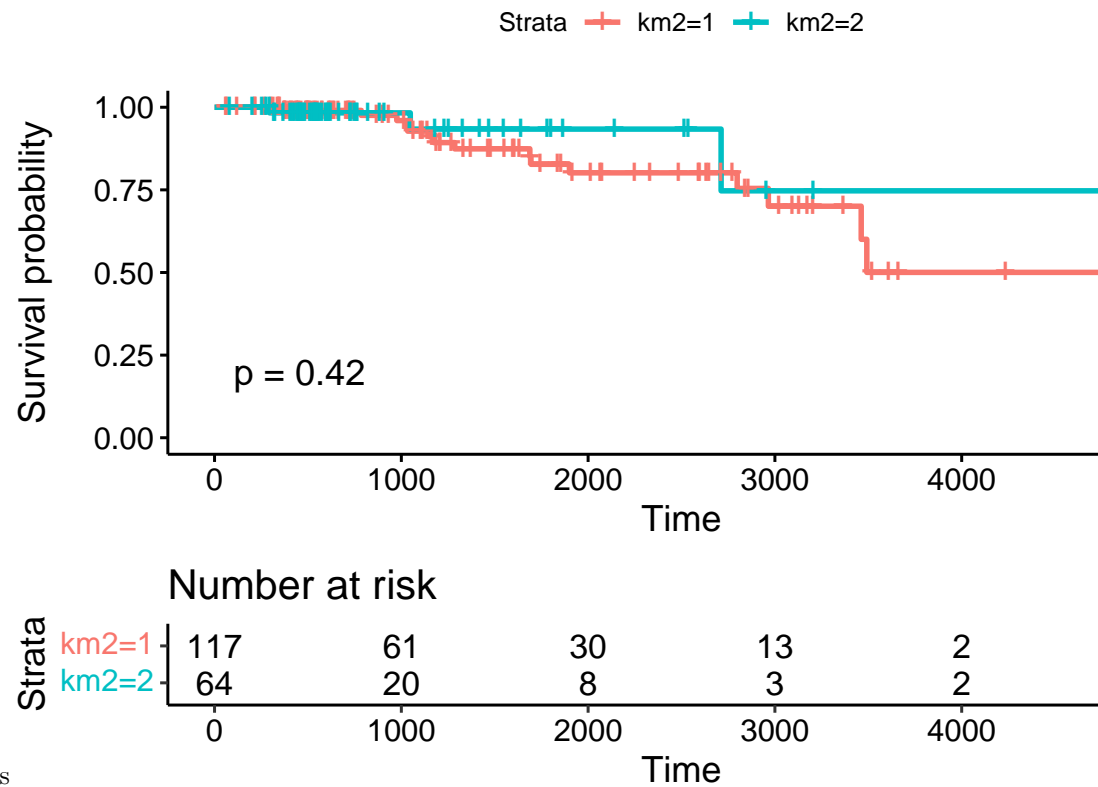
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## Warning: package 'lattice' was built under R version 3.6.2
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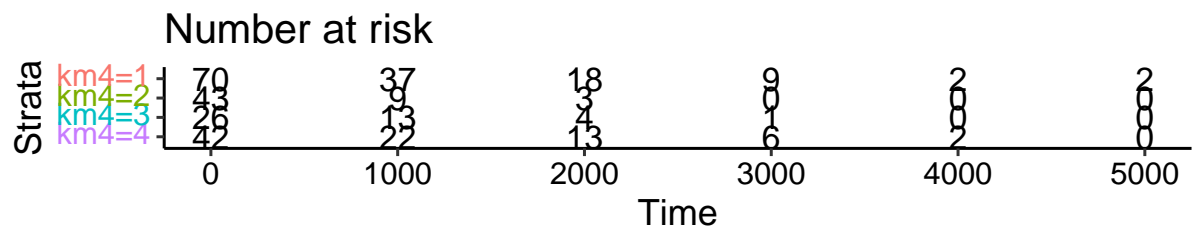
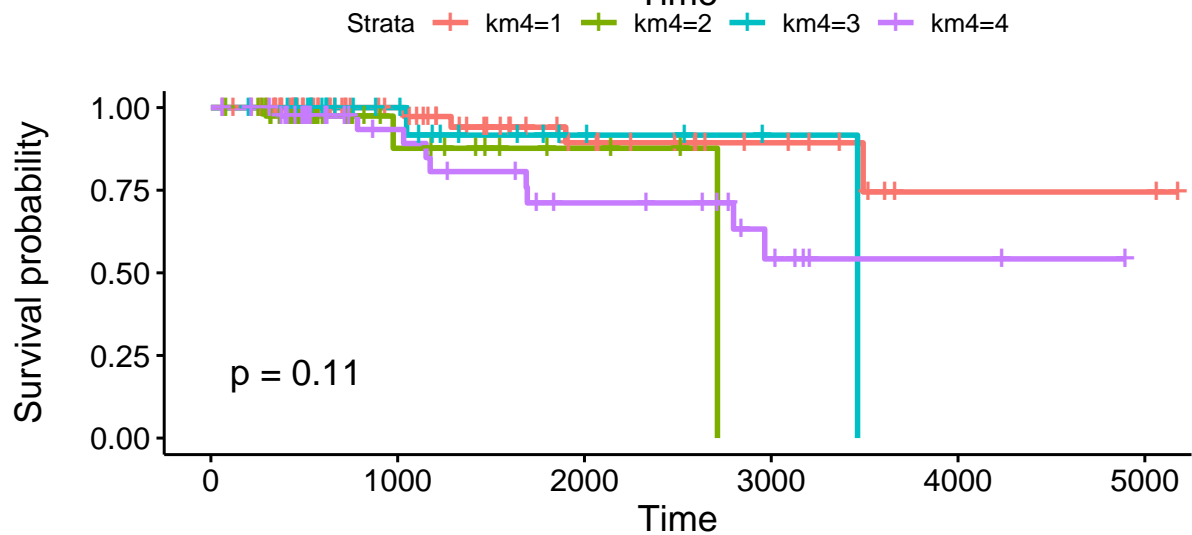
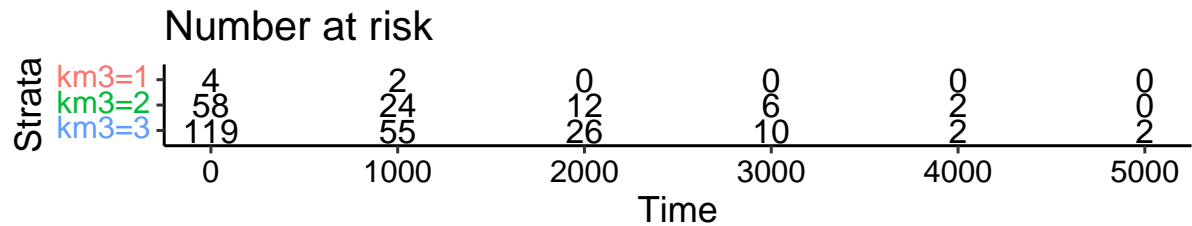
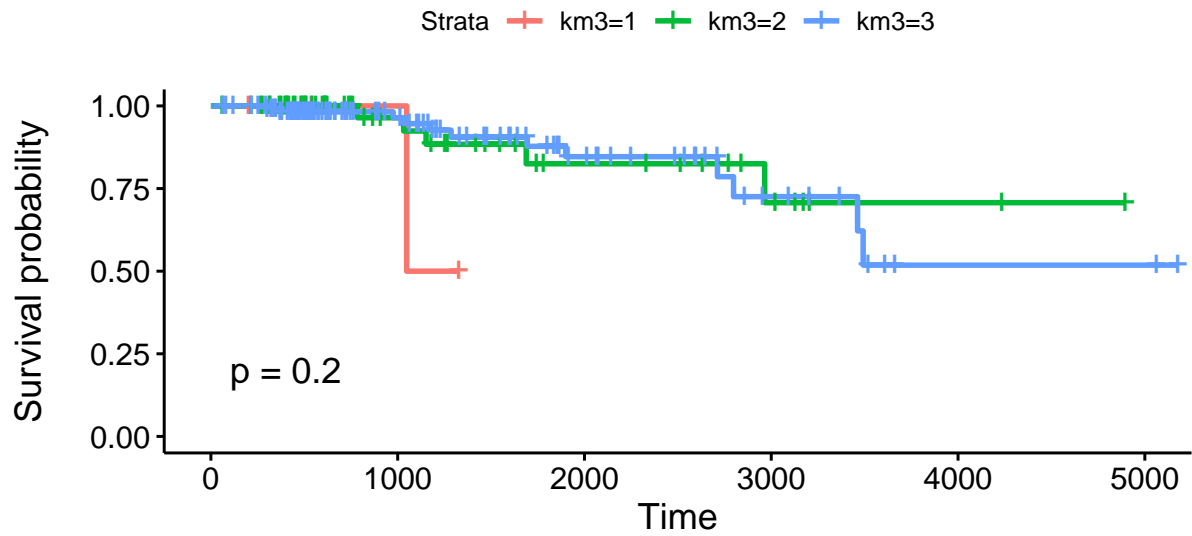
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## Warning: package 'survminer' was built under R version 3.6.2
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## Warning: package 'ggplot2' was built under R version 3.6.2
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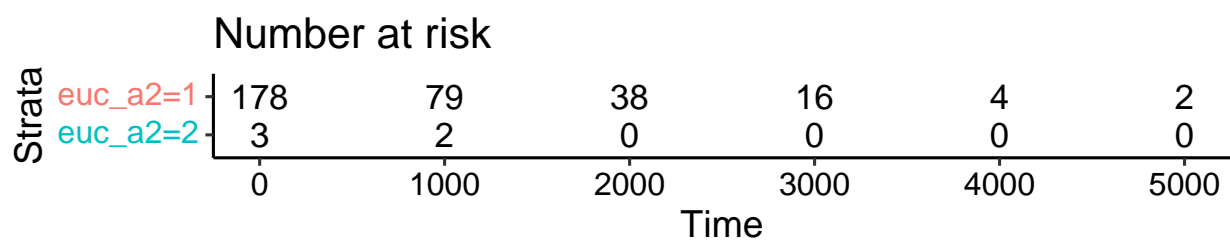
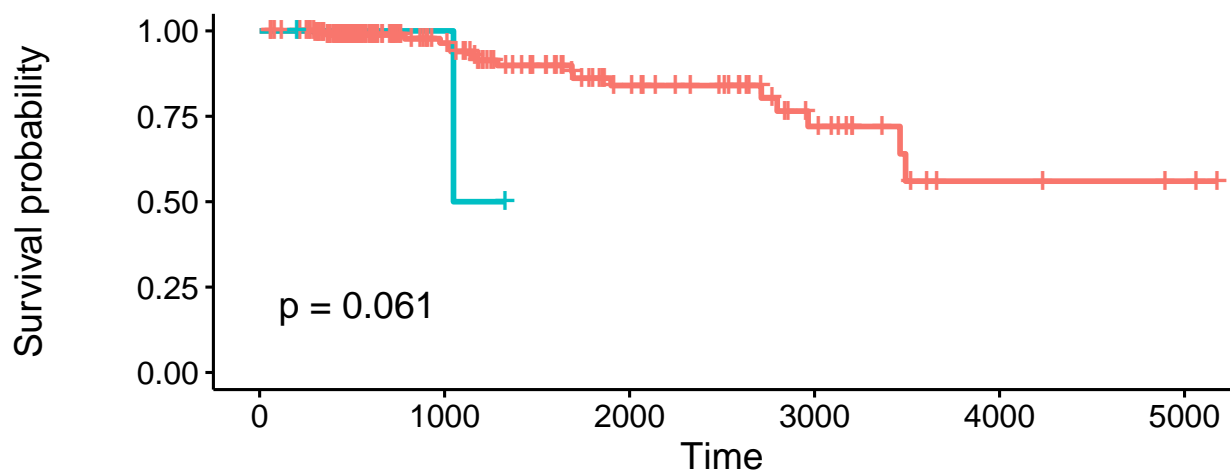
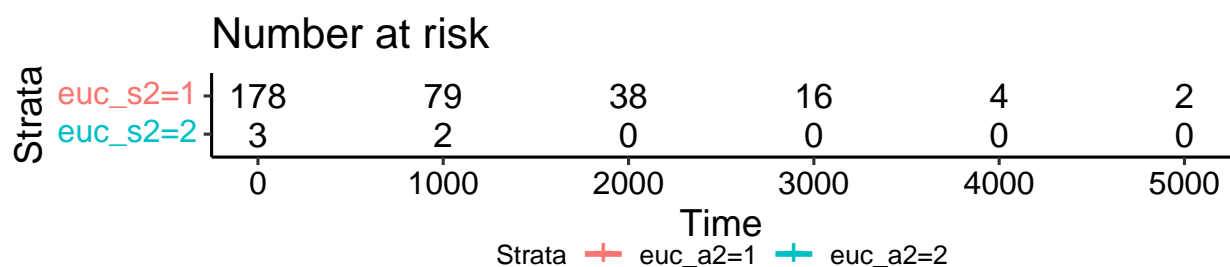
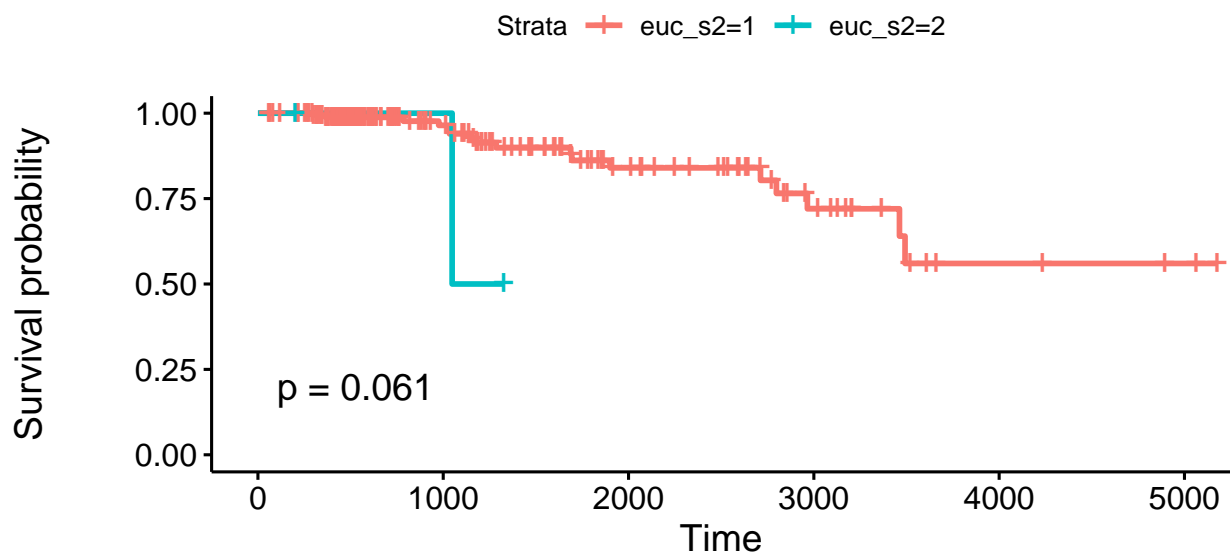


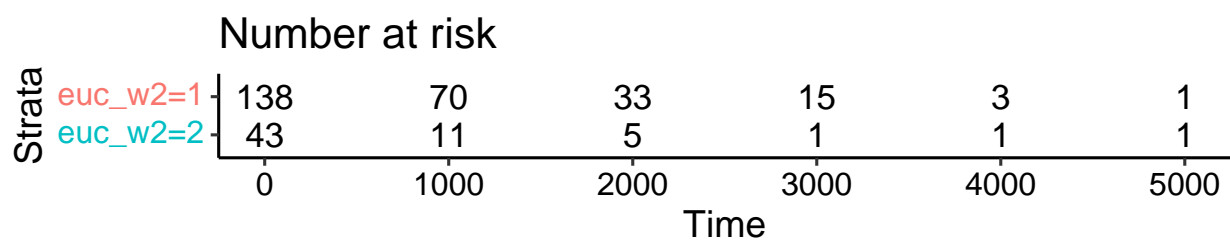
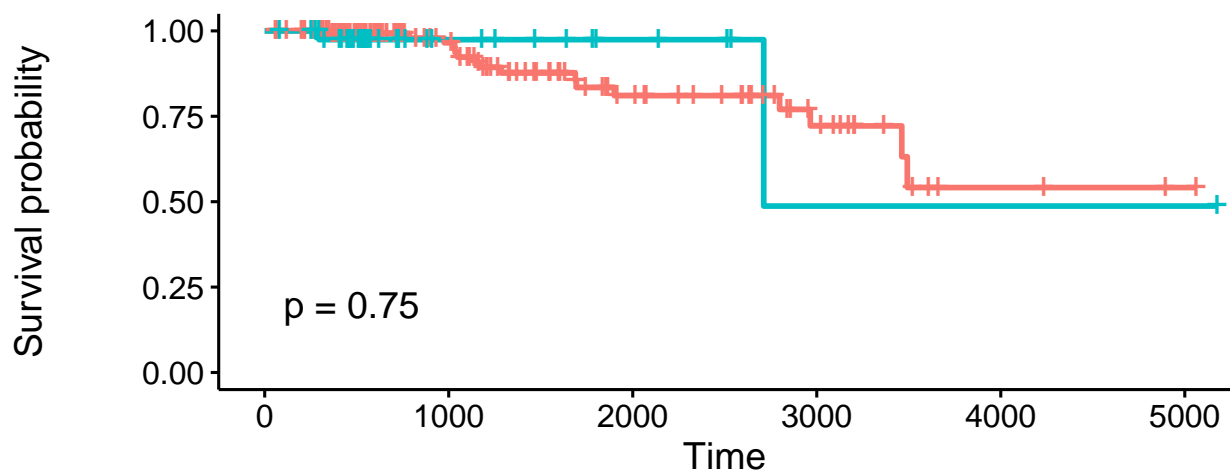
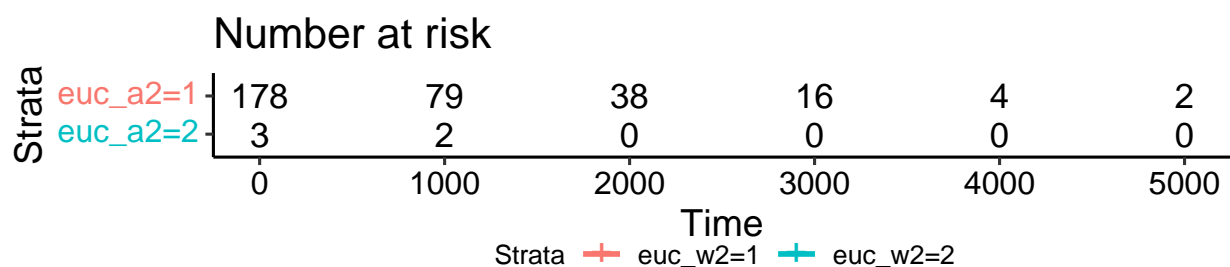
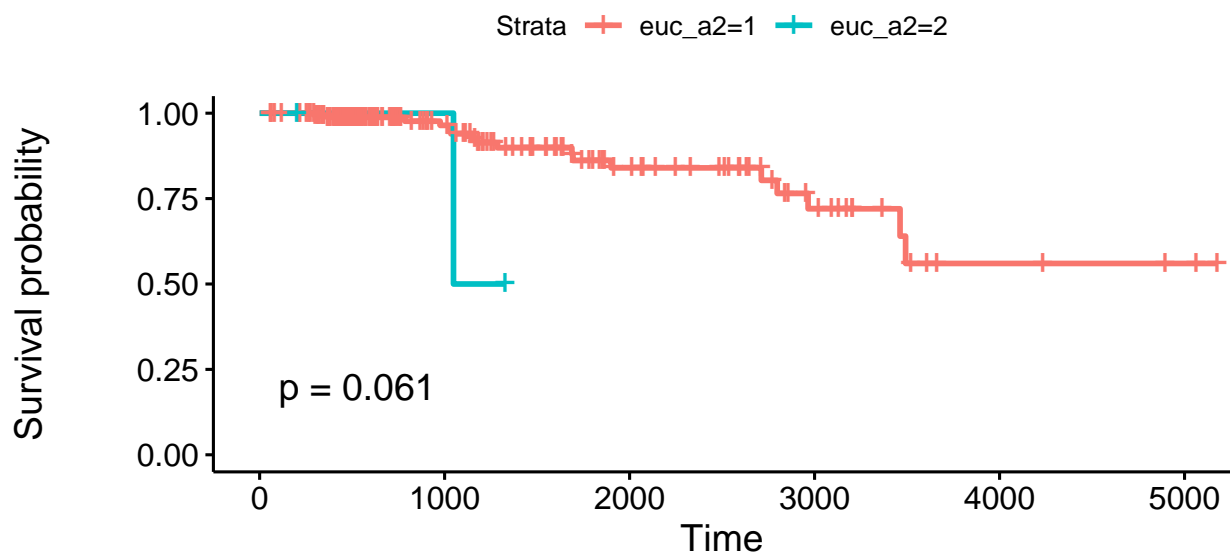
3. Fit the results of Kmeans

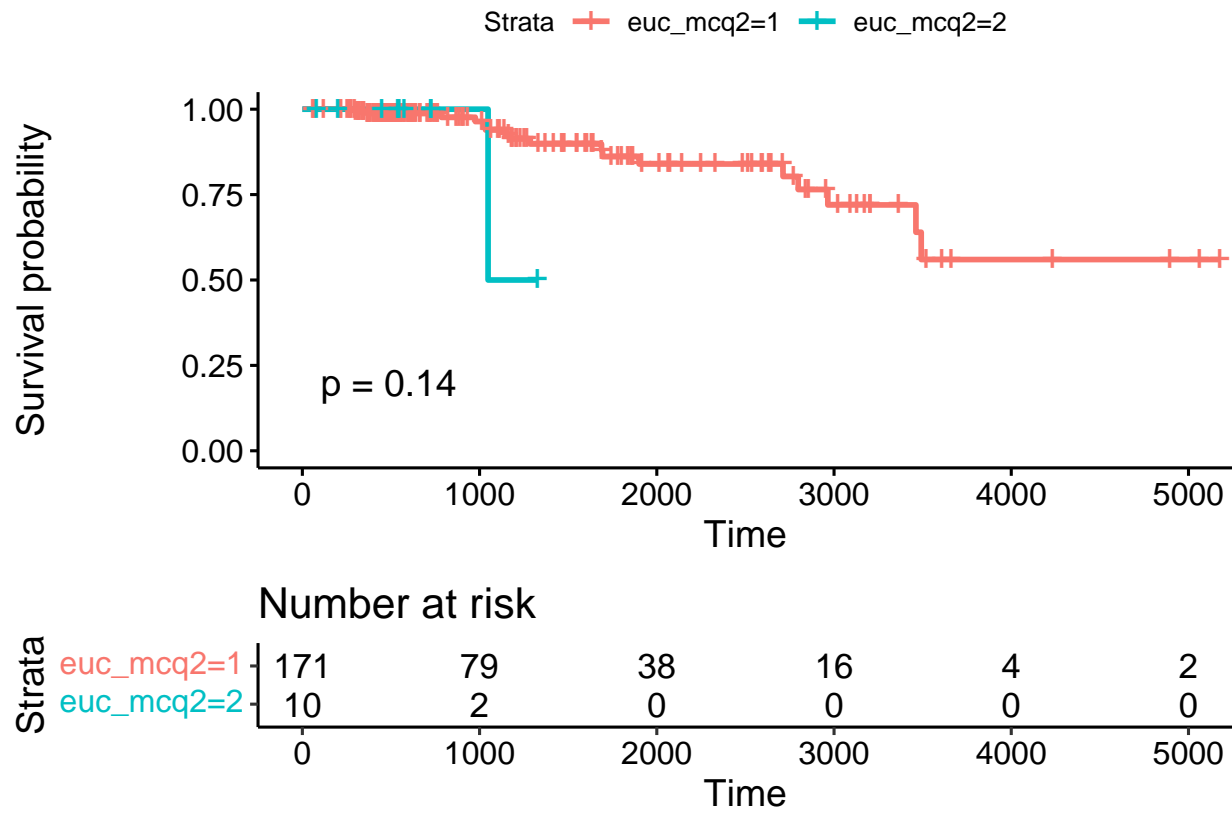


4. Hierarchical Clustering

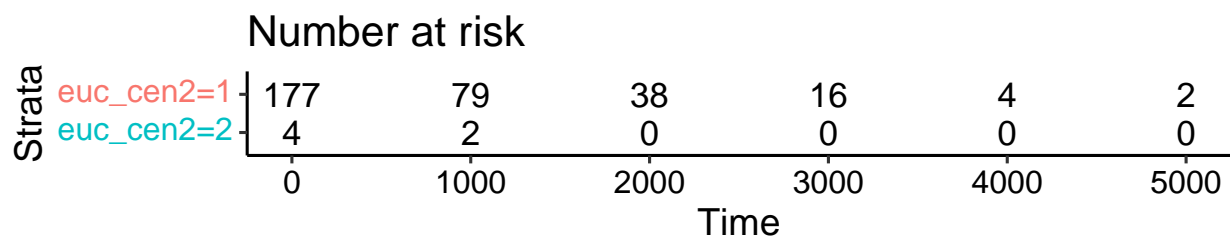
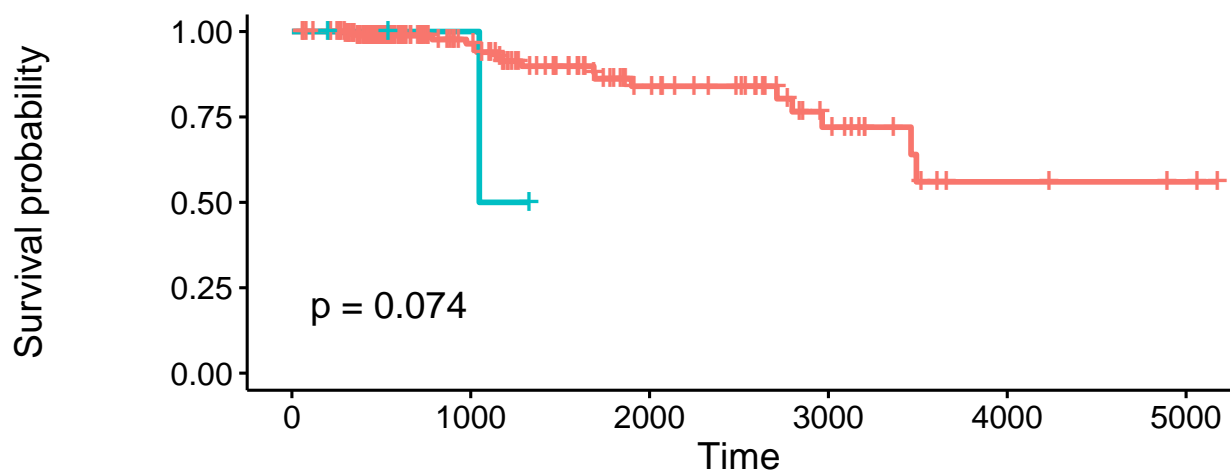
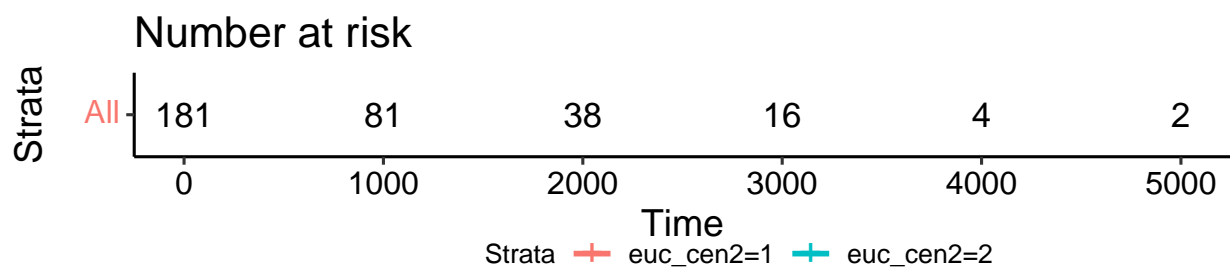
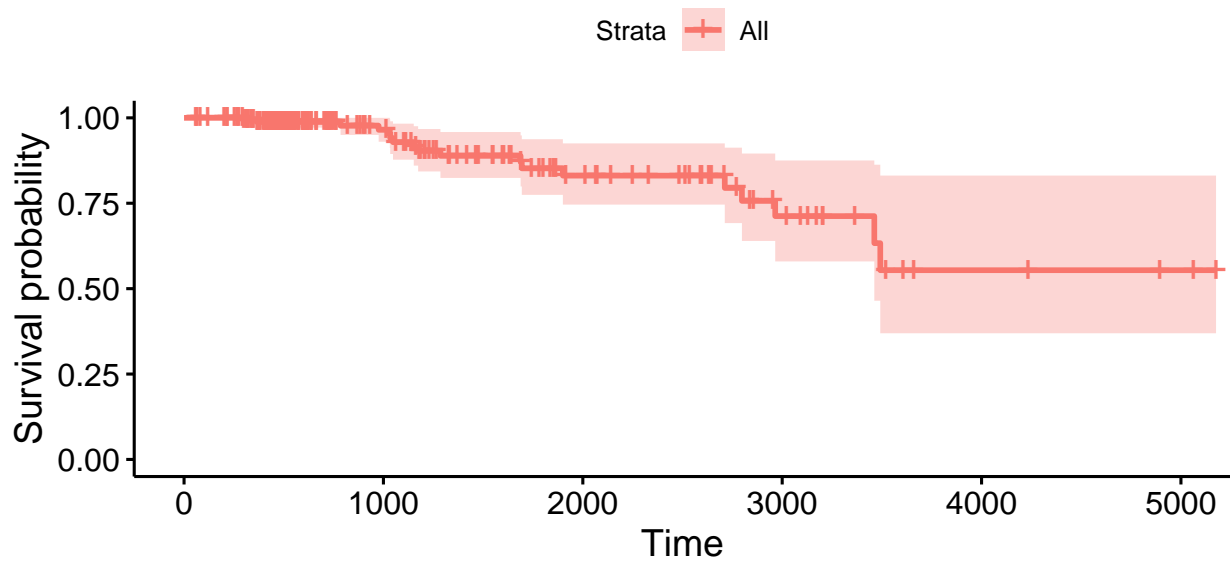
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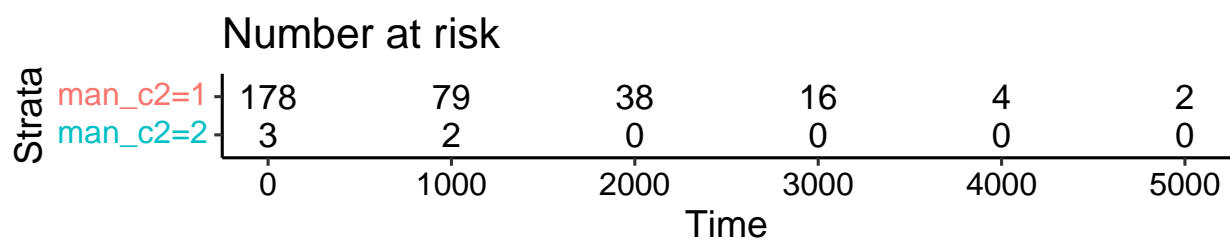
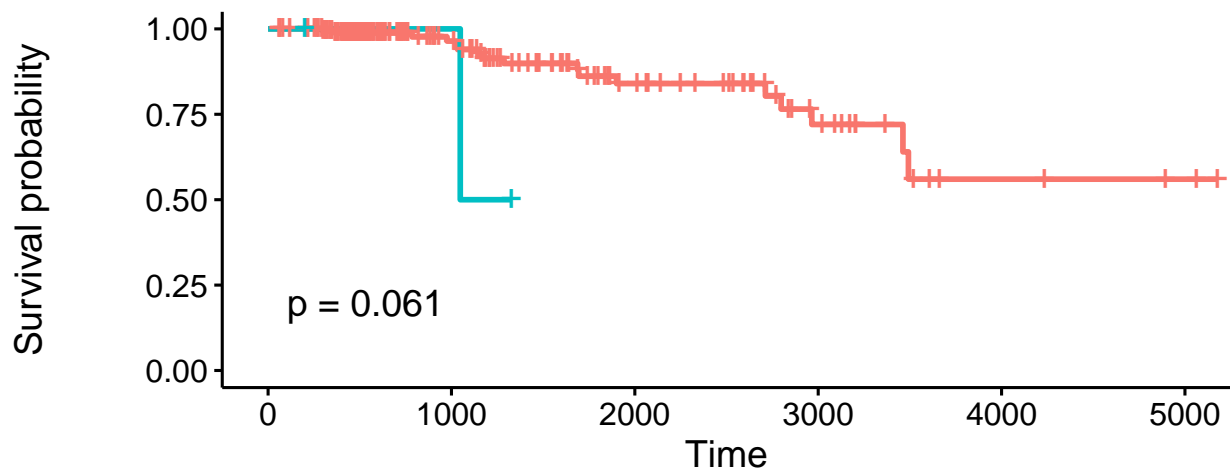
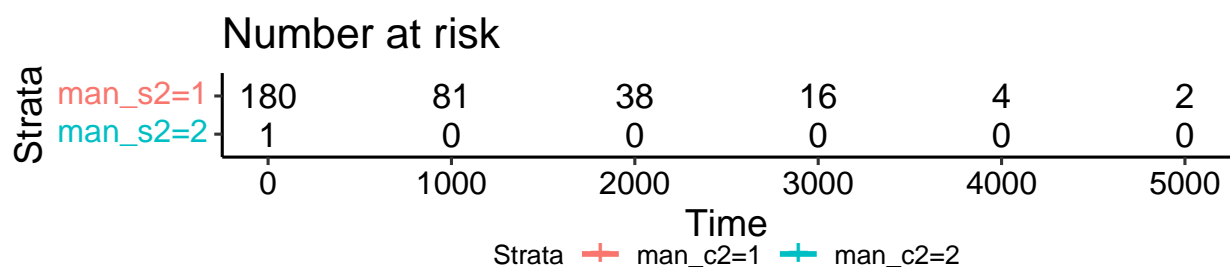
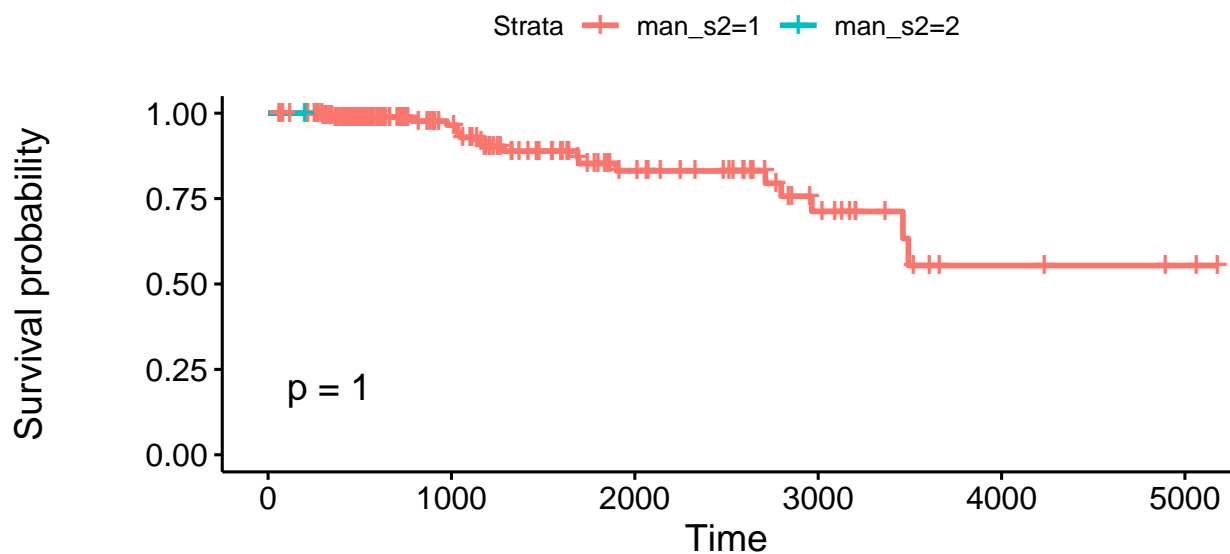


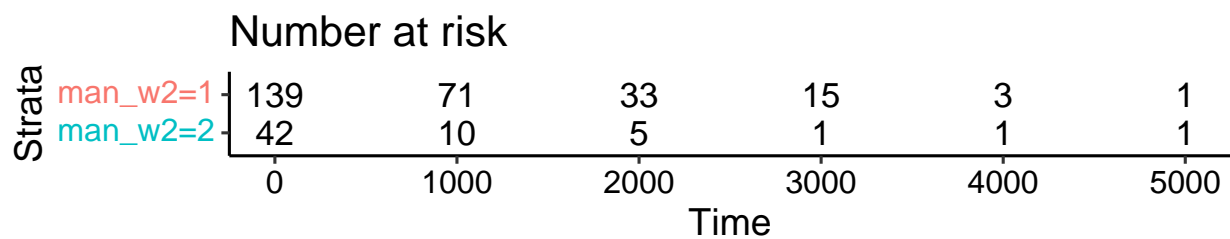
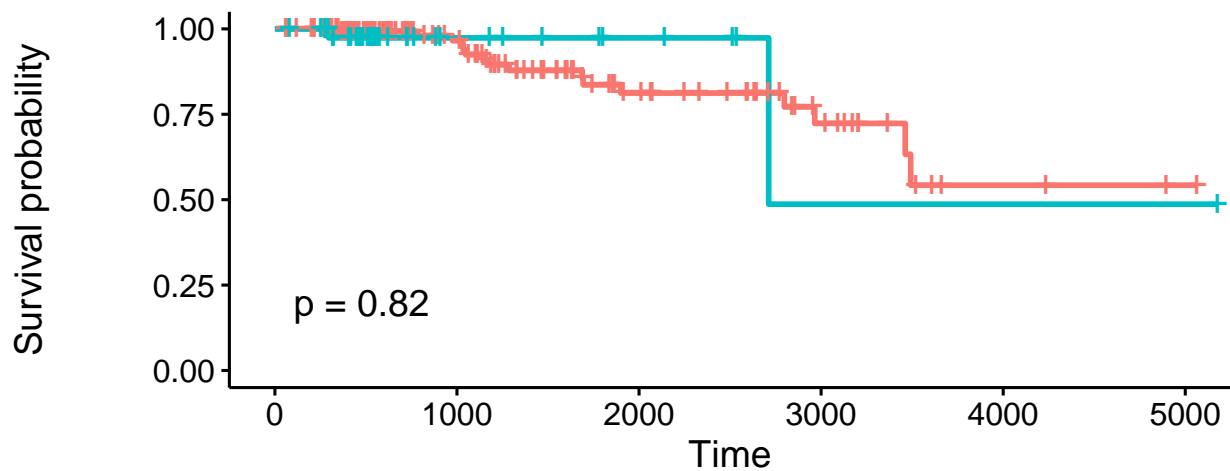
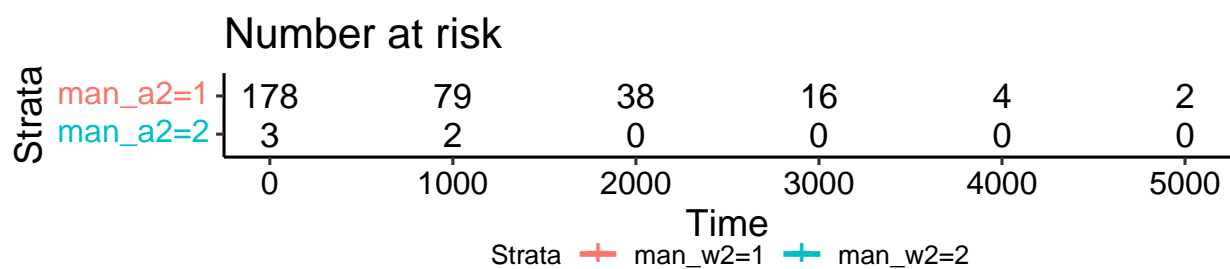
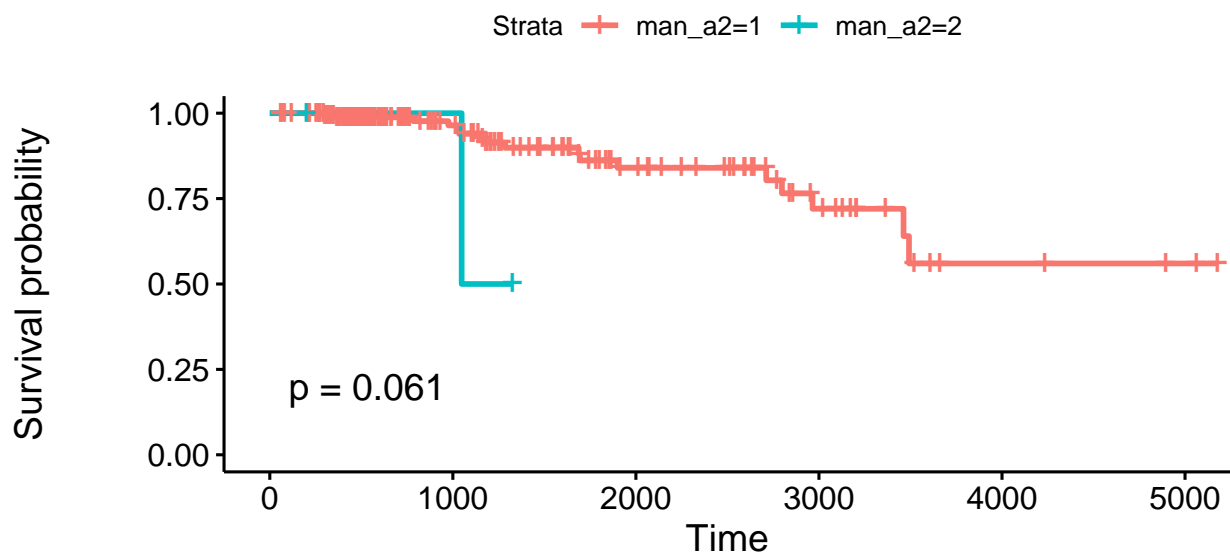


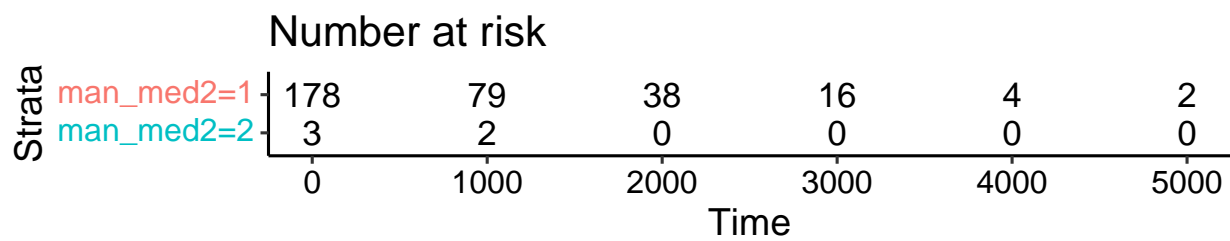
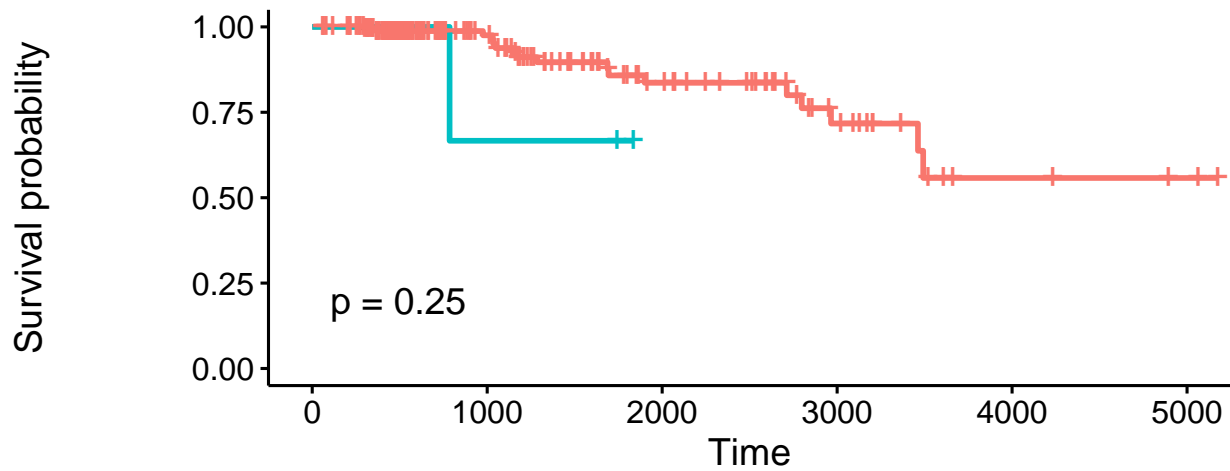
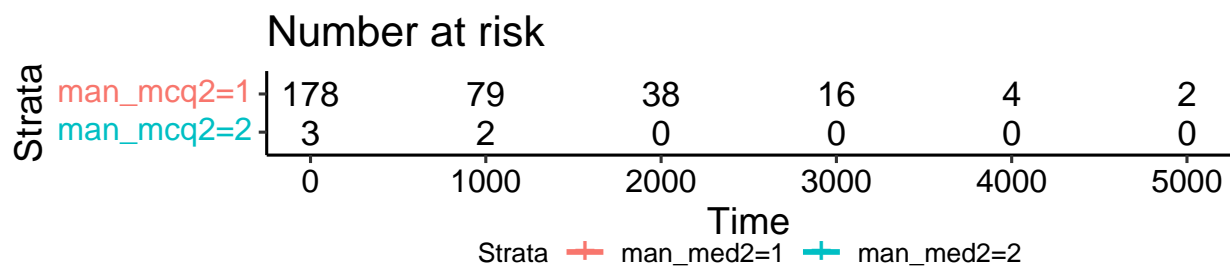
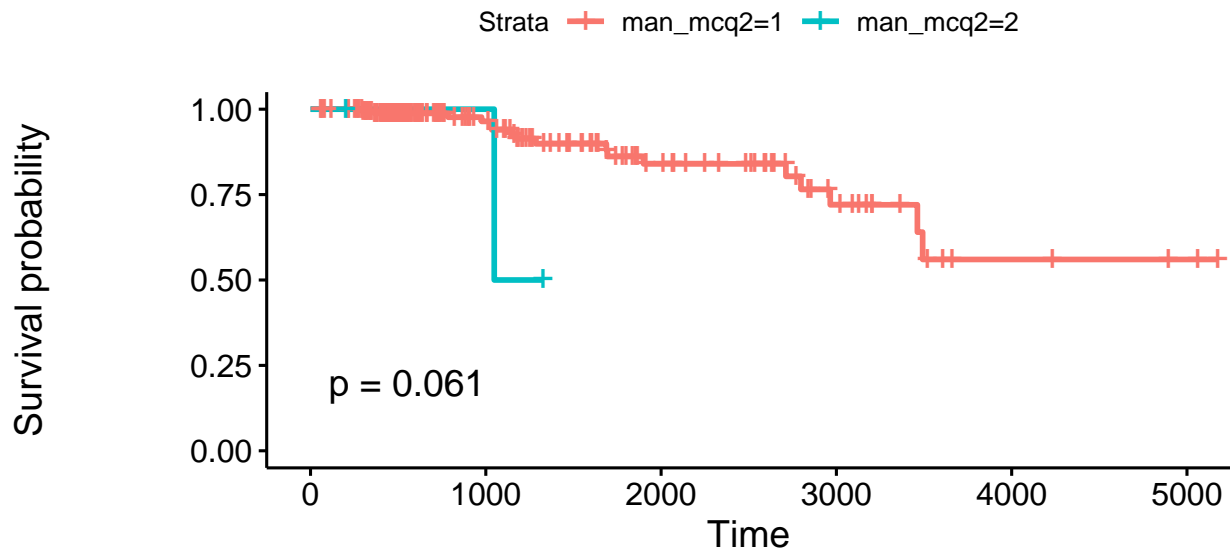


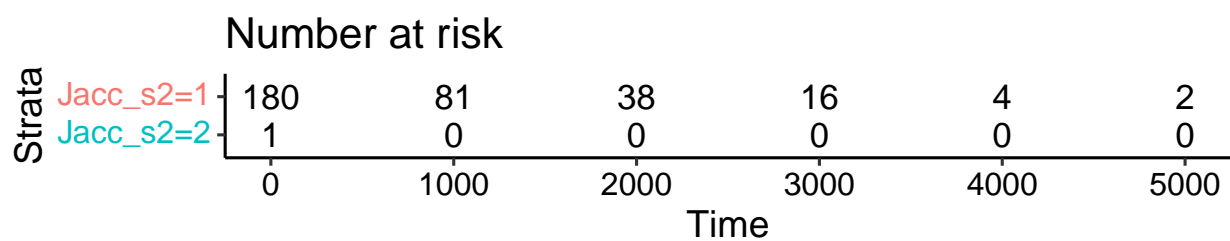
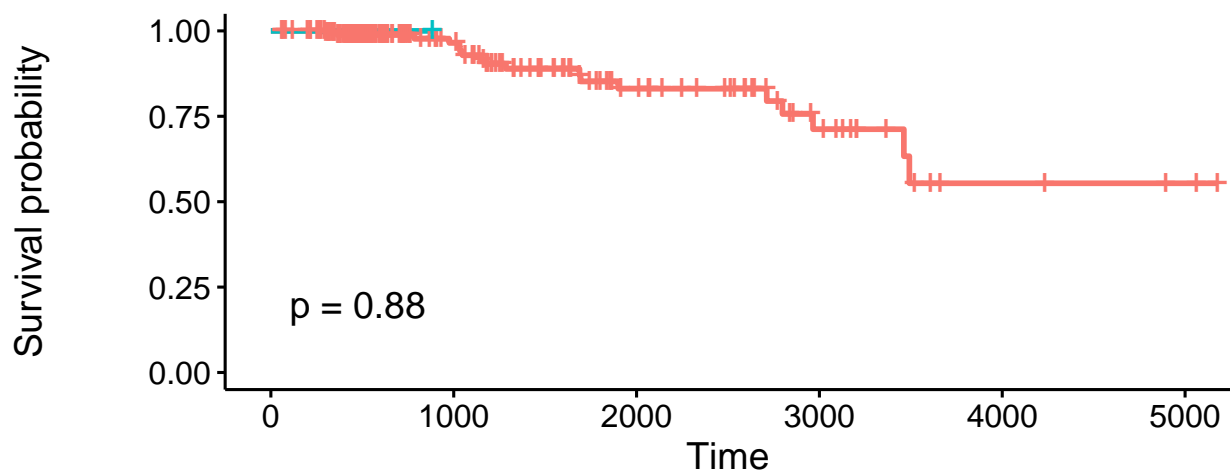
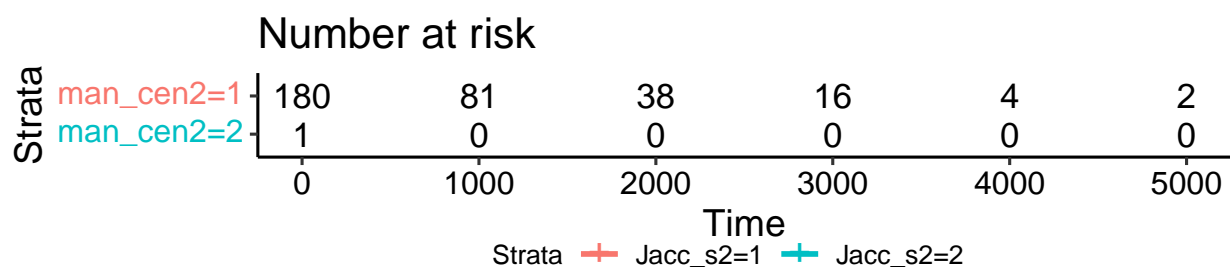
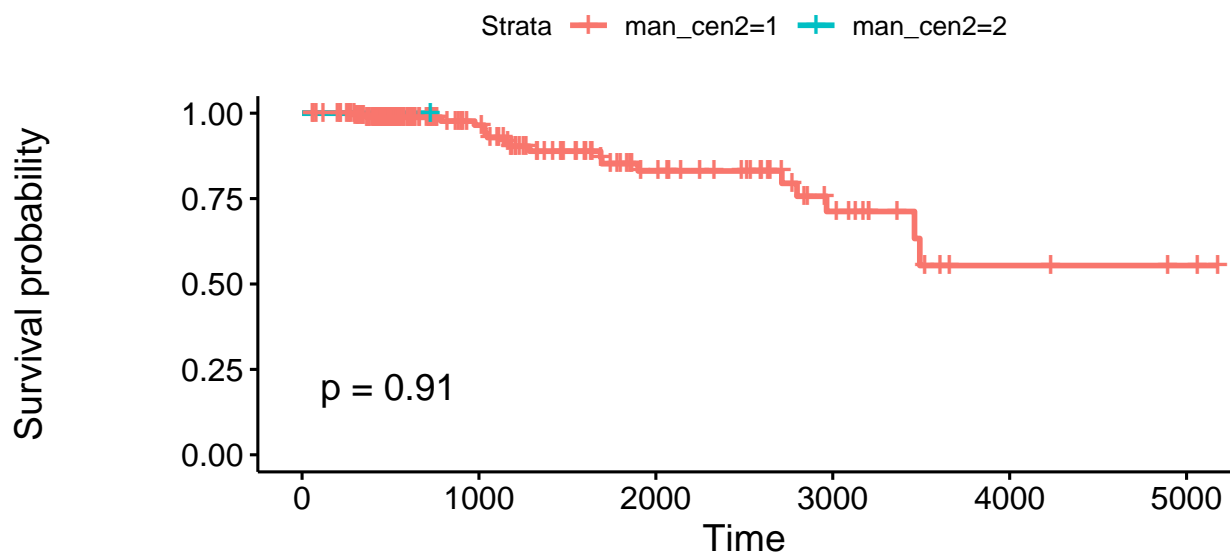
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## Warning in .pvalue(fit, data = data, method = method, pval = pval, pval.coord = pval.coord, : There a
## This is a null model.
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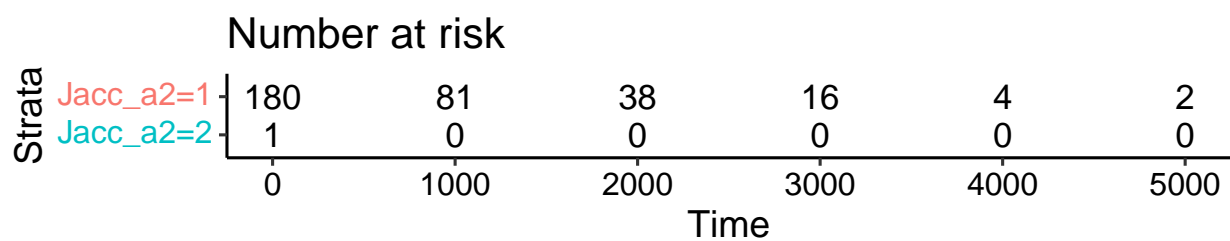
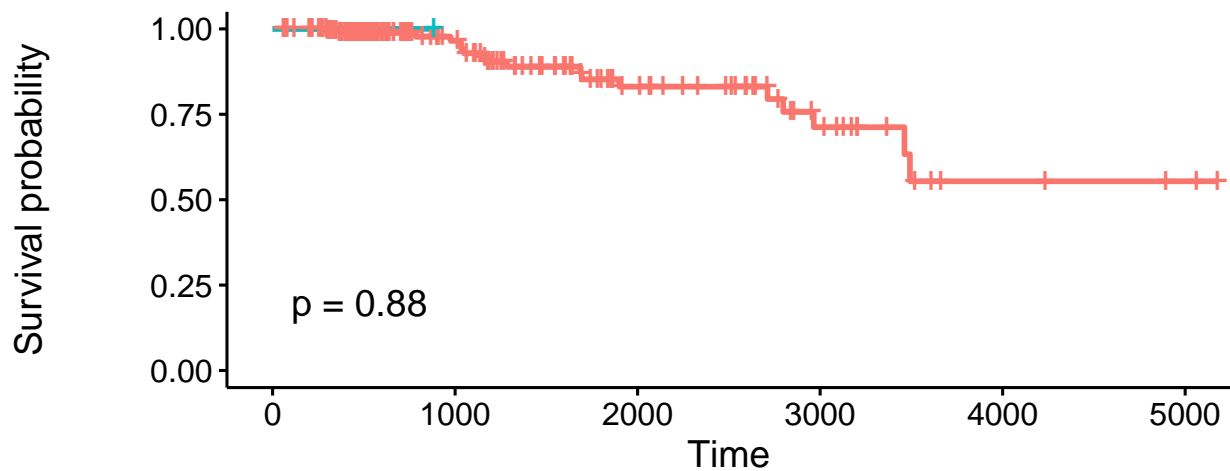
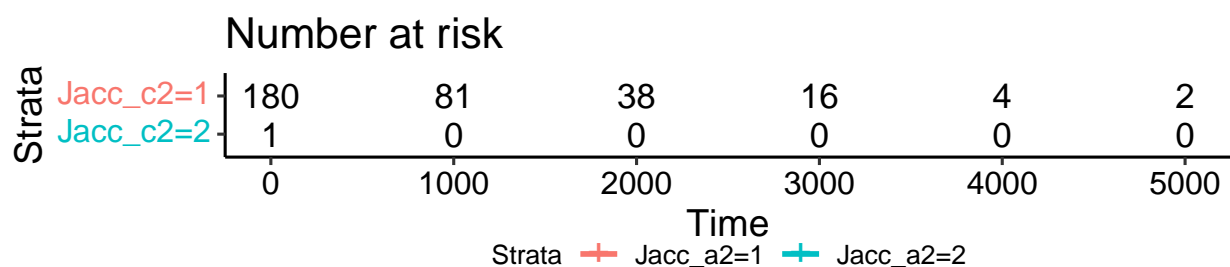
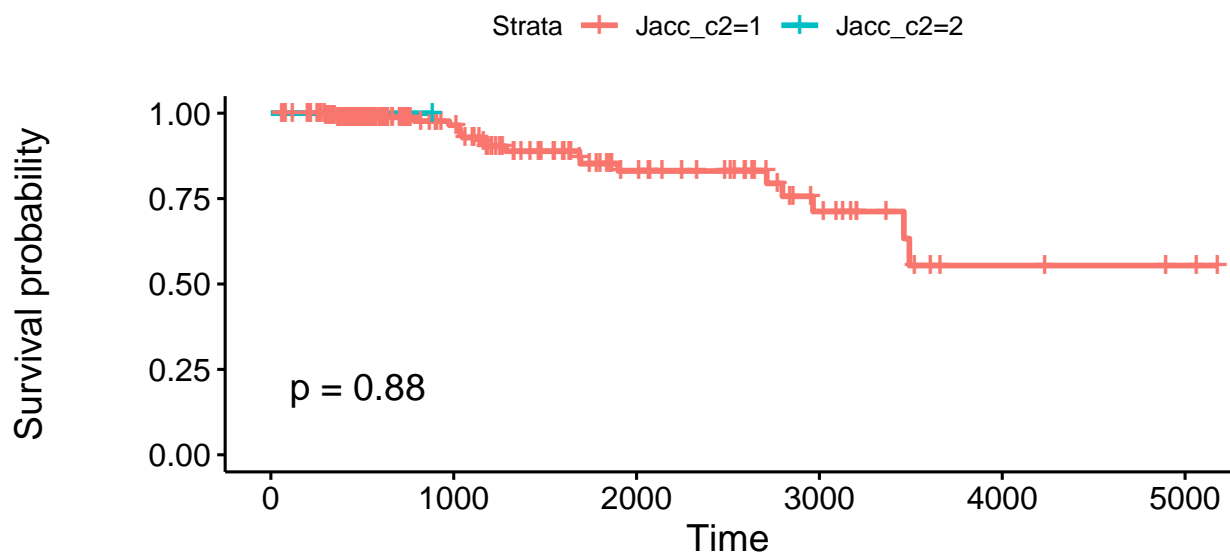


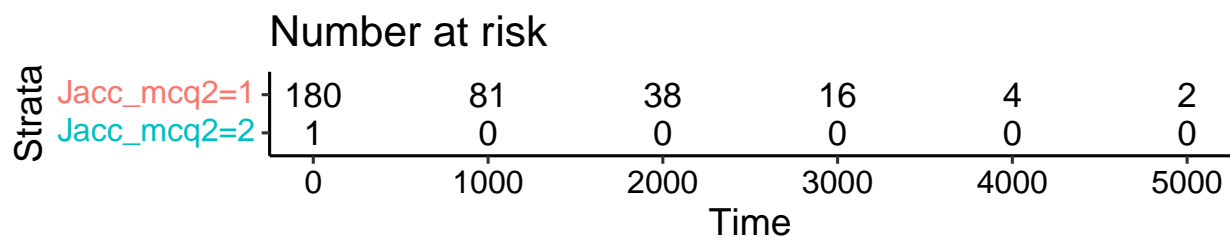
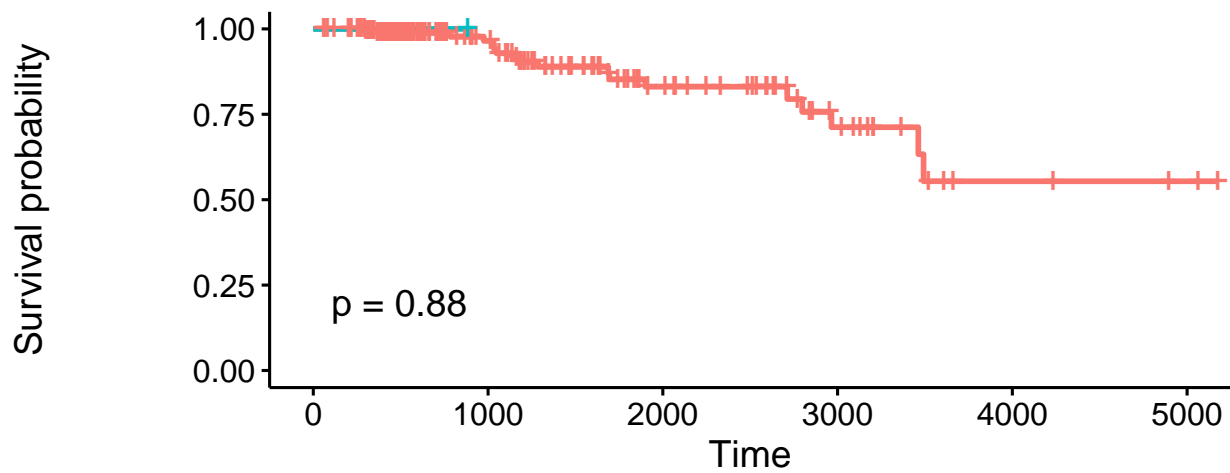
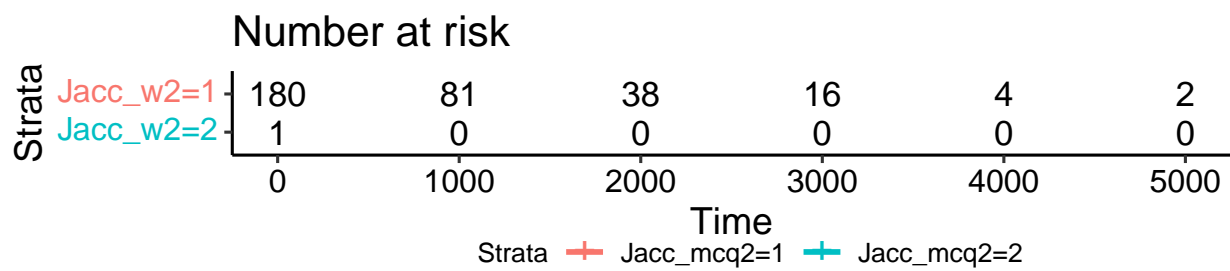
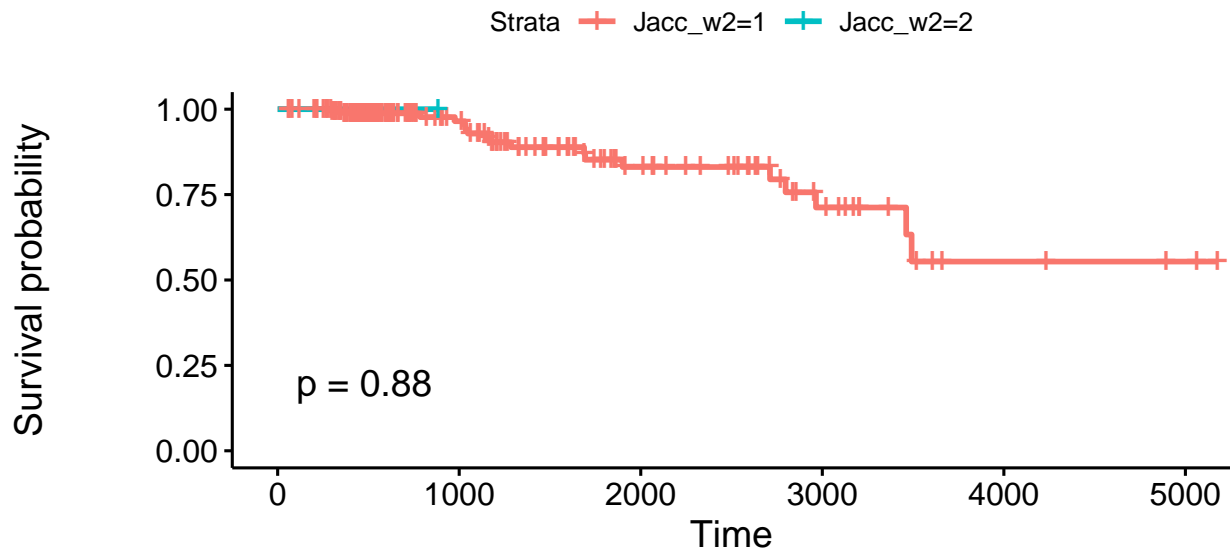


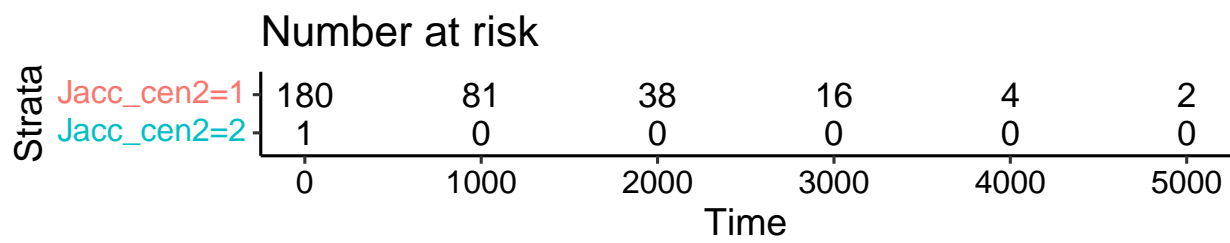
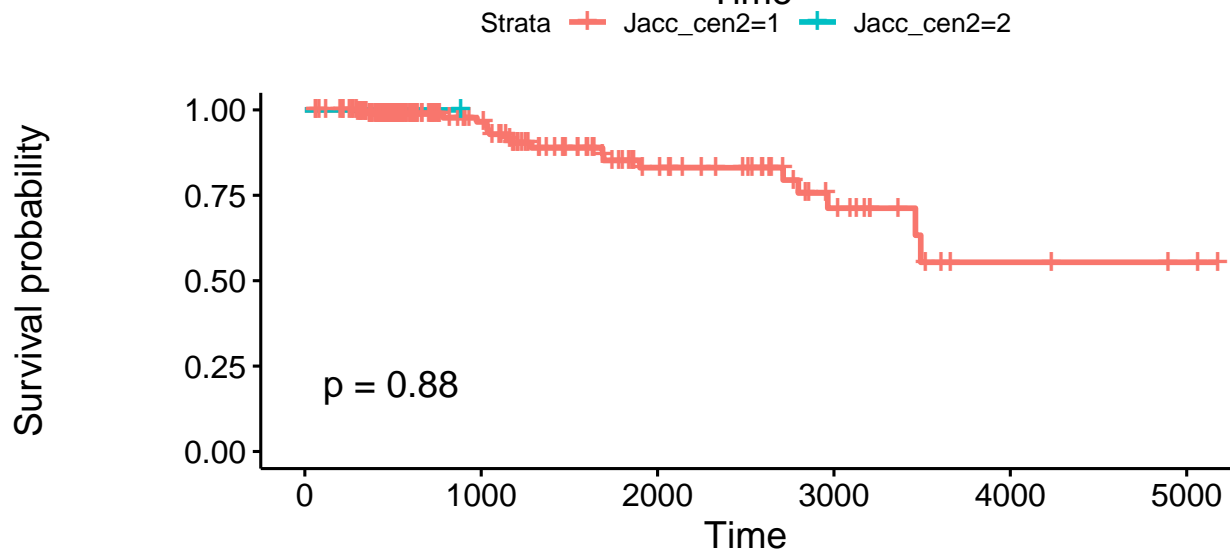
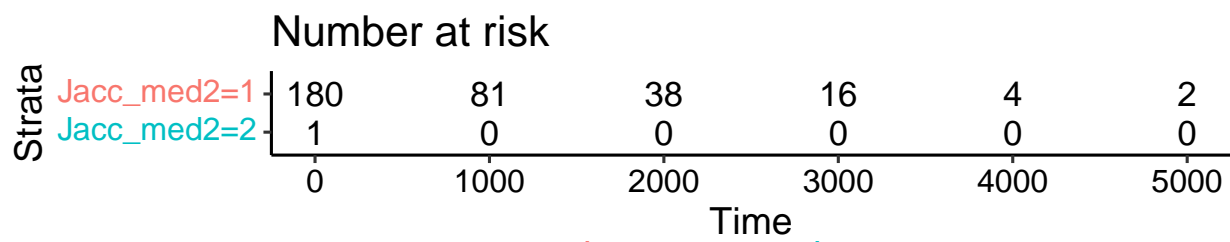
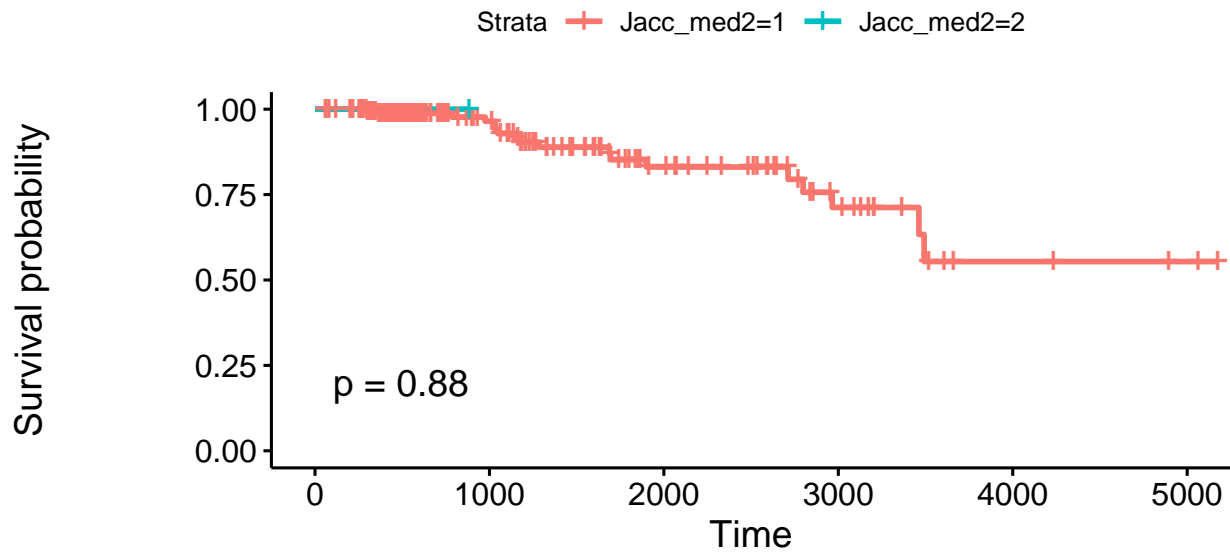


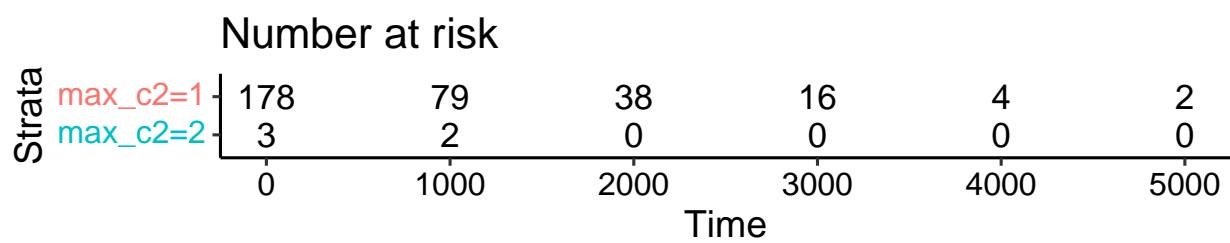
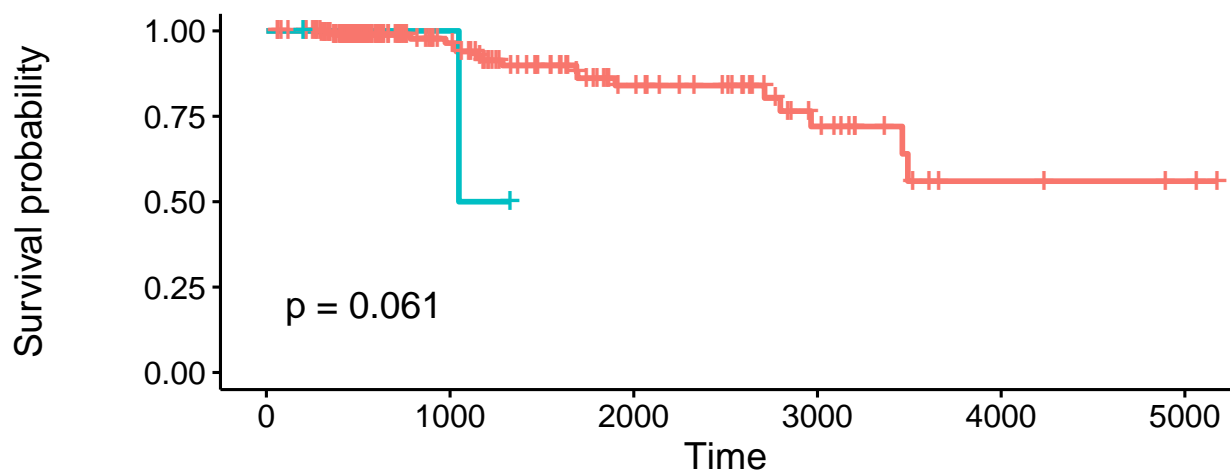
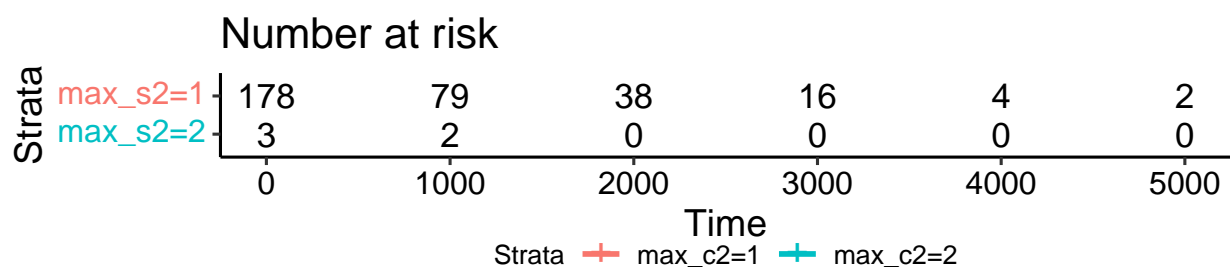
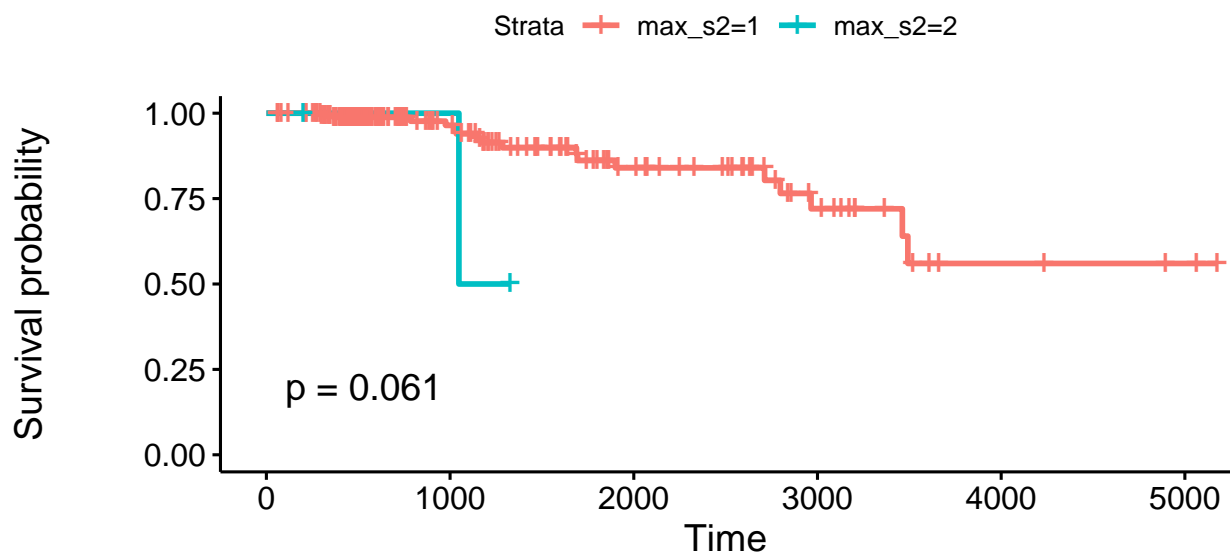


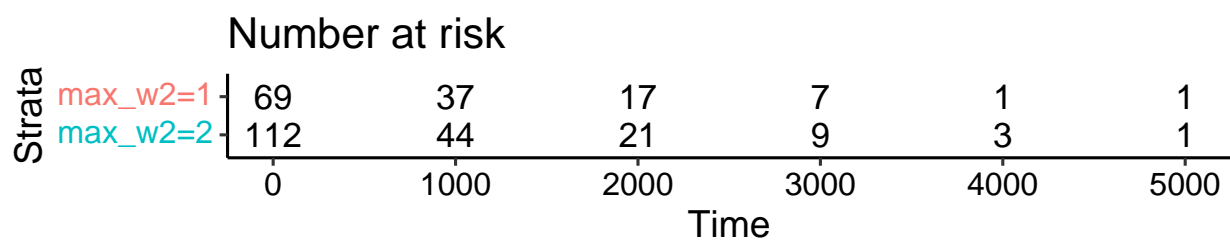
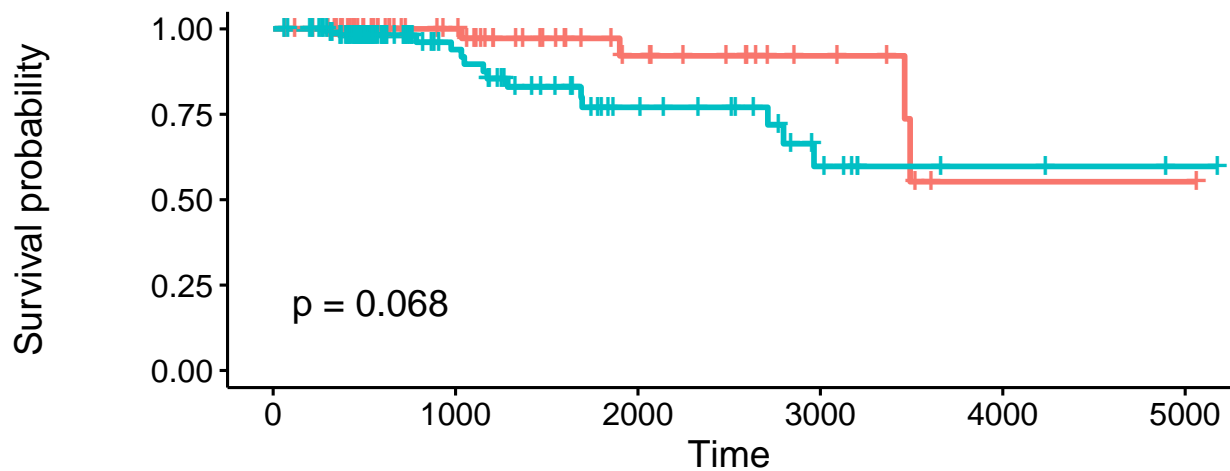
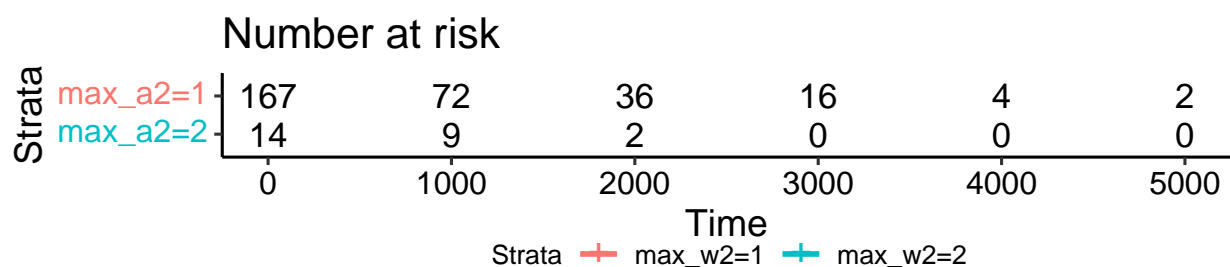
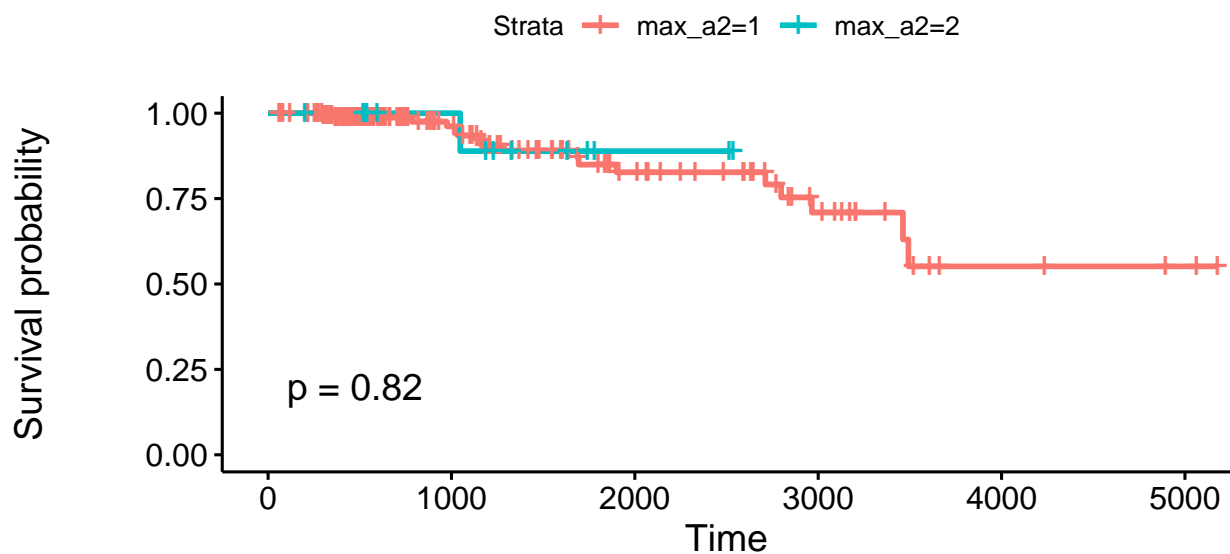


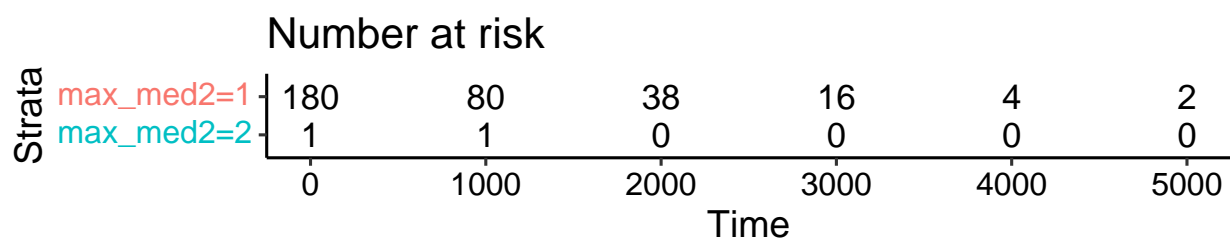
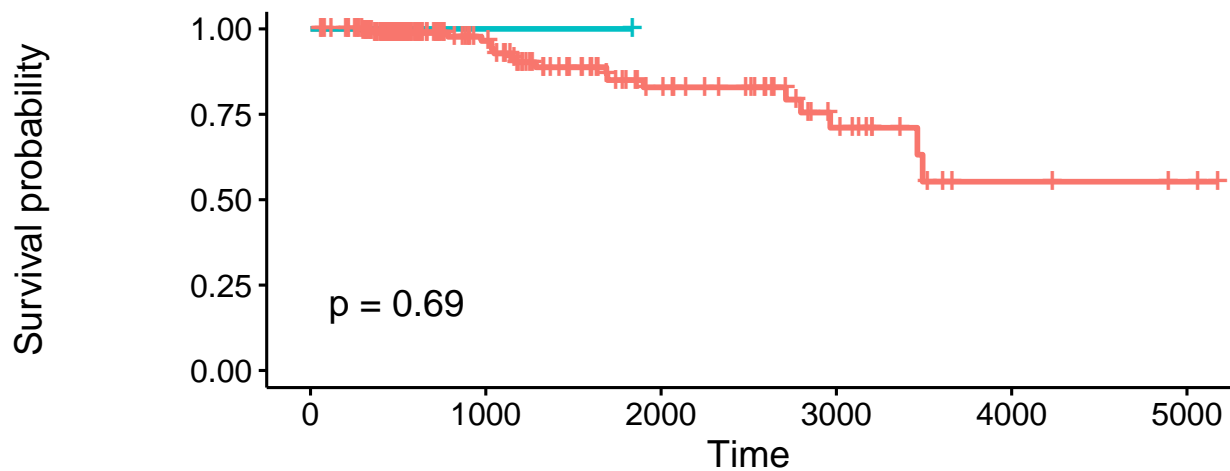
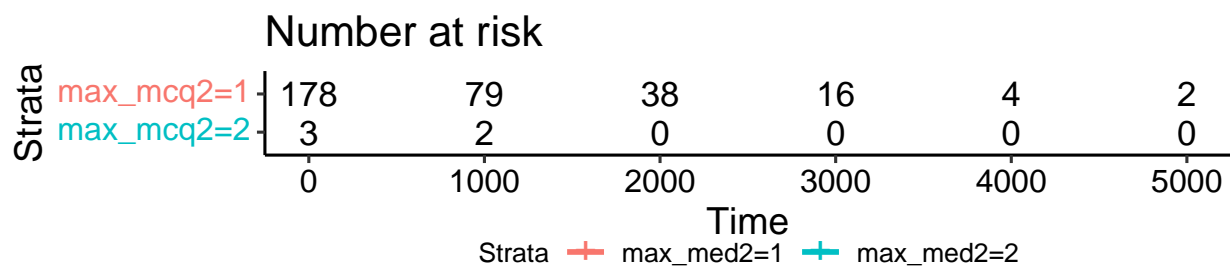
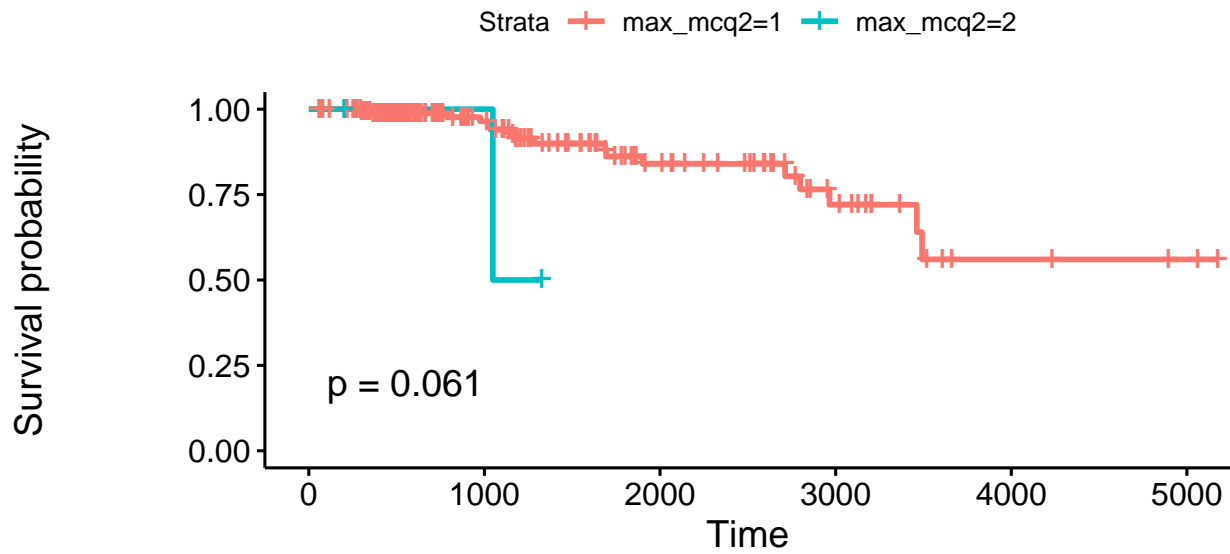




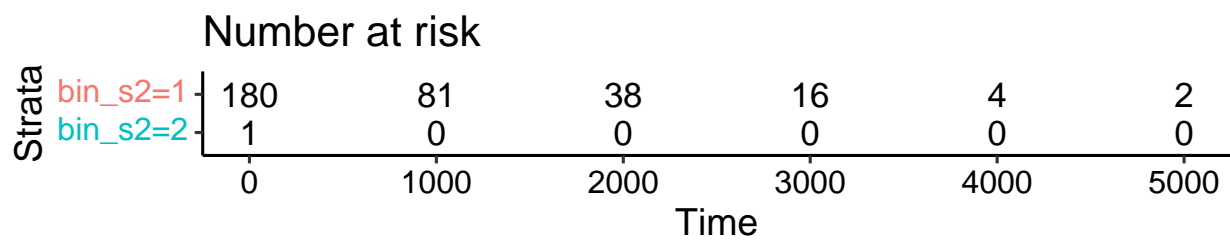
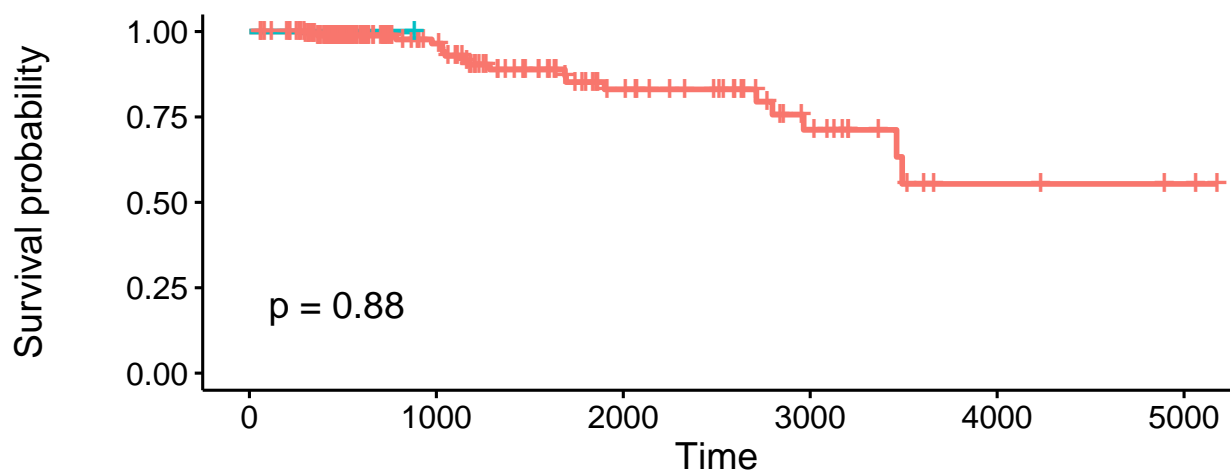
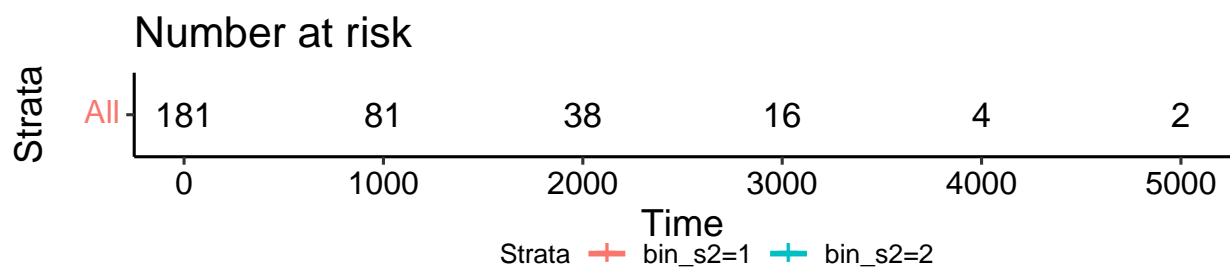
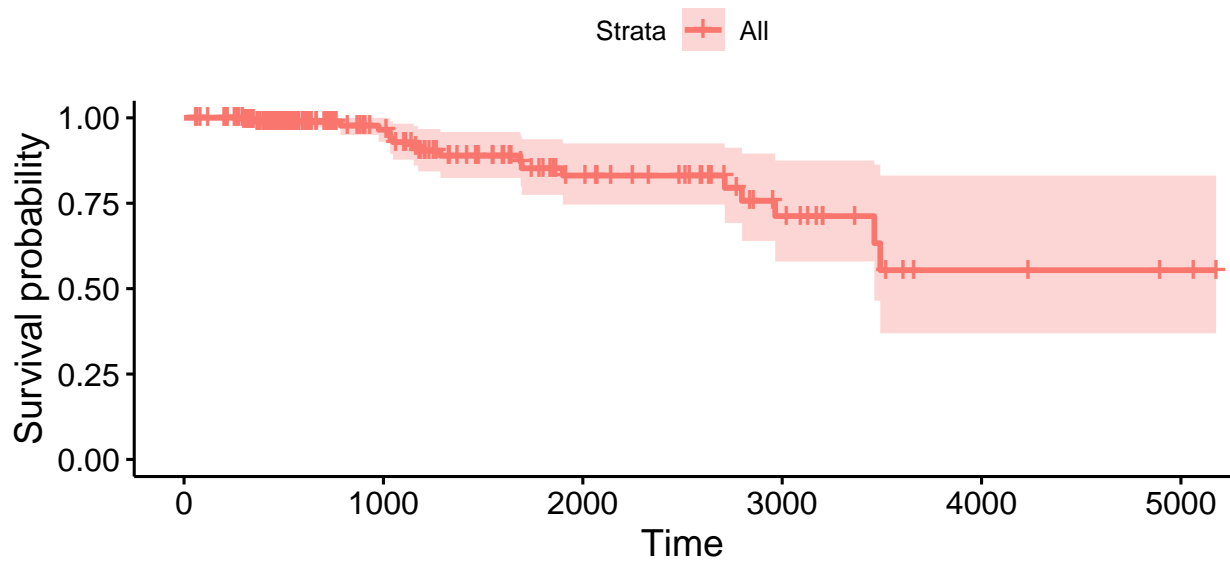


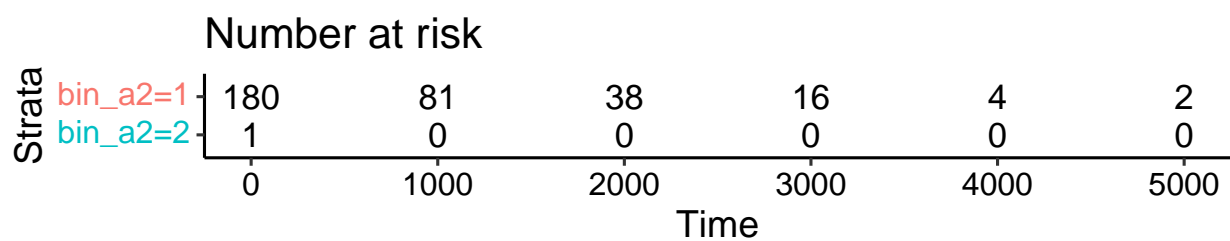
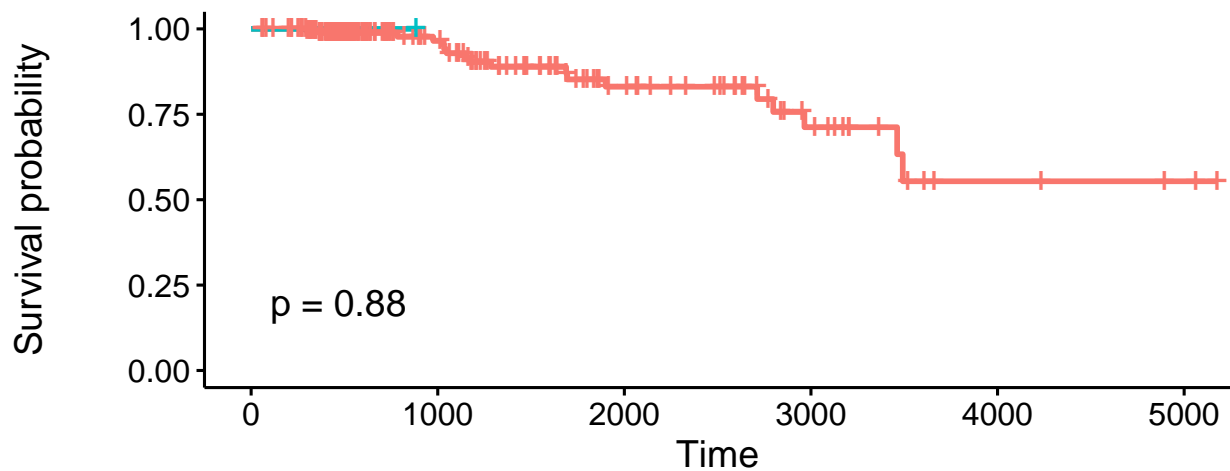
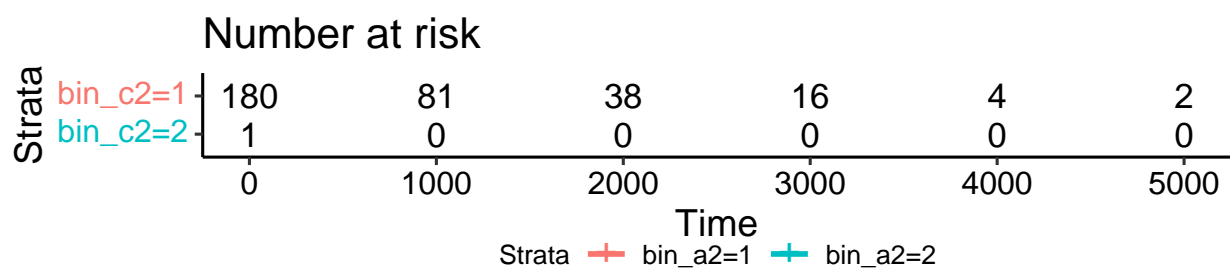
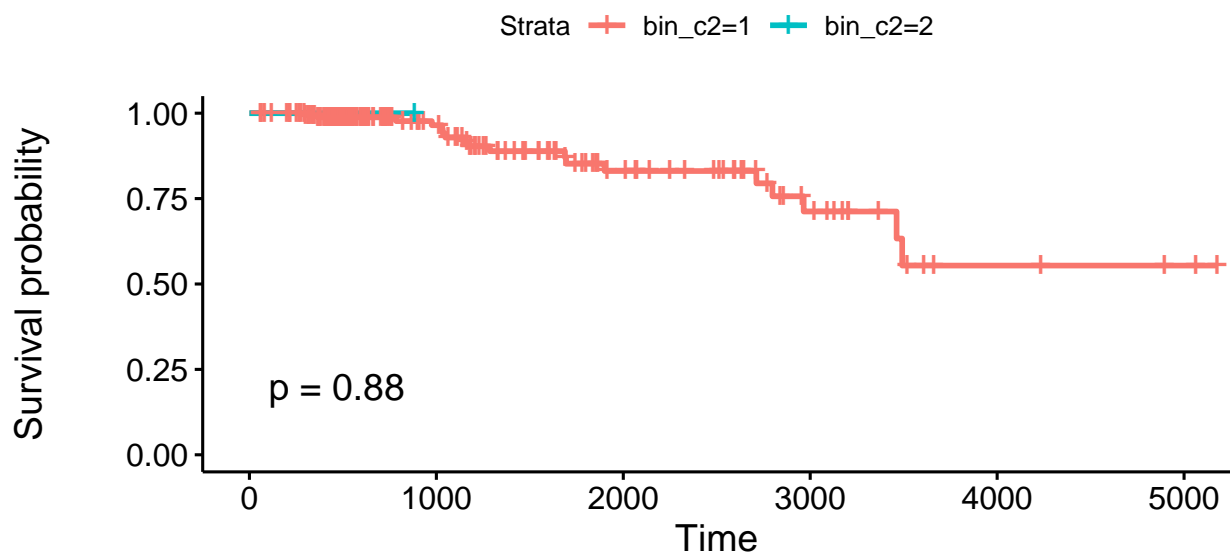


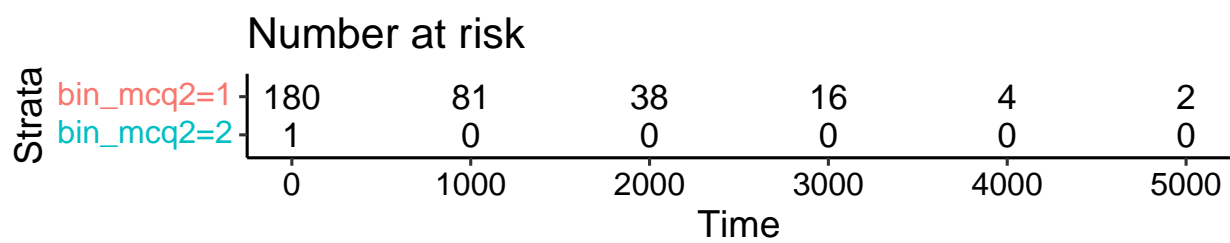
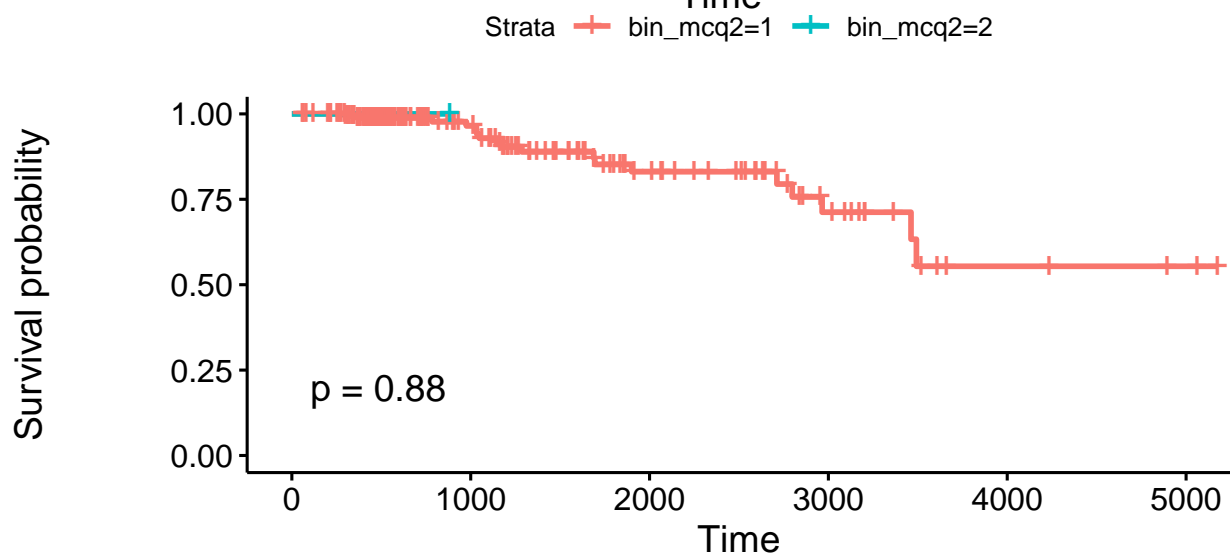
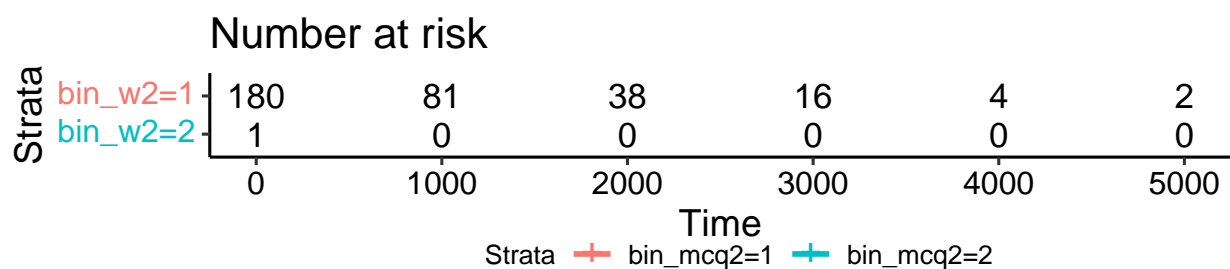
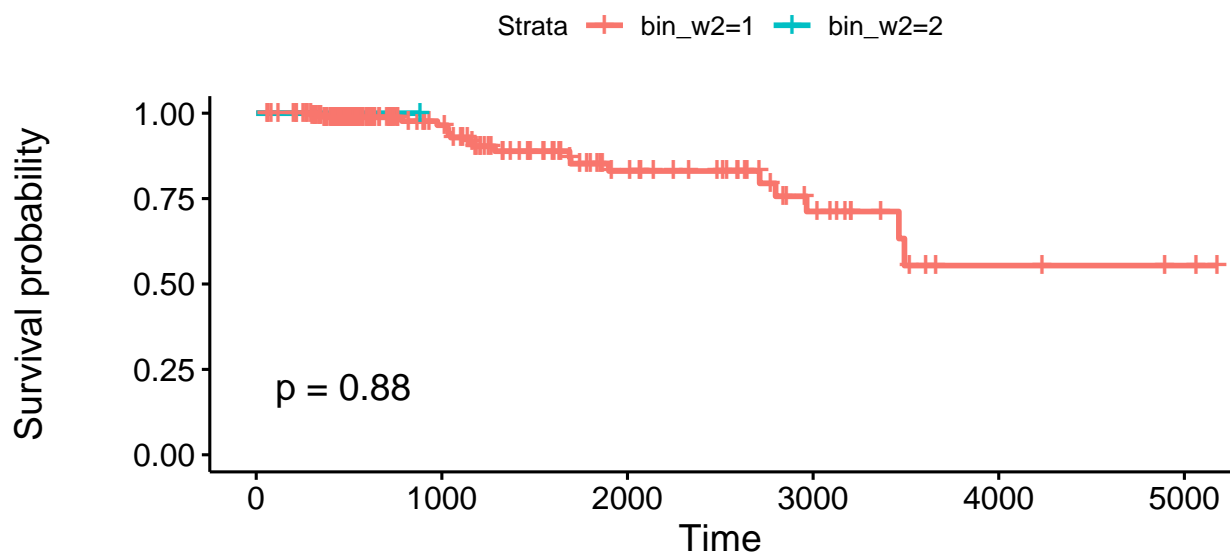


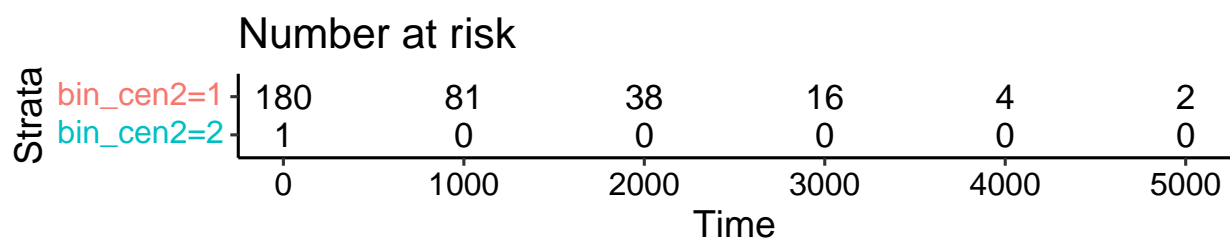
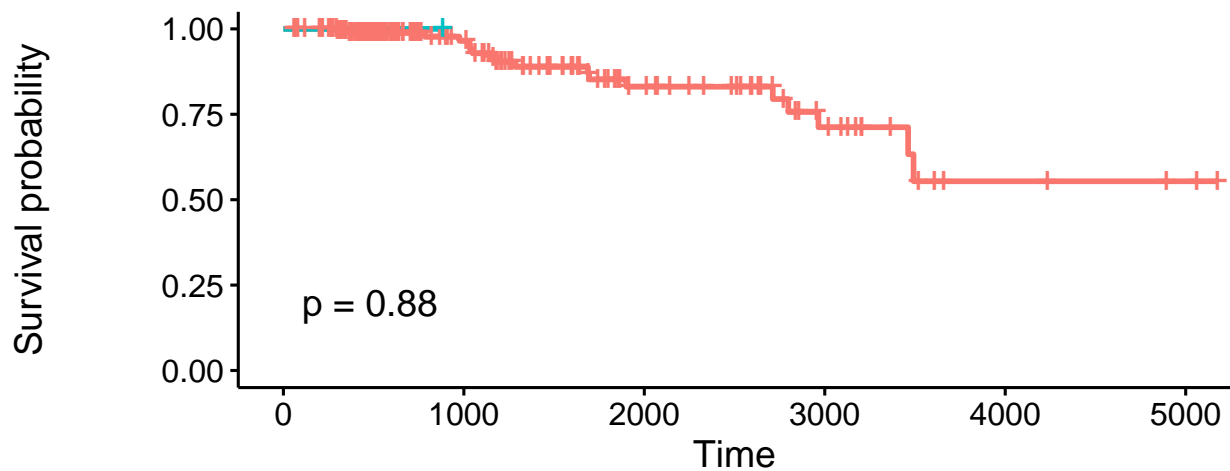
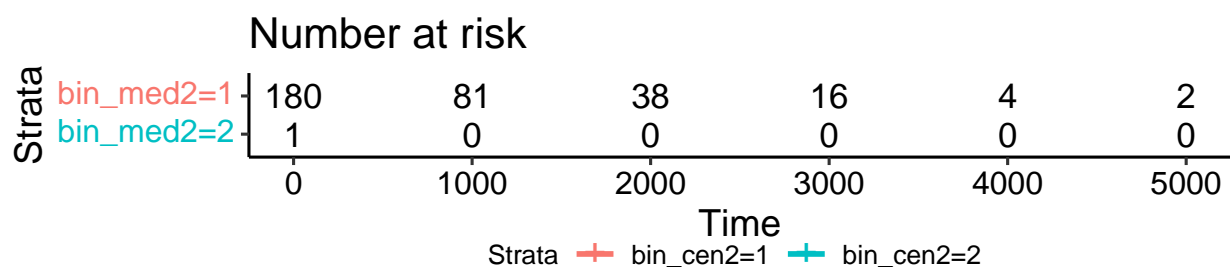
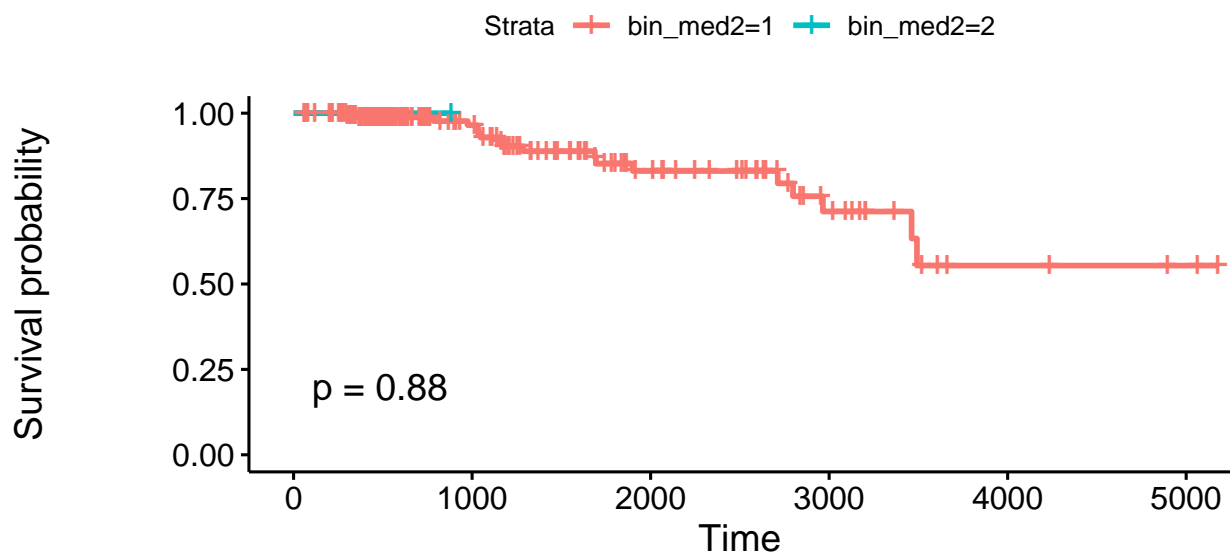


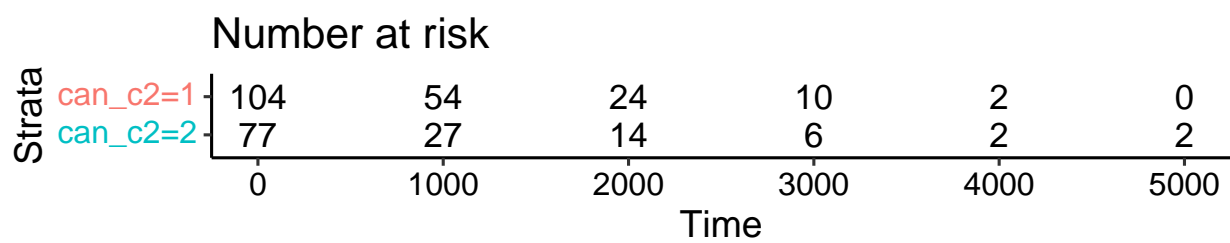
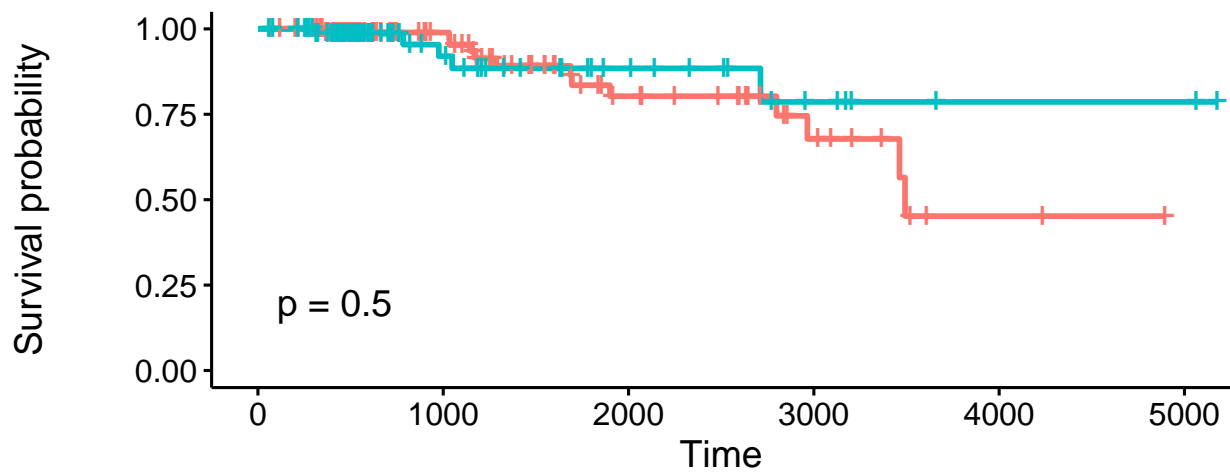
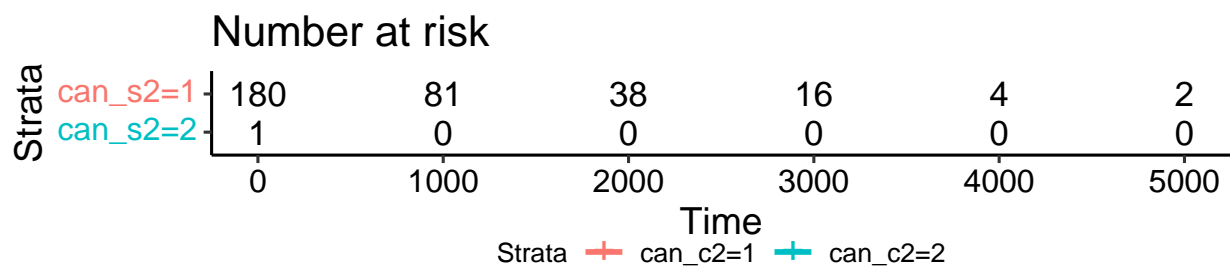
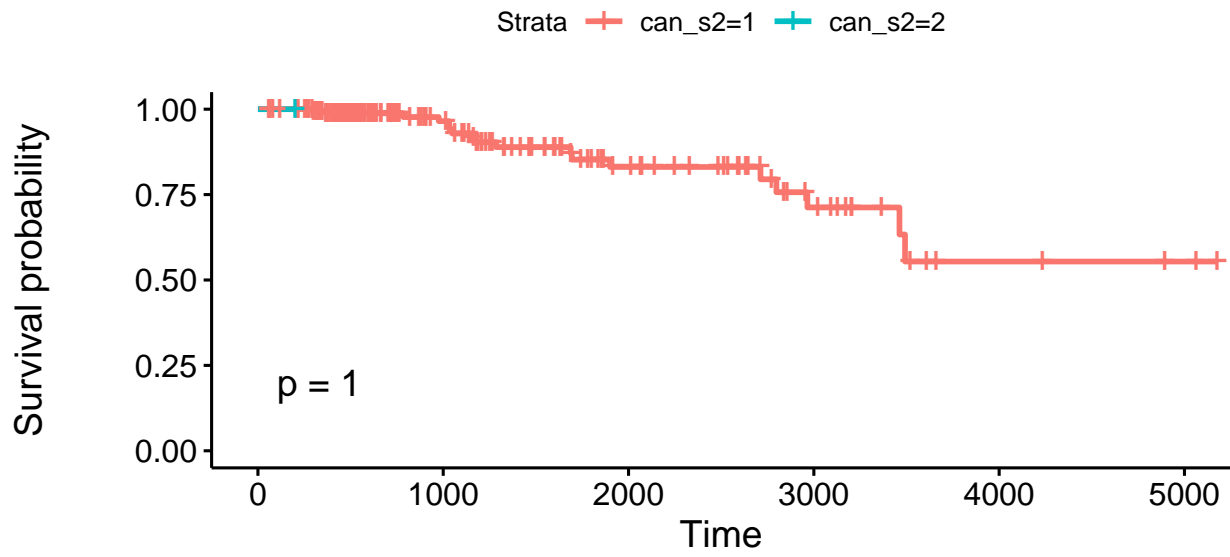
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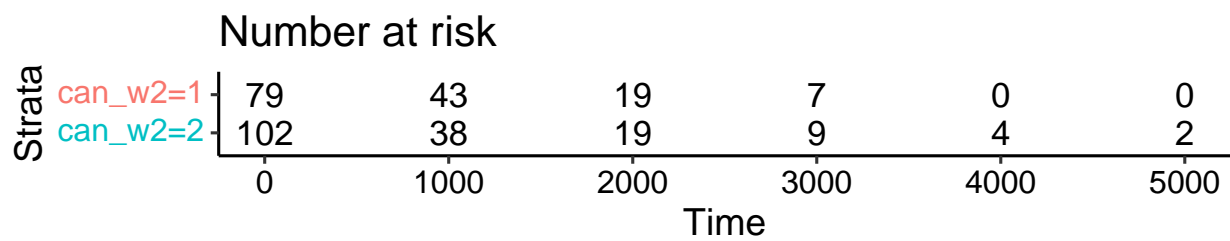
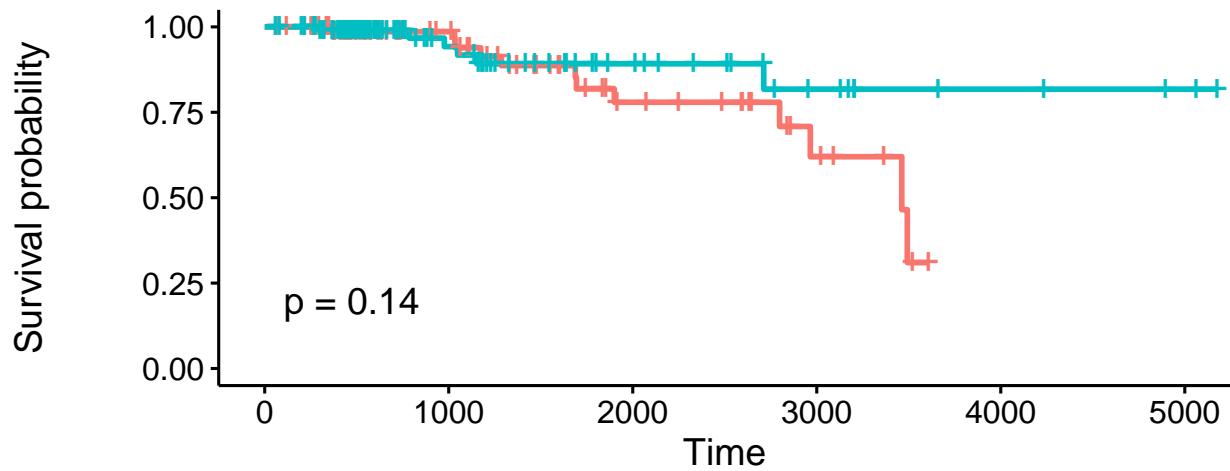
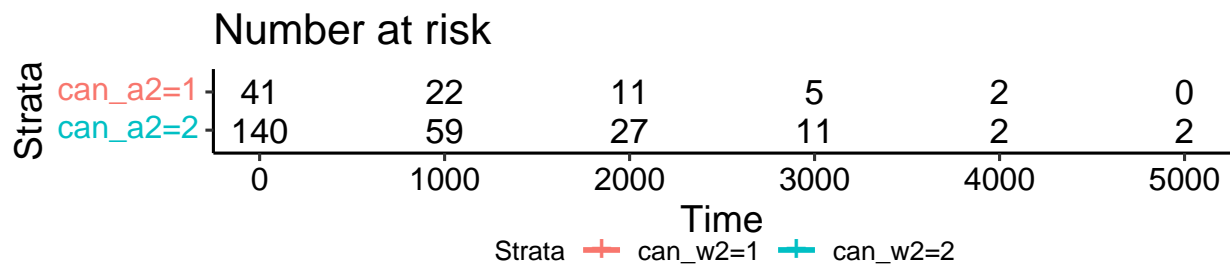
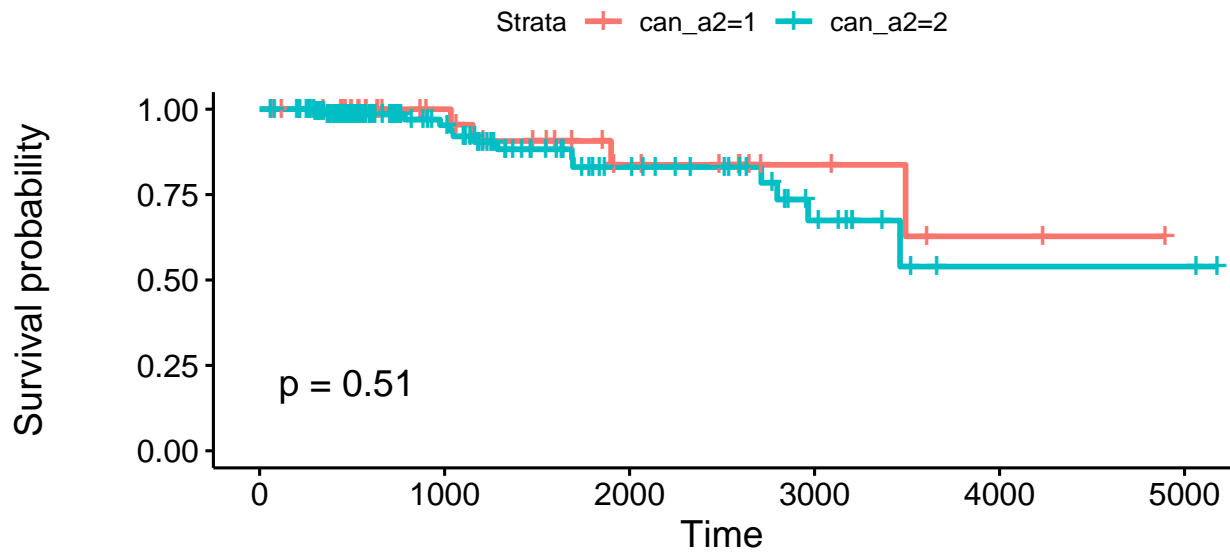



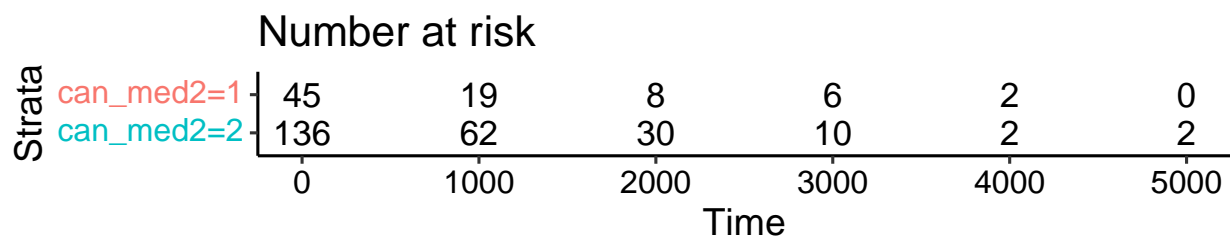
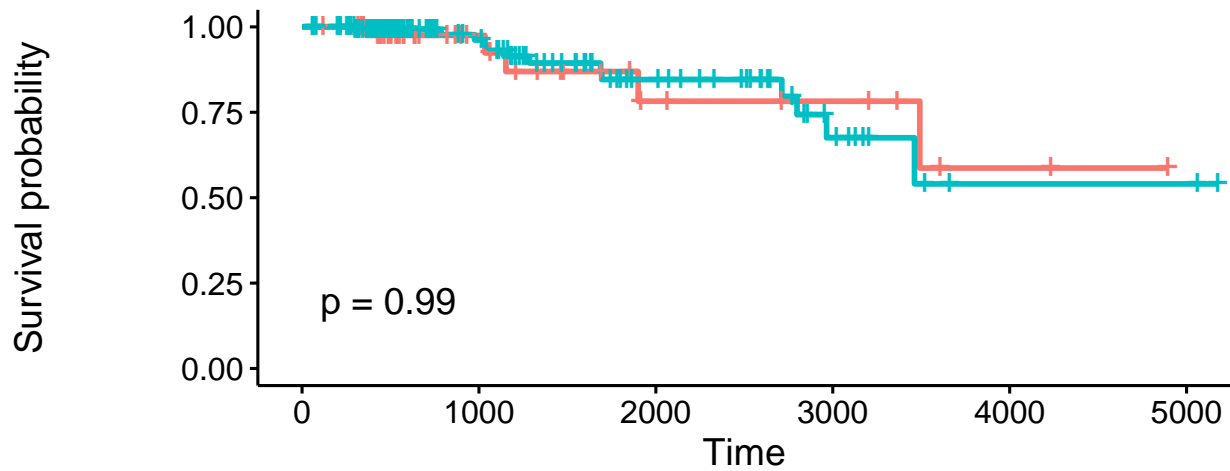
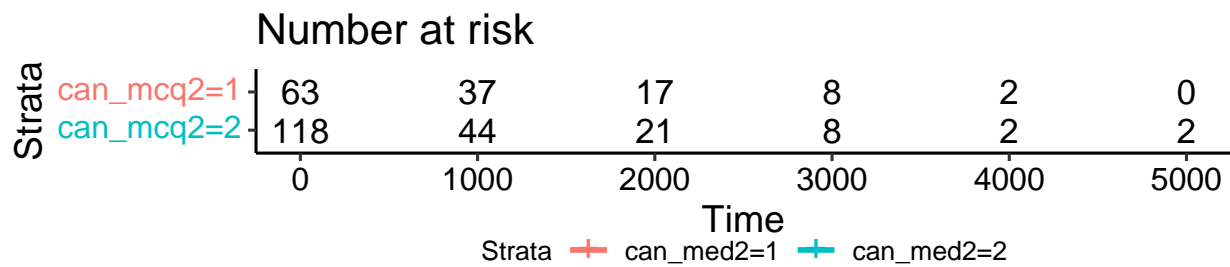
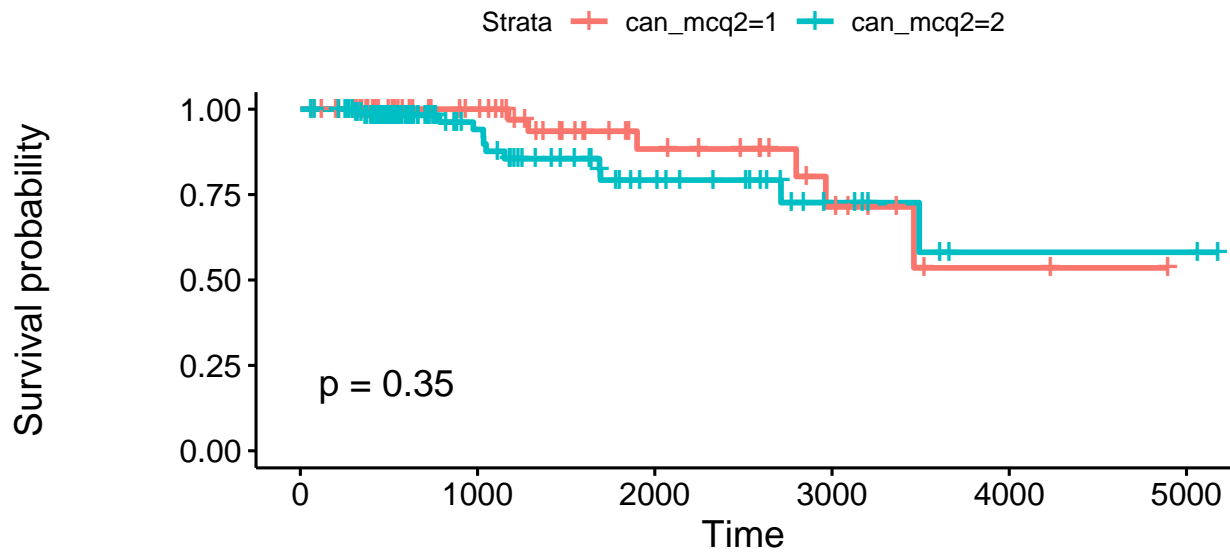


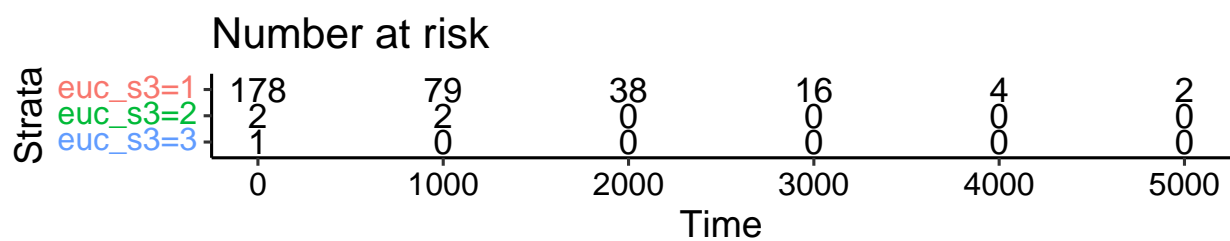
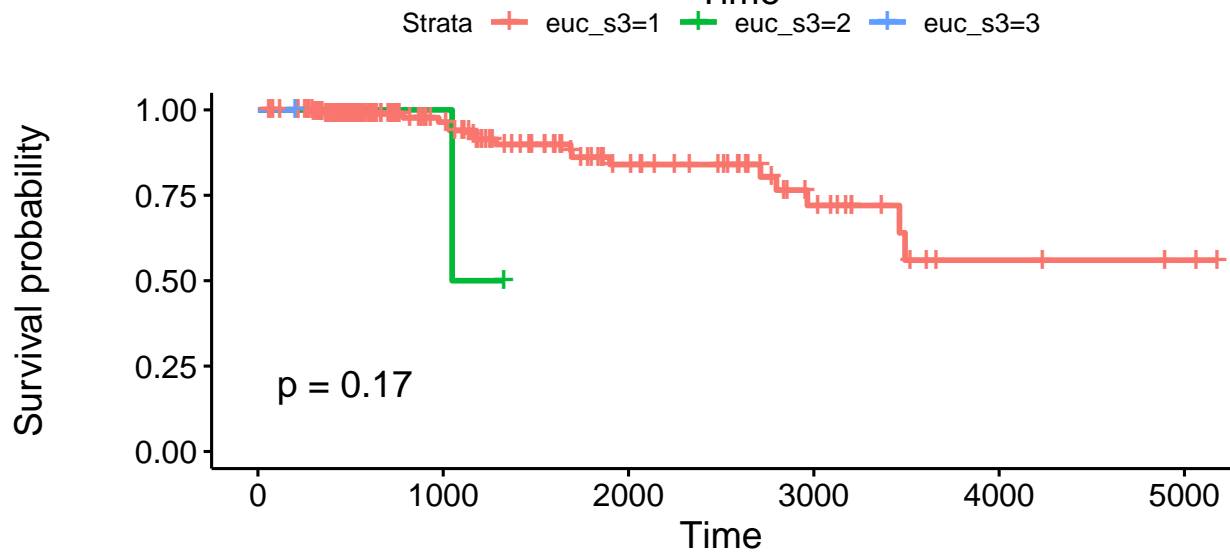
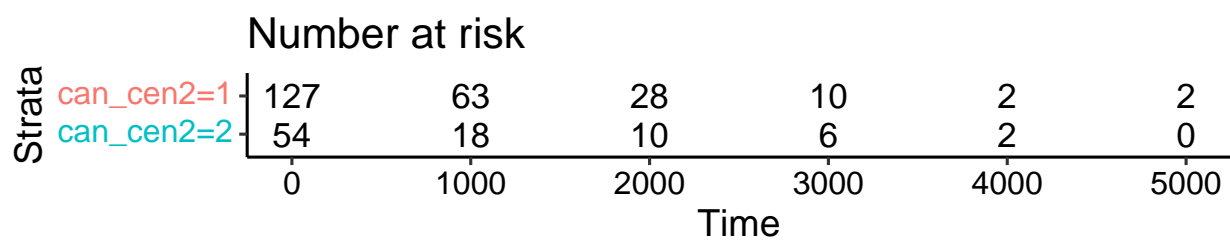
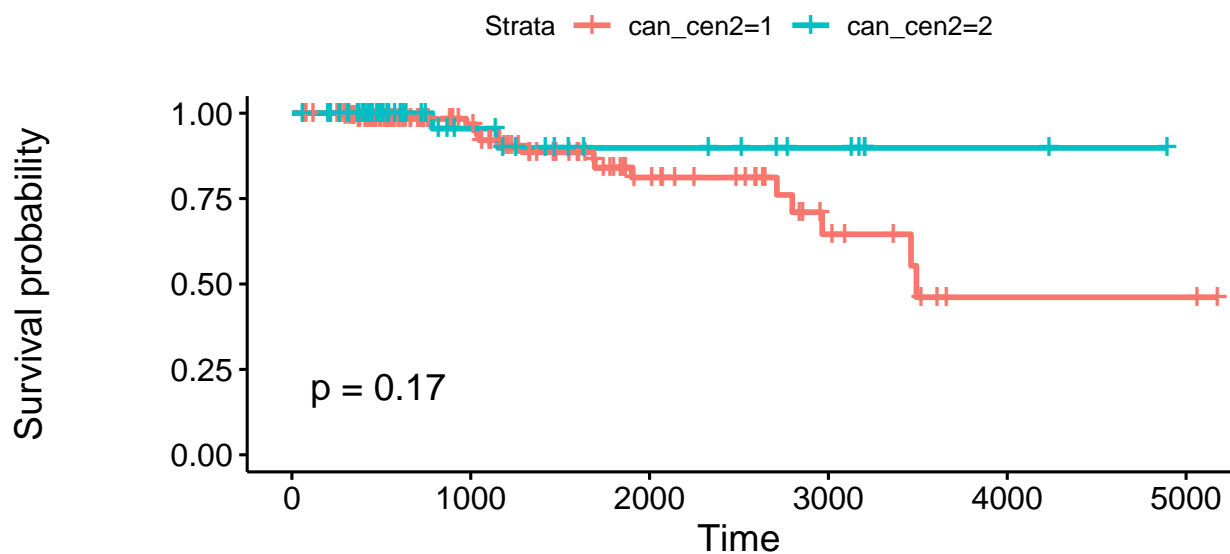


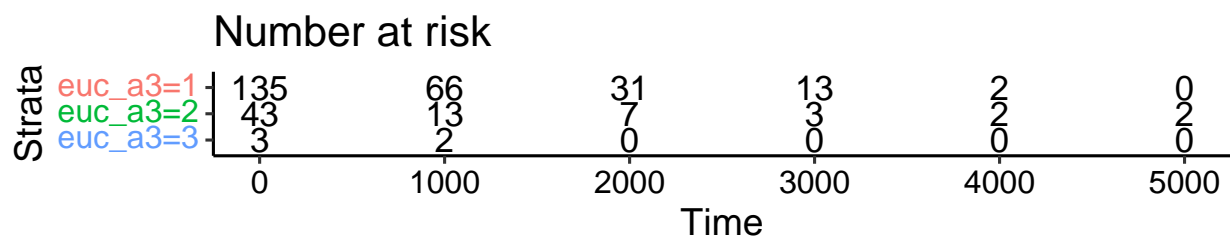
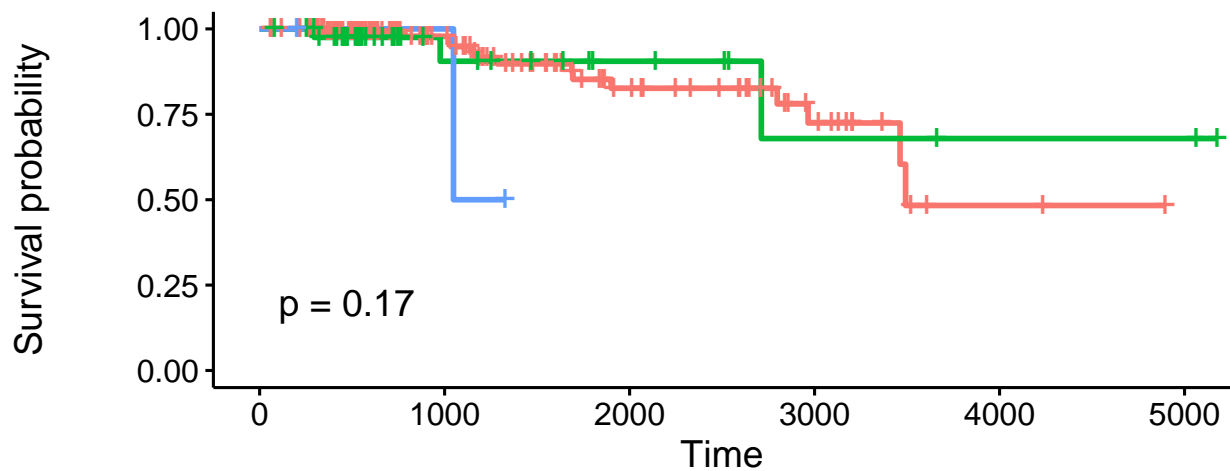
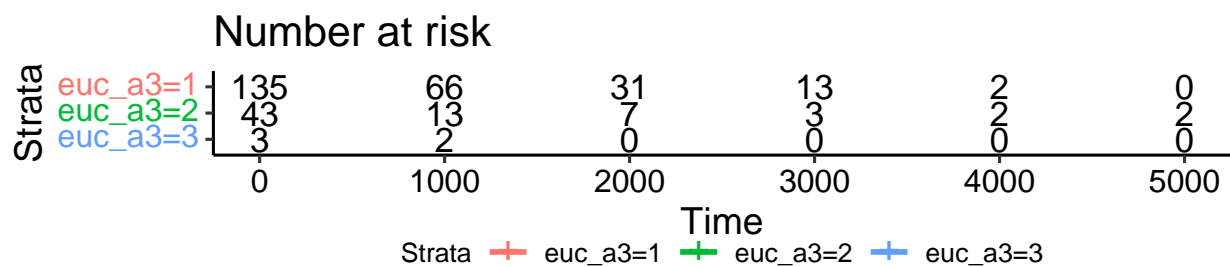
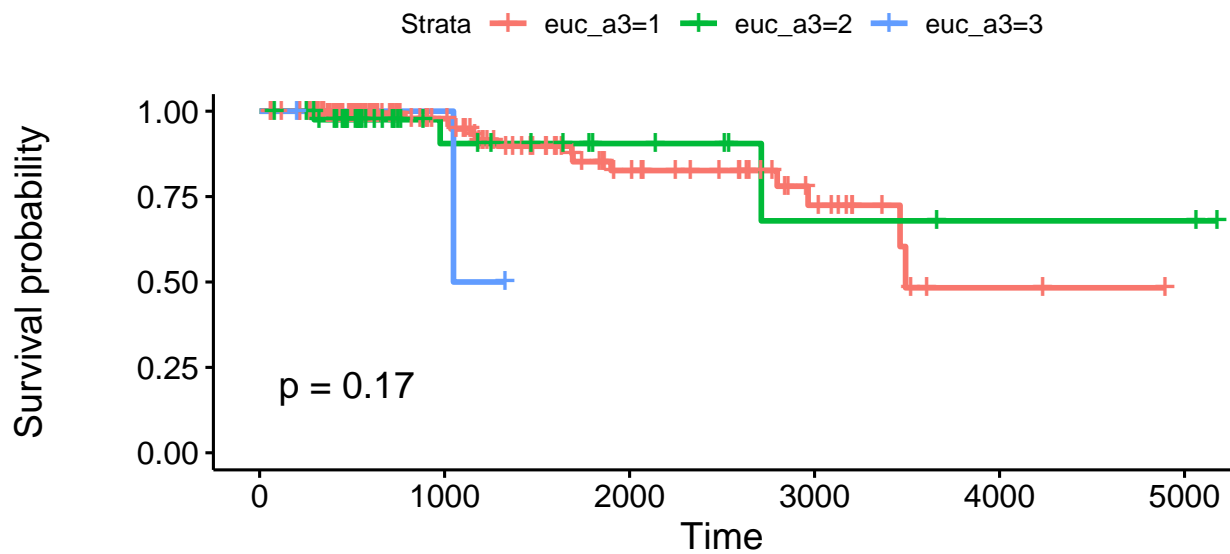


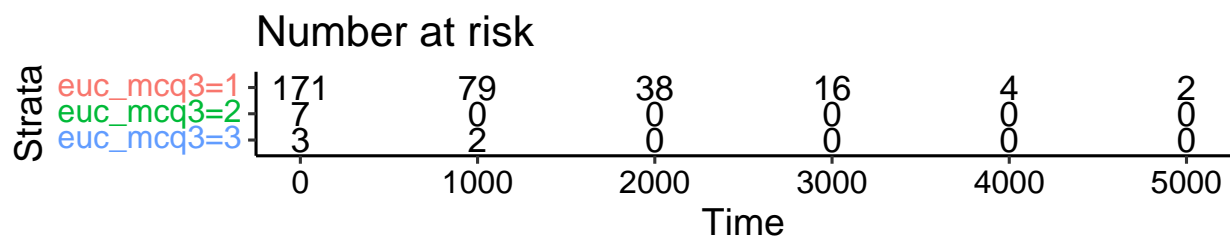
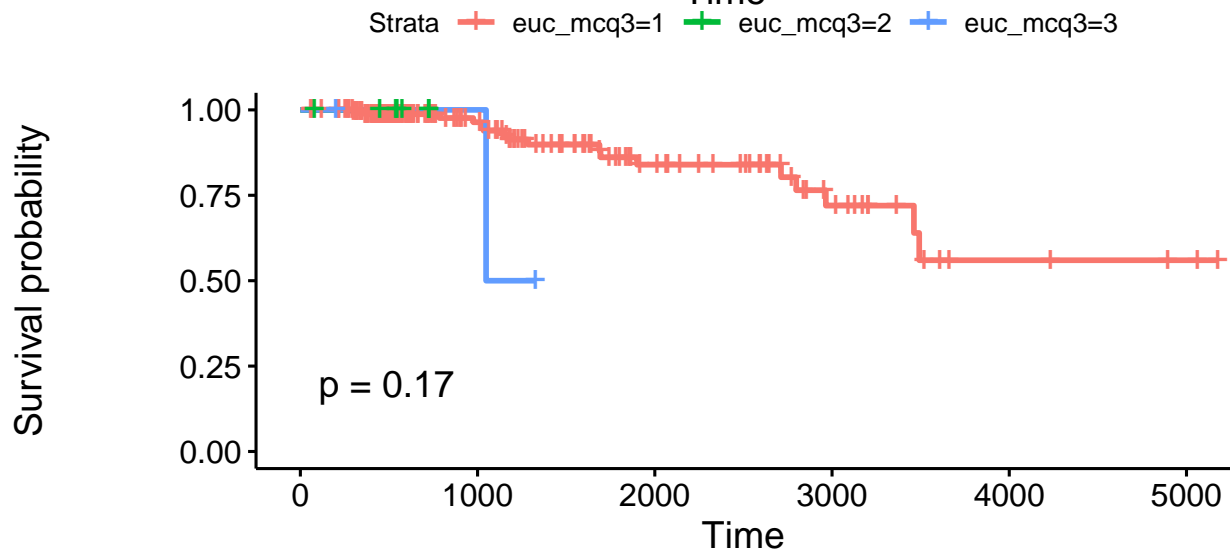
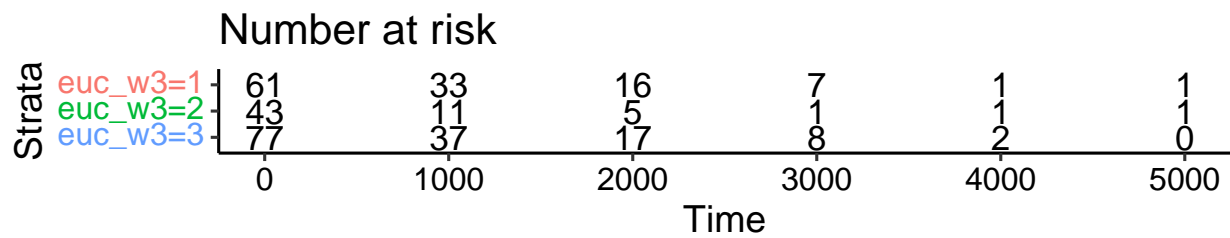
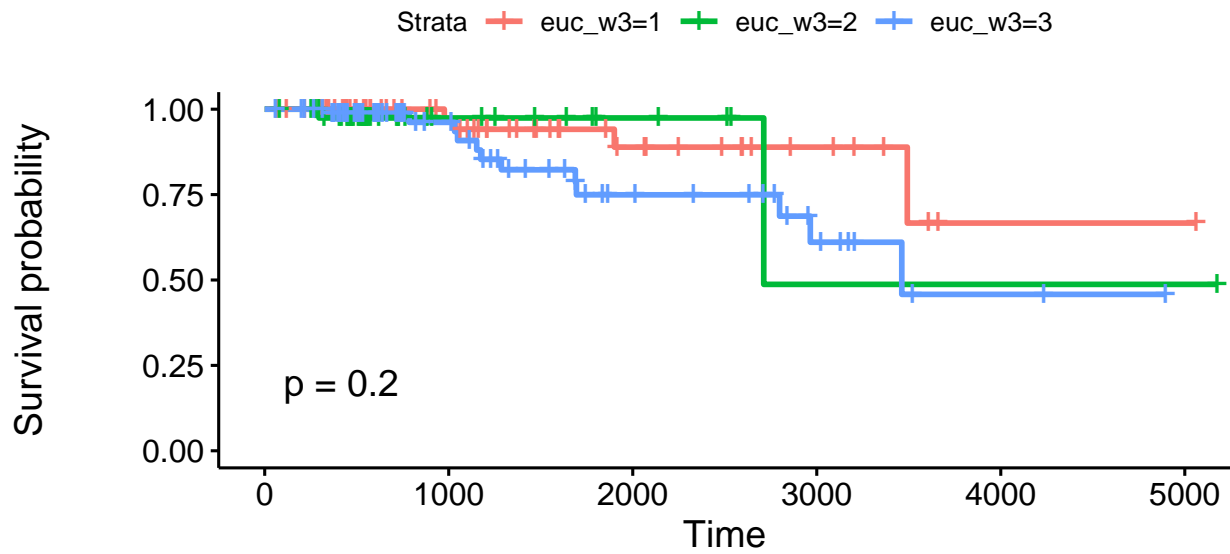


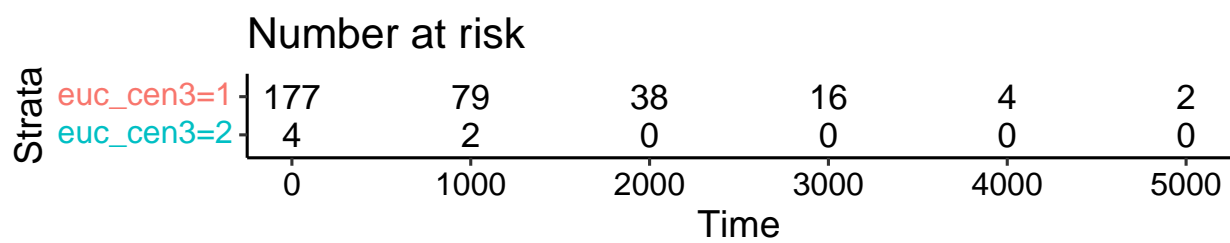
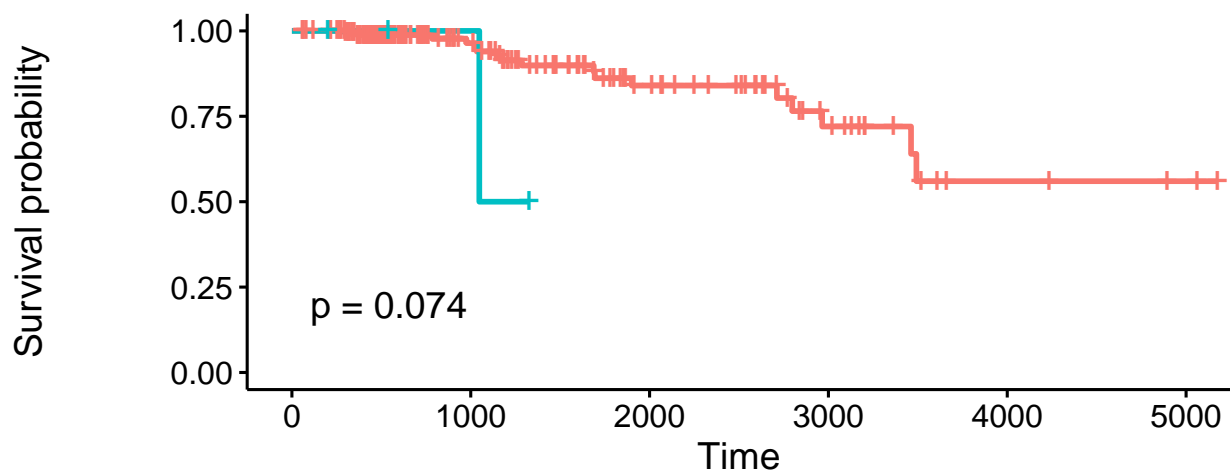
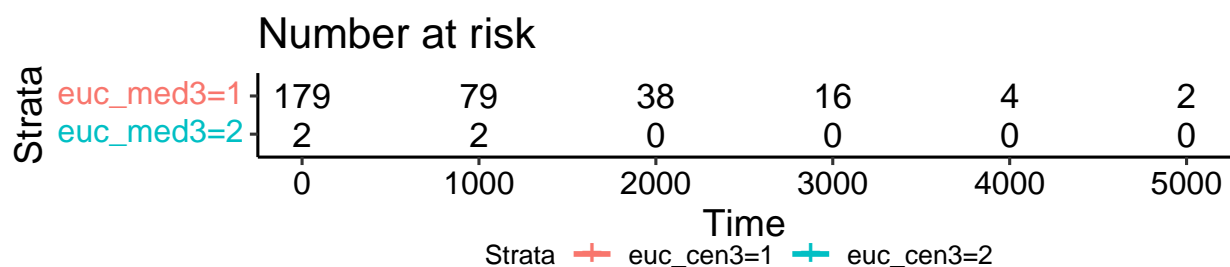
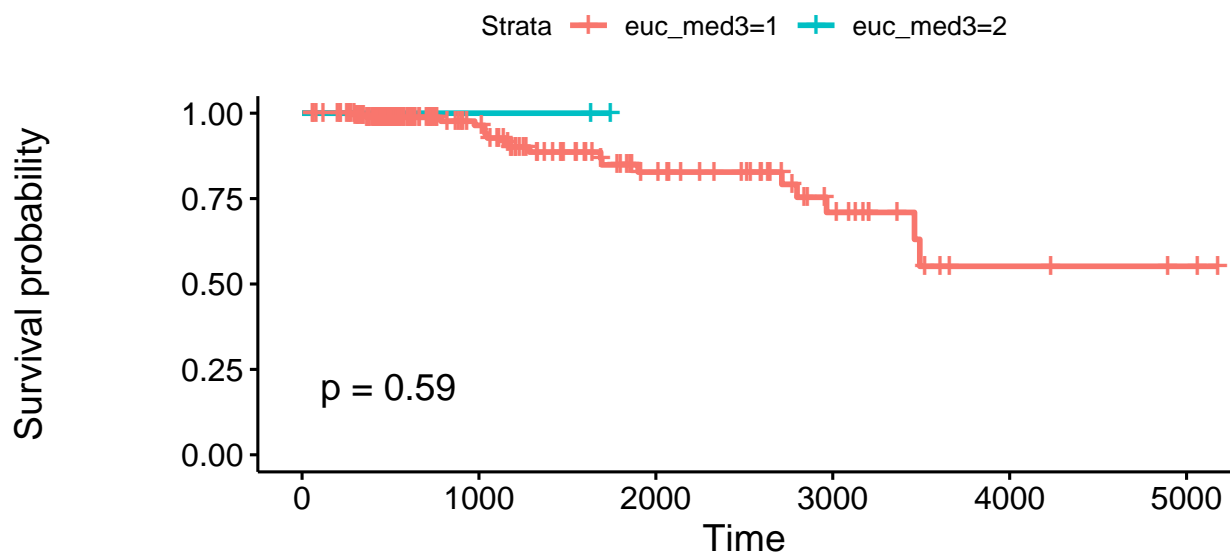


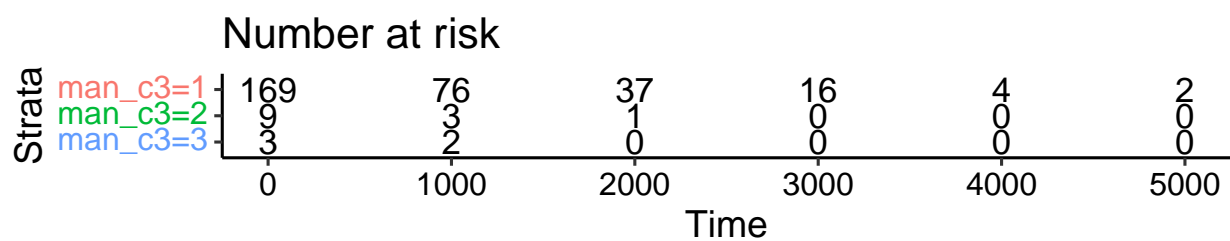
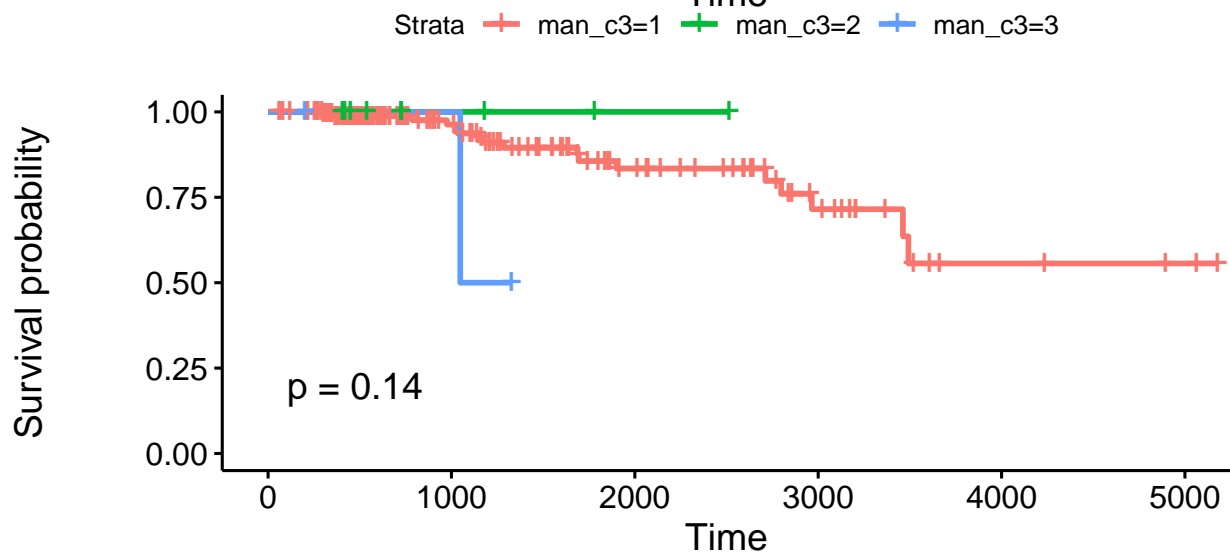
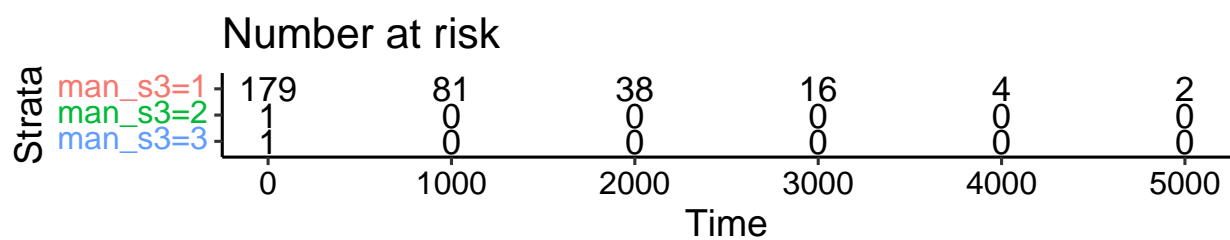
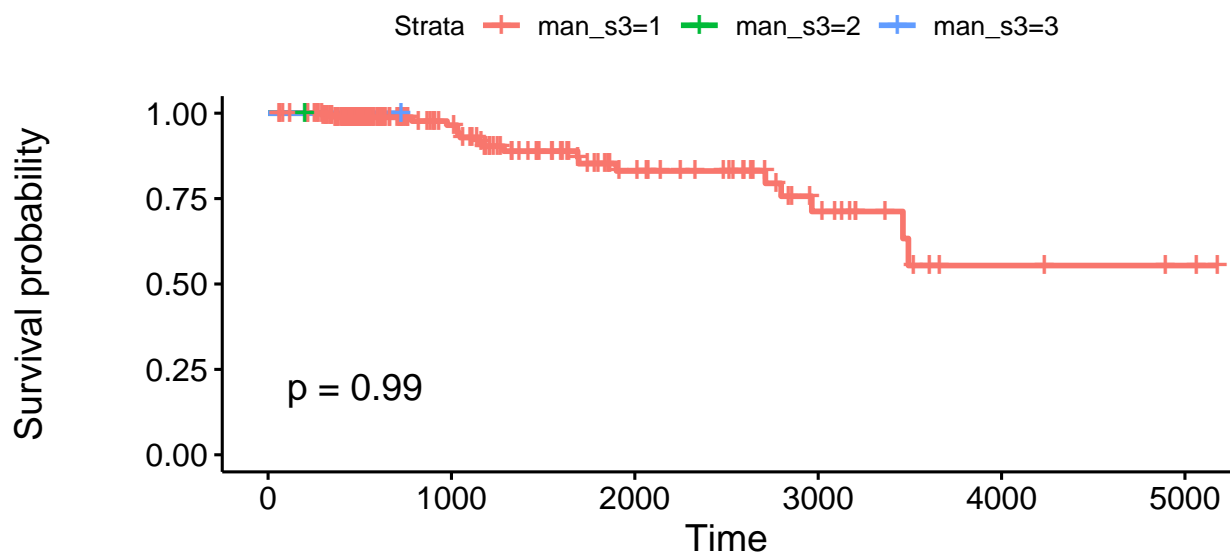


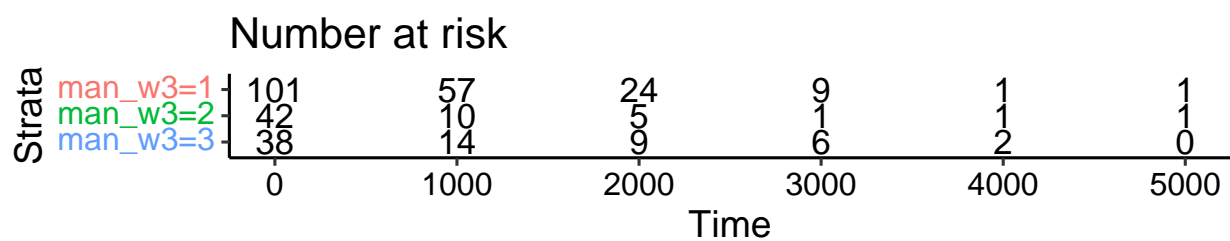
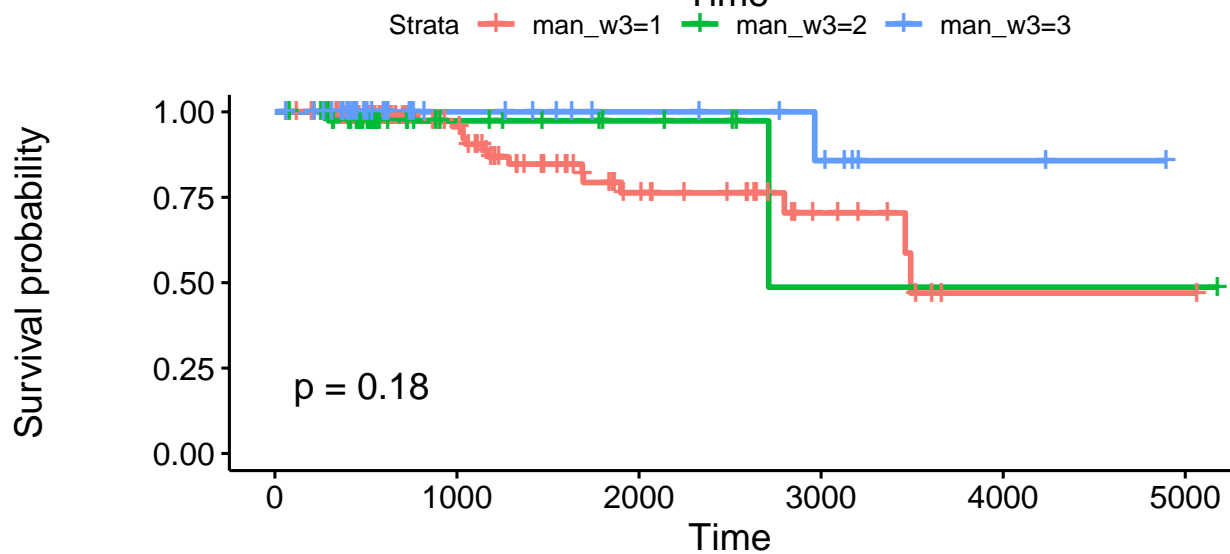
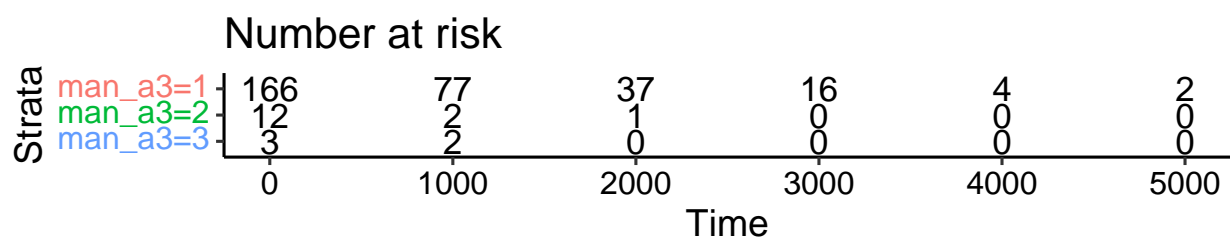
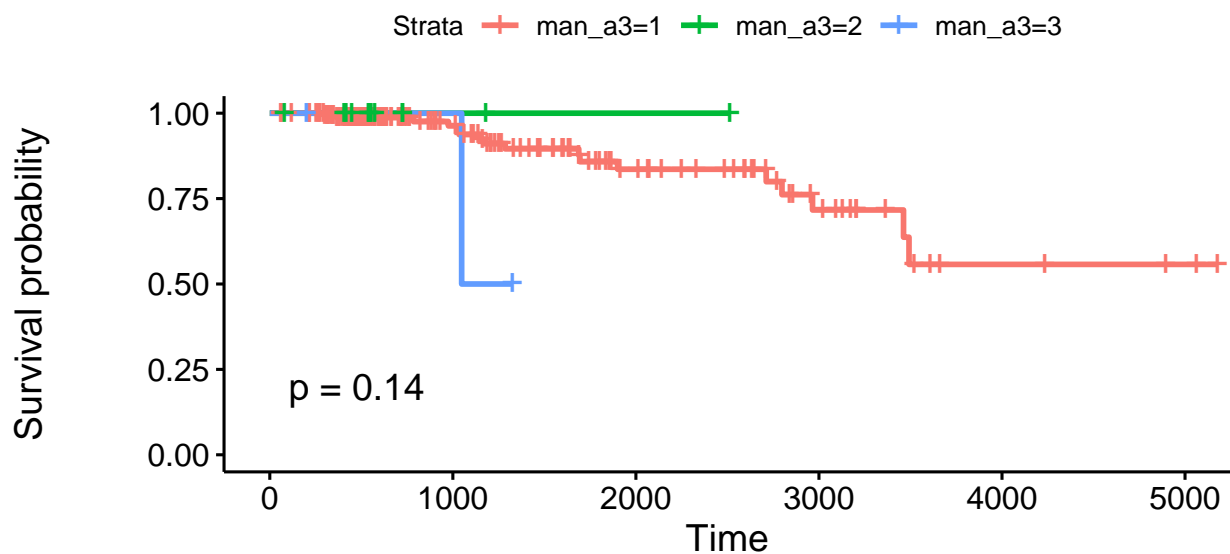


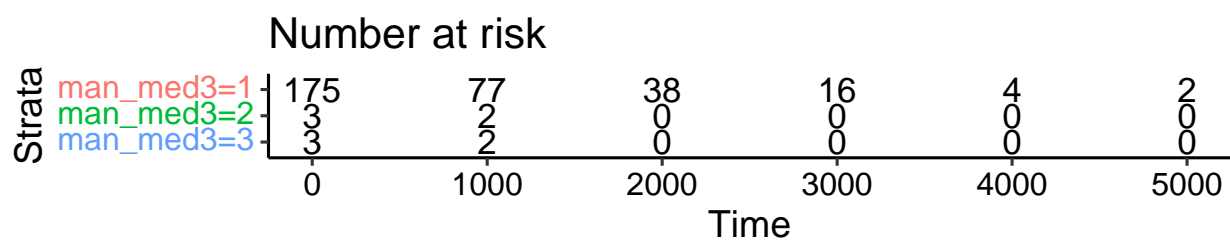
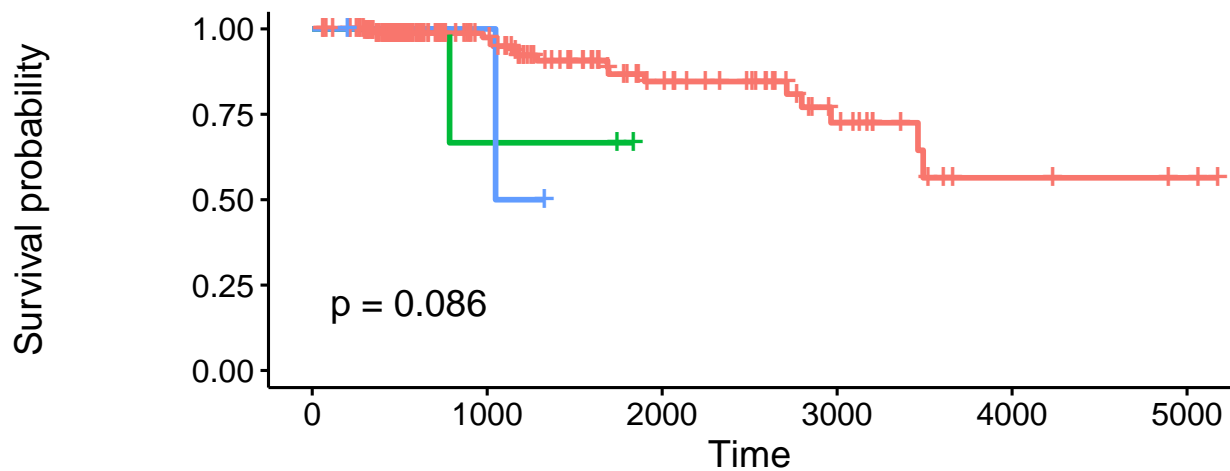
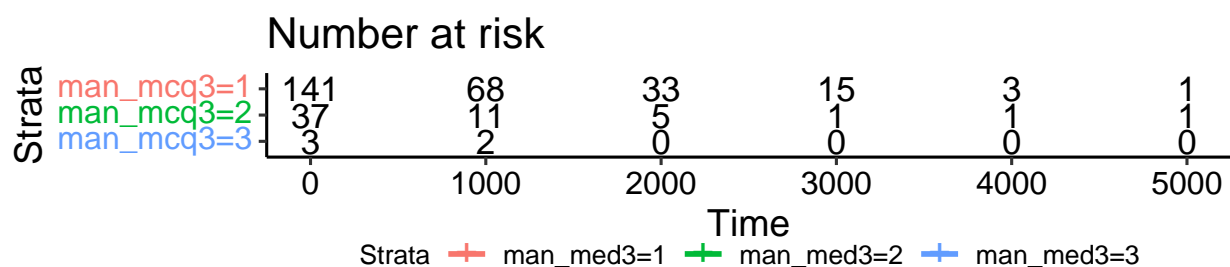
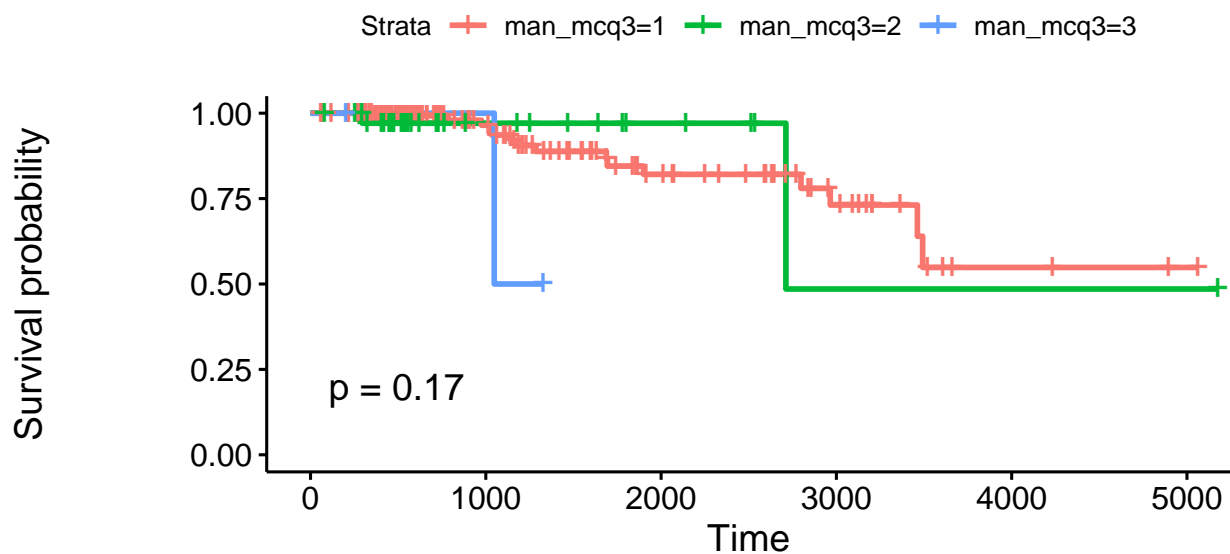


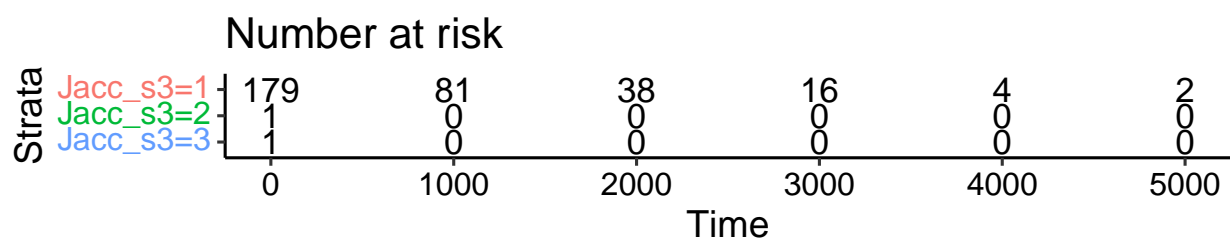
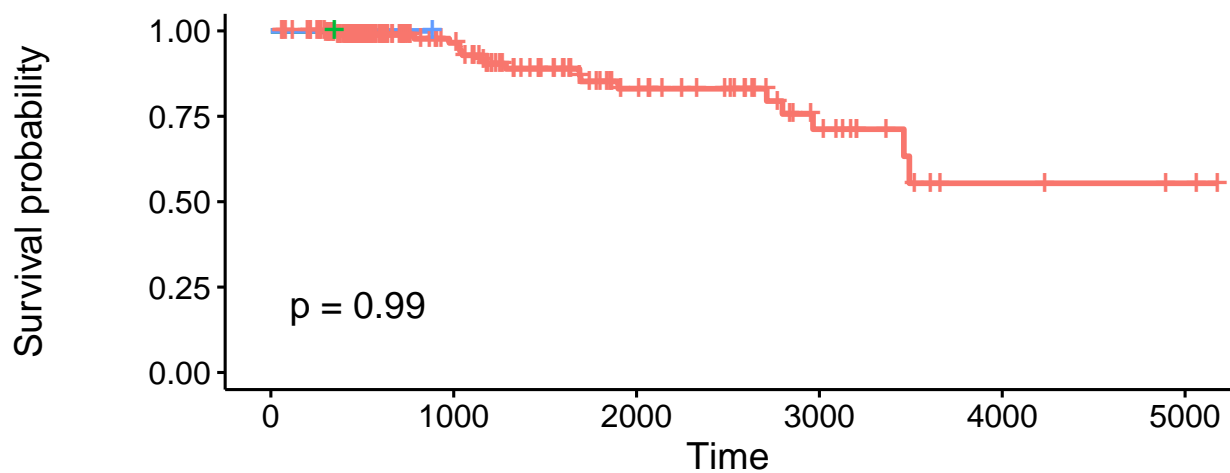
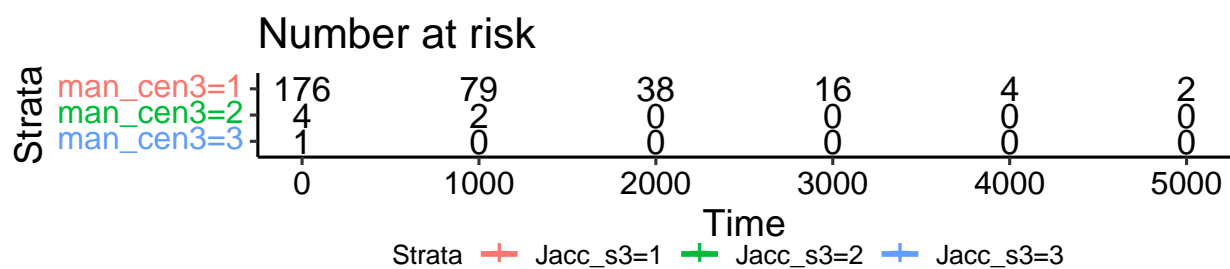
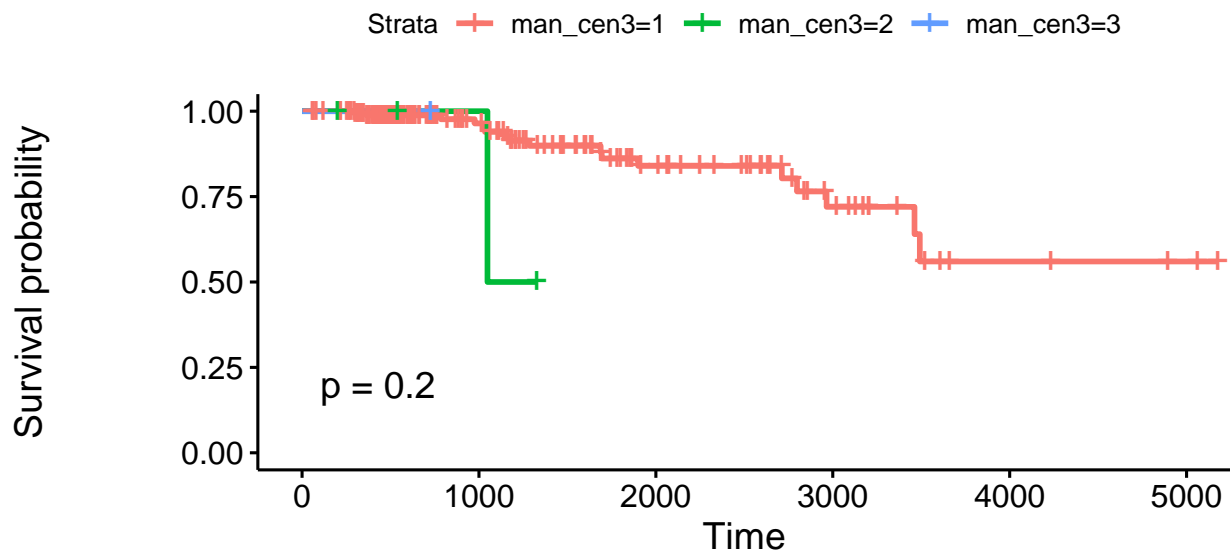


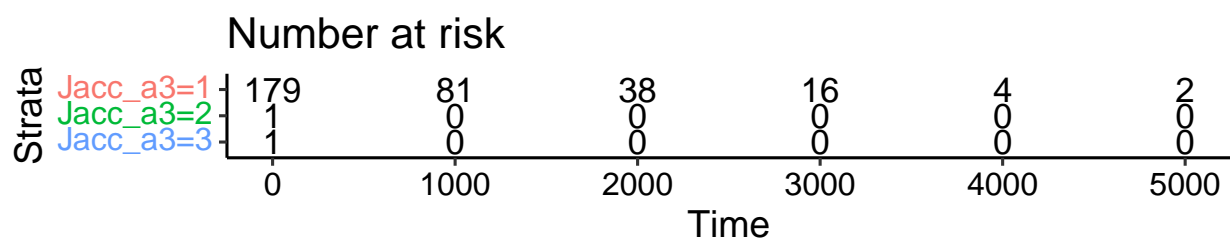
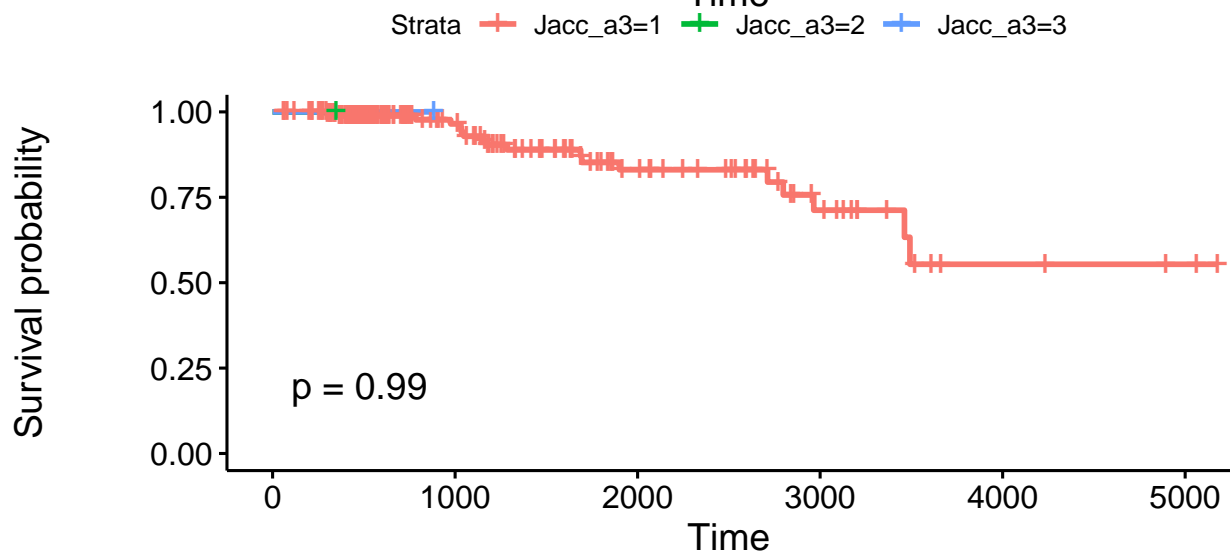
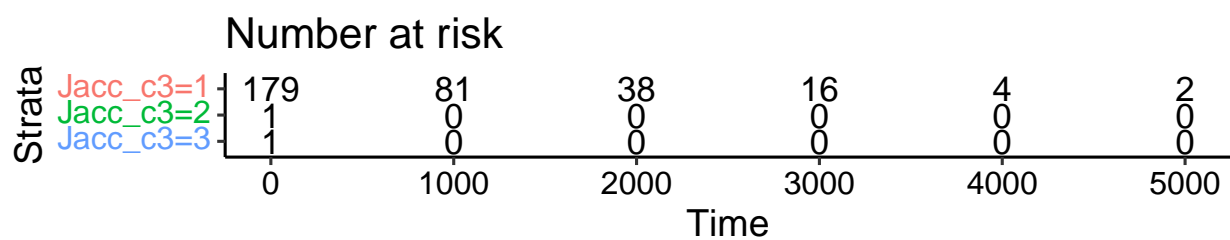
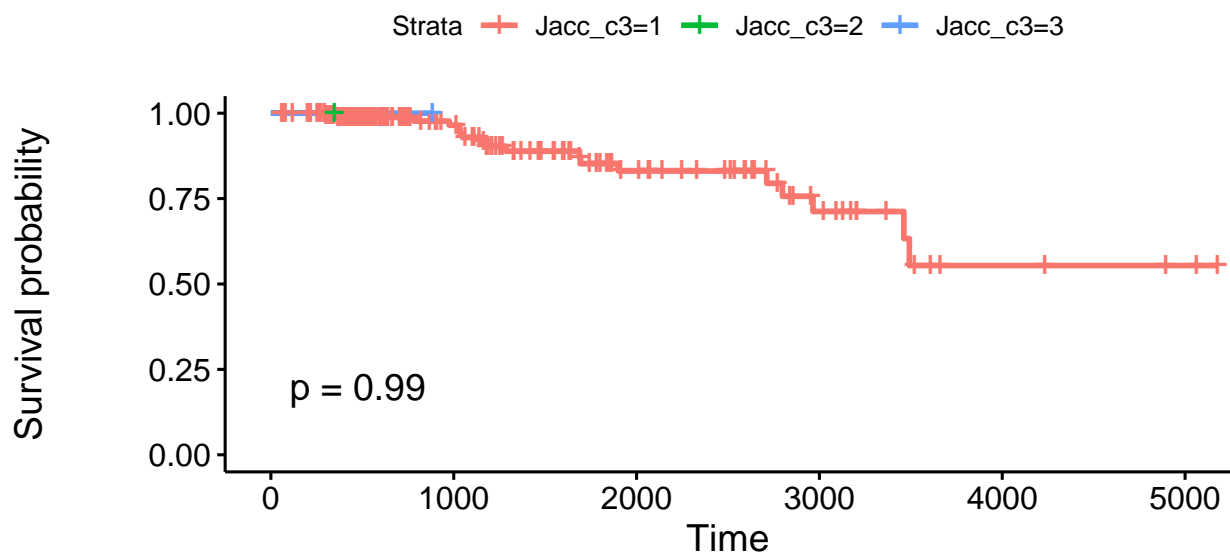


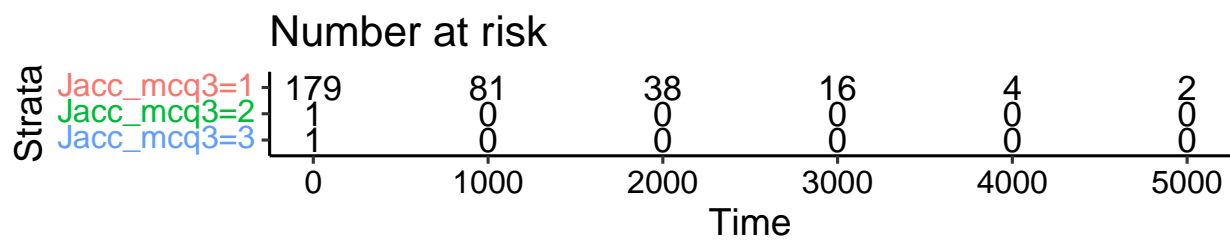
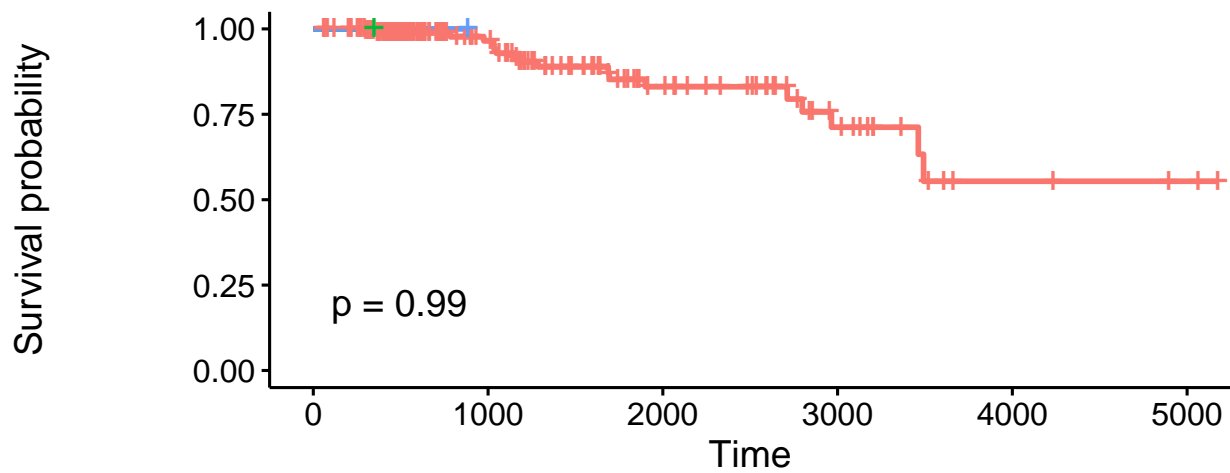
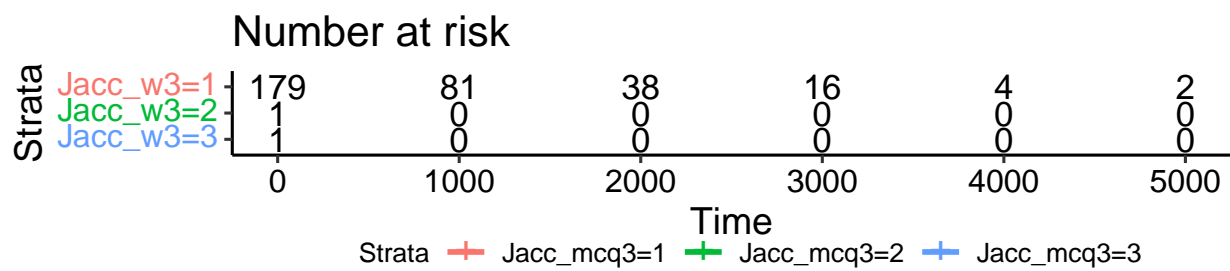
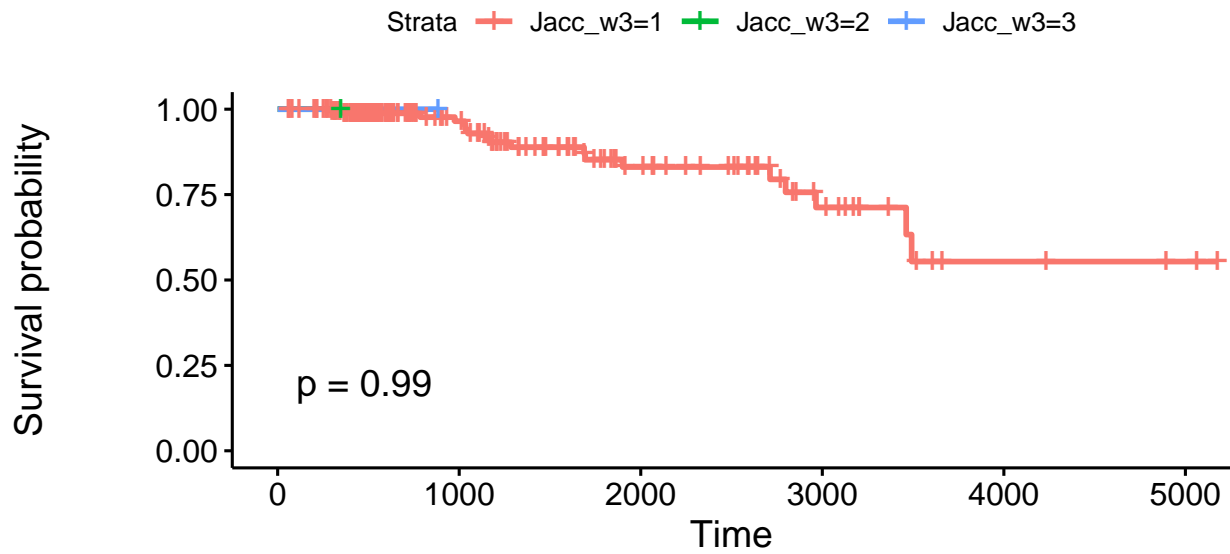


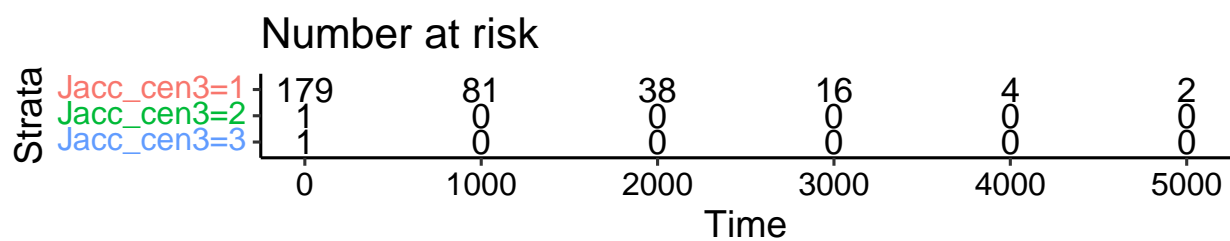
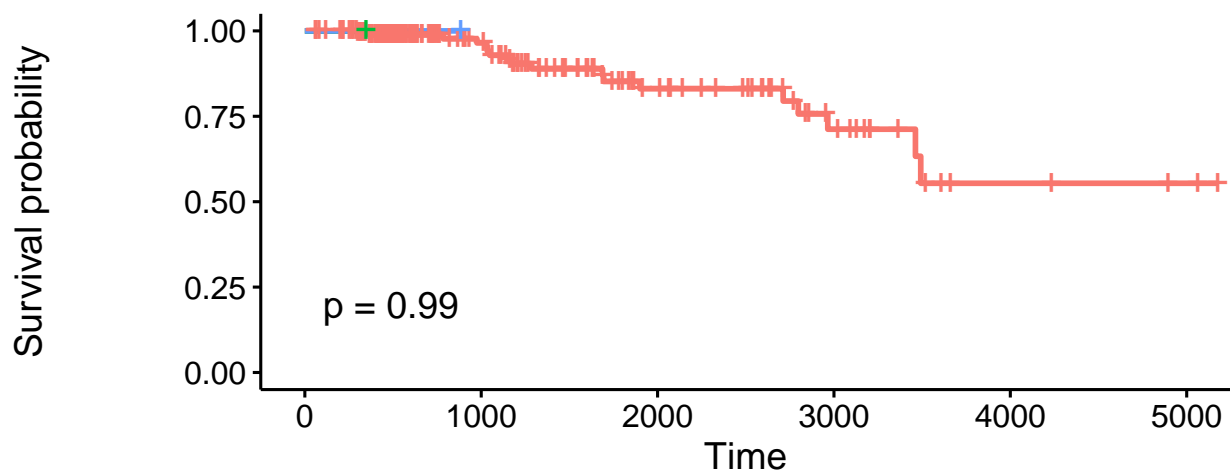
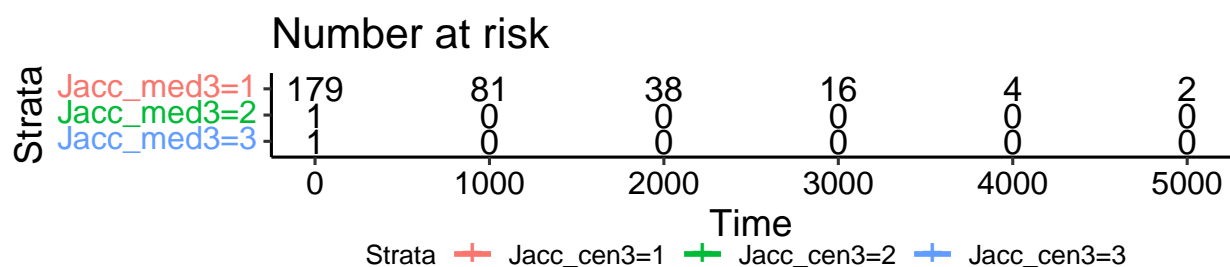
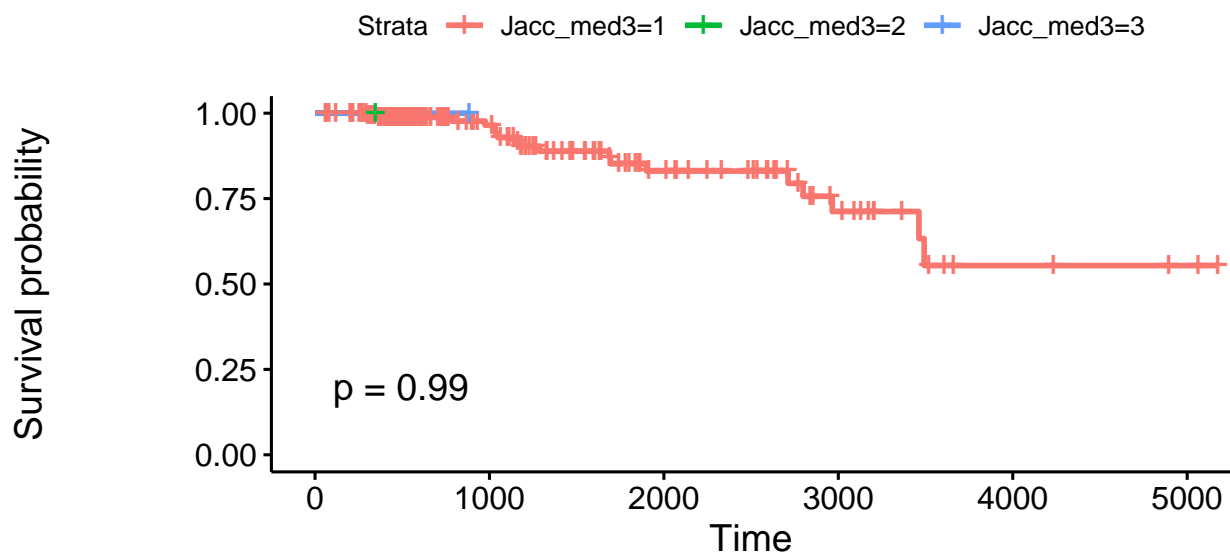


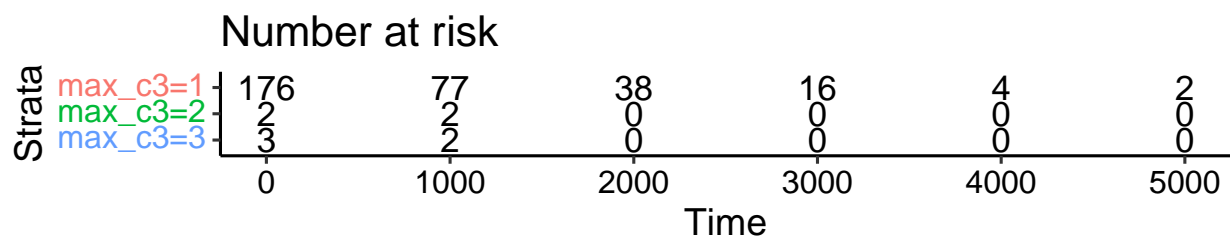
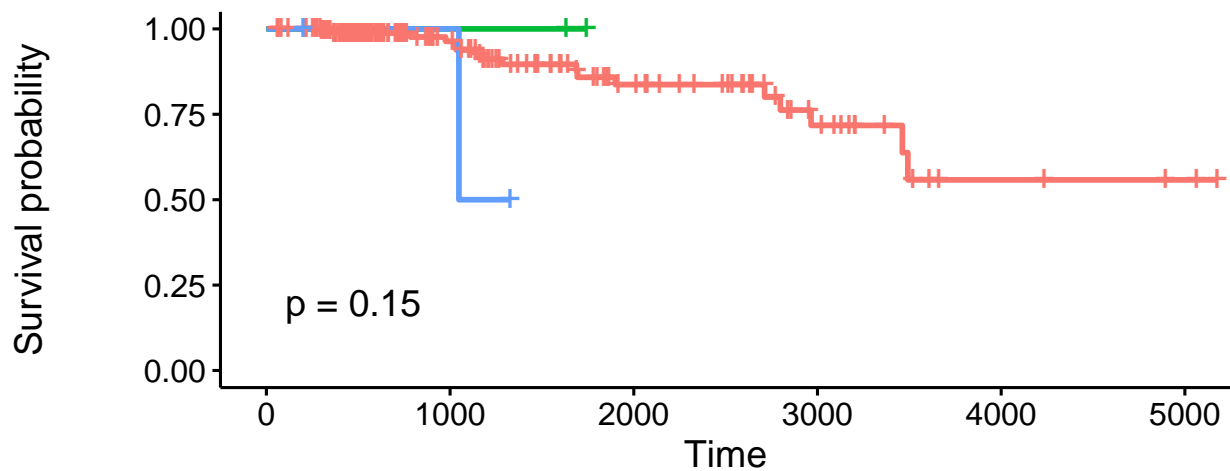
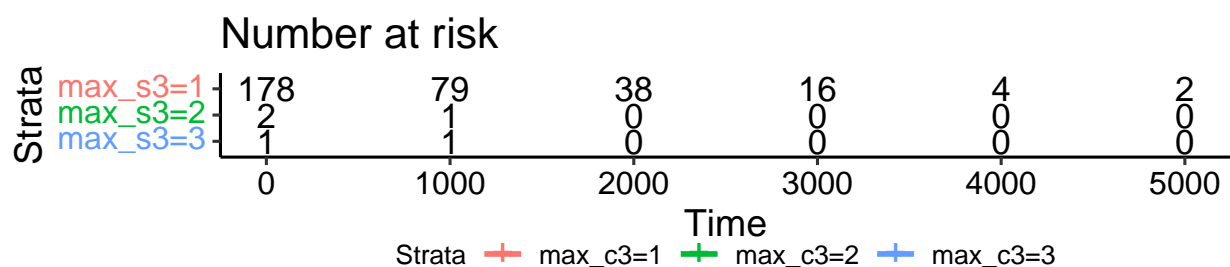
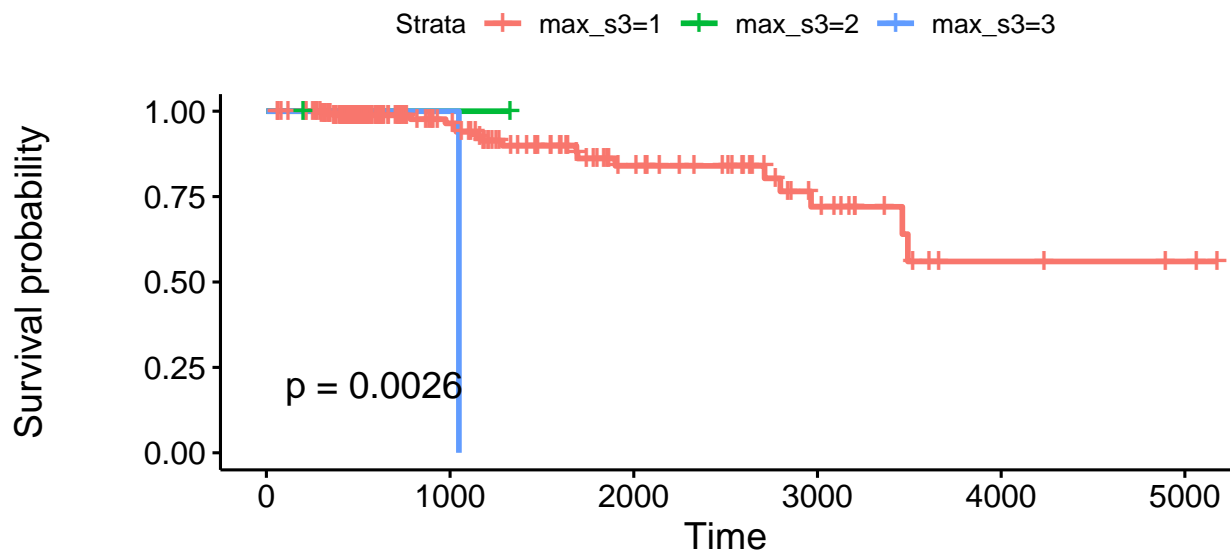


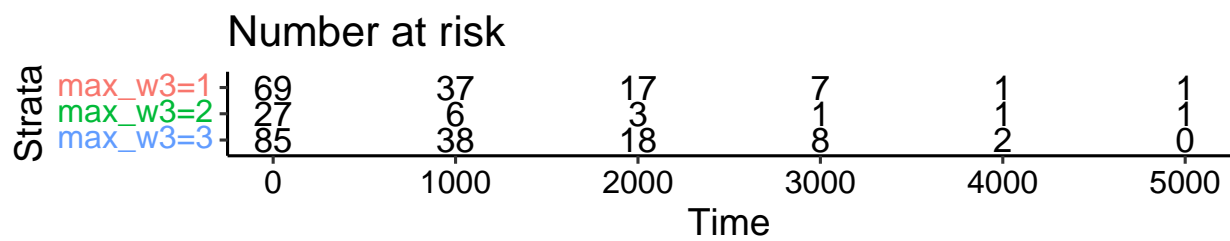
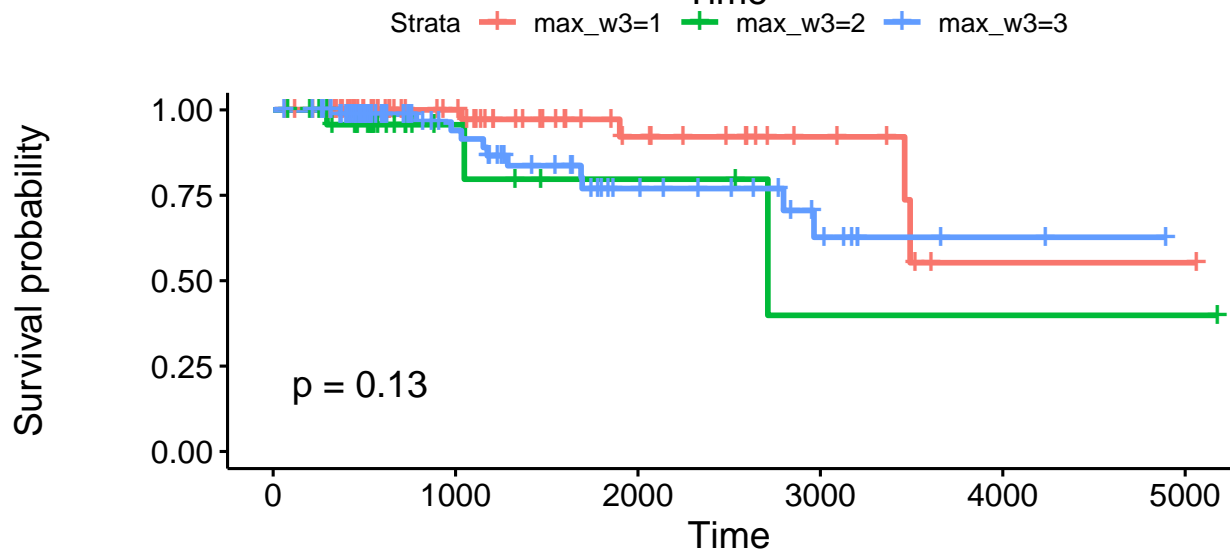
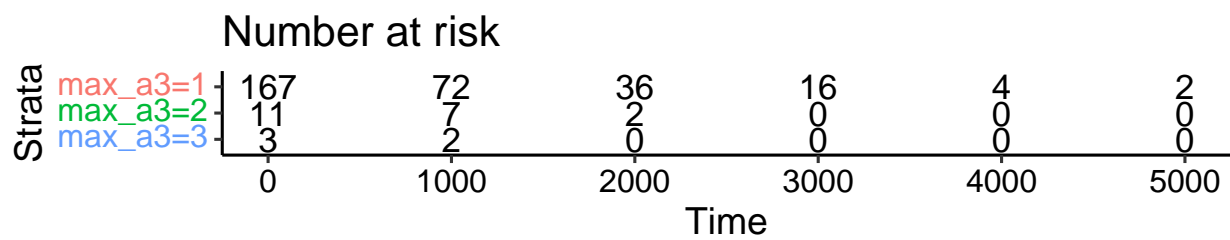
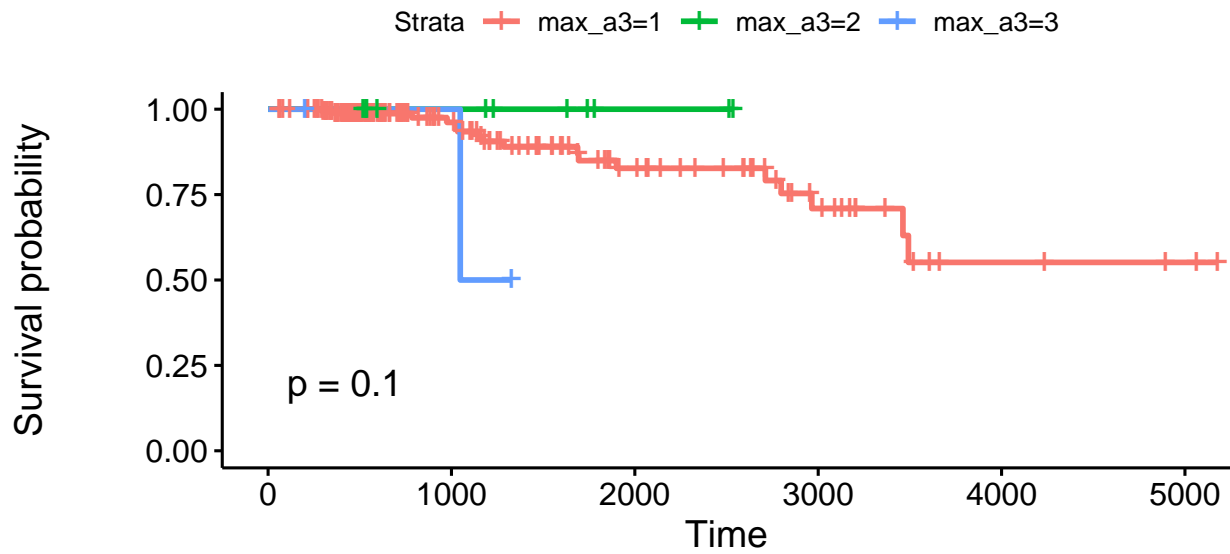


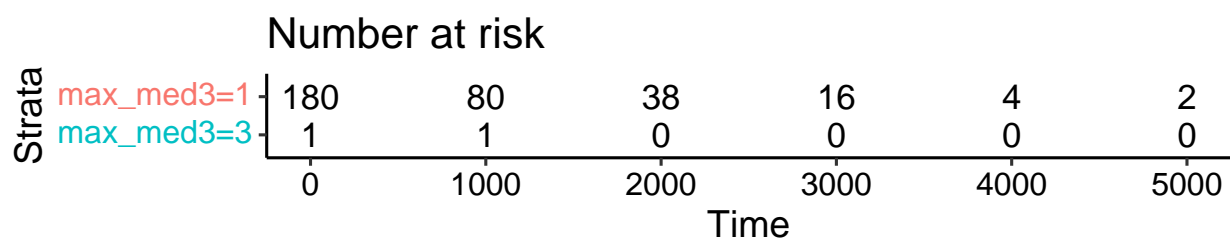
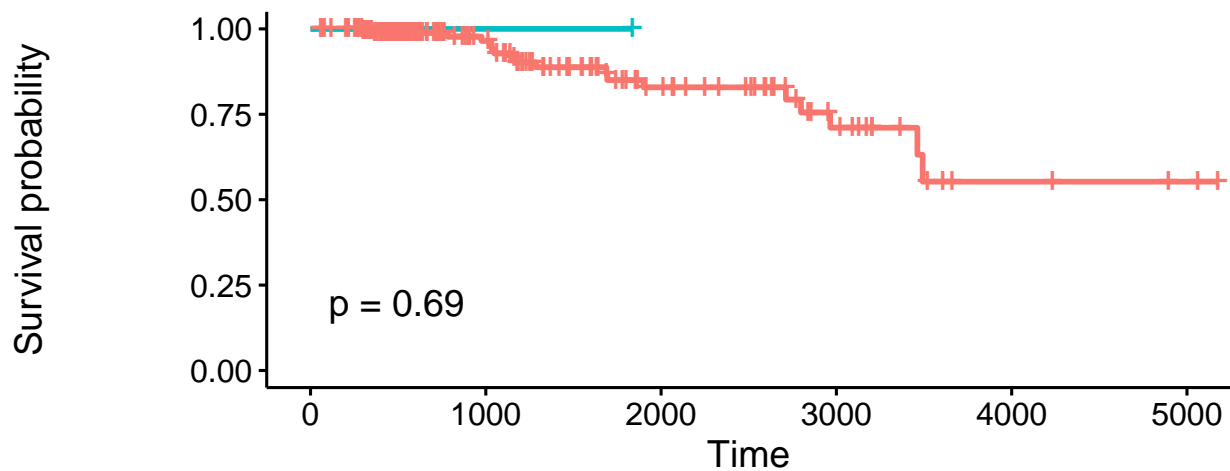
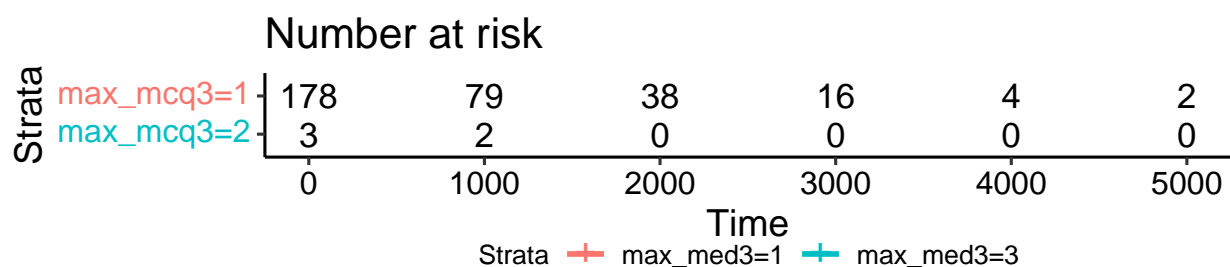
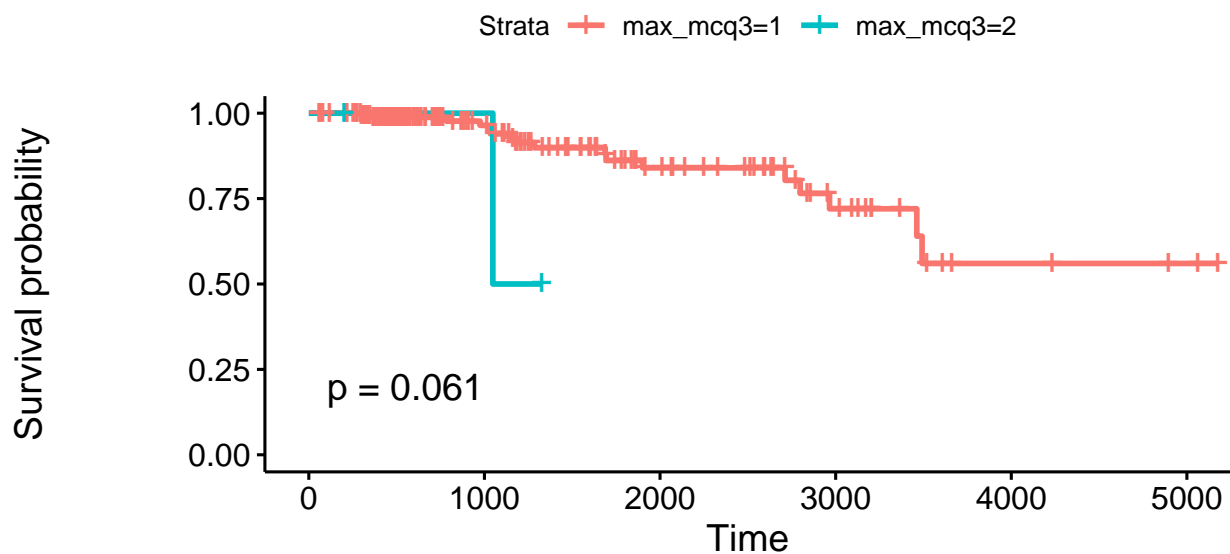


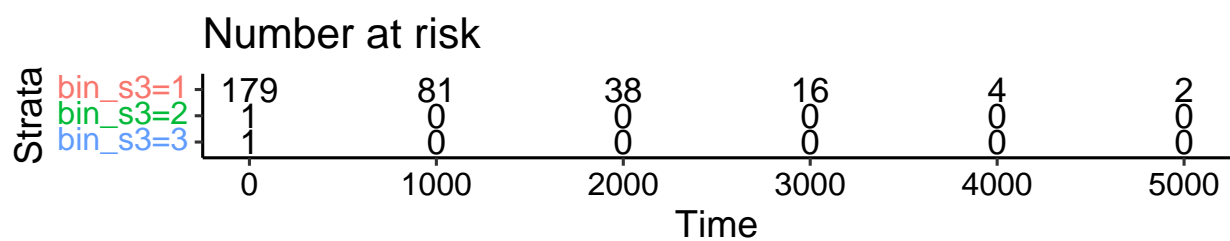
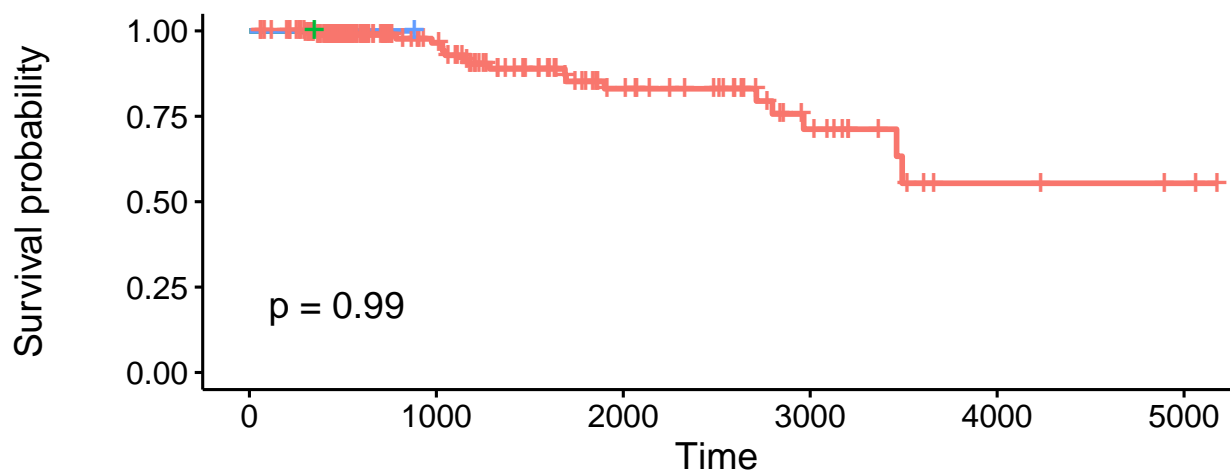
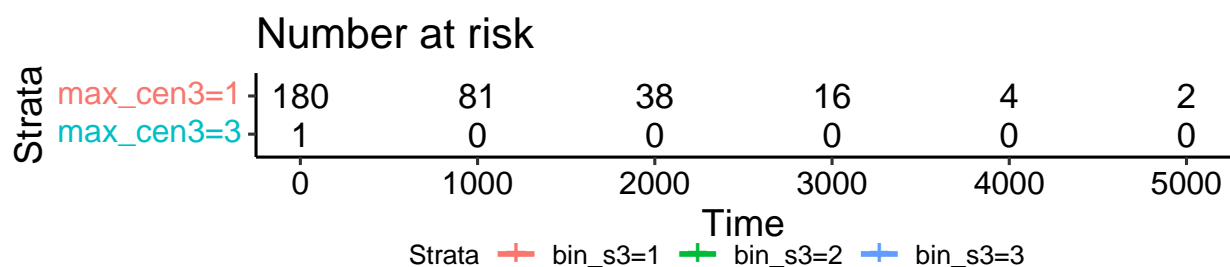
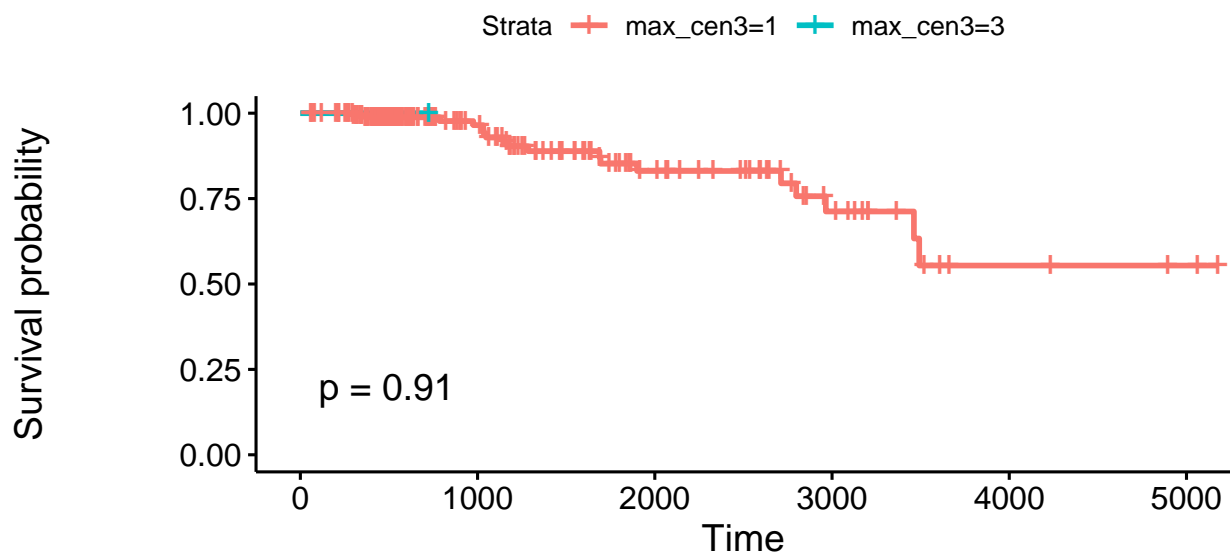


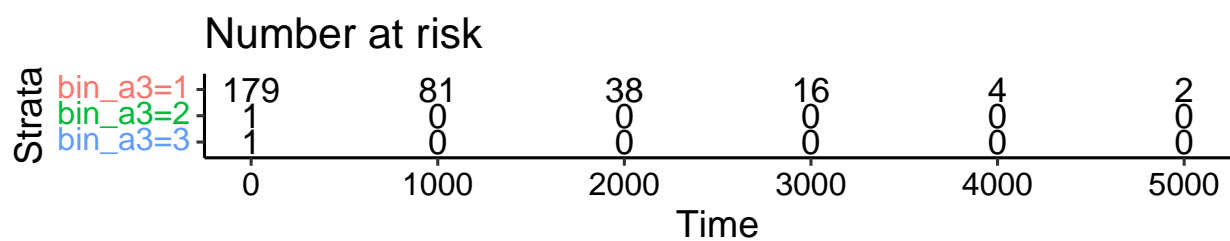
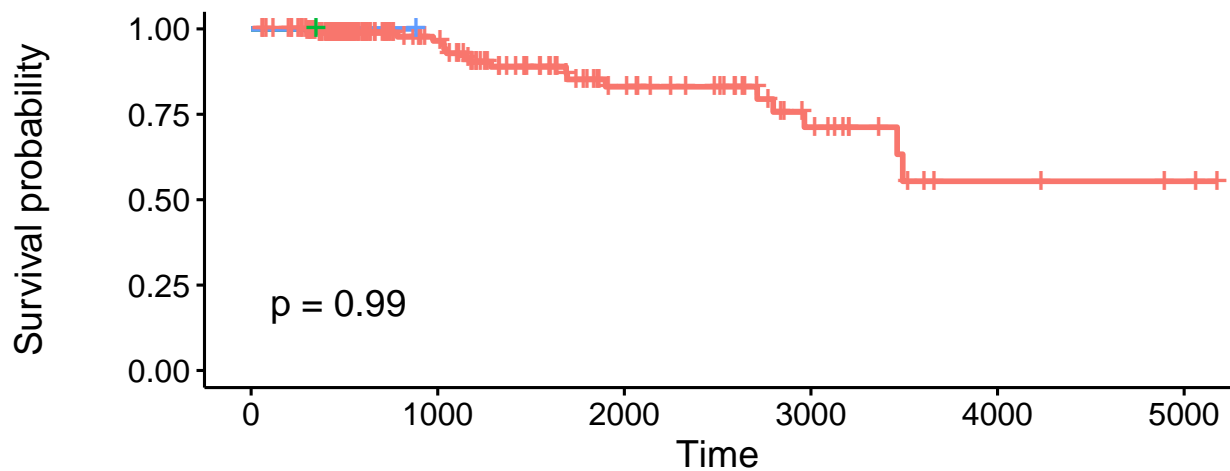
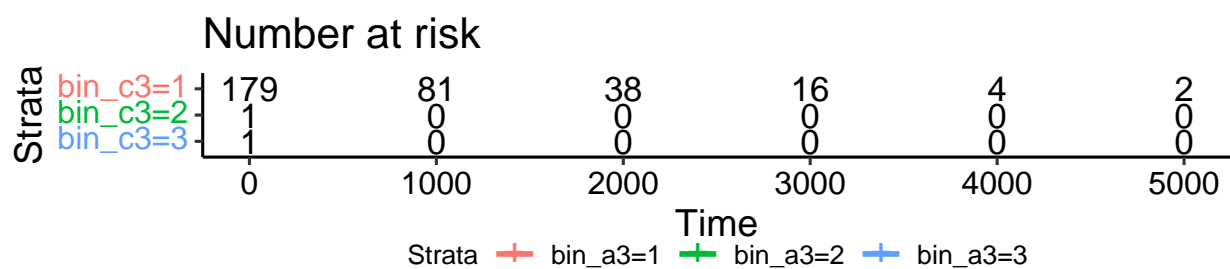
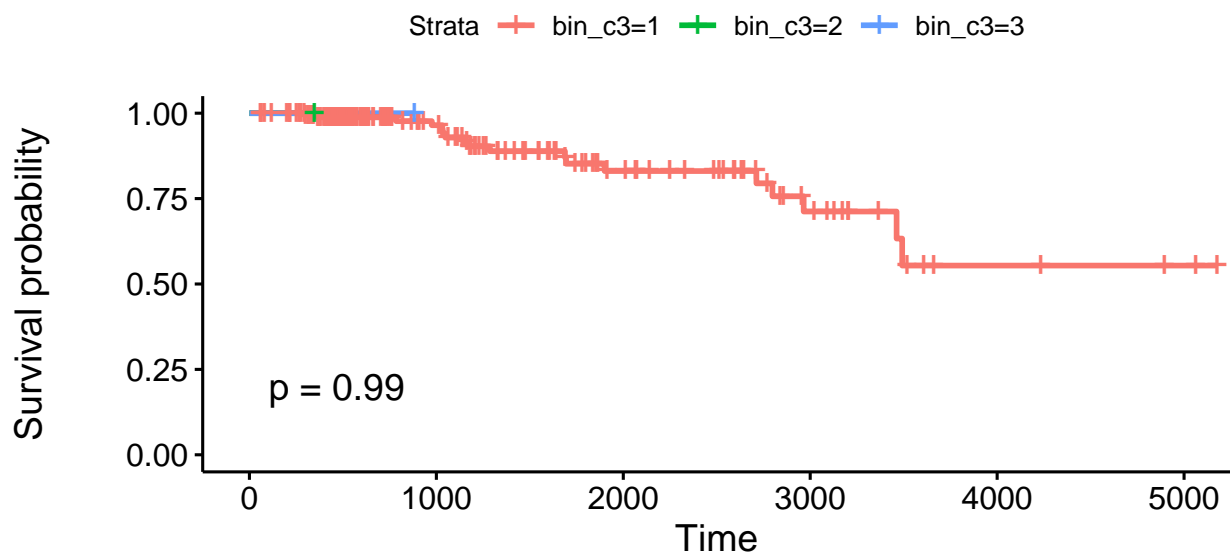


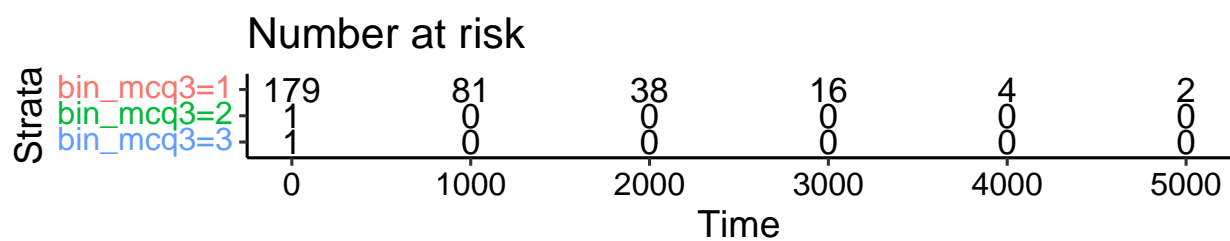
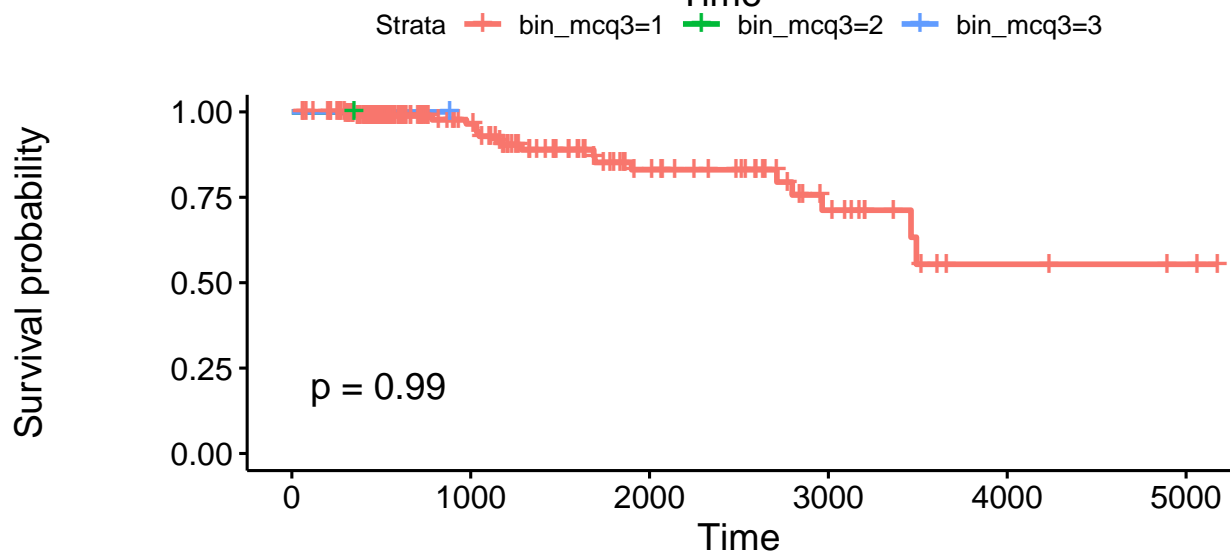
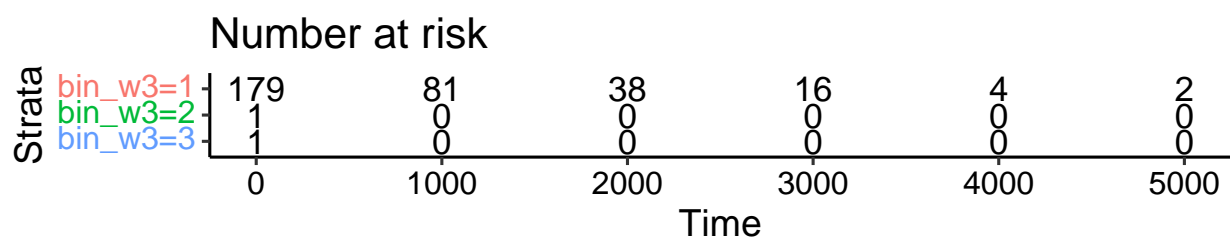
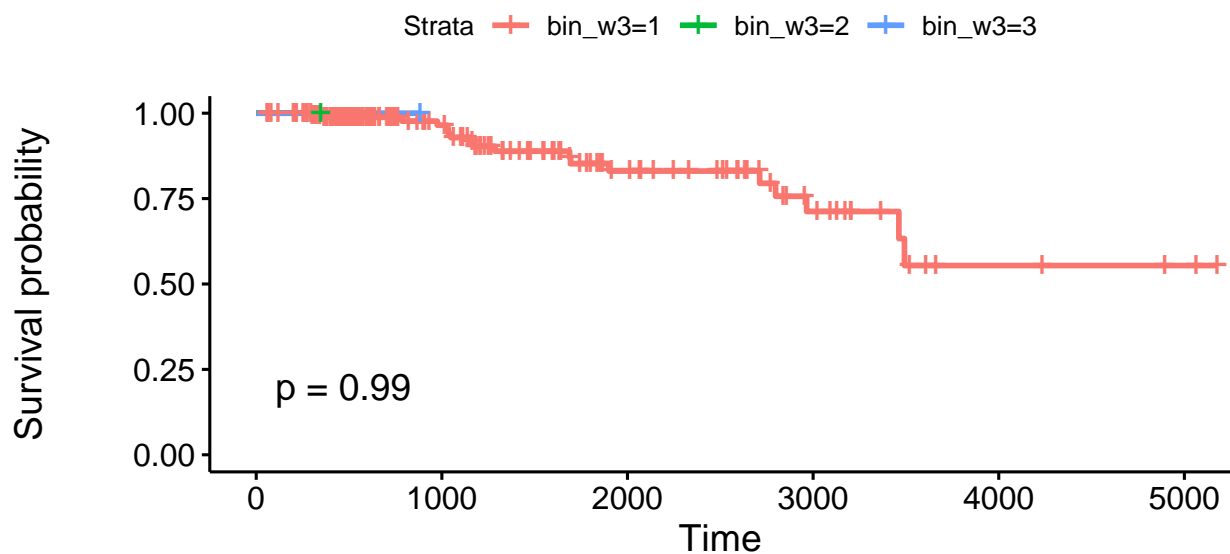


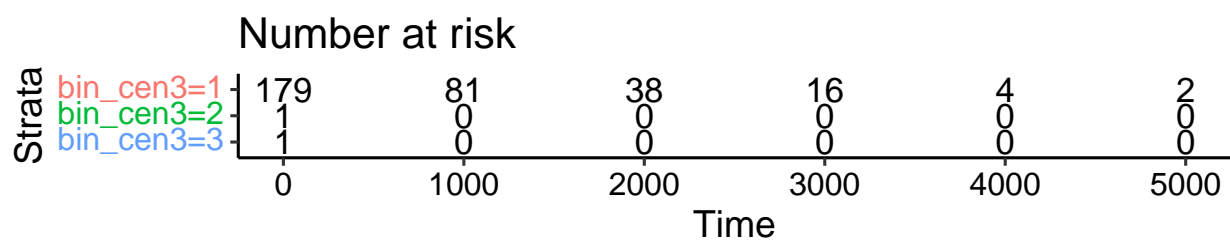
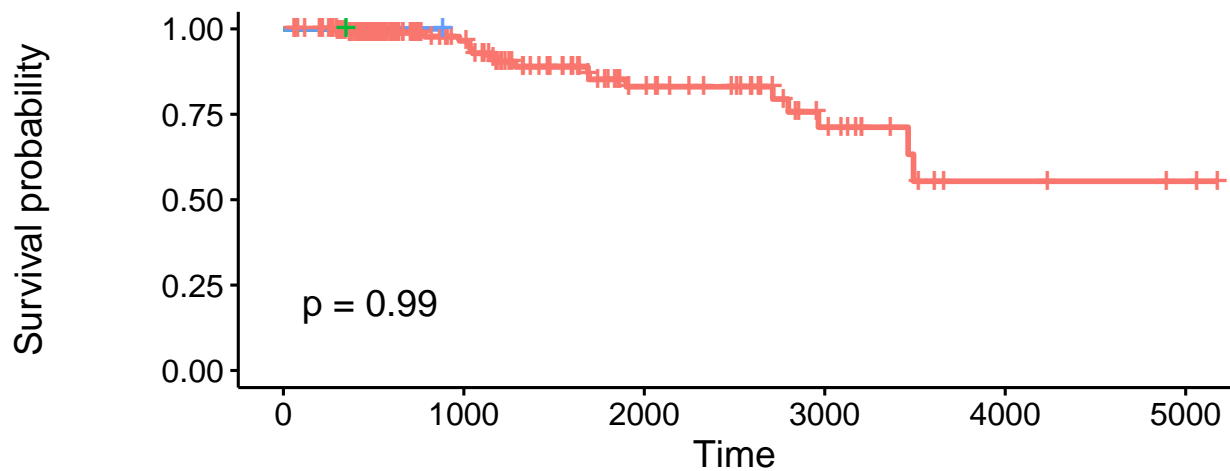
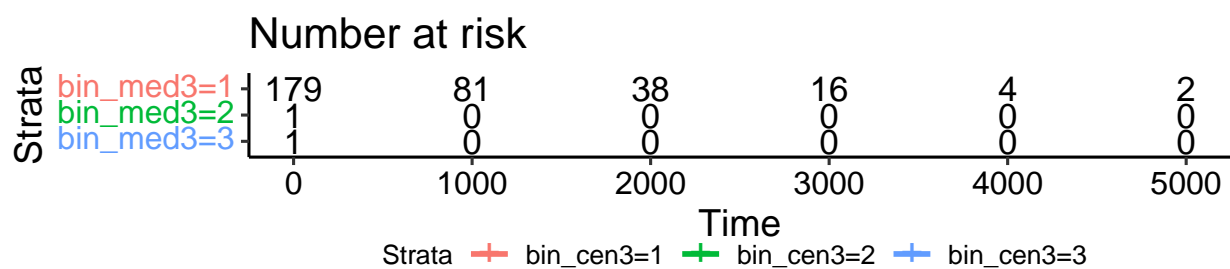
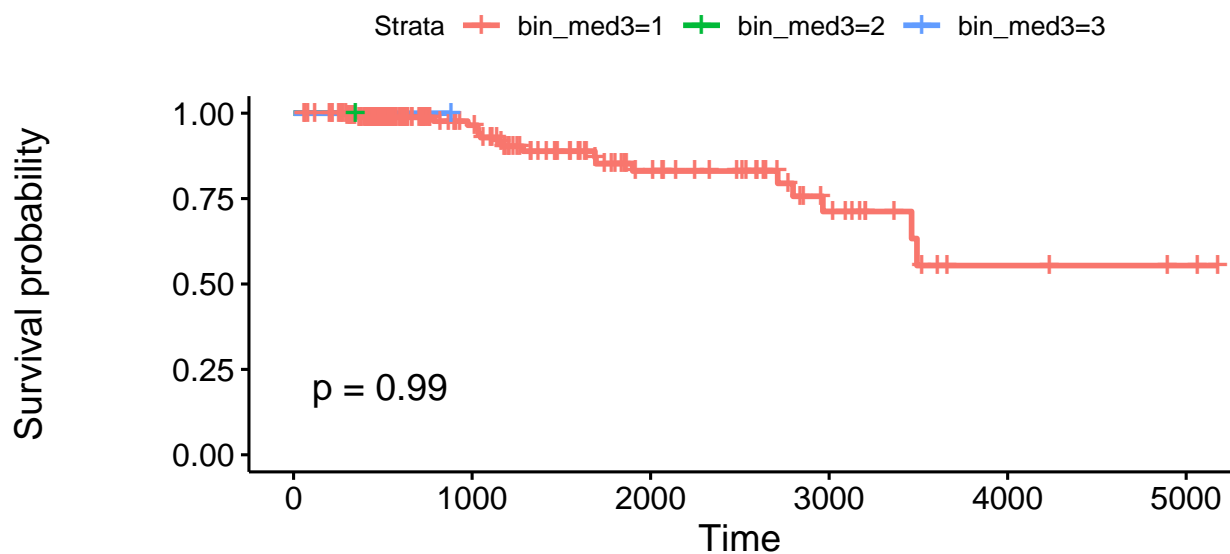


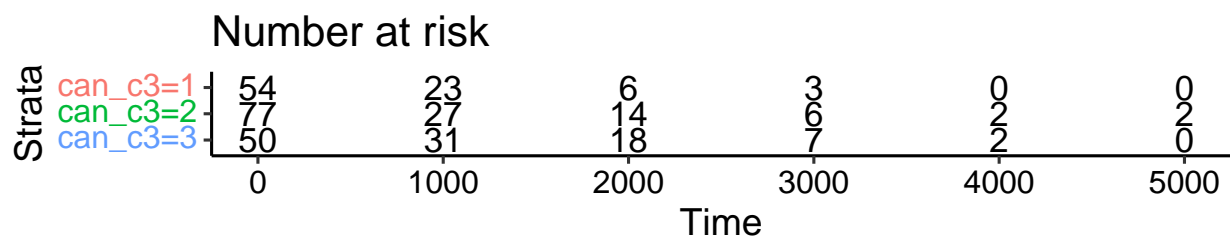
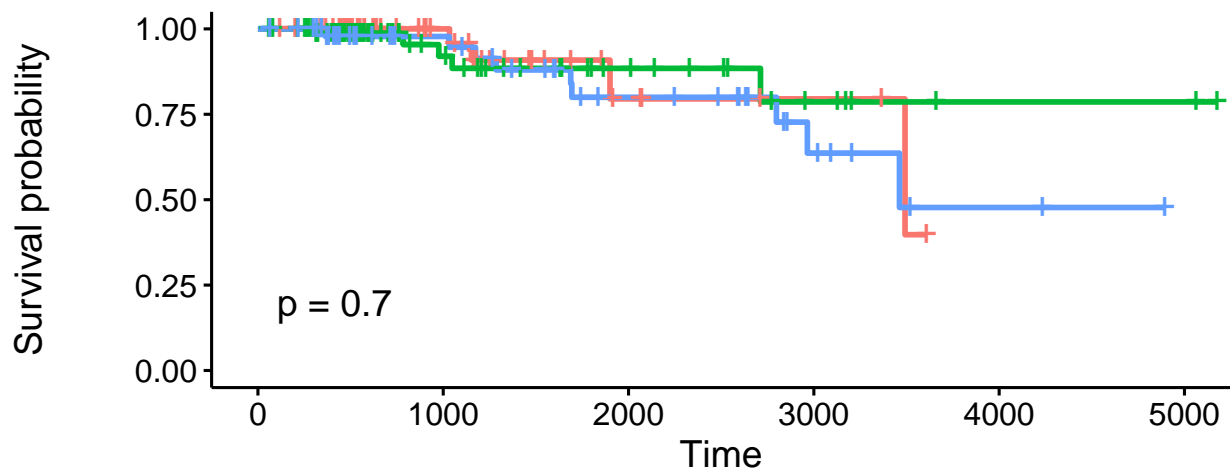
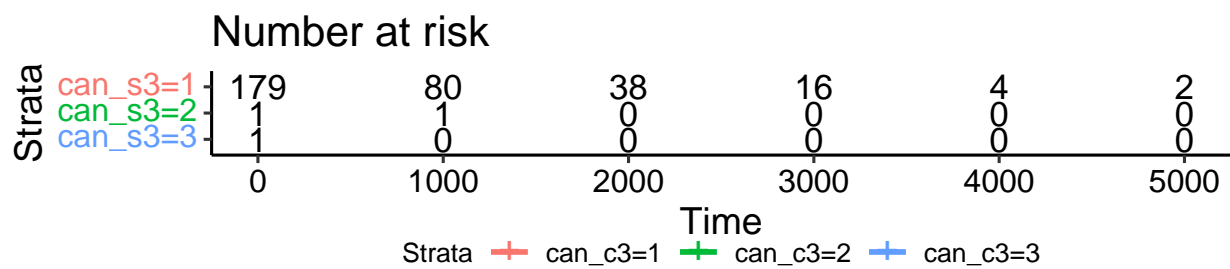
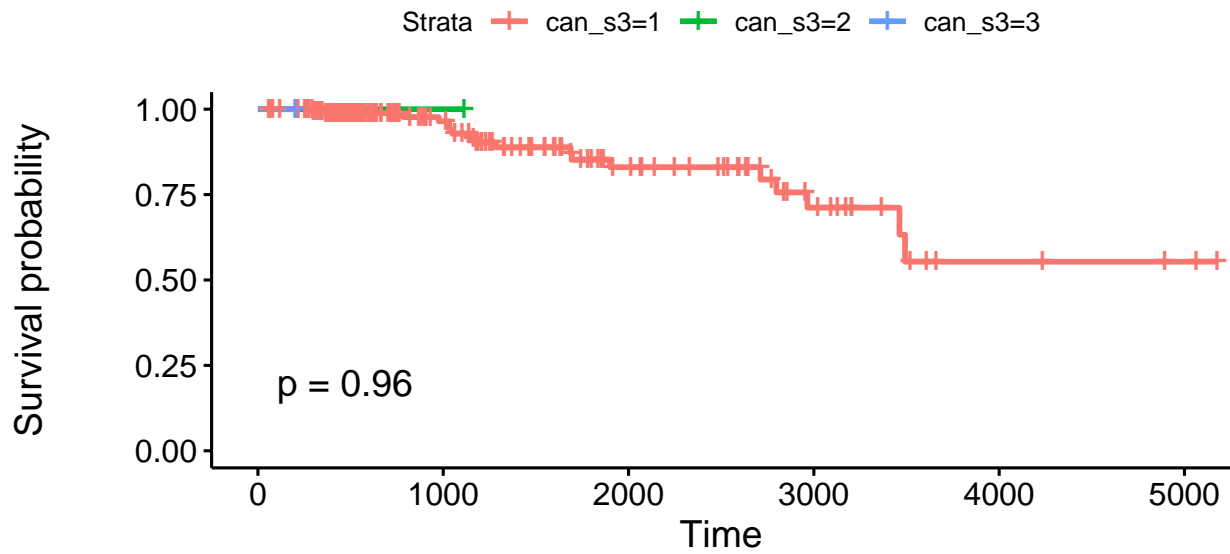


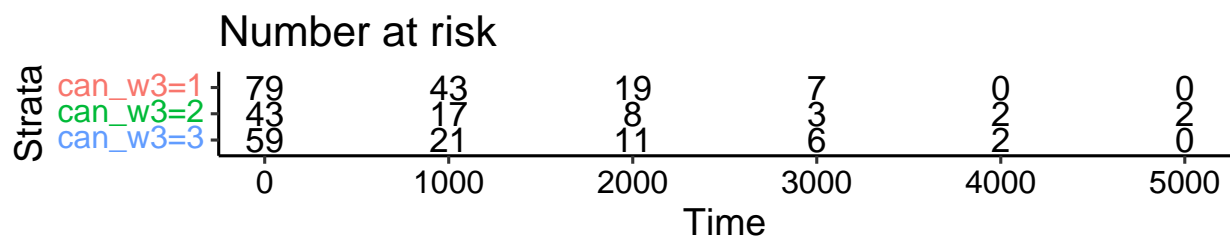
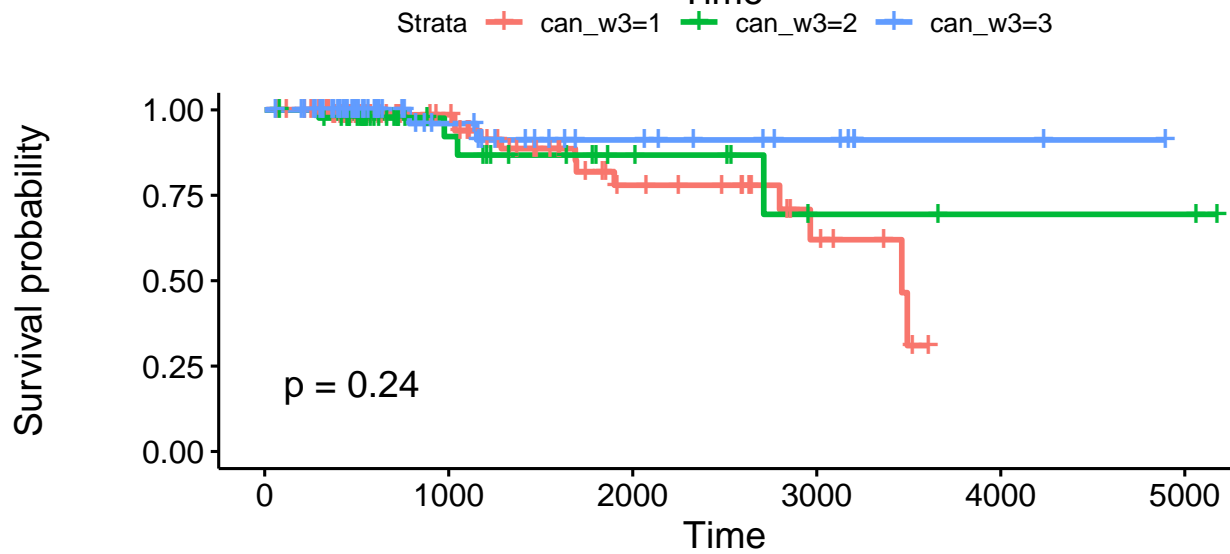
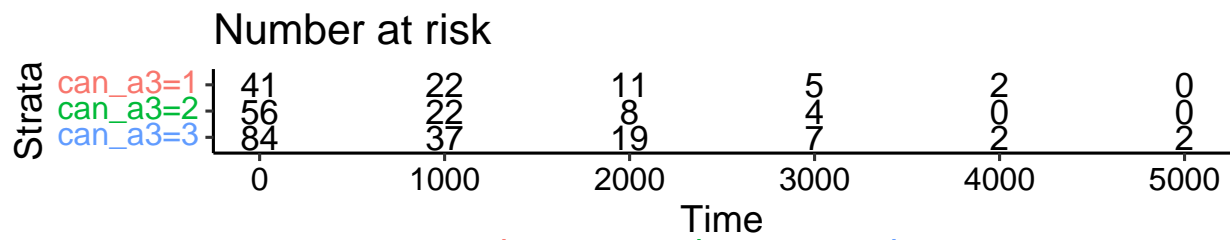
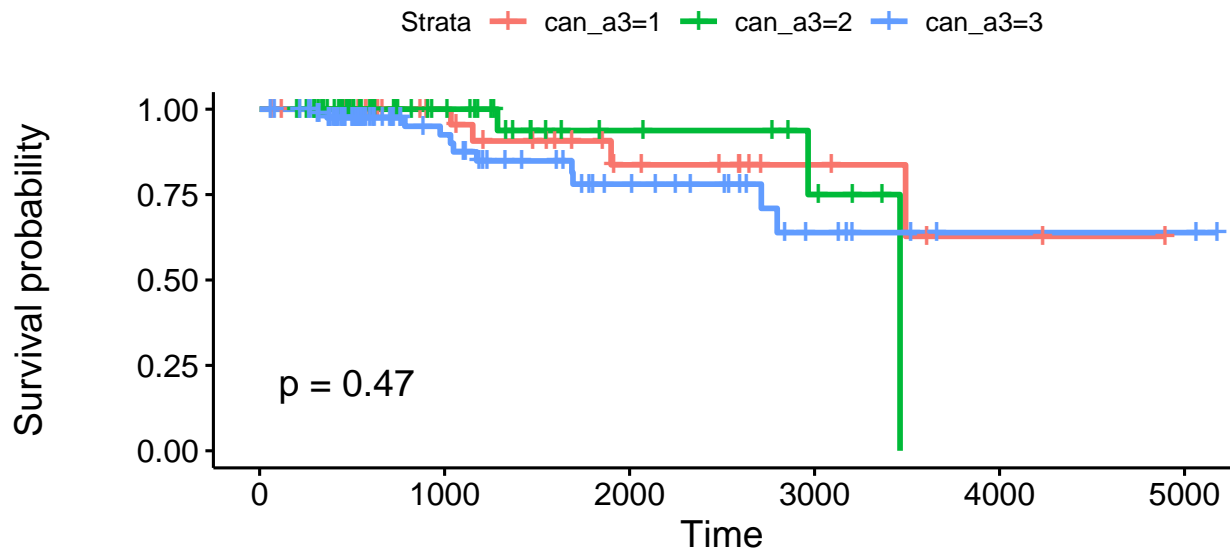


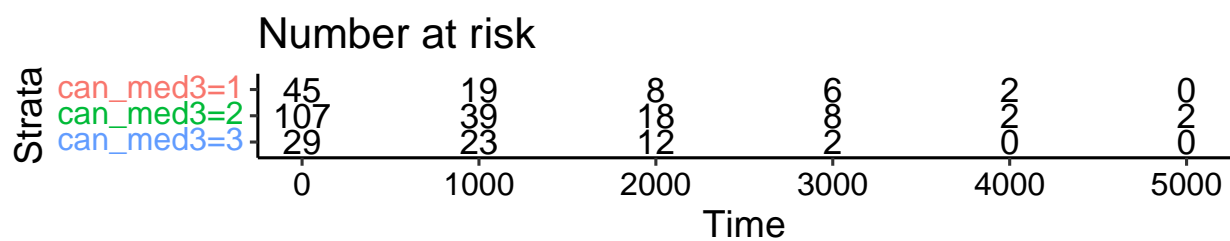
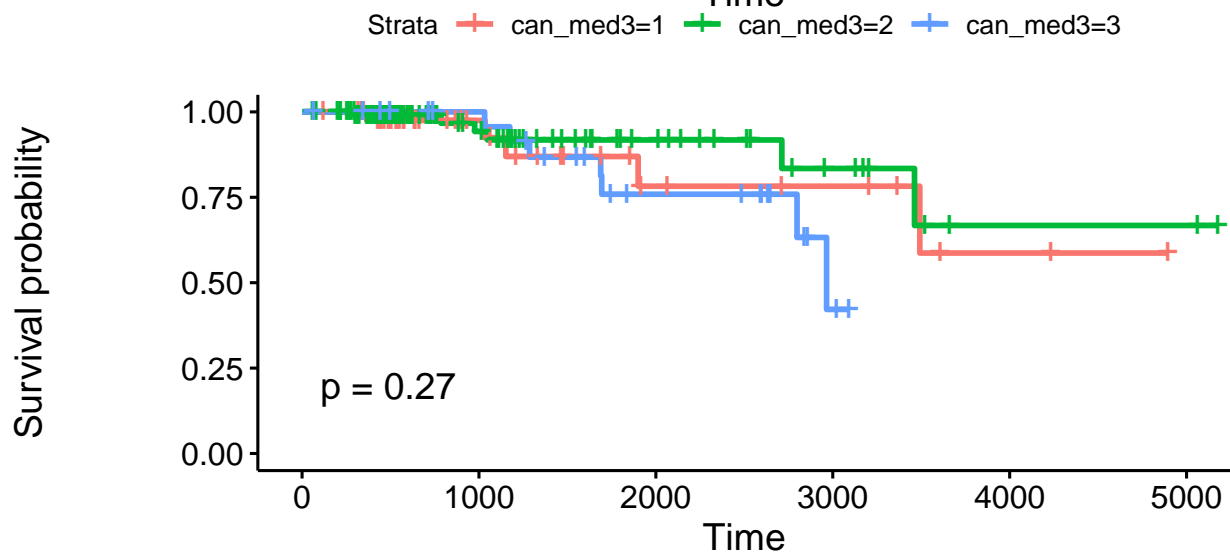
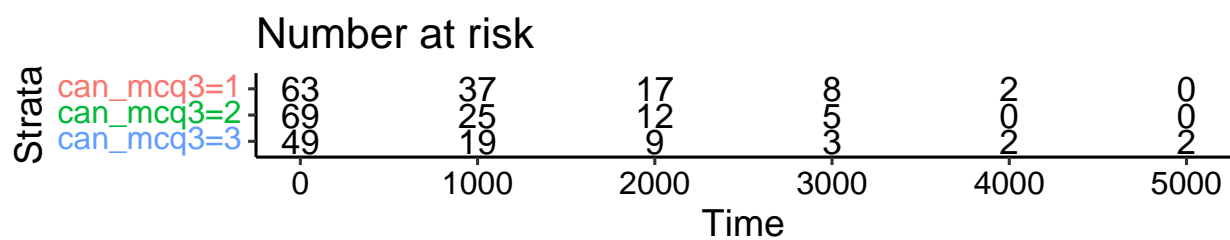
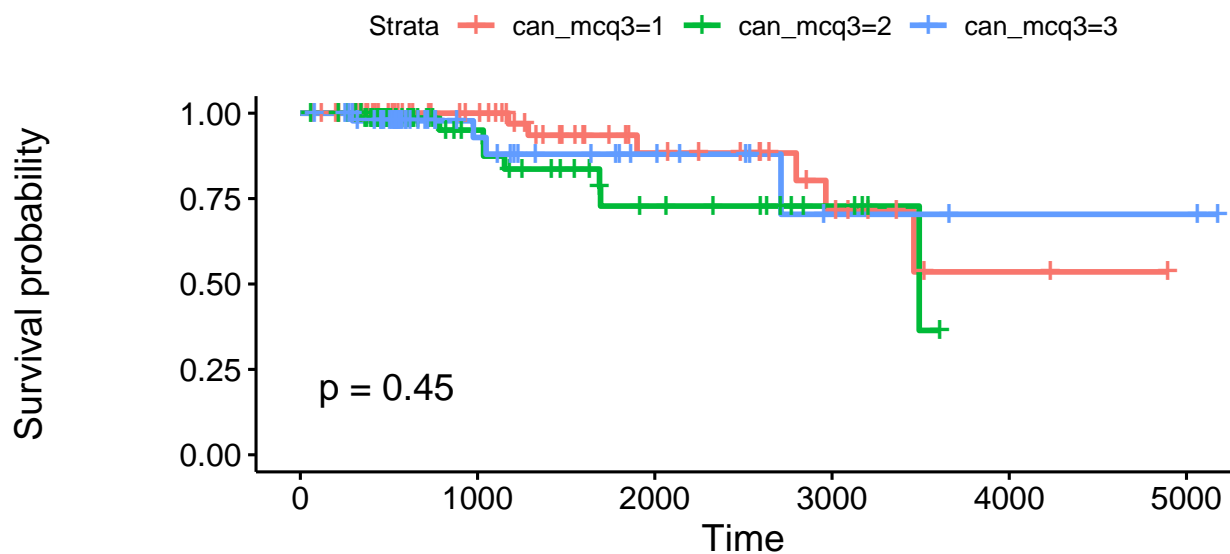


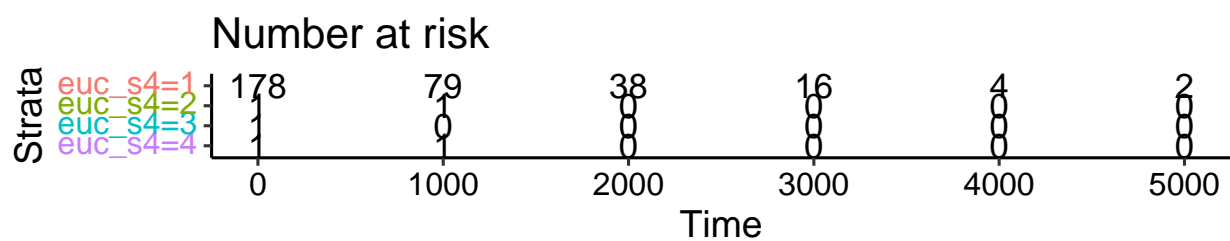
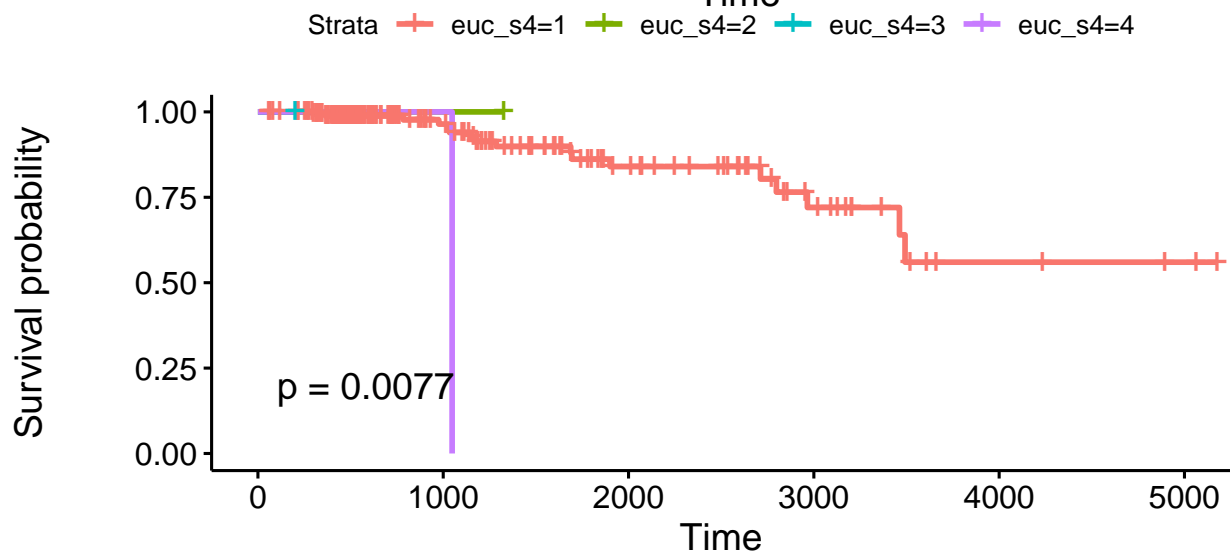
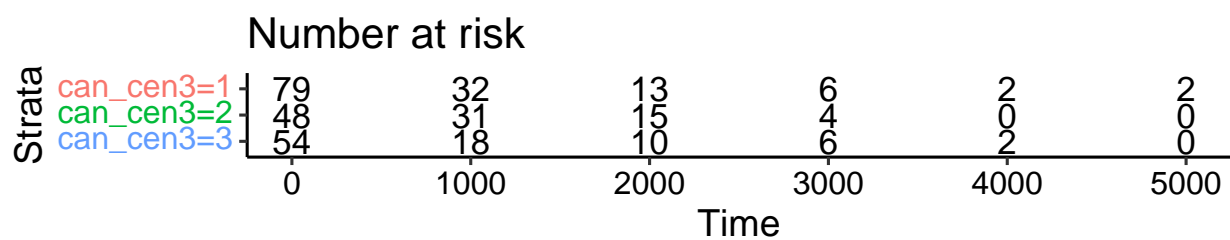
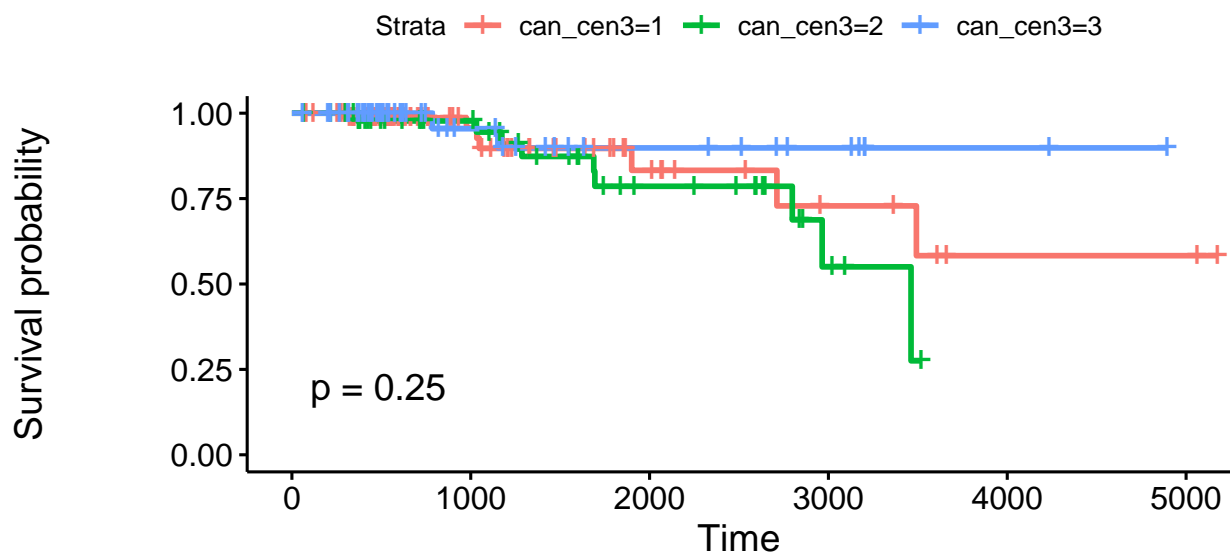


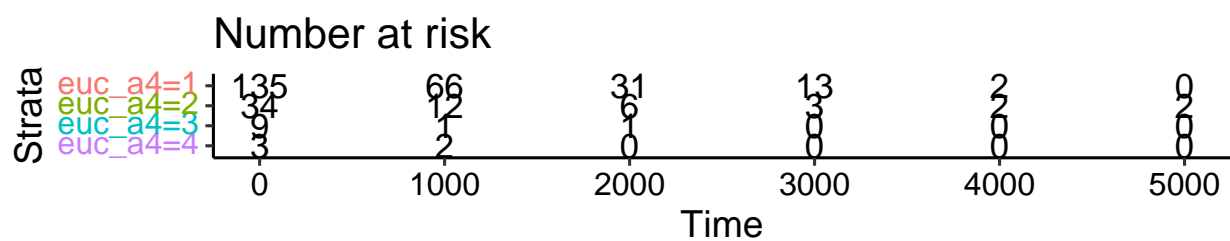
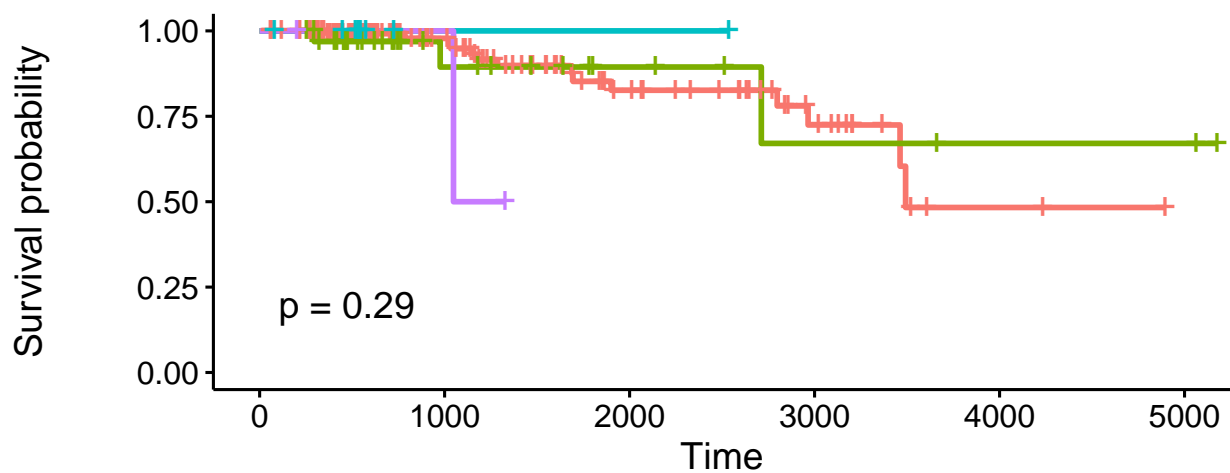
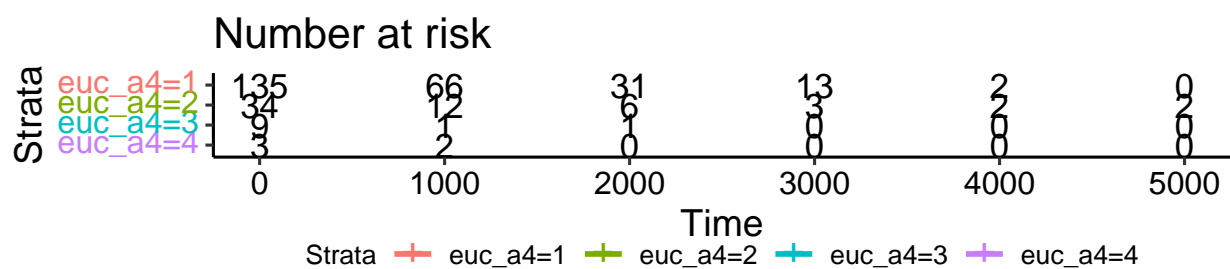
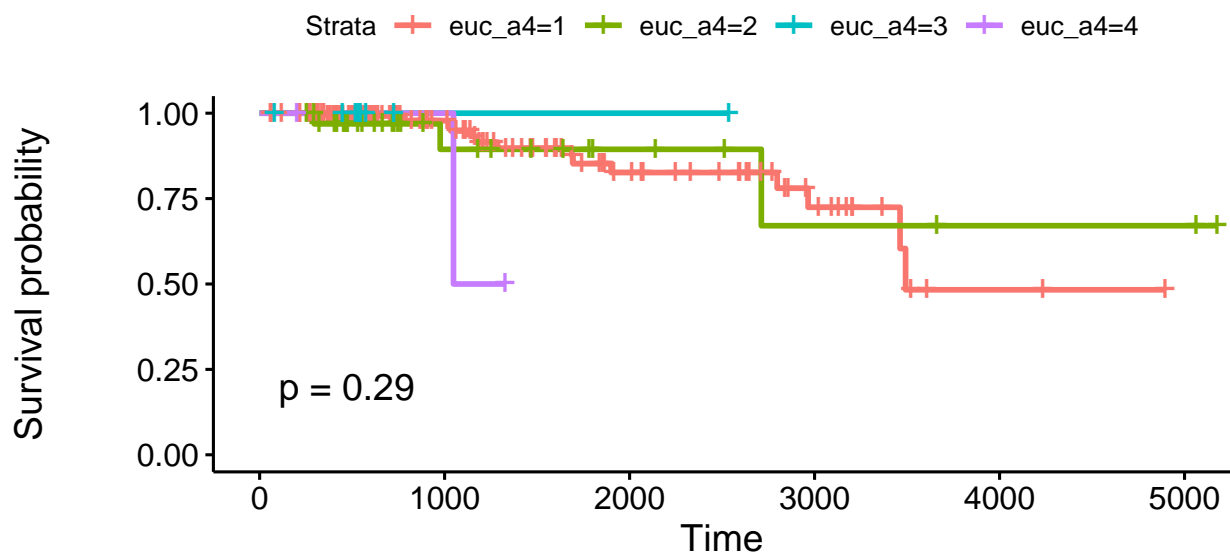


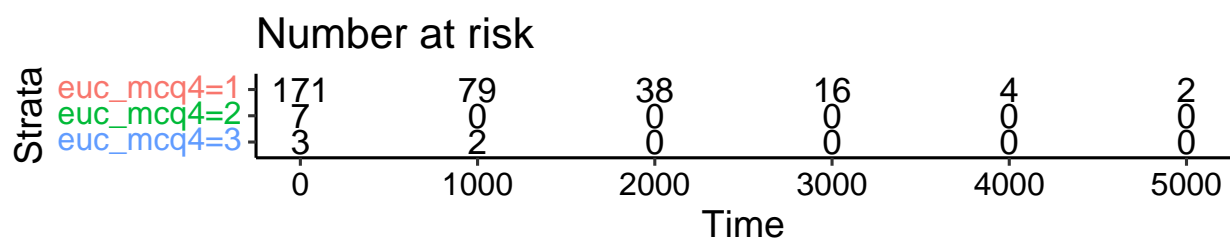
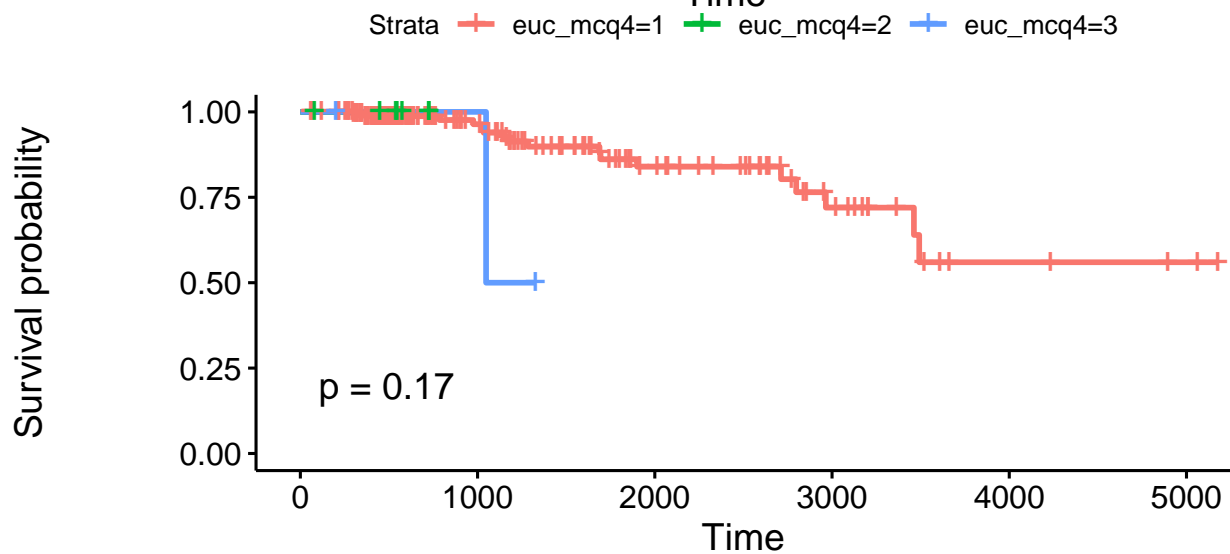
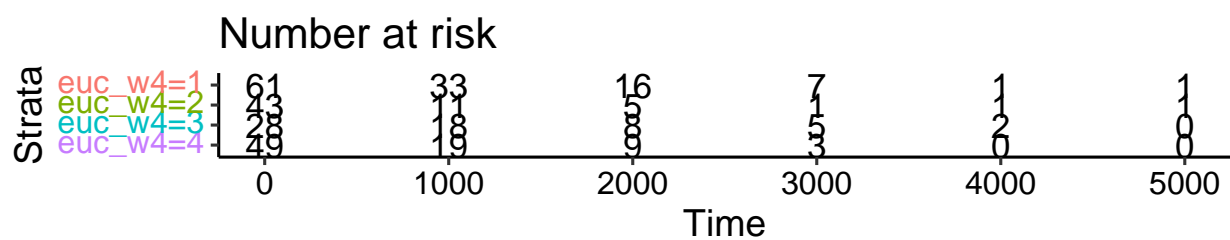
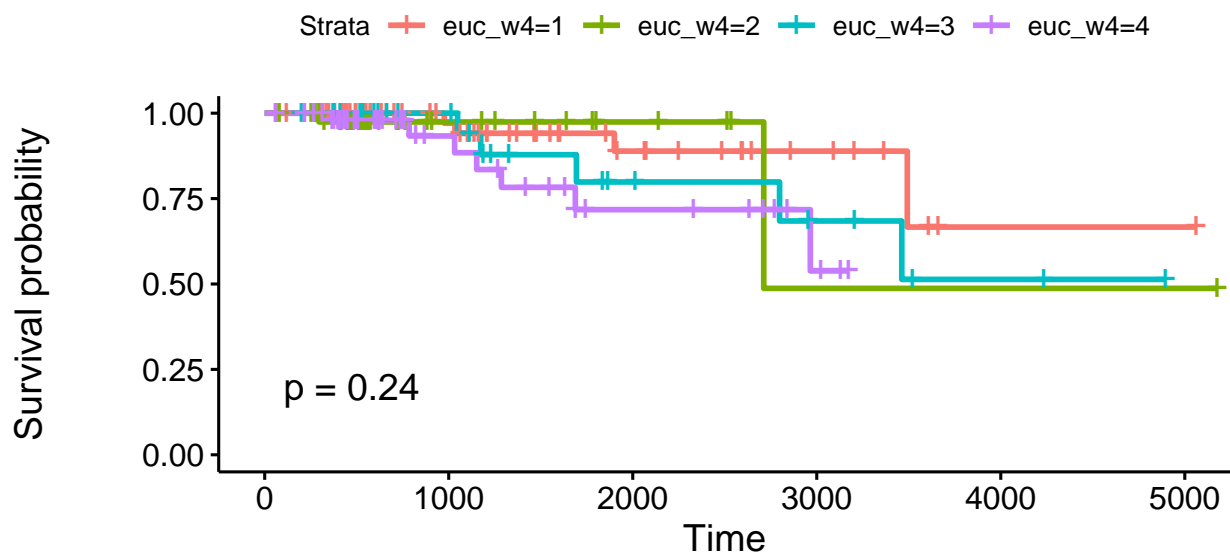


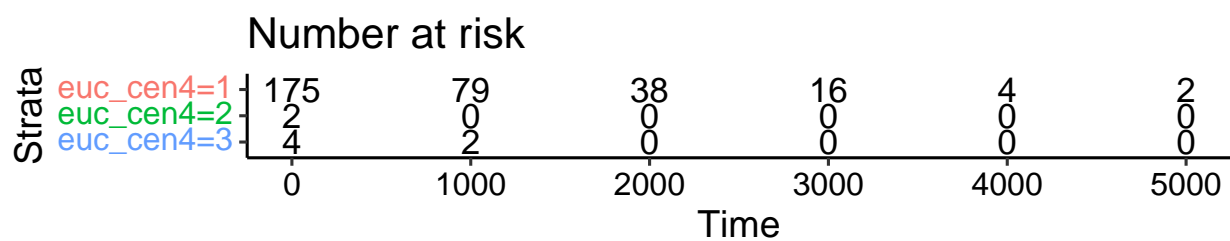
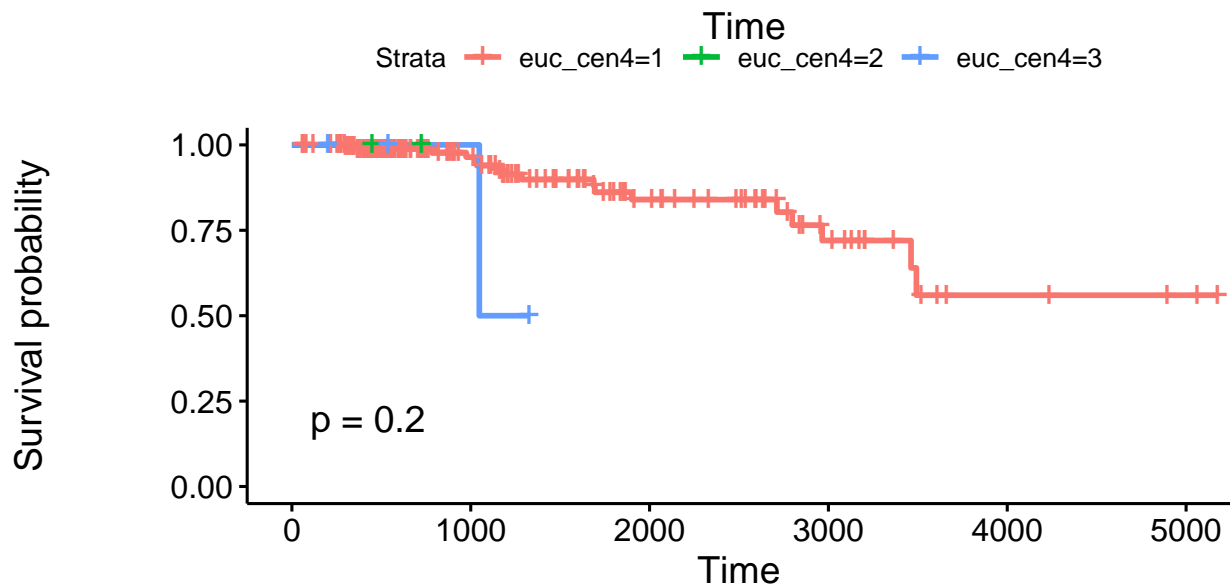
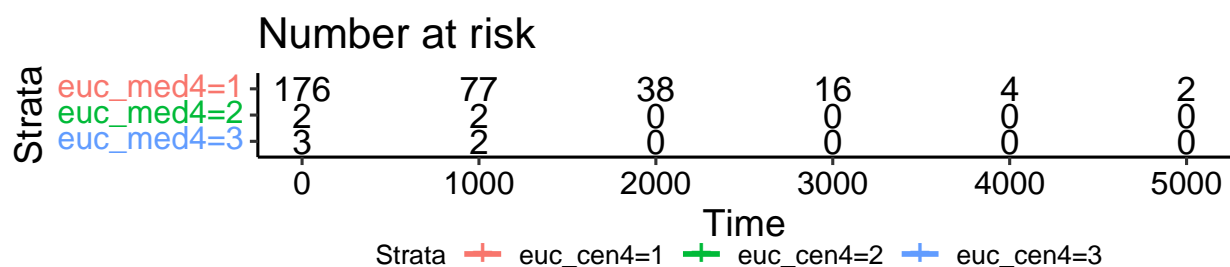
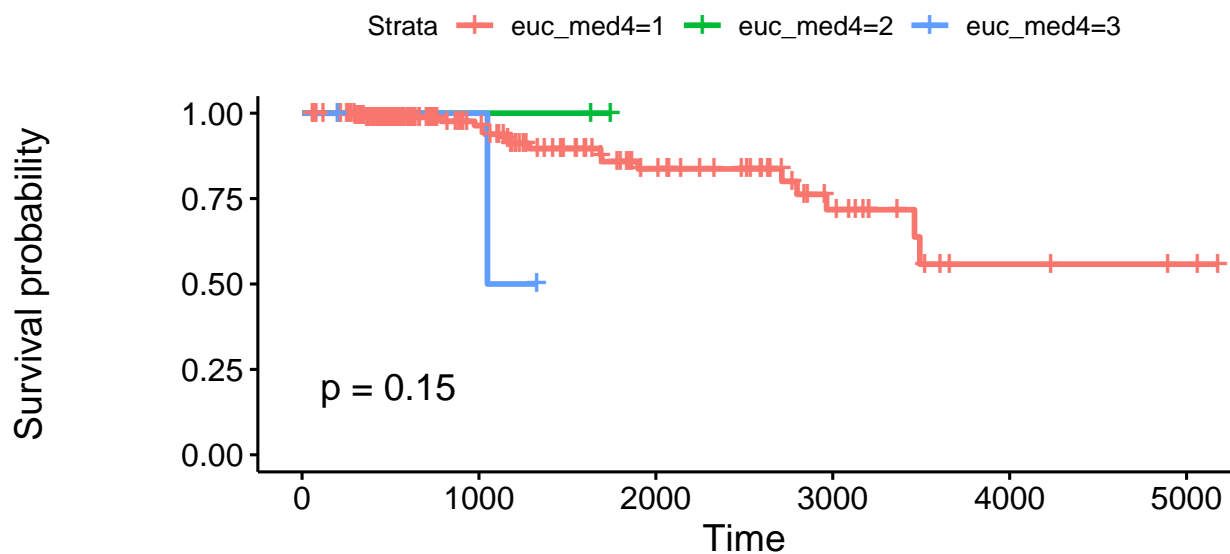


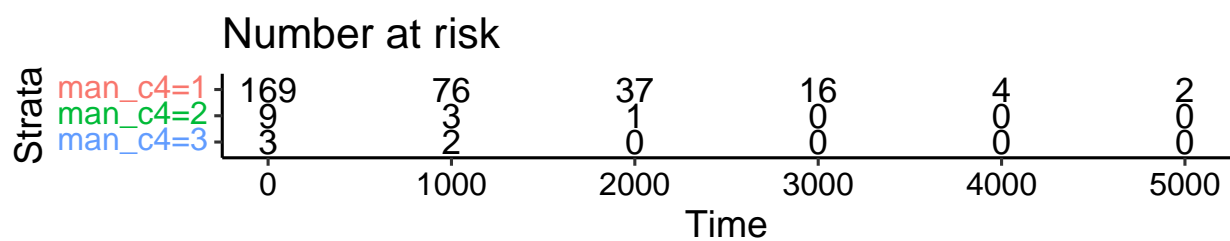
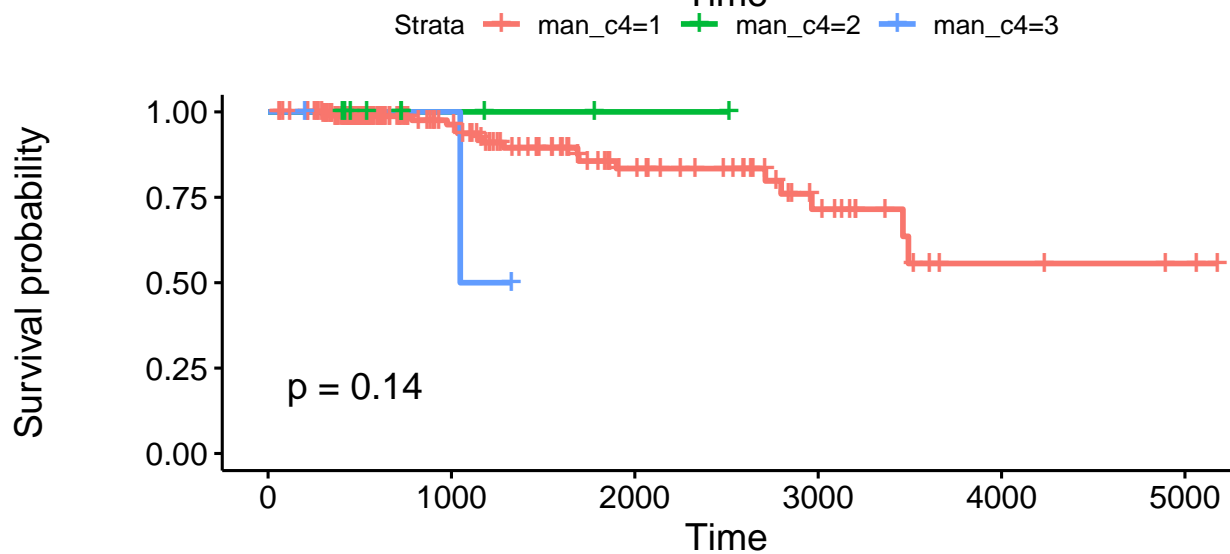
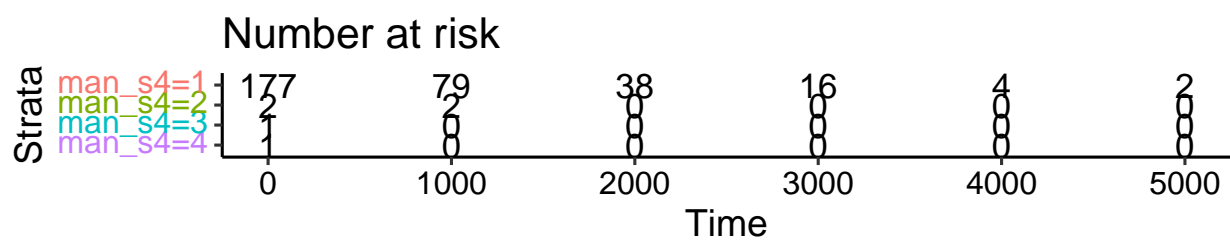
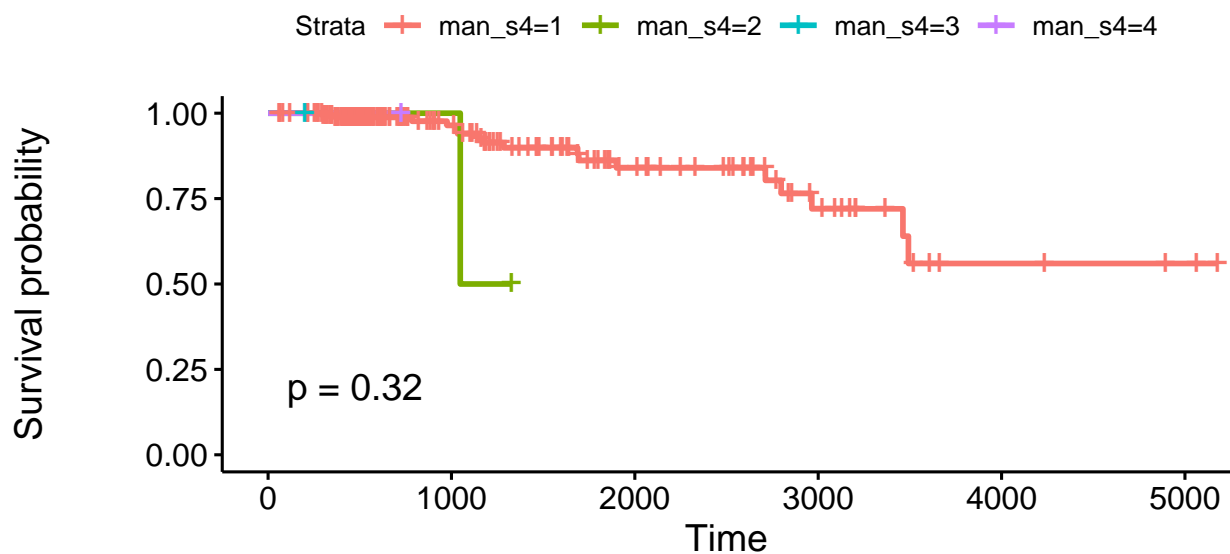


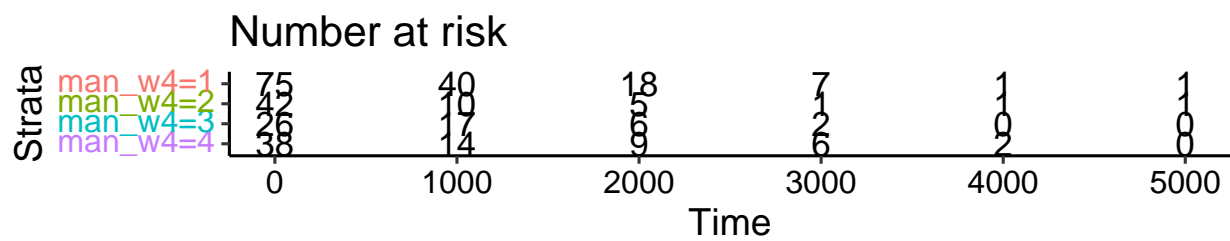
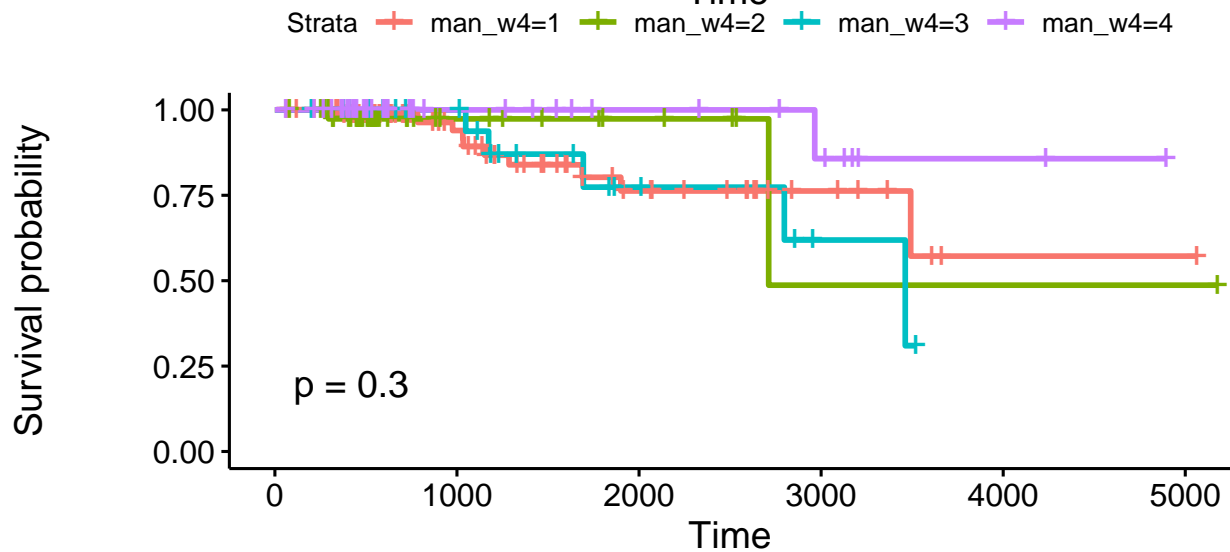
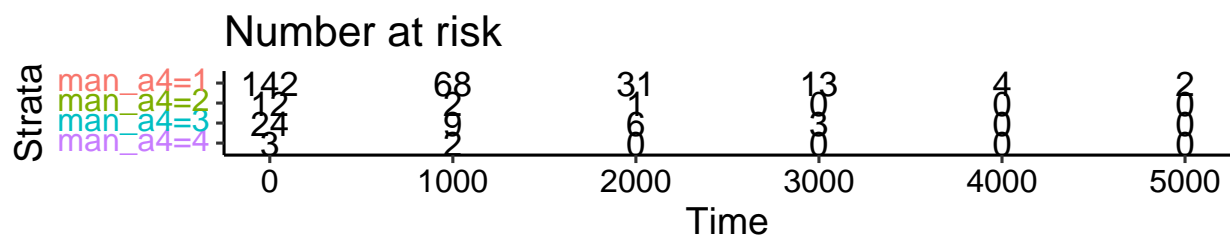
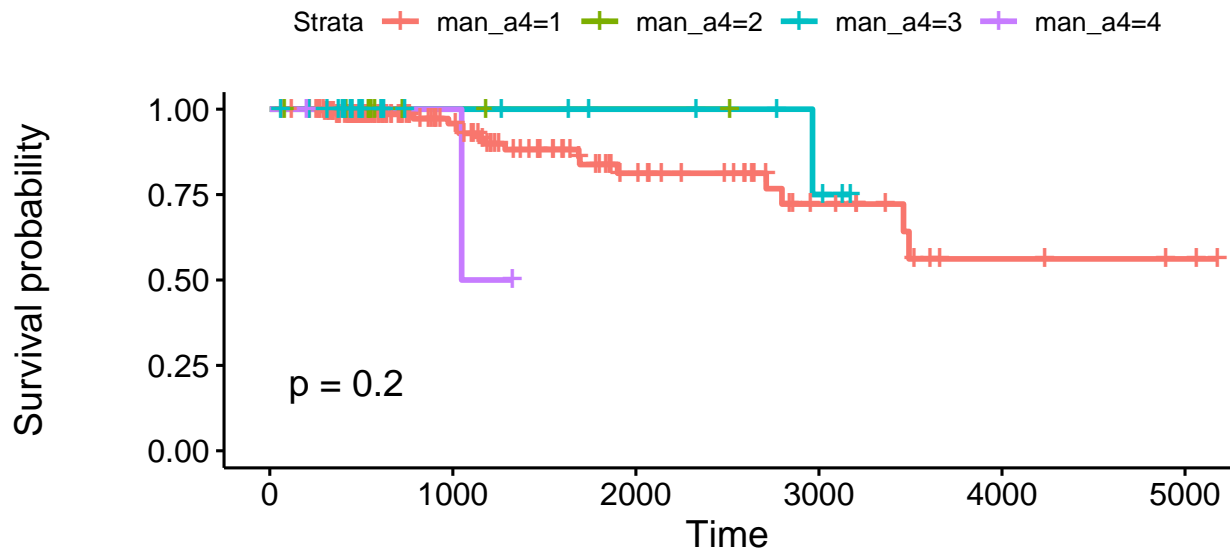


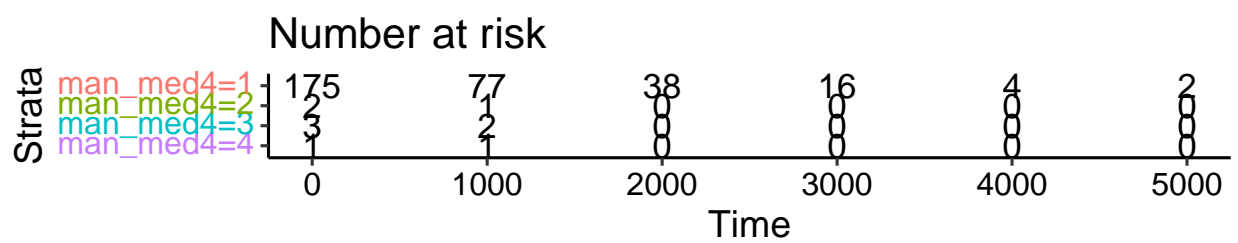
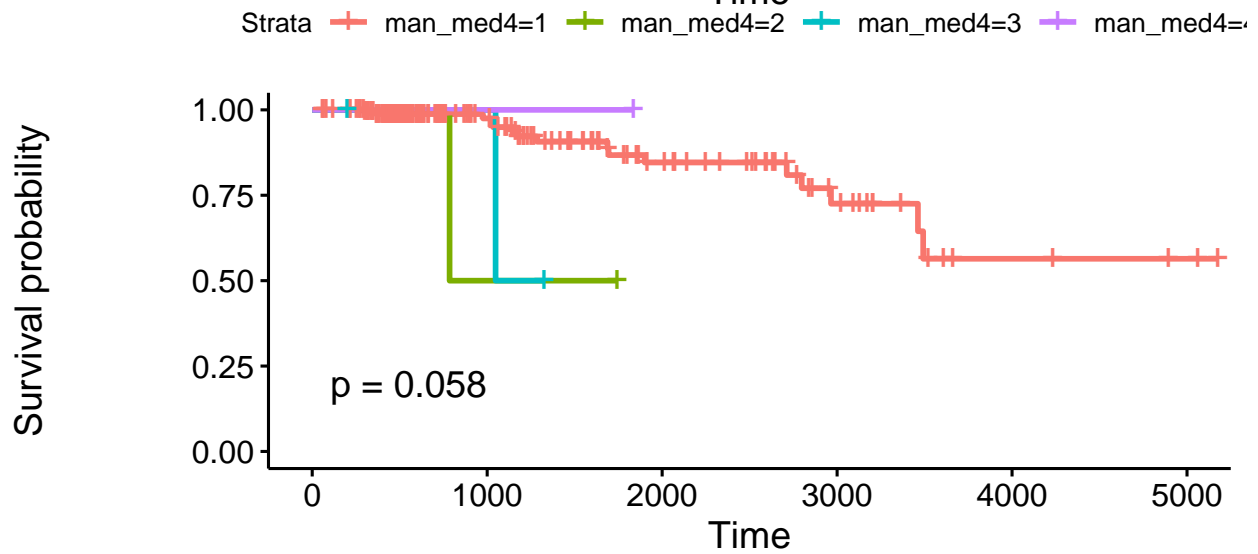
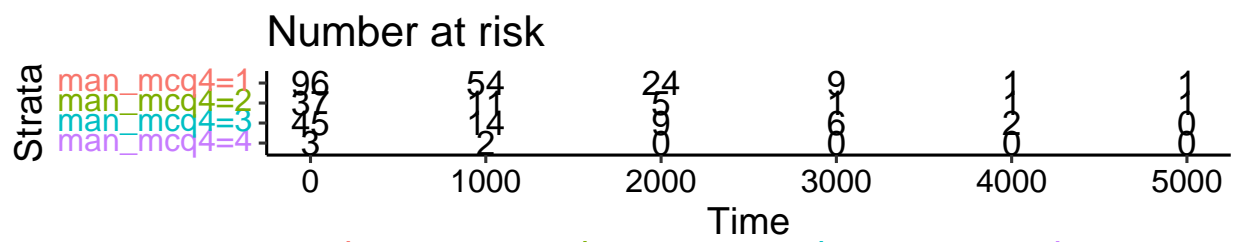
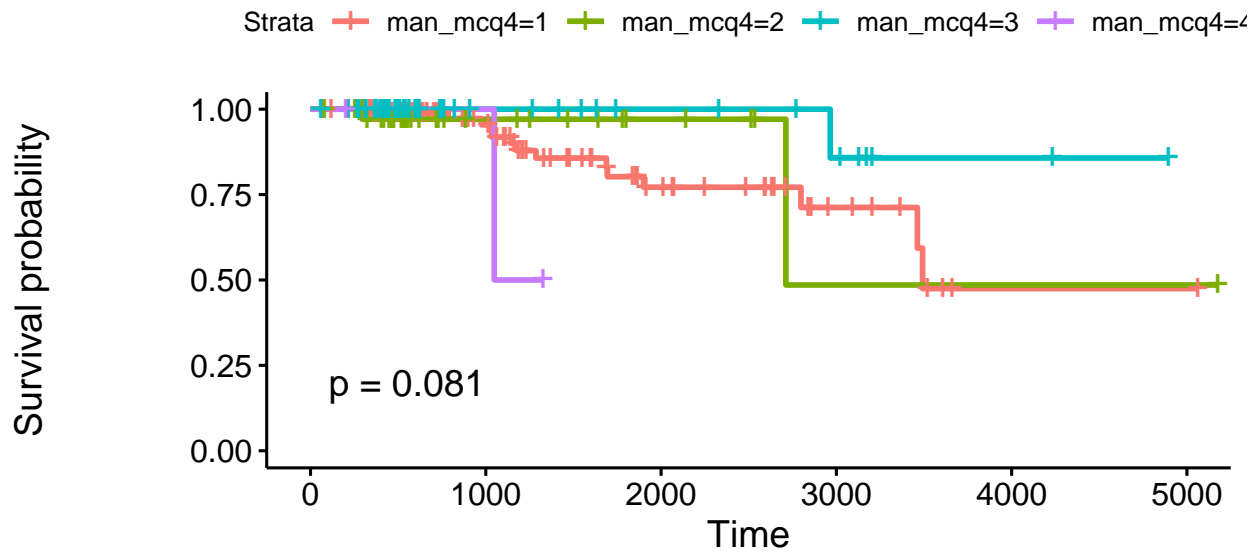


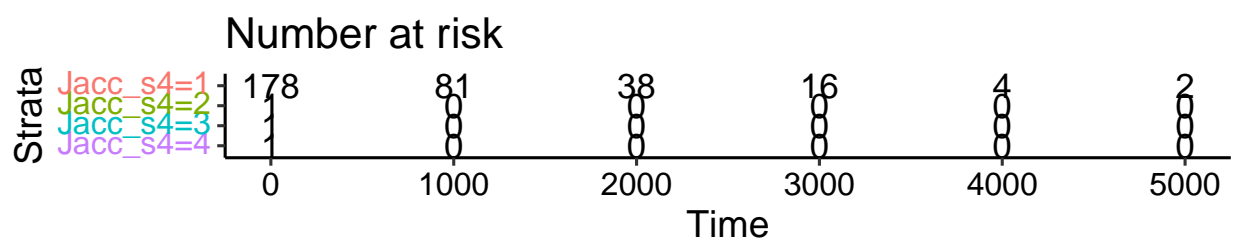
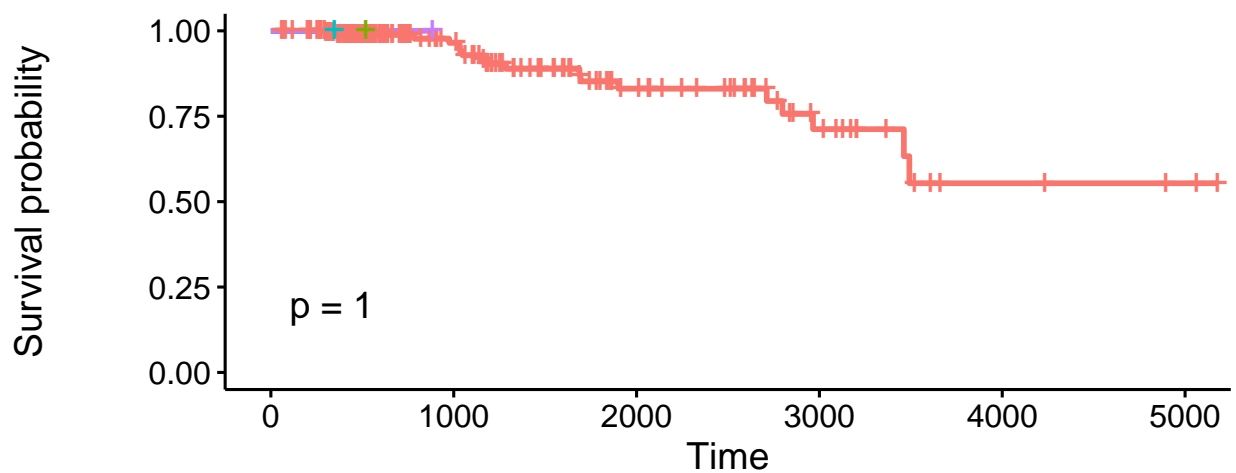
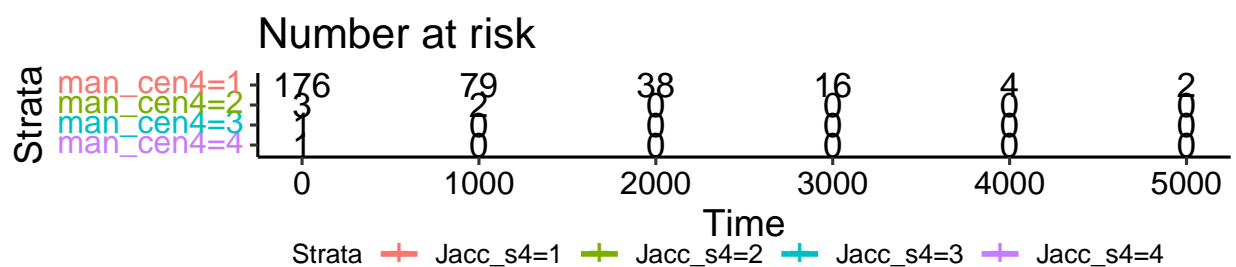
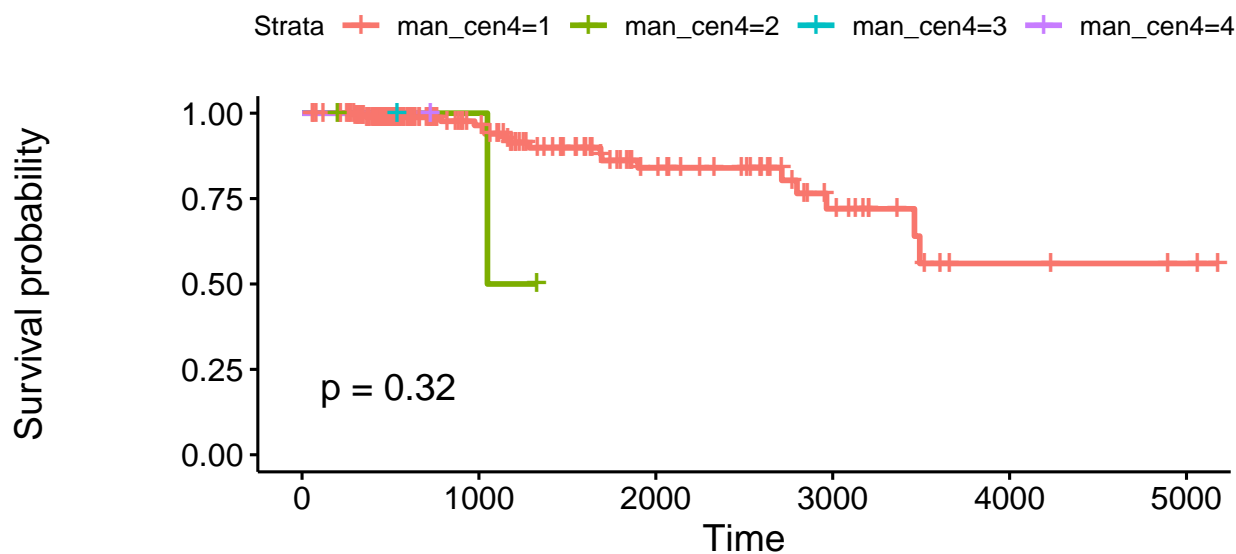


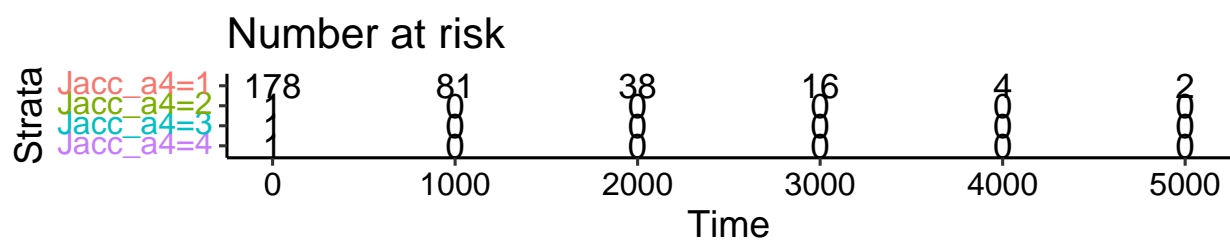
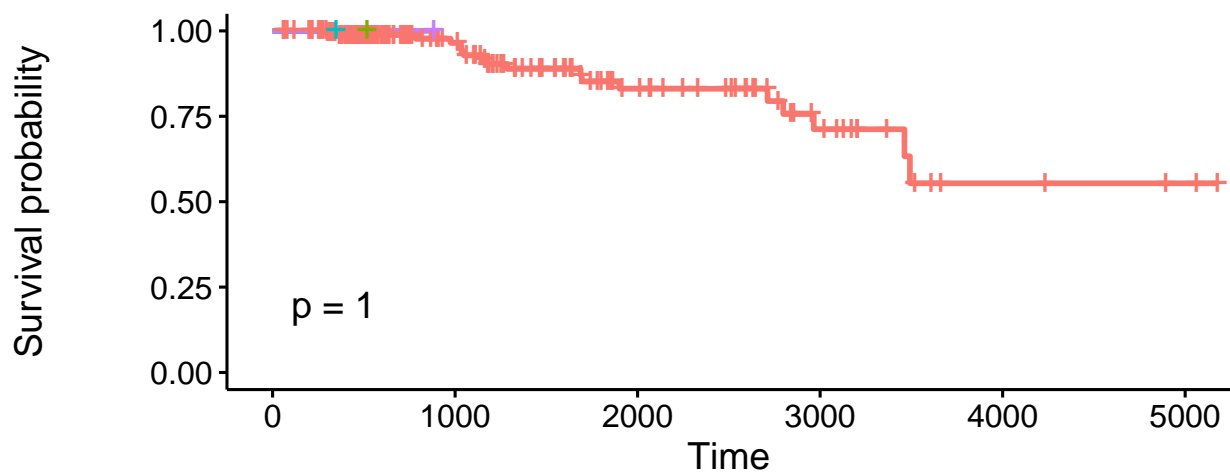
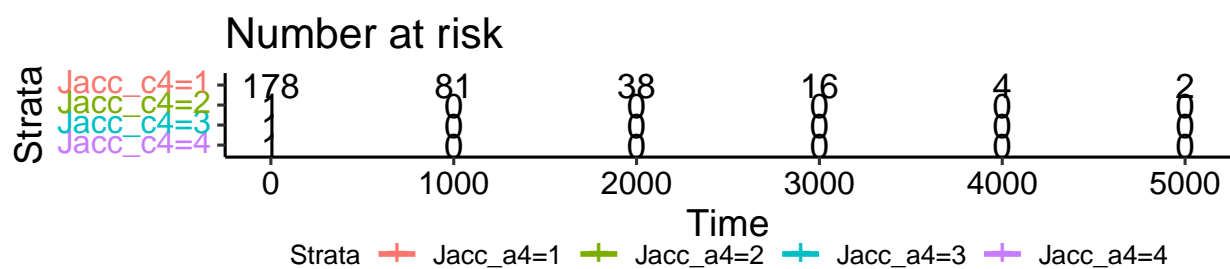
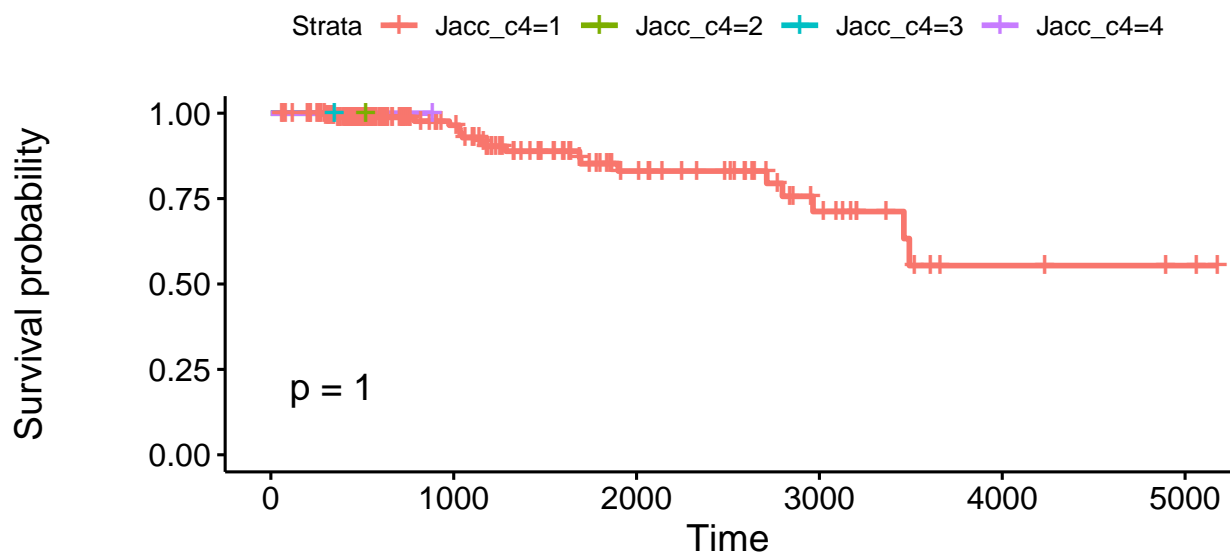


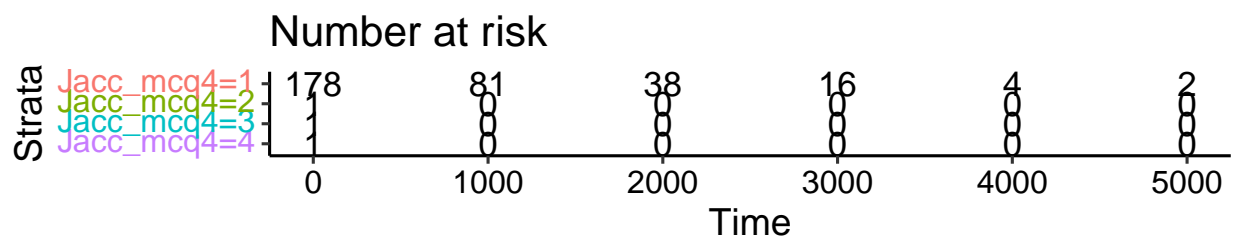
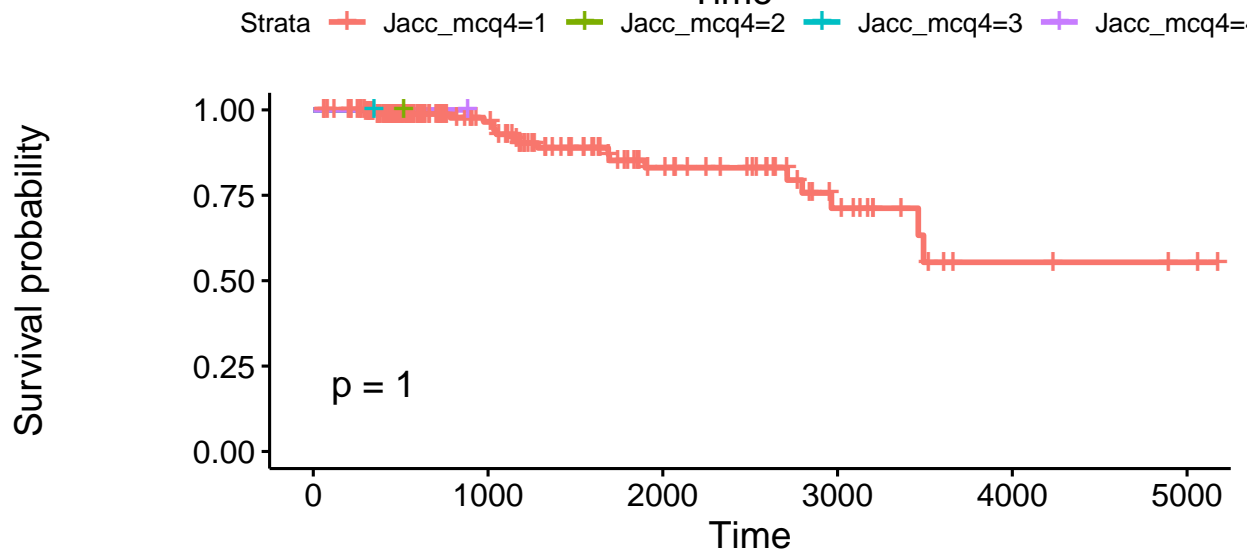
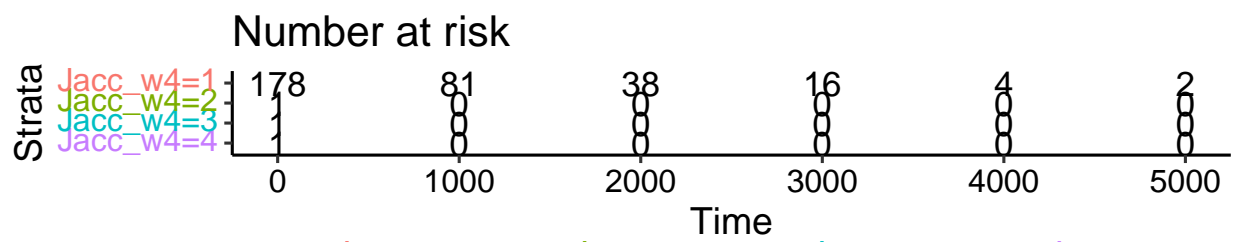
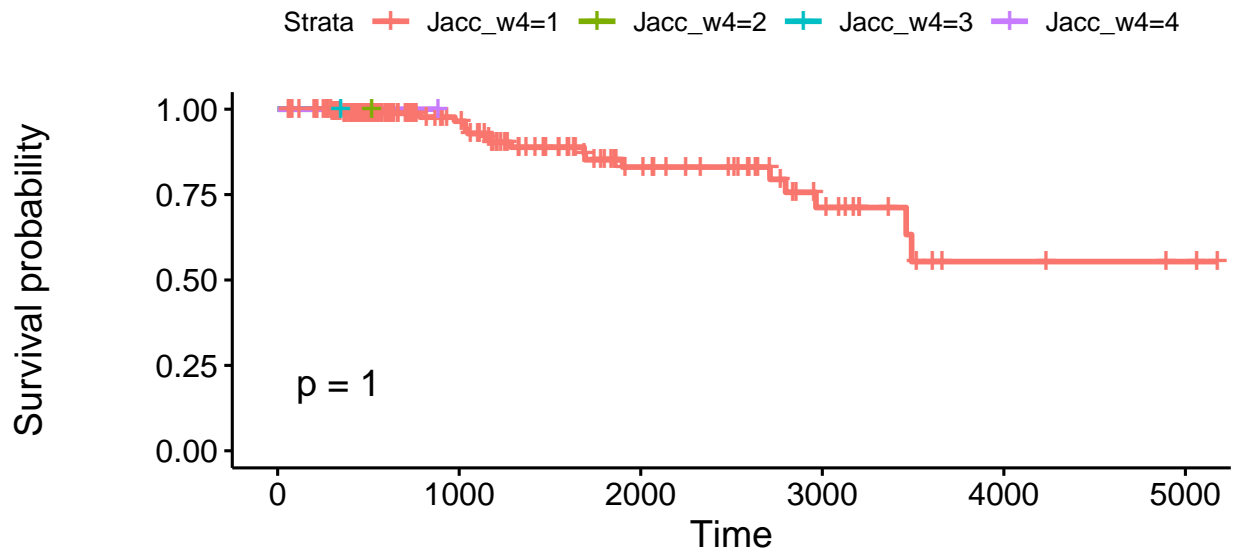


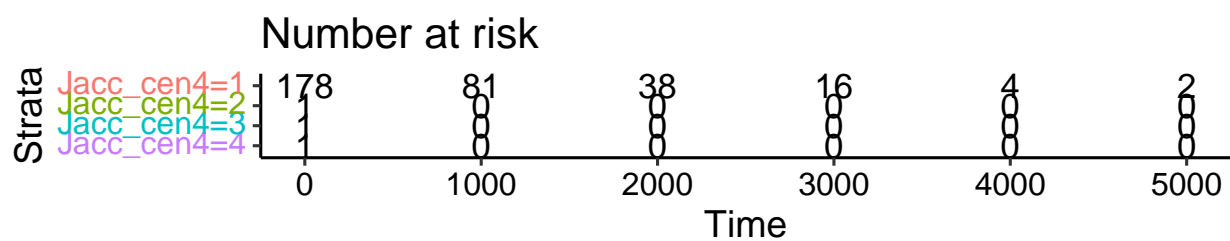
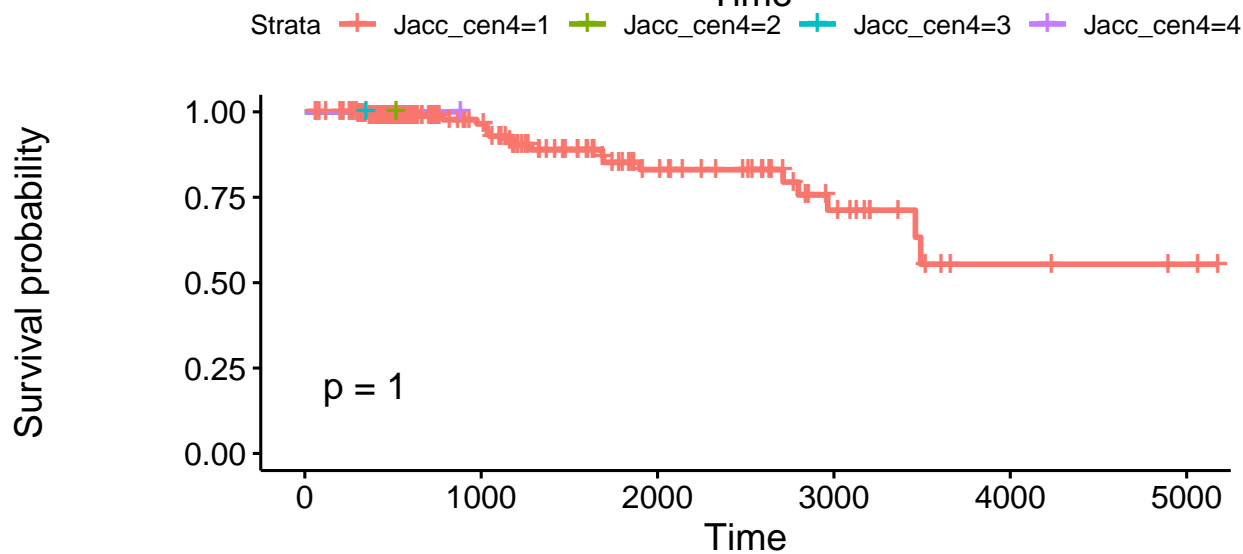
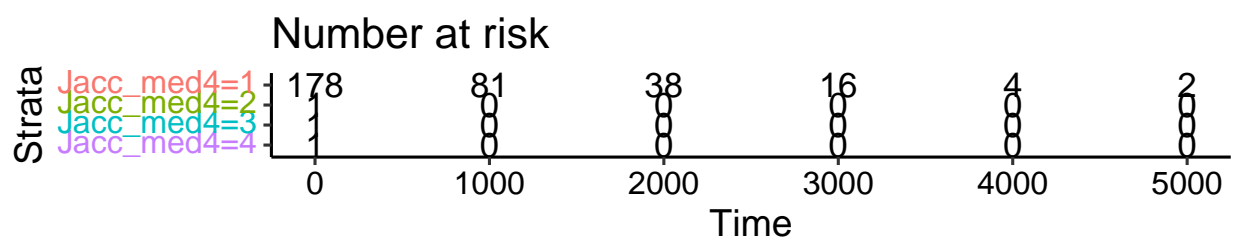
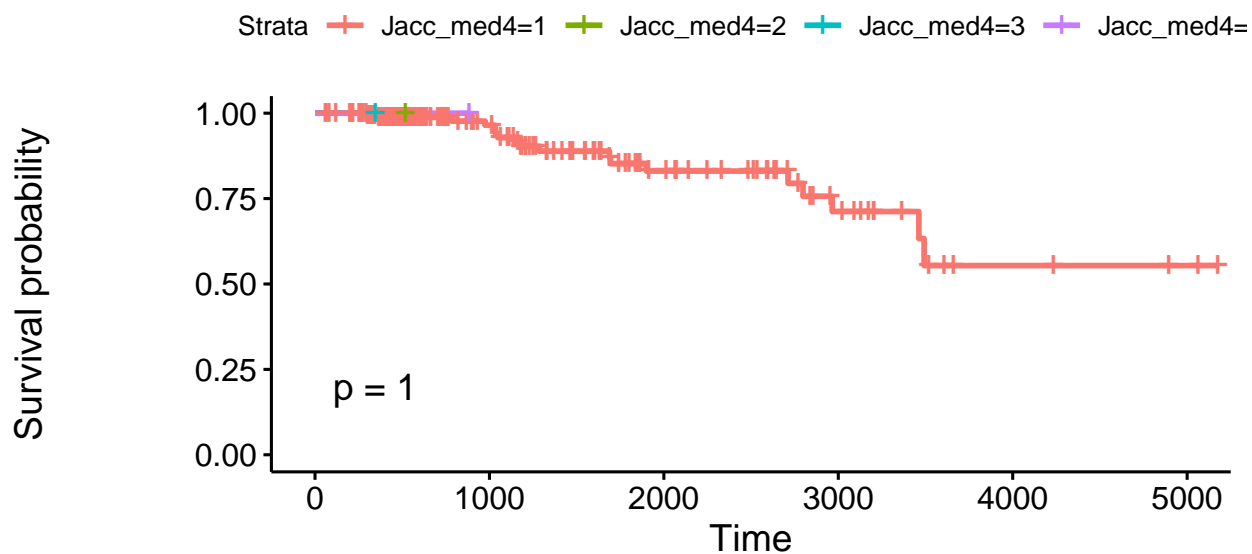


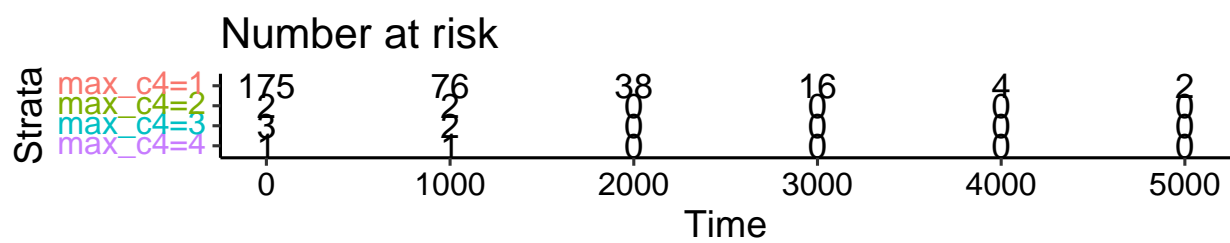
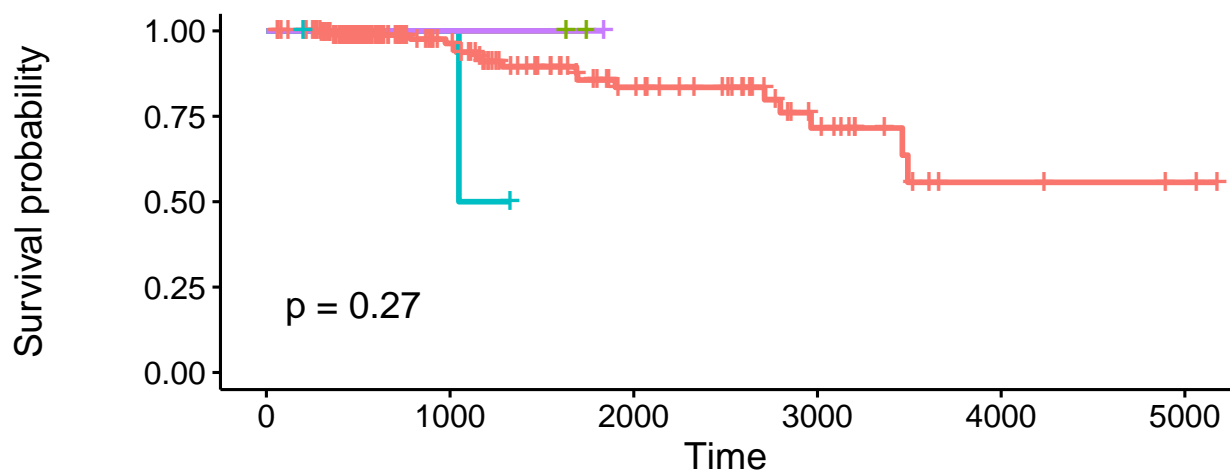
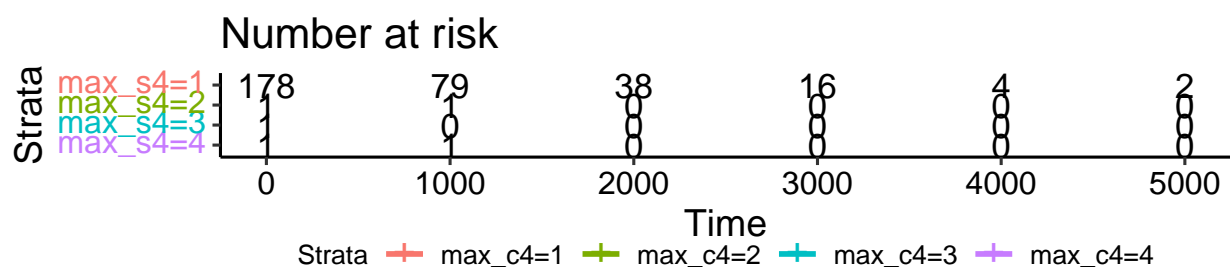
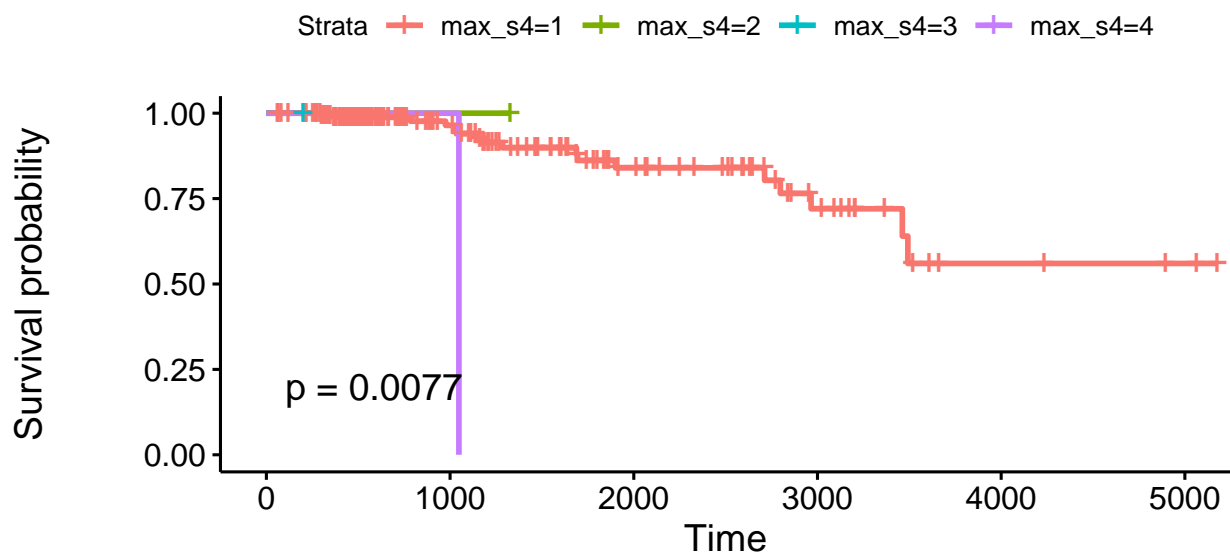


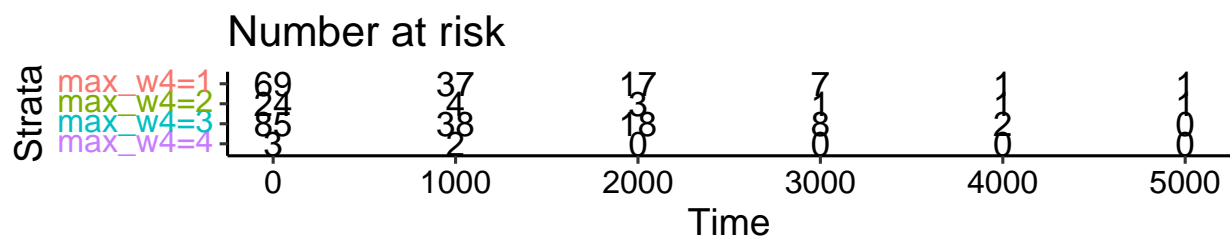
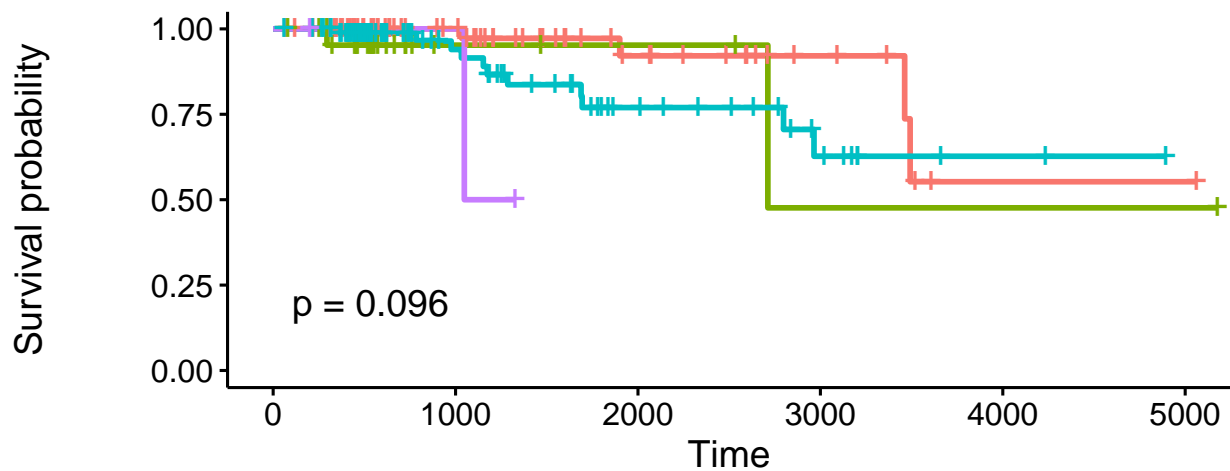
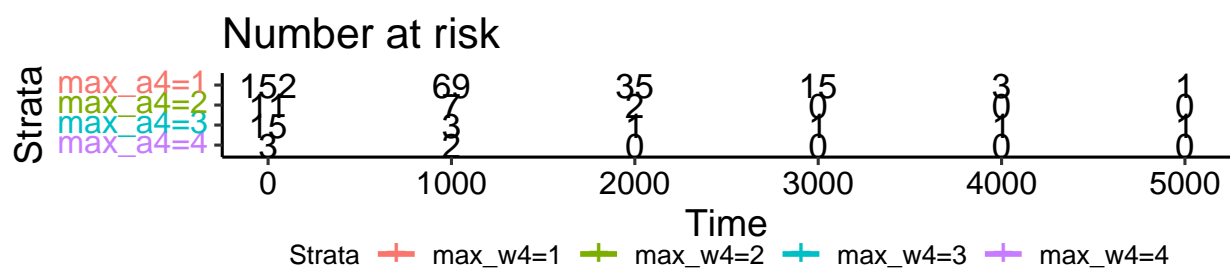
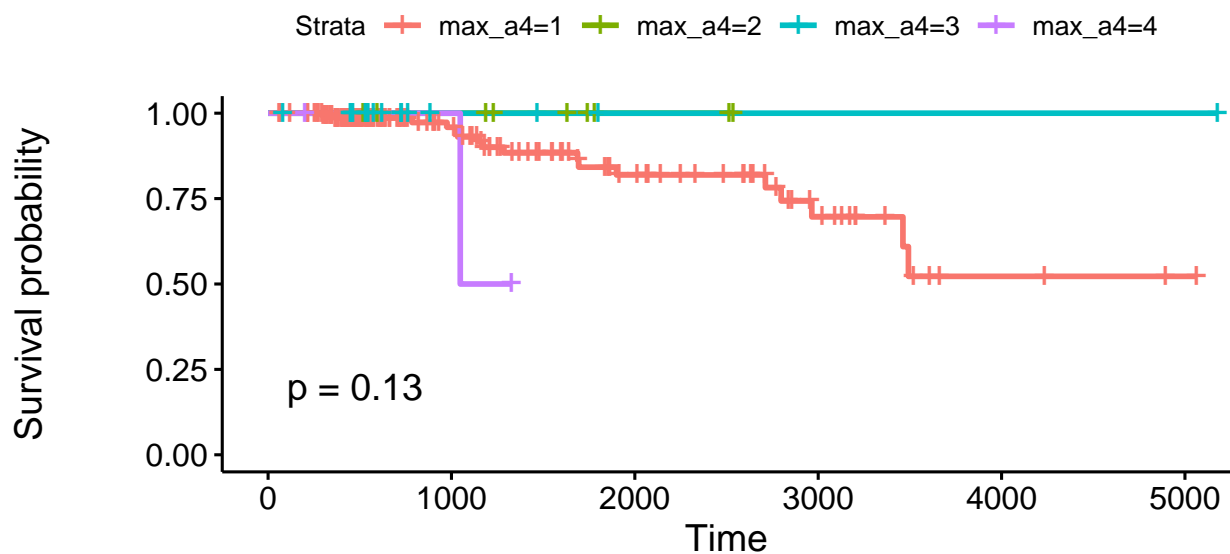


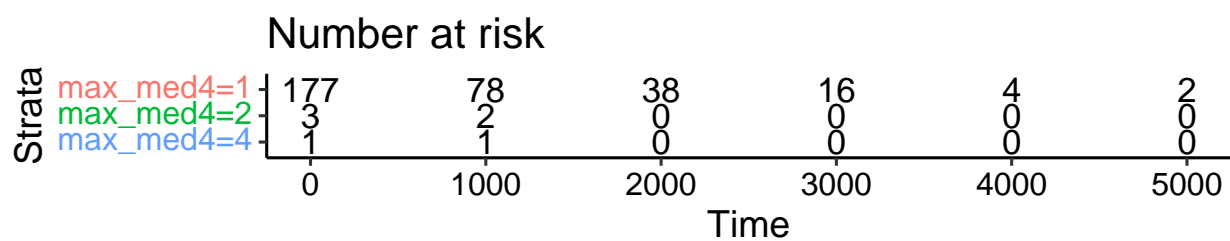
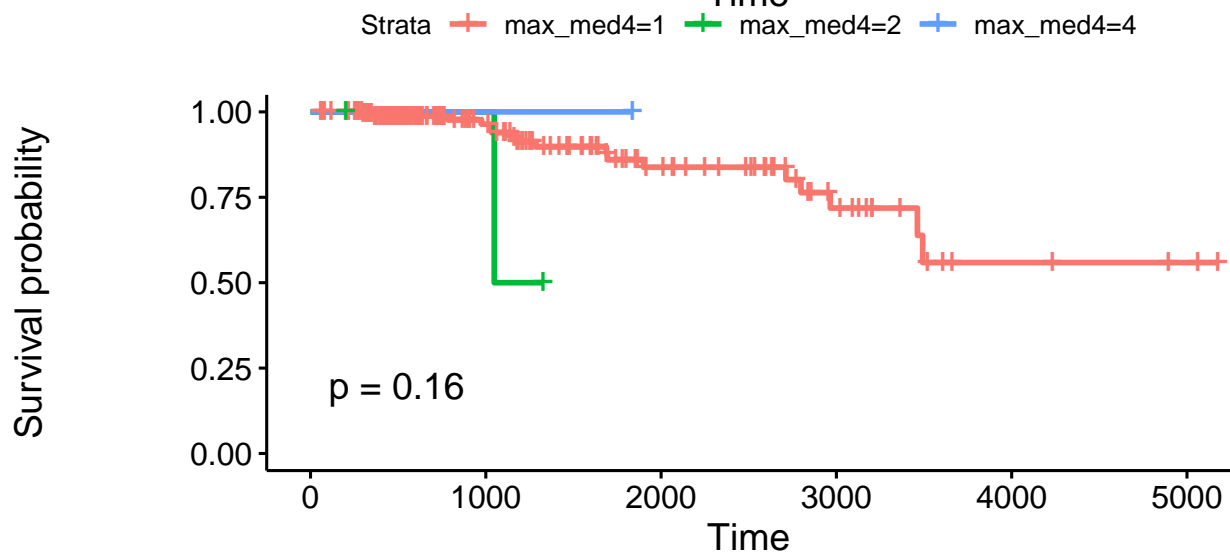
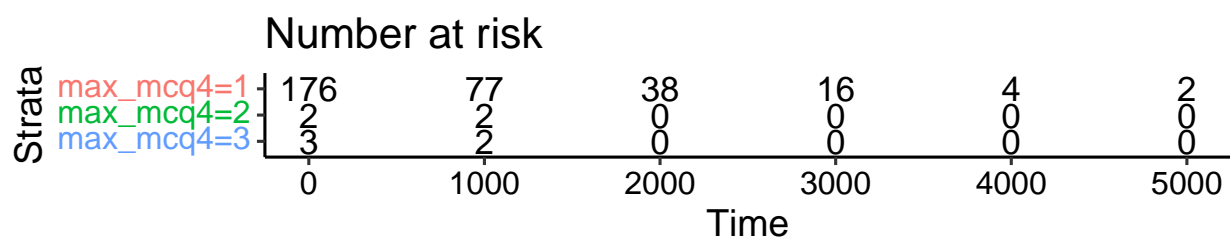
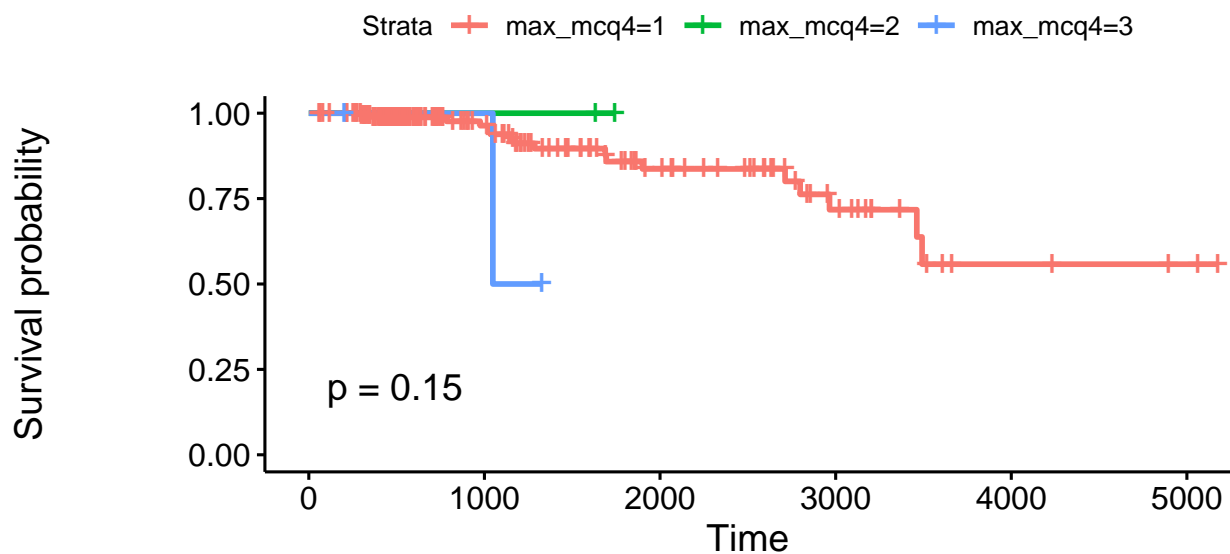


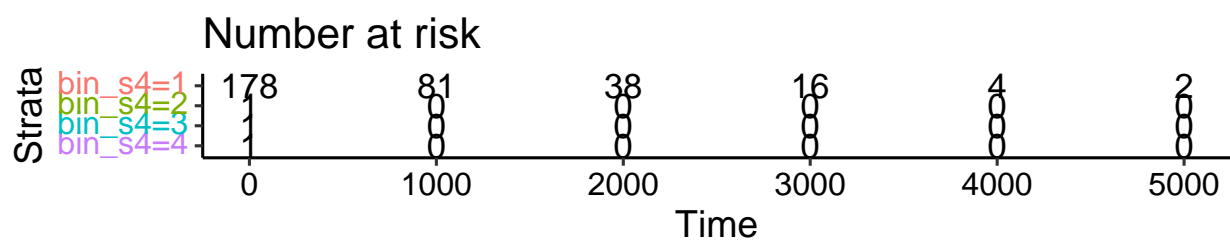
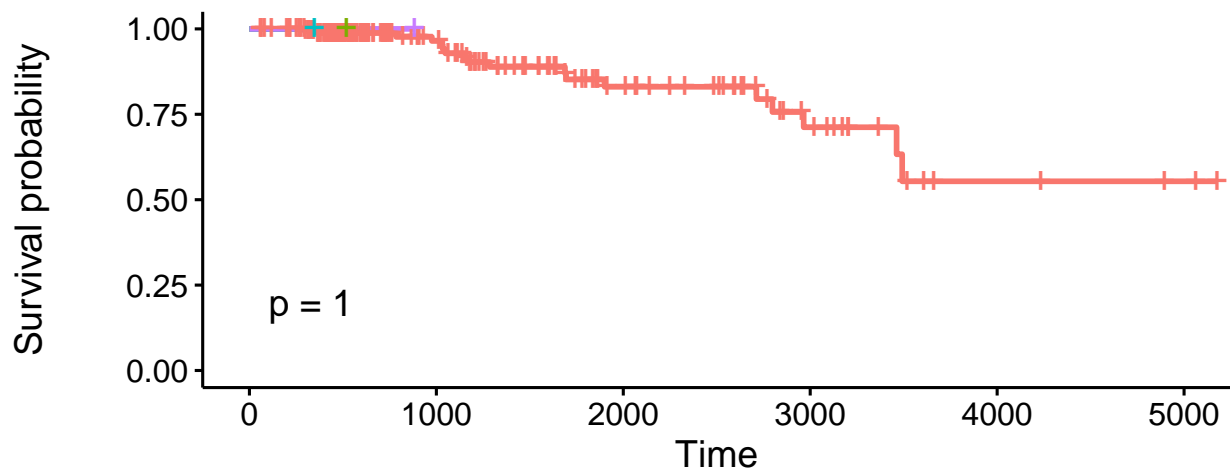
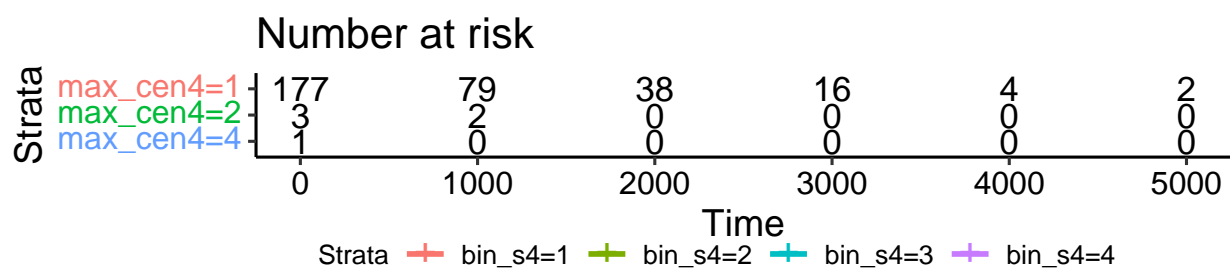
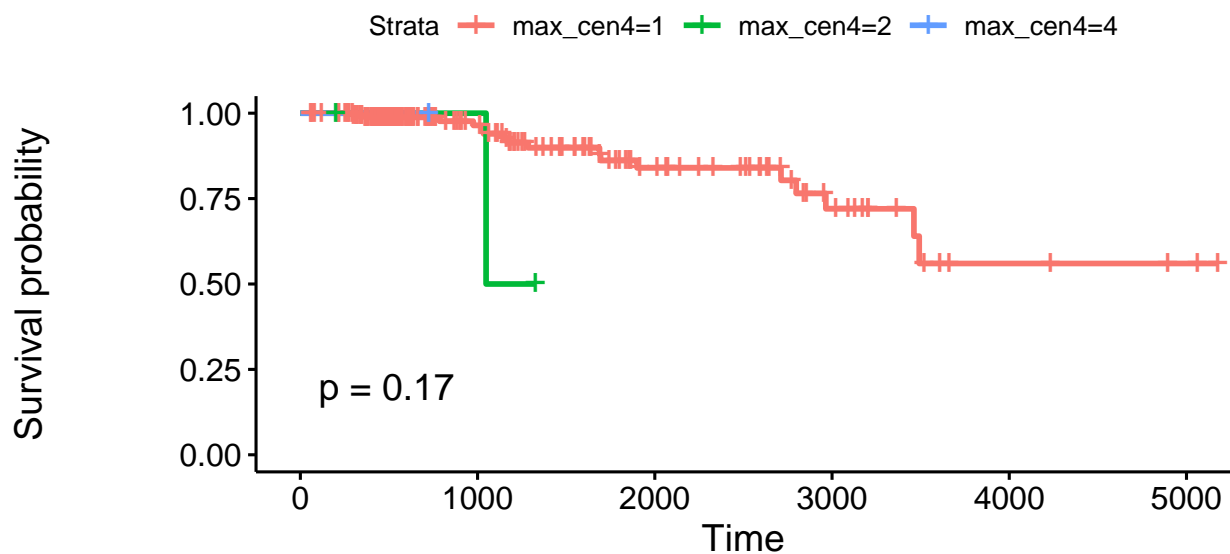


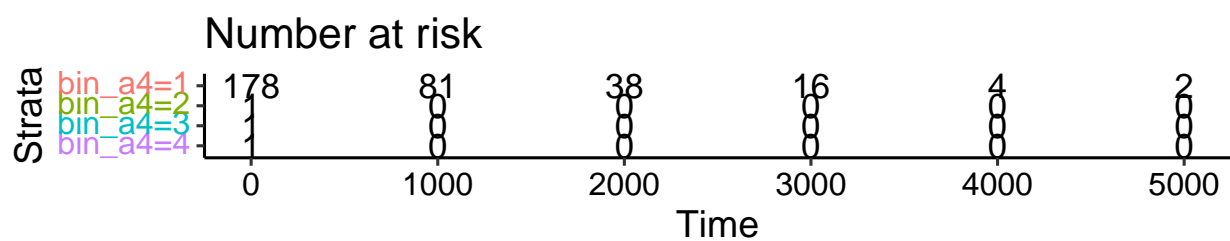
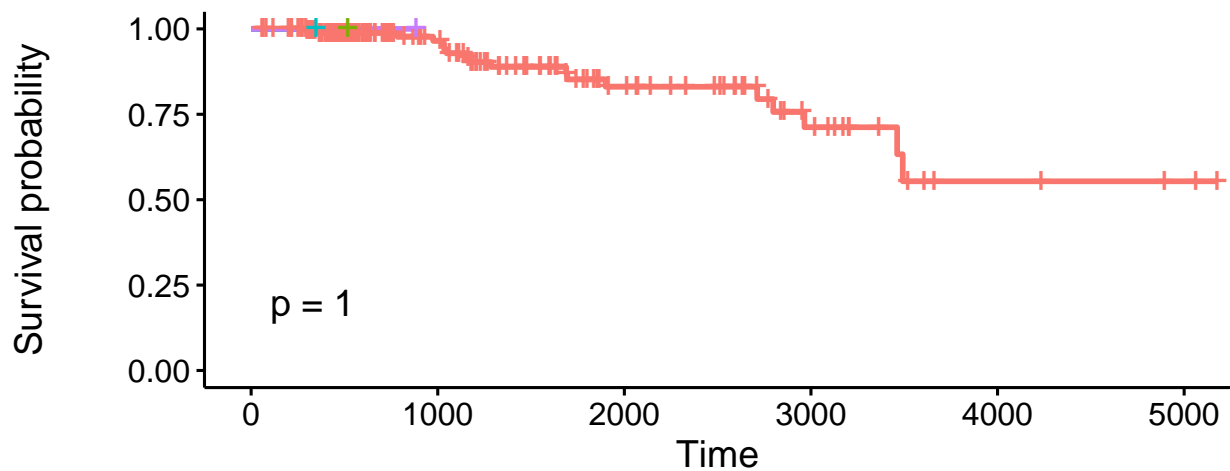
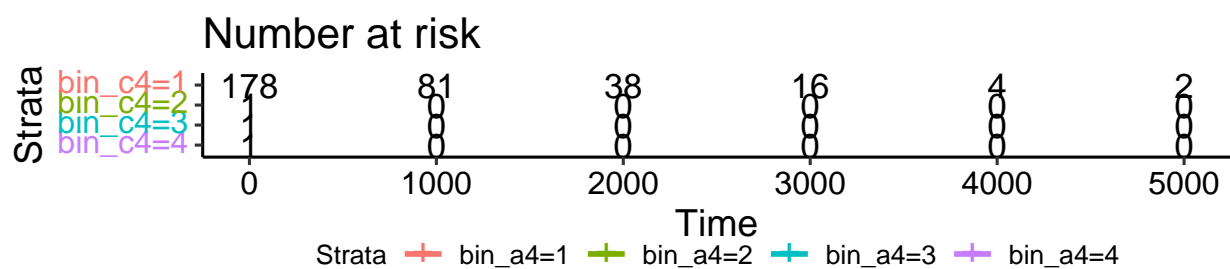
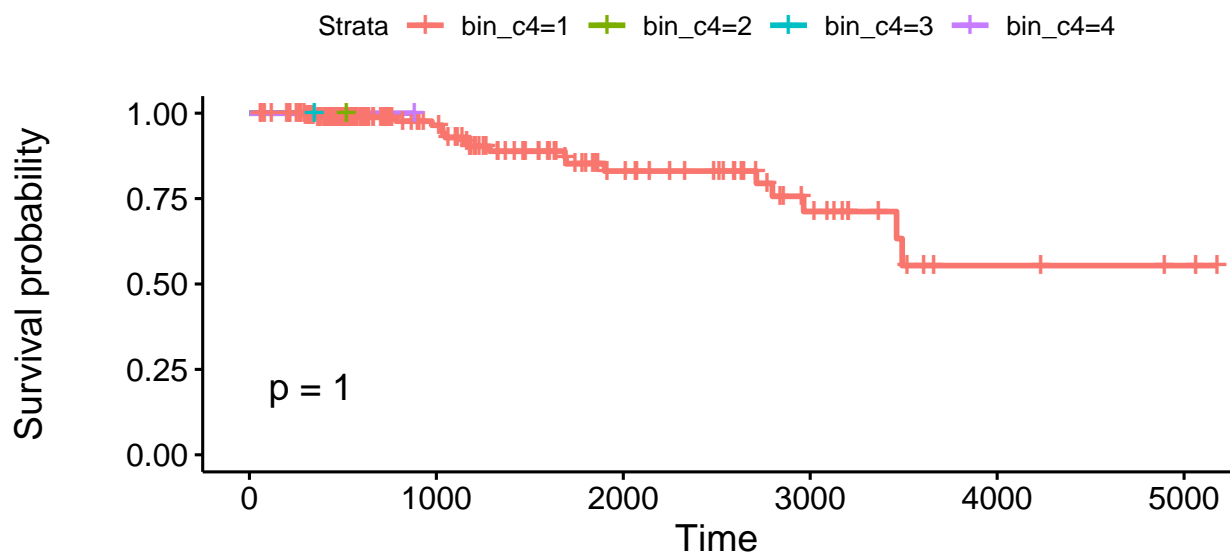


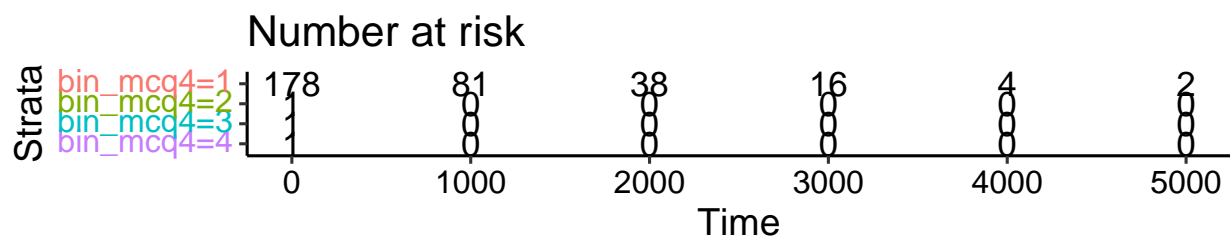
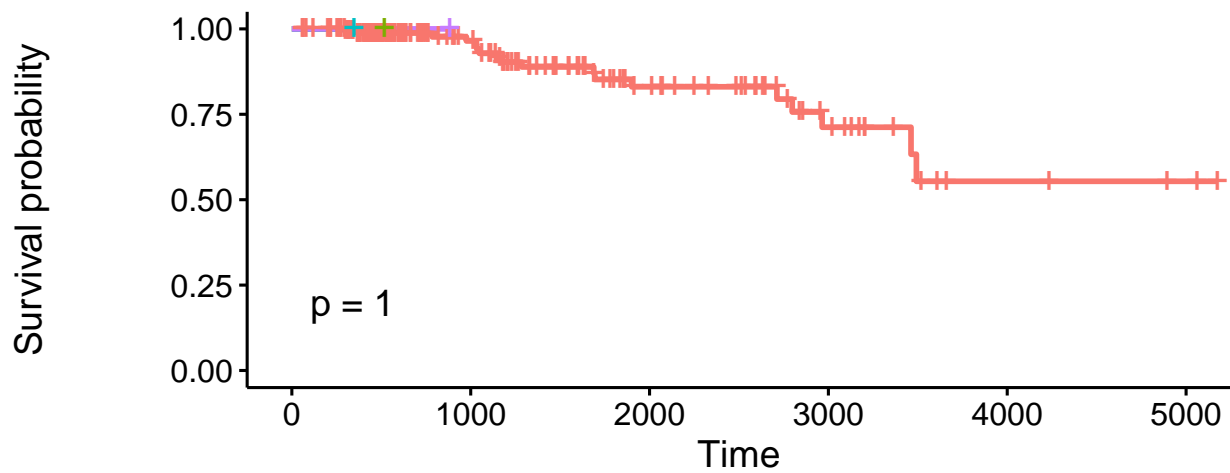
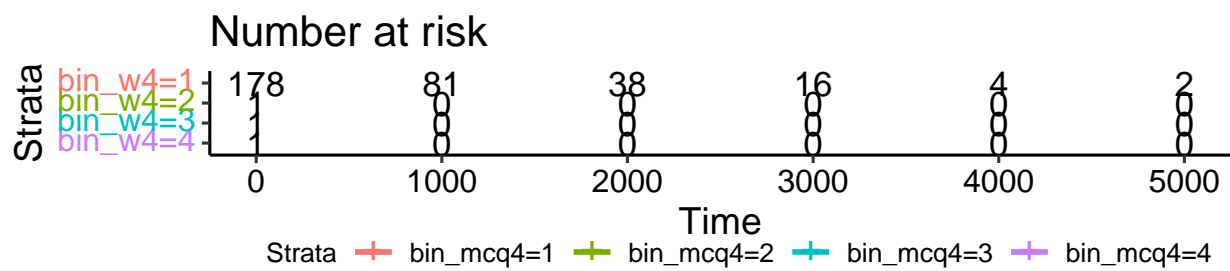
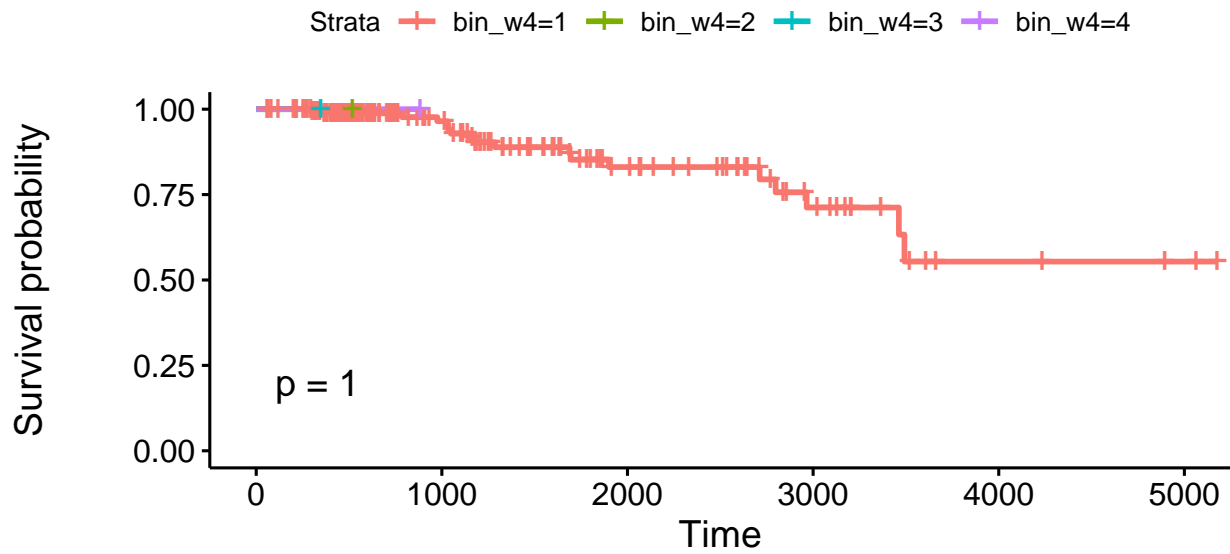


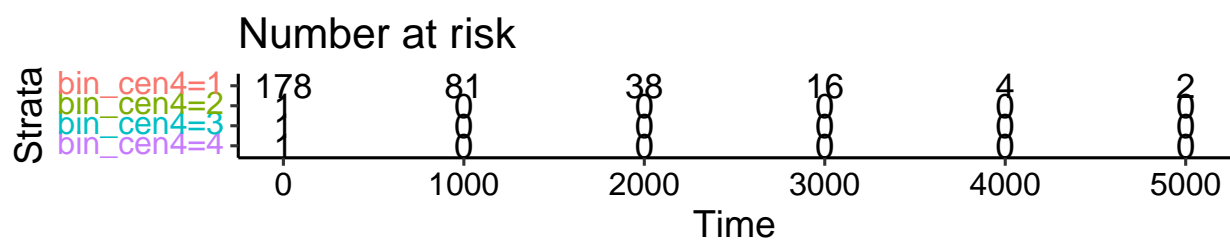
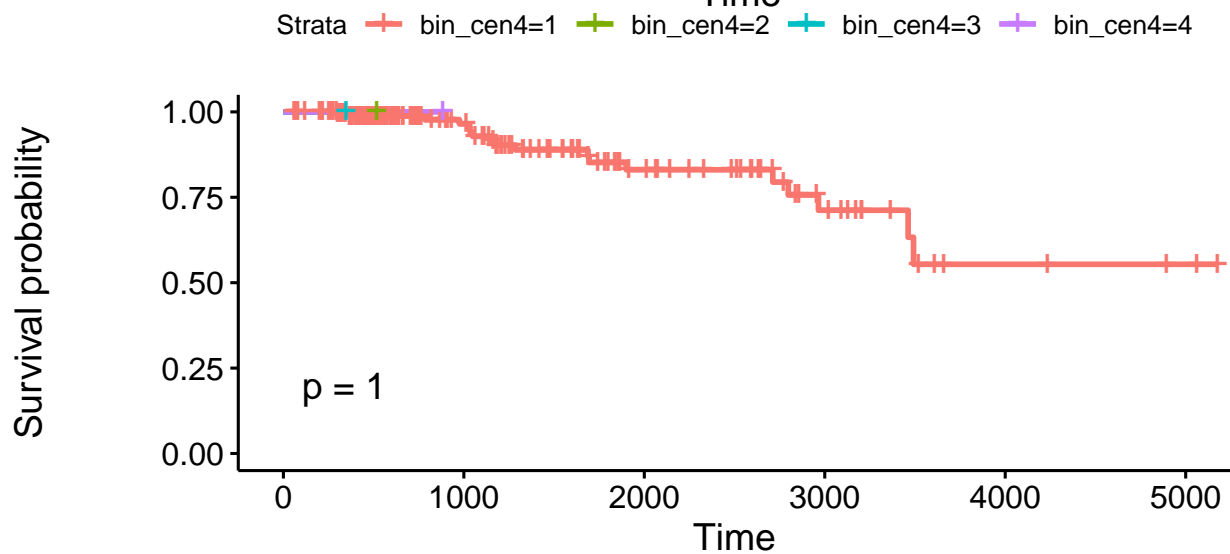
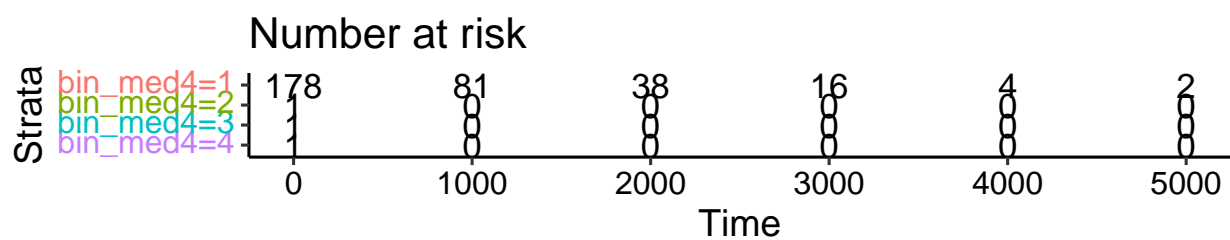
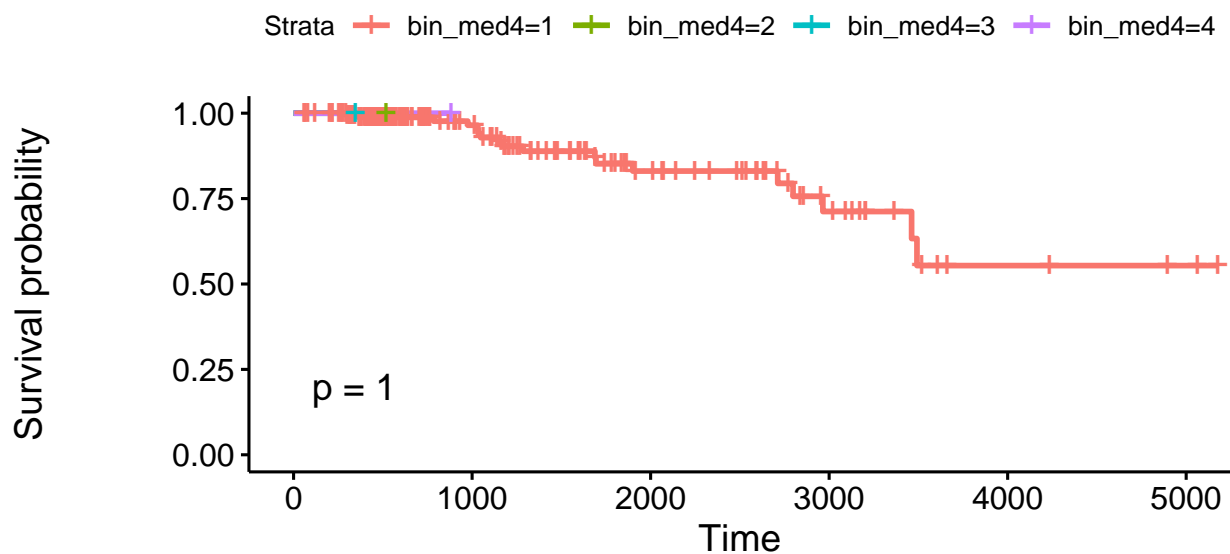


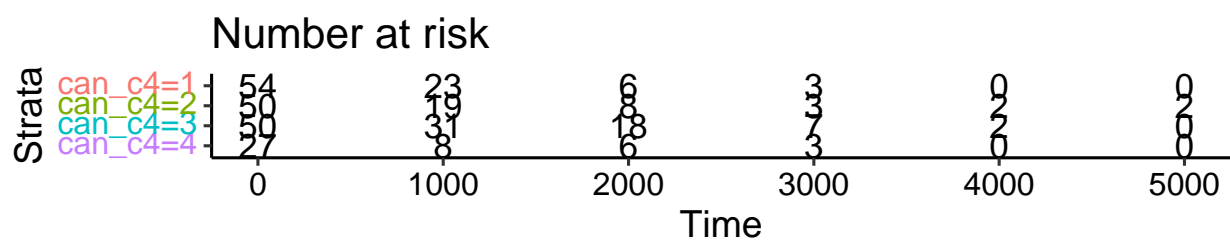
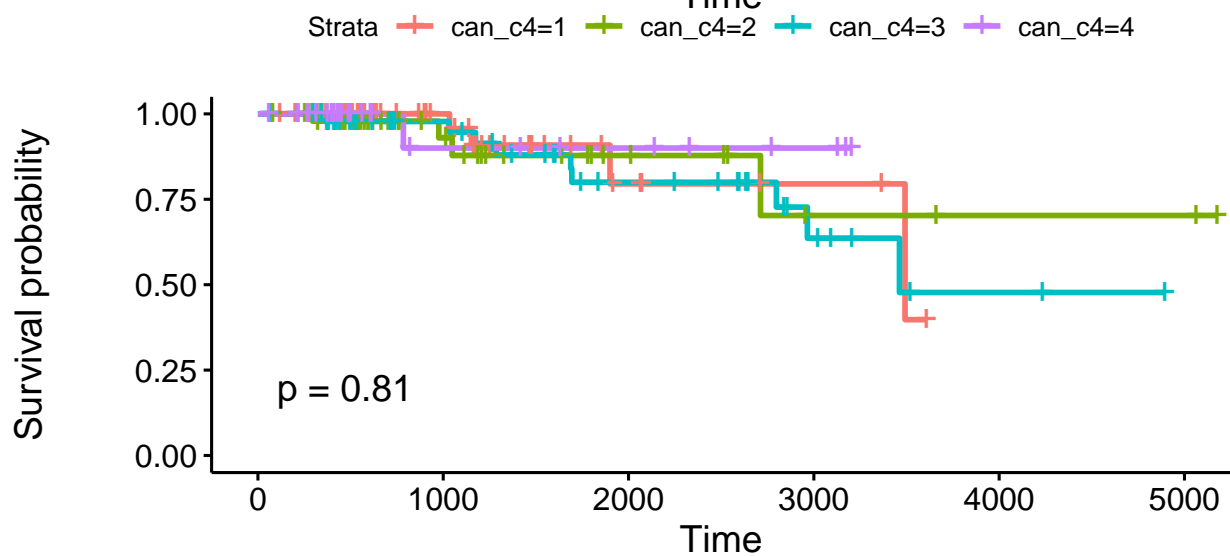
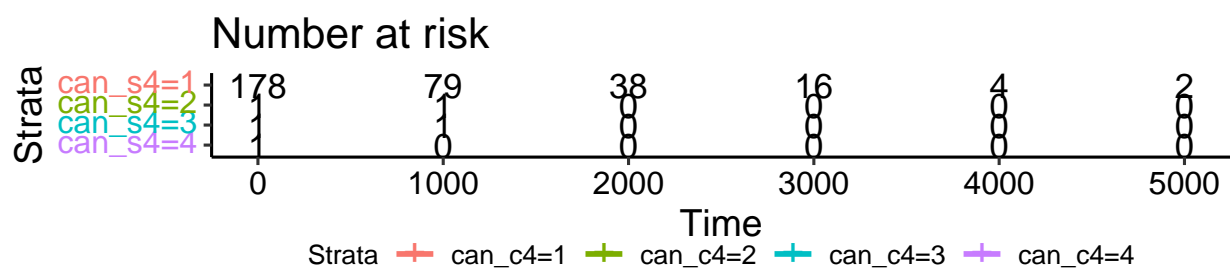
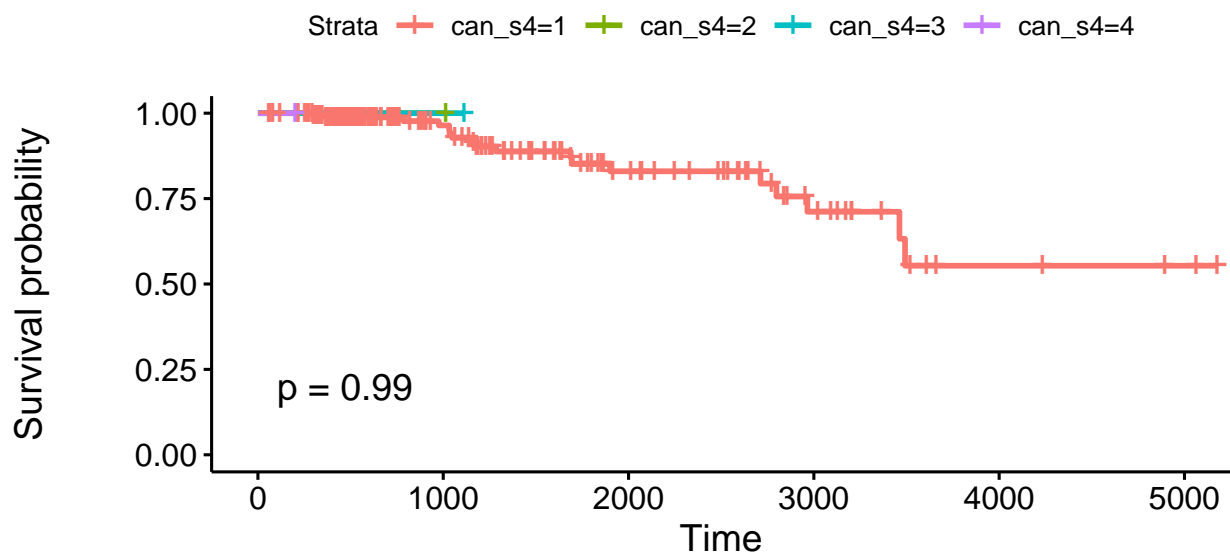


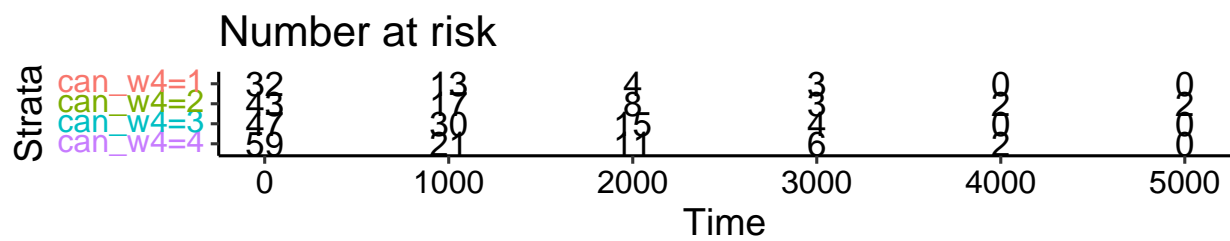
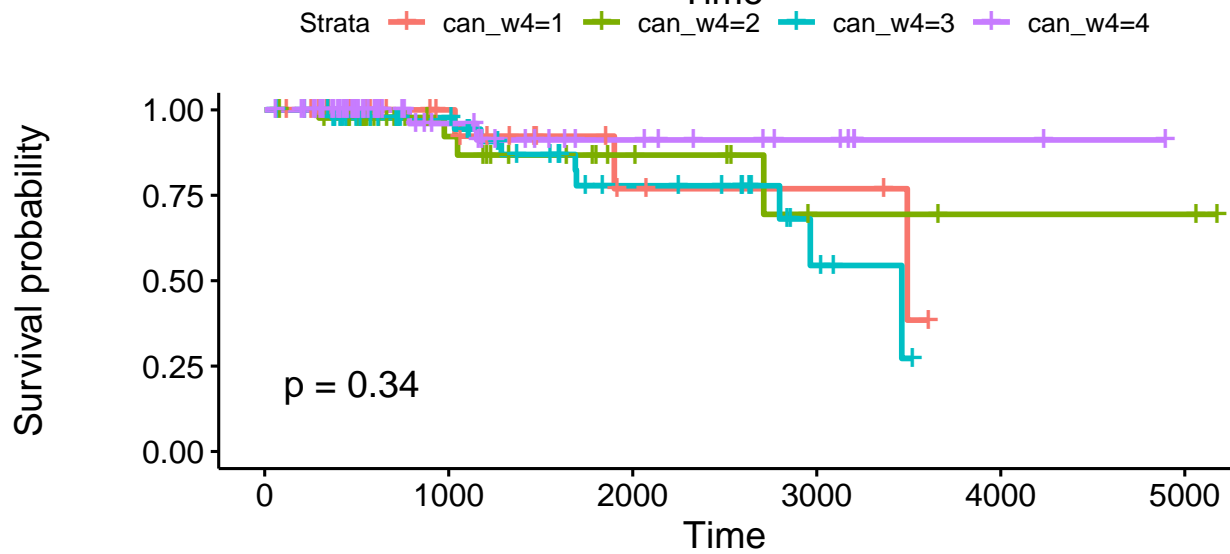
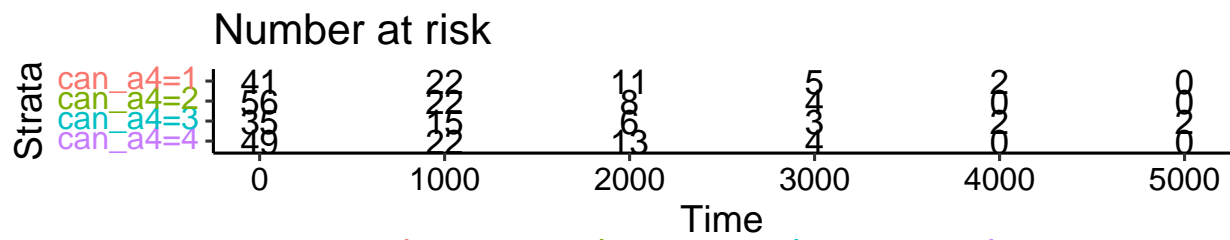
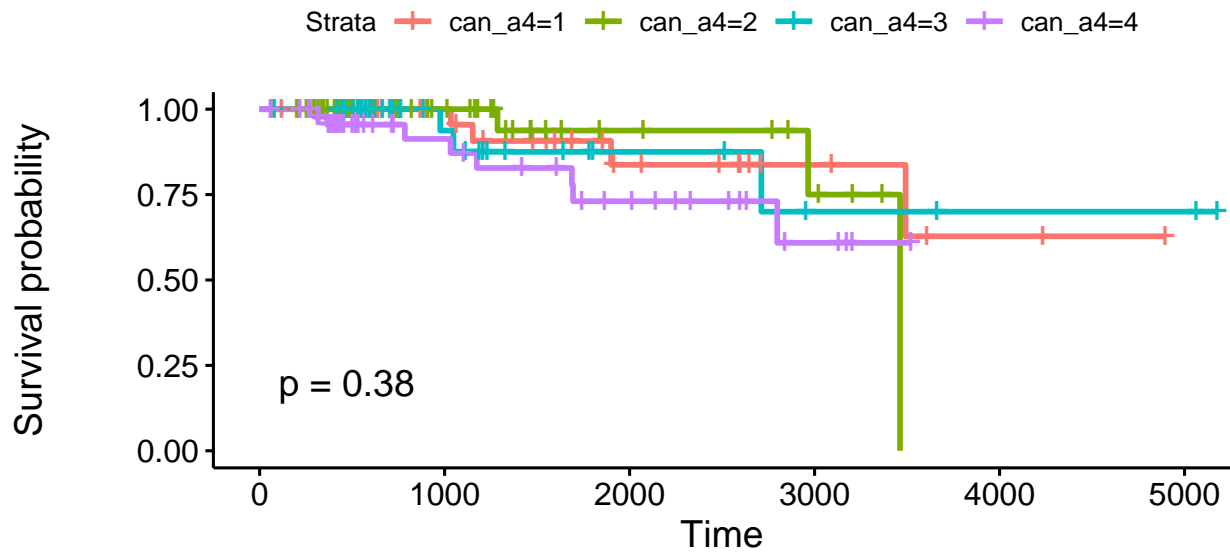


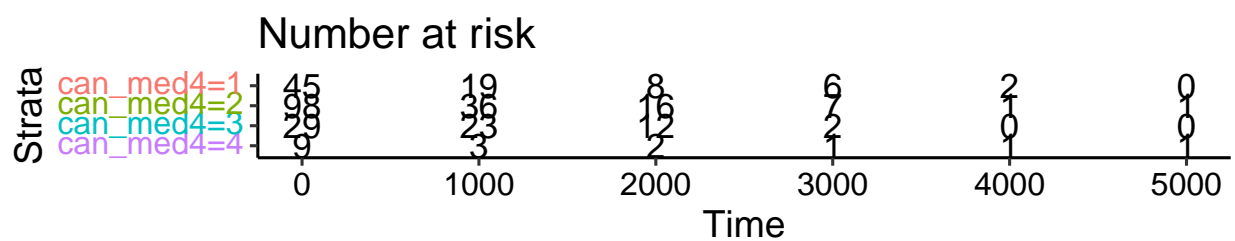
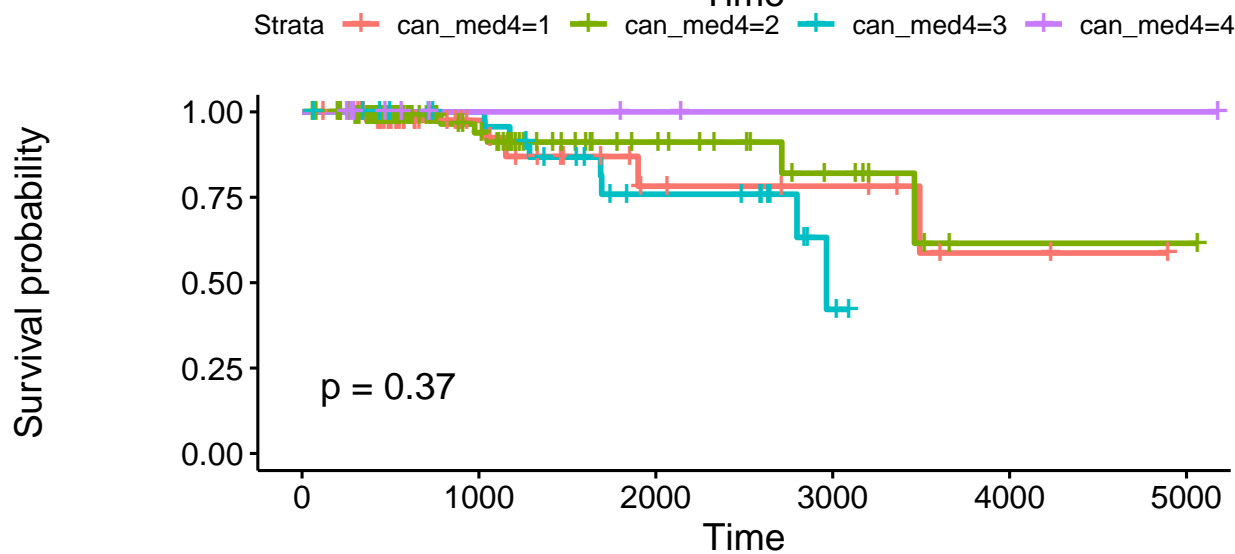
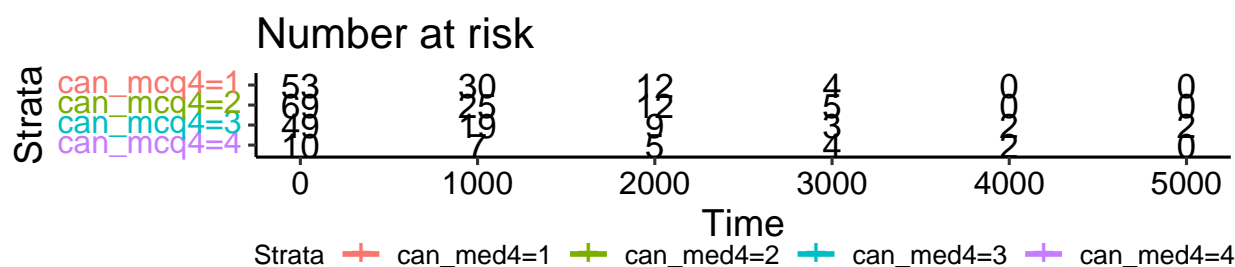
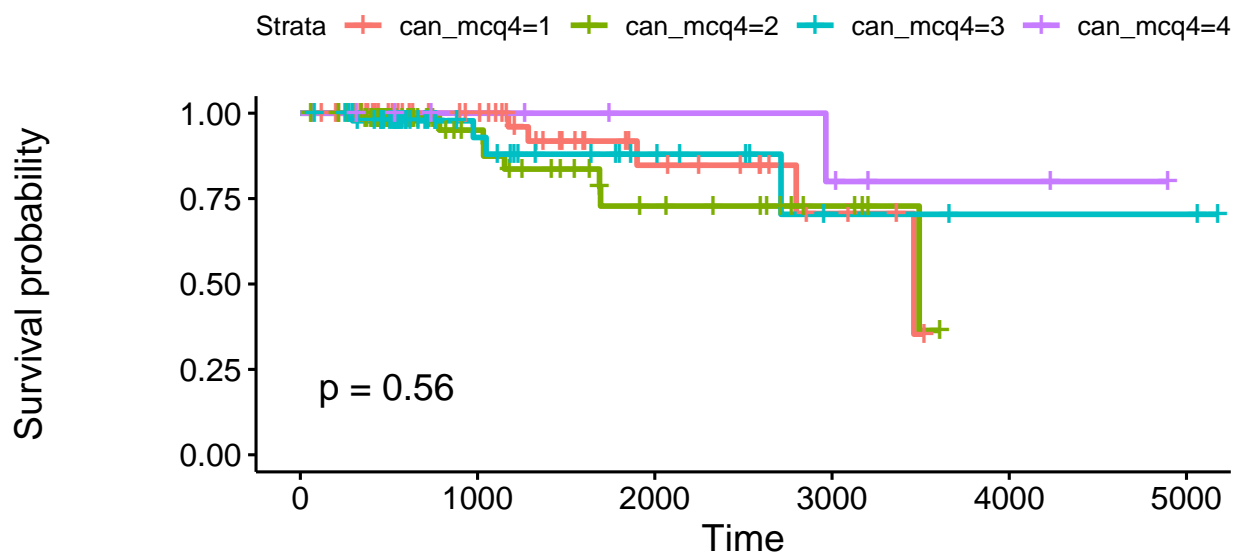


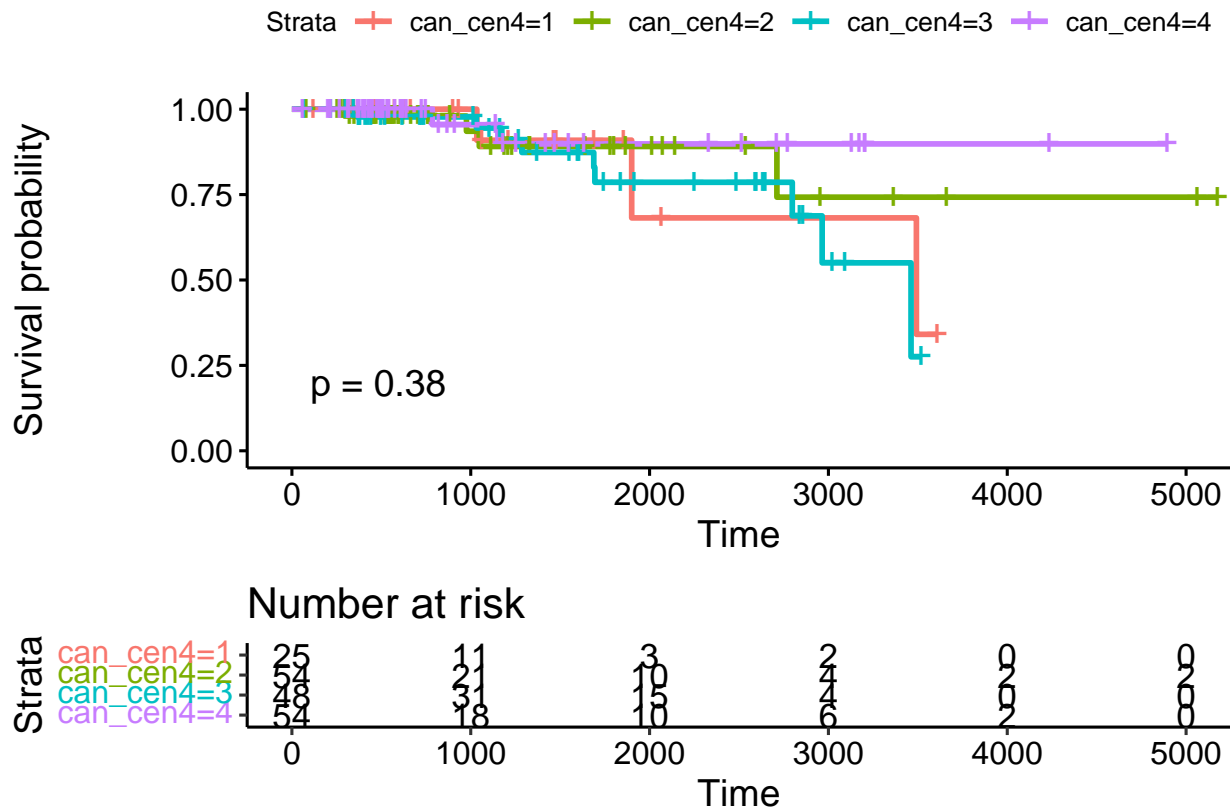






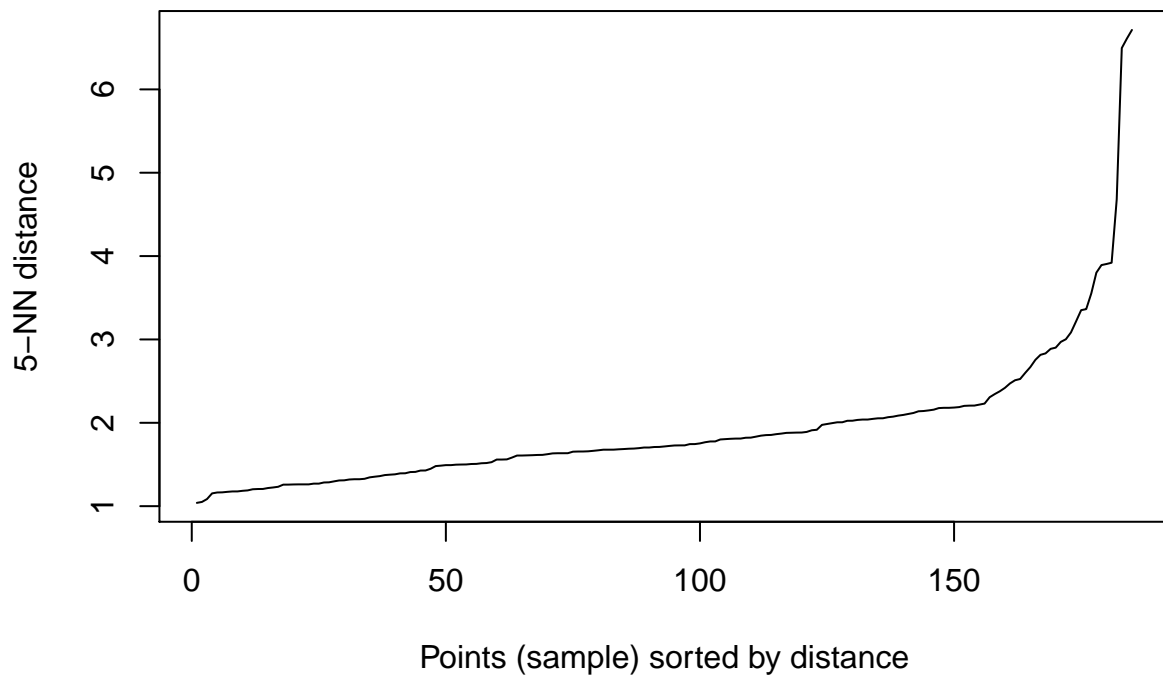






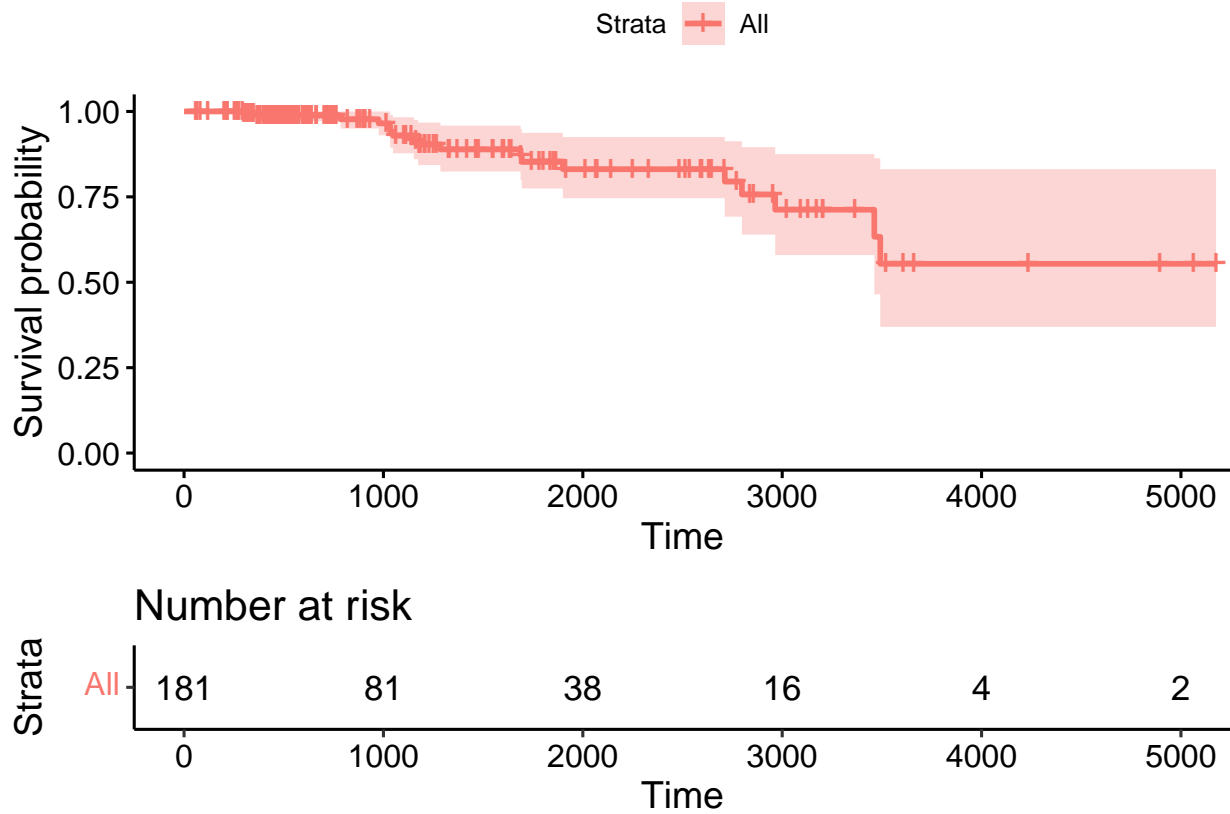
3. DBSCAN

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

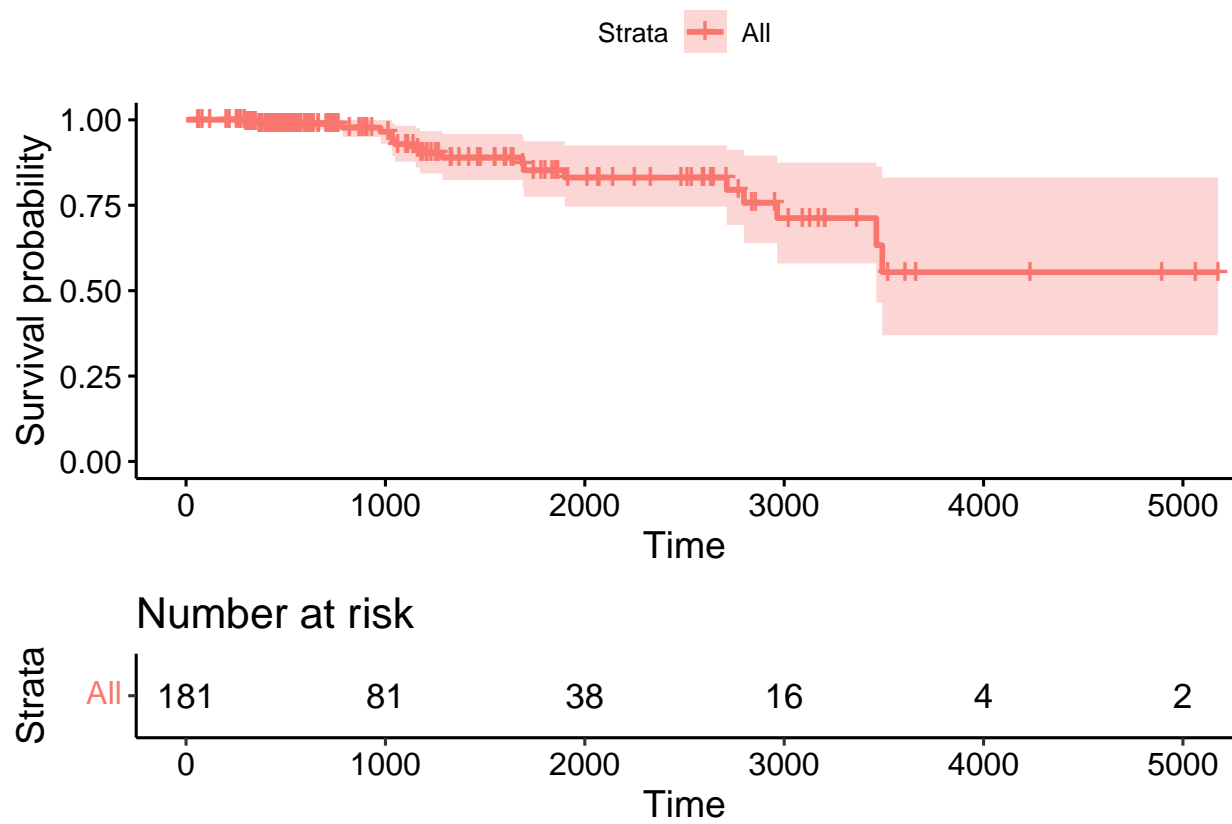


Warning in dbscan(tucker1, eps = 16, MinPts = 20): converting argument MinPts
(fpc) to minPts (dbscan)!

```
## 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

