Part II: Generalized Linear Models

Load Packages

Again, we must load the packages that will be used in the first part of this workshop.

```
library(pastecs, quietly = TRUE)
library(lm.beta, quietly = TRUE)
library(lmtest, quietly = TRUE)
library(foreign, quietly = TRUE)
library(lattice, quietly = TRUE)
library(lme4, quietly = TRUE)
library(nlme, quietly = TRUE)
library(survival, quietly = TRUE)
library(dplyr, quietly = TRUE)
library(ggfortify, quietly = TRUE)
library(survminer, quietly = TRUE)
library(rms, quietly = TRUE)
library(MASS, quietly = TRUE)
attach(colon)
head(colon)
##
                   rx sex age obstruct perfor adhere nodes status differ
     id study
## 1
            1 Lev+5FU
                        1
                           43
                                                          5
                                                                 1
                                                                         2
## 2
                                                    0
                                                          5
                                                                         2
     1
            1 Lev+5FU
                           43
                                      0
                                             0
                                                                 1
                        1
## 3
     2
            1 Lev+5FU
                           63
                                                          1
                                                                 0
                                                                         2
                        1
                                                                 0
                                                                         2
## 4 2
            1 Lev+5FU
                           63
                                      0
                                             0
                                                    0
                                                          1
                        1
## 5 3
                  Obs
                        0 71
                                                          7
                                                                         2
                                             0
                                                          7
## 6 3
                  0bs
                        0 71
                                                                 1
            1
##
     extent surg node4 time etype
## 1
          3
               0
                     1 1521
## 2
          3
               0
                        968
                                1
## 3
          3
               0
                     0 3087
                                2
## 4
          3
               0
                     0 3087
                                1
               0
                                2
## 5
          2
                        963
## 6
          2
               0
                        542
                                1
sapply(colon,class)
##
          id
                 study
                                        sex
                                                  age
                                                       obstruct
                                                                   perfor
                              rx
## "numeric" "numeric"
                        "factor" "numeric" "numeric" "numeric" "numeric"
                 nodes
                                    differ
      adhere
                          status
                                               extent
                                                           surg
                       "numeric" "numeric" "numeric" "numeric"
## "numeric" "numeric"
##
        time
                 etype
## "numeric" "numeric"
```

Dichotomize age and nodes. Change data labels to factors

```
colon_subset_recurrence = colon[colon$etype==1,]
colon_subset_recurrence$age.ds = sapply(colon_subset_recurrence$age, function(x) ifelse(x > 60, 1, 0))
colon_subset_recurrence$age.ds <- factor(colon_subset_recurrence$age.ds, levels= c("0","1"), labels=c("</pre>
```

```
colon_subset_recurrence$nodes.ds = sapply(colon_subset_recurrence$nodes, function(x) ifelse(x > 3, 1, 0
colon_subset_recurrence$nodes.ds <- factor(colon_subset_recurrence$nodes.ds, levels= c("0","1"), labels
colon_subset_recurrence$sex <- factor(colon_subset_recurrence$sex, levels= c("0","1"), labels=c("F","M"</pre>
colon_subset_recurrence$obstruct <- factor(colon_subset_recurrence$obstruct,levels= c("0","1"), labels=
colon_subset_recurrence$adhere <- factor(colon_subset_recurrence$adhere,levels= c("0","1"), labels=c("n
colon_subset_recurrence$perfor <- factor(colon_subset_recurrence$perfor, levels= c("0","1"), labels=c(":</pre>
colon_subset_recurrence$differ <- factor(colon_subset_recurrence$differ, levels= c("1","2","3"), labels</pre>
colon_subset_recurrence$extent <- factor(colon_subset_recurrence$extent, levels= c("1","2","3","4"),</pre>
                                          labels=c("submucosa", "muscle", "serosa", "contiguous"))
colon_subset_recurrence$surg <- factor(colon_subset_recurrence$surg,levels= c("0","1"),</pre>
                                        labels=c("short","long"))
head(colon_subset_recurrence)
##
      id study
                    rx sex age
                                   obstruct
                                               perfor
                                                          adhere nodes status
## 2
             1 Lev+5FU
                         M 43 no obstruct no perfor no adhere
## 4
       2
             1 Lev+5FU
                             63 no obstruct no perfor no adhere
                                                                            0
## 6
                         F 71 no obstruct no perfor
                                                                     7
       3
                   0bs
                                                          adhere
                                                                            1
## 8
             1 Lev+5FU
                                   obstruct no perfor no adhere
                                                                     6
## 10 5
                   Obs
                         M 69 no obstruct no perfor no adhere
                                                                    22
             1
                                                                            1
## 12
             1 Lev+5FU
                         F 57 no obstruct no perfor no adhere
##
      differ extent surg node4 time etype age.ds nodes.ds
## 2
                                 968
         mod serosa short
                               1
                                          1
                                               <60
                               0 3087
                                               >60
                                                          <3
## 4
         mod serosa short
                                          1
                                               >60
                                                          >3
## 6
         mod muscle short
                               1
                                  542
                                          1
                                               >60
## 8
         mod serosa long
                               1
                                 245
                                                          >3
## 10
         mod serosa long
                               1
                                 523
                                               >60
                                                          >3
                               1 904
## 12
         mod serosa short
                                          1
                                               <60
                                                          >3
surv <-with(colon_subset_recurrence, Surv(time,status))</pre>
```

Kalpan-Meier

```
km_fit <- survfit(surv~1, data=colon_subset_recurrence)</pre>
summary(km_fit)
## Call: survfit(formula = surv ~ 1, data = colon_subset_recurrence)
##
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             929
                             0.999 0.00108
                                                   0.997
                       1
##
             928
                             0.998 0.00152
                                                   0.995
                                                                 1.000
       9
                       1
             927
                             0.997 0.00186
                                                   0.993
##
      19
                       1
                                                                 1.000
##
      20
             926
                       1
                             0.996 0.00215
                                                   0.991
                                                                 1.000
##
      28
            923
                       1
                             0.995 0.00240
                                                   0.990
                                                                 0.999
      35
            922
                            0.994 0.00263
##
                       1
                                                   0.988
                                                                 0.999
##
      36
            921
                       1
                             0.992 0.00284
                                                   0.987
                                                                 0.998
##
      38
            920
                       1
                            0.991 0.00303
                                                   0.985
                                                                 0.997
##
      40
            919
                       1
                             0.990 0.00322
                                                   0.984
                                                                 0.997
##
      43
             918
                       1
                            0.989 0.00339
                                                   0.983
                                                                 0.996
##
      45
             917
                             0.988 0.00355
                                                                 0.995
                       1
                                                   0.981
##
      49
             915
                       1
                             0.987 0.00371
                                                   0.980
                                                                 0.994
```

##	59	913	1	0.986	0.00386	0.978	0.994
##	62	912	2	0.984	0.00414	0.976	0.992
##	63	910	1		0.00428	0.974	0.991
##	68	909	1		0.00441	0.973	0.990
##	72	908	2		0.00466	0.970	0.989
##	77	906	2	0.977	0.00489	0.968	0.987
##	78	904	1	0.976	0.00500	0.966	0.986
##	79	903	1		0.00511	0.965	0.985
##	80	902	3		0.00543	0.961	0.983
##	85	899	2	0.970	0.00563	0.959	0.981
##	86	897	2	0.968	0.00582	0.956	0.979
##	88	895	1	0.967	0.00591	0.955	0.978
##	91	894	2	0.964	0.00609	0.952	0.976
##	94	892	1	0.963	0.00618	0.951	0.975
##	98	891	3	0.960	0.00644	0.947	0.973
##	99	888	2	0.958	0.00660	0.945	0.971
##	100	886	1	0.957	0.00668	0.944	0.970
##	101	885	2	0.955	0.00684	0.941	0.968
##	102	883	1	0.954	0.00692	0.940	0.967
##	103	882	1	0.952	0.00699	0.939	0.966
##	105	881	1	0.951	0.00707	0.938	0.965
##	106	880	1	0.950	0.00714	0.936	0.964
##	108	879	1	0.949	0.00722	0.935	0.963
##	109	878	1	0.948	0.00729	0.934	0.963
##	111	877	1	0.947	0.00736	0.933	0.962
##	113	876	3	0.944	0.00757	0.929	0.959
##	116	873	3	0.941	0.00777	0.925	0.956
##	118	870	1	0.939	0.00784	0.924	0.955
##	119	869	1	0.938	0.00790	0.923	0.954
##	121	868	2	0.936	0.00803	0.921	0.952
##	122	866	1	0.935	0.00809	0.919	0.951
##	127	865	1	0.934	0.00816	0.918	0.950
##	131	864	1	0.933	0.00822	0.917	0.949
##	132	863	1	0.932	0.00828	0.916	0.948
##	134	862	1	0.931	0.00834	0.915	0.947
##	136	861	1	0.930	0.00840	0.913	0.946
##	139	860	1	0.929	0.00846	0.912	0.945
##	141	859	1	0.928	0.00852	0.911	0.944
##	143	858	1	0.927	0.00858	0.910	0.943
##	145	857	1	0.925	0.00864	0.909	0.943
##	146	856	2	0.923	0.00875	0.906	0.941
##	147	854	1	0.922	0.00881	0.905	0.940
##	154	853	2	0.920	0.00892	0.903	0.938
##	157	851	3	0.917	0.00908	0.899	0.935
##	160	848	1	0.916	0.00913	0.898	0.934
##	161	847	2	0.914	0.00924	0.896	0.932
##	165	845	3	0.910	0.00939	0.892	0.929
##	166	842	1	0.909	0.00944	0.891	0.928
##	167	841	1	0.908	0.00950	0.890	0.927
##	168	840	1	0.907	0.00955	0.889	0.926
##	169	839	1	0.906	0.00959	0.887	0.925
##	173	838	3	0.903	0.00974	0.884	0.922
##	174	835	3	0.899	0.00988	0.880	0.919
##	175	832	1	0.898	0.00993	0.879	0.918

##	176	831	2	0.896 0.01002	0.877	0.916
##	179	829	1	0.895 0.01007	0.876	0.915
##	181	828	1	0.894 0.01012	0.874	0.914
##	183	827	2	0.892 0.01021	0.872	0.912
##	185	825	5	0.887 0.01043	0.866	0.907
##	186	820	1	0.885 0.01047	0.865	0.906
##	188	819	1	0.884 0.01051	0.864	0.905
##	189	818	2	0.882 0.01060	0.862	0.903
##	191	816	2	0.880 0.01068	0.859	0.901
##	196	814	1	0.879 0.01072	0.858	0.900
##	198	813	1	0.878 0.01076	0.857	0.899
##	199	812	1	0.877 0.01081	0.856	0.898
##	201	811	1	0.876 0.01085	0.855	0.897
##	203	810	1	0.875 0.01089	0.854	0.896
##	204	809	1	0.874 0.01093	0.852	0.895
##	205	808	1	0.872 0.01097	0.851	0.894
##	208	807	2	0.870 0.01105	0.849	0.892
##	215	805	2	0.868 0.01112	0.847	0.890
##	216	803	1	0.867 0.01116	0.845	0.889
##	218	802	3	0.864 0.01128	0.842	0.886
##	219	799	1	0.863 0.01131	0.841	0.885
##	221	797	1	0.862 0.01135	0.840	0.884
##	223	796	1	0.861 0.01139	0.839	0.883
##	224	795	1	0.859 0.01143	0.837	0.882
##	227	794	1	0.858 0.01146	0.836	0.881
##	228	793	1	0.857 0.01150	0.835	0.880
##	229 230	792 700	2 5	0.855 0.01157	0.833	0.878
## ##	235	790 785	1	0.850 0.01175 0.849 0.01178	0.827 0.826	0.873 0.872
##	237	784	2	0.846 0.01178	0.824	0.872
##	238	782	2	0.844 0.01192	0.821	0.868
##	242	780	1	0.843 0.01195	0.821	0.867
##	243	779	1	0.842 0.01199	0.819	0.866
##	245	778	2	0.840 0.01205	0.817	0.864
##	246	776	1	0.839 0.01209	0.816	0.863
##	248	775	1	0.838 0.01212	0.814	0.862
##	250	774	1	0.837 0.01215	0.813	0.861
##	252	773	1	0.836 0.01218	0.812	0.860
##	253	772	1	0.835 0.01222	0.811	0.859
##	255	771	1	0.834 0.01225	0.810	0.858
##	256	770	2	0.831 0.01231	0.808	0.856
##	257	768	1	0.830 0.01234	0.806	0.855
##	258	767	1	0.829 0.01238	0.805	0.854
##	260	766	2	0.827 0.01244	0.803	0.852
##	261	764	1	0.826 0.01247	0.802	0.851
##	262	763	1	0.825 0.01250	0.801	0.850
##	263	762	2	0.823 0.01256	0.798	0.848
##	264	760	1	0.822 0.01259	0.797	0.847
##	271	759	2	0.819 0.01265	0.795	0.845
##	273	757	1	0.818 0.01268	0.794	0.844
##	274	756 756	1	0.817 0.01271	0.793	0.843
##	276	755 750	2	0.815 0.01277	0.790	0.841
##	279	753 750	3	0.812 0.01285	0.787	0.837
##	280	750	1	0.811 0.01288	0.786	0.836

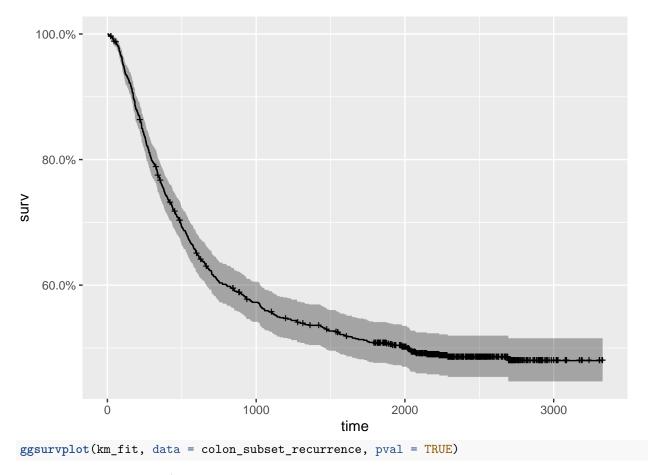
##	285	749	1	0.810 0.01291	0.785	0.835
##	286	748	3	0.806 0.01299	0.781	0.832
##	290	745	2	0.804 0.01305	0.779	0.830
##	291	743	1	0.803 0.01307	0.778	0.829
##	294	742	2	0.801 0.01313	0.776	0.827
##	296	740	2	0.799 0.01318	0.773	0.825
##	300	738	1	0.798 0.01321	0.772	0.824
##	303	737	1	0.797 0.01323	0.771	0.823
##	304	736	1	0.796 0.01326	0.770	0.822
##	308	735	1	0.795 0.01329	0.769	0.821
##	313	734	1	0.793 0.01331	0.768	0.820
##	315	733	2	0.791 0.01336	0.766	0.818
##	322	731	2	0.789 0.01342	0.763	0.816
##	325	729	1	0.788 0.01344	0.762	0.815
##	328	727	1	0.787 0.01347	0.761	0.814
			1			
##	329	726		0.786 0.01349	0.760	0.813
##	330	725	2	0.784 0.01354	0.758	0.811
##	333	723	1	0.783 0.01356	0.756	0.810
##	334	722	1	0.782 0.01359	0.755	0.809
##	335	721	1	0.780 0.01361	0.754	0.808
##	336	720	2	0.778 0.01366	0.752	0.806
##	337	718	3	0.775 0.01373	0.749	0.802
##	341	714	1	0.774 0.01376	0.747	0.801
##	344	713	1	0.773 0.01378	0.746	0.800
##	348	712	2	0.771 0.01383	0.744	0.798
##	349	710	1	0.770 0.01385	0.743	0.797
##	352	709	2	0.767 0.01390	0.741	0.795
##	354	707	1	0.766 0.01392	0.740	0.794
##	356	705	2	0.764 0.01396	0.737	0.792
##	360	703	2	0.762 0.01401	0.735	0.790
##	362	701	1	0.761 0.01403	0.734	0.789
##	365	700	1	0.760 0.01405	0.733	0.788
##	366	699	1	0.759 0.01407	0.732	0.787
##	369	698	1	0.758 0.01410	0.731	0.786
##	370	697	1	0.757 0.01412	0.729	0.785
##	372	696	1	0.755 0.01414	0.728	0.784
##	374	695	1	0.754 0.01416	0.727	0.783
##	378	694	1	0.753 0.01418	0.726	0.782
##	379	693	1	0.752 0.01420	0.725	0.781
##	380	692	2	0.750 0.01424	0.723	0.778
##	382	690	1	0.749 0.01427	0.722	0.777
##	384	689	1	0.748 0.01429	0.720	0.776
##	386	688	2	0.746 0.01433	0.718	0.774
##	389	686	1	0.745 0.01435	0.717	0.773
##	392	685	1	0.744 0.01437	0.716	0.772
##	393	684	1	0.742 0.01439	0.715	0.771
##	398	683	1	0.741 0.01441	0.714	0.770
##	401	682	1	0.740 0.01443	0.713	0.769
##	402	681	1	0.739 0.01445	0.711	0.768
##	405	680	1	0.738 0.01447	0.710	0.767
##	406	679	1	0.737 0.01449	0.709	0.766
##	408	678	1	0.736 0.01451	0.708	0.765
##	411	677	1	0.735 0.01452	0.707	0.764
##	413	676	1	0.734 0.01454	0.706	0.763
π#	410	010	1	0.10± 0.01404	0.700	0.703

##	415	675	2	0.732	0.01458	0.704	0.761
##	422	672	1	0.730	0.01460	0.702	0.760
##	429	671	1	0.729	0.01462	0.701	0.759
##	431	670	1	0.728	0.01464	0.700	0.758
##	433	669	1	0.727	0.01466	0.699	0.757
##	434	668	1	0.726	0.01468	0.698	0.755
##	435	667	1	0.725	0.01469	0.697	0.754
##	437	666	1	0.724	0.01471	0.696	0.753
##	438	665	1	0.723	0.01473	0.695	0.752
##	439	664	1	0.722	0.01475	0.693	0.751
##	440	663	1	0.721	0.01477	0.692	0.750
##	443	662	1	0.720	0.01478	0.691	0.749
##	448	661	1	0.719	0.01480	0.690	0.748
##	449	660	1	0.717	0.01482	0.689	0.747
##	454	658	2	0.715	0.01485	0.687	0.745
##	458	656	2	0.713	0.01489	0.684	0.743
##	461	654	1	0.712	0.01491	0.683	0.742
##	465	653	1	0.711	0.01492	0.682	0.741
##	466	652	2	0.709	0.01496	0.680	0.739
##	474	650	1	0.708	0.01497	0.679	0.738
##	476	649	1	0.707	0.01499	0.678	0.737
##	480	648	1	0.705	0.01501	0.677	0.735
##	482	647	1	0.704	0.01502	0.675	0.734
##	485	646	1	0.703	0.01504	0.674	0.733
##	489	643	1		0.01505	0.673	0.732
##	490	642	1		0.01507	0.672	0.731
##	491	641	2		0.01510	0.670	0.729
##	493	639	1		0.01512	0.669	0.728
##	495	638	1		0.01513	0.668	0.727
##	496	637	1		0.01515	0.667	0.726
##	497	636	1		0.01517	0.665	0.725
##	498	635	1		0.01518	0.664	0.724
##	499	634	1		0.01520	0.663	0.723
##	504	633	1		0.01521	0.662	0.722
##	505	632	1		0.01523	0.661	0.721
##	510	631	1		0.01524	0.660	0.720
##	511	630	1		0.01526	0.659	0.718
##	513	629	1		0.01527	0.658	0.717
##	523	628	1		0.01529	0.656	0.716
##	525	627	1		0.01530	0.655	0.715
##	526	626	1		0.01532	0.654	
##	527	625	1		0.01533	0.653	0.713
##	532	624	2		0.01536	0.651	0.711
##	534	622	1		0.01537	0.650	0.710
##	536	621	1		0.01539	0.649	0.709
##	540	620	1		0.01540	0.647	0.708
##	542	619	1		0.01542	0.646	0.707
##	543	618	2		0.01544	0.644	0.705
##	547	616	1		0.01546	0.643	0.704
##	548	615	1		0.01547	0.642	0.703
##	554	614	2		0.01550	0.640	0.700
##	555	612	1		0.01551	0.639	0.699
##	560	611	1		0.01551	0.637	0.698
##	561	610	1		0.01554	0.636	0.697
##	201	010	T	0.000	0.01554	0.030	0.097

##	565	609	1	0.665 0.01555	0.635	0.696
##	573	608	2	0.663 0.01557	0.633	0.694
##	577	606	1	0.662 0.01559	0.632	0.693
##	578	605	2	0.659 0.01561	0.630	0.691
##	581	603	1	0.658 0.01563	0.628	0.690
##	583	602	1	0.657 0.01564	0.627	0.689
##	591	601	1	0.656 0.01565	0.626	0.688
##	593	600	3	0.653 0.01569	0.623	0.684
##	594	597	1	0.652 0.01570	0.622	0.683
##	599	596	1	0.651 0.01571	0.621	0.682
##	602	594	1	0.650 0.01572	0.620	0.681
##	604	593	1	0.649 0.01573	0.618	0.680
##	608	592	1	0.647 0.01574	0.617	0.679
##	613	591	1	0.646 0.01576	0.616	0.678
##	615	590	1	0.645 0.01577	0.615	0.677
##	616	589	1	0.644 0.01578	0.614	0.676
##	617	588	1	0.643 0.01579	0.613	0.675
##	622	587	1	0.642 0.01580	0.612	0.674
##	625	586	1	0.641 0.01581	0.611	0.673
##	632	584	1	0.640 0.01582	0.610	0.672
##	636	583	1	0.639 0.01583	0.608	0.670
##	638	582	1	0.638 0.01584	0.607	0.669
##	649	581	1	0.636 0.01585	0.606	0.668
##	653	580	1	0.635 0.01586	0.605	0.667
##	654	579	1	0.634 0.01588	0.604	0.666
##	657	578	1	0.633 0.01589	0.603	0.665
##	659	577	1	0.632 0.01590	0.602	0.664
##	663	576	2	0.630 0.01592	0.599	0.662
##	668	573	1	0.629 0.01593	0.598	0.661
##	672	572	1	0.628 0.01594	0.597	0.660
##	675	571	1	0.627 0.01595	0.596	0.659
##	680	570	1	0.626 0.01596	0.595	0.658
##	683	569	1	0.624 0.01597	0.594	0.657
##	686	568	1	0.623 0.01598	0.593	0.655
##	697	567	1	0.622 0.01599	0.592	0.654
##	700	566	2	0.620 0.01600	0.589	0.652
##	701	564	1	0.619 0.01601	0.588	0.651
##	702	563	2	0.617 0.01603	0.586	0.649
##	711	561	1	0.616 0.01604	0.585	0.648
##	712	560	1	0.615 0.01605	0.584	0.647
##	717	559	1	0.613 0.01606	0.583	0.646
##	726	558	1	0.612 0.01607	0.582	0.645
##	730	557	1	0.611 0.01608	0.581	0.644
##	731	556	1	0.610 0.01609	0.579	0.642
##	735	555	1	0.609 0.01609	0.578	0.641
##	739	554	1	0.608 0.01610	0.577	0.640
##	742	553	1	0.607 0.01611	0.576	0.639
##	748	552	1	0.606 0.01612	0.575	0.638
##	751	551	1	0.605 0.01613	0.574	0.637
##	752	550	1	0.604 0.01614	0.573	0.636
##	772	549	1	0.602 0.01614	0.572	0.635
##	774	548	1	0.601 0.01615	0.570	0.634
##	797	547	1	0.600 0.01616	0.569	0.633
##	803	546	1	0.599 0.01617	0.568	0.632
•		-			-	

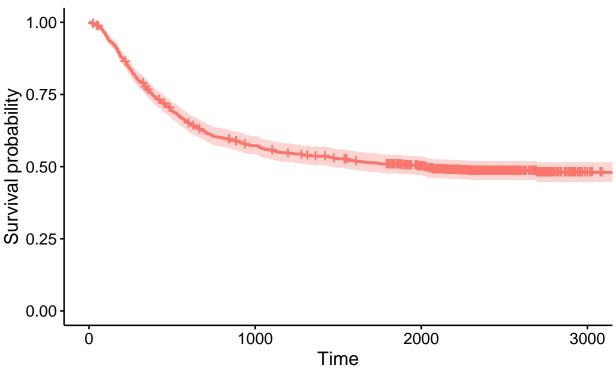
##	805	545	1	0.598	0.01617	0.567	0.631
##	827	544	1	0.597	0.01618	0.566	0.630
##	828	543	1	0.596	0.01619	0.565	0.628
##	835	542	1	0.595	0.01620	0.564	0.627
##	849	539	1	0.594	0.01620	0.563	0.626
##	851	538	1	0.593	0.01621	0.562	0.625
##	853	537	1	0.591	0.01622	0.560	0.624
##	855	536	1	0.590	0.01623	0.559	0.623
##	871	535	1	0.589	0.01623	0.558	0.622
##	883	534	1	0.588	0.01624	0.557	0.621
##	891	531	1	0.587	0.01625	0.556	0.620
##	900	530	1	0.586	0.01625	0.555	0.619
##	904	529	1	0.585	0.01626	0.554	0.618
##	912	528	1	0.584	0.01627	0.553	0.616
##	918	527	1	0.583	0.01628	0.552	0.615
##	922	526	1	0.581	0.01628	0.550	0.614
##	930	525	1	0.580	0.01629	0.549	0.613
##	931	524	1	0.579	0.01630	0.548	0.612
##	934	523	1	0.578	0.01630	0.547	0.611
##	936	522	1	0.577	0.01631	0.546	0.610
##	959	520	1	0.576	0.01631	0.545	0.609
##	960	519	1	0.575	0.01632	0.544	0.608
##	968	518	1	0.574	0.01633	0.543	0.607
##	975	517	1		0.01633	0.541	
##	1013	516	1		0.01634	0.540	
##	1020	515	1	0.570	0.01634	0.539	0.603
##	1024	514	1		0.01635	0.538	
##	1025	513	1		0.01636	0.537	
##	1026	512	1		0.01636	0.536	
##	1029	511	1		0.01637	0.535	
##	1032	510	1		0.01637	0.534	
##	1037	509	1		0.01638	0.533	
##	1042	508	1		0.01638	0.531	
##	1052	507	1		0.01639	0.530	
##	1057	506	2		0.01640	0.528	
##	1081	504	1		0.01640	0.527	
##	1089	503	1		0.01641	0.526	
##	1106	501	1		0.01641	0.525	
##	1108	500	1		0.01642	0.524	
##	1114	499	1		0.01642	0.522	
##	1122	498	1		0.01643	0.521	
##	1130	497	1		0.01643	0.520	
##	1139	496	1		0.01644	0.519	
##	1142	495	1		0.01644 0.01645	0.518	
##	1159	494	1		0.01645	0.517	
## ##	1183 1211	493 491	1 1		0.01645	0.516 0.515	
##	1233	491	1		0.01646	0.514	
##	1236	490	1		0.01646	0.514	
##	1274	40 <i>9</i> 488	1		0.01647	0.512	
##	1274	400 487	1		0.01647	0.511	
##	1277	486	1		0.01647	0.509	
##	1298	484	1		0.01648	0.508	
##	1323	482	1		0.01648	0.507	
	1020	102	-	3.300	3.01010	0.001	0.011

##	1329	481	1	0.537 0.01648	0.506	0.570
##	1353	480	1	0.536 0.01649	0.505	0.569
##	1432	477	1	0.535 0.01649	0.503	0.568
##	1436	476	1	0.534 0.01650	0.502	0.567
##	1446	475	1	0.533 0.01650	0.501	0.566
##	1455	474	1	0.531 0.01650	0.500	0.565
##	1466	473	1	0.530 0.01651	0.499	0.564
##	1471	472	1	0.529 0.01651	0.498	0.563
##	1475	470	1	0.528 0.01651	0.497	0.561
##	1488	469	1	0.527 0.01652	0.496	0.560
##	1535	468	1	0.526 0.01652	0.494	0.559
##	1539	466	1	0.525 0.01652	0.493	0.558
##	1551	463	1	0.524 0.01652	0.492	0.557
##	1561	462	1	0.522 0.01653	0.491	0.556
##	1564	461	1	0.521 0.01653	0.490	0.555
##	1589	460	1	0.520 0.01653	0.489	0.554
##	1606	459	2	0.518 0.01654	0.486	0.551
##	1644	456	1	0.517 0.01654	0.485	0.550
##	1647	455	1	0.516 0.01654	0.484	0.549
##	1668	454	1	0.514 0.01655	0.483	0.548
##	1687	453	1	0.513 0.01655	0.482	0.547
##	1723	452	1	0.512 0.01655	0.481	0.546
##	1743	451	1	0.511 0.01655	0.480	0.545
##	1749	450	1	0.510 0.01656	0.478	0.543
##	1759	449	1	0.509 0.01656	0.477	0.542
##	1786	448	1	0.508 0.01656	0.476	0.541
##	1876	423	1	0.506 0.01656	0.475	0.540
##	1895	420	1	0.505 0.01657	0.474	0.539
##	1918	415	1	0.504 0.01657	0.473	0.538
##	1976	405	1	0.503 0.01658	0.471	0.536
##	1981	401	1	0.502 0.01658	0.470	0.535
##	2012	389	1	0.500 0.01659	0.469	0.534
##	2018	388	1	0.499 0.01660	0.467	0.533
##	2028	383	1	0.498 0.01661	0.466	0.531
##	2031	380	1	0.496 0.01662	0.465	0.530
##	2035	379	1	0.495 0.01662	0.463	0.529
##	2036	378	1	0.494 0.01663	0.462	0.527
##	2067	367	1	0.492 0.01664	0.461	0.526
##	2074	364	1	0.491 0.01665	0.459	0.525
##	2148	327	1	0.489 0.01667	0.458	0.523
##	2231	262	1	0.488 0.01671	0.456	0.521
##	2288	234	1	0.486 0.01676	0.454	0.520
##	2695	84	1	0.480 0.01753	0.447	0.515
aut	oplot(km	_fit)				



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





km_fit <- survfit(surv~1 + obstruct, data=colon_subset_recurrence)
summary(km_fit)</pre>

```
Call: survfit(formula = surv ~ 1 + obstruct, data = colon_subset_recurrence)
##
##
##
                     obstruct=no obstruct
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       8
             749
                        1
                              0.999 0.00133
                                                     0.996
                                                                   1.000
##
      28
             747
                        1
                              0.997 0.00189
                                                     0.994
                                                                   1.000
      38
             746
                              0.996 0.00231
                                                     0.991
                                                                   1.000
##
                        1
##
      43
             745
                        1
                              0.995 0.00267
                                                     0.989
                                                                   1.000
##
      45
             744
                        1
                              0.993 0.00298
                                                     0.987
                                                                   0.999
##
      49
             743
                        1
                              0.992 0.00326
                                                     0.986
                                                                   0.998
##
      62
             742
                        2
                              0.989 0.00376
                                                     0.982
                                                                   0.997
##
      63
             740
                        1
                              0.988 0.00399
                                                     0.980
                                                                   0.996
             739
                        2
##
      72
                              0.985 0.00440
                                                     0.977
                                                                   0.994
##
      77
             737
                              0.984 0.00459
                        1
                                                     0.975
                                                                   0.993
##
      78
             736
                        1
                              0.983 0.00478
                                                     0.973
                                                                   0.992
##
      79
             735
                        1
                              0.981 0.00495
                                                     0.972
                                                                   0.991
##
      80
             734
                        2
                              0.979 0.00529
                                                     0.968
                                                                   0.989
             732
                        2
##
      85
                              0.976 0.00560
                                                     0.965
                                                                   0.987
                        2
##
      86
             730
                              0.973 0.00590
                                                     0.962
                                                                   0.985
##
      88
                        1
                              0.972 0.00604
             728
                                                     0.960
                                                                   0.984
##
      91
             727
                        2
                              0.969 0.00631
                                                     0.957
                                                                   0.982
##
      94
             725
                              0.968 0.00644
                                                     0.955
                                                                   0.981
                        1
             724
                        2
                              0.965 0.00670
##
      98
                                                     0.952
                                                                   0.978
##
             722
                              0.964 0.00682
     100
                        1
                                                     0.951
                                                                   0.977
##
     101
             721
                        1
                              0.963 0.00694
                                                     0.949
                                                                   0.976
```

	400	700		0 004 0 00700	0.047	0 075
##	102	720	1	0.961 0.00706	0.947	0.975
##	105	719	1	0.960 0.00717	0.946	0.974
##	106	718	1	0.959 0.00729	0.944	0.973
##	108	717	1	0.957 0.00740	0.943	0.972
##	113	716	3	0.953 0.00772	0.938	0.968
##	116	713	2	0.951 0.00793	0.935	0.966
##	118	711	1	0.949 0.00803	0.934	0.965
##	119	710	1	0.948 0.00813	0.932	0.964
##	121	709	1	0.947 0.00823	0.931	0.963
##	122	708	1	0.945 0.00832	0.929	0.962
##	127	707	1	0.944 0.00842	0.927	0.960
##	131	706	1	0.943 0.00851	0.926	0.959
##	132	705	1	0.941 0.00860	0.924	0.958
##	136	704	1	0.940 0.00869	0.923	0.957
##	139	703	1	0.939 0.00878	0.921	0.956
##	141	702	1	0.937 0.00887	0.920	0.955
##	143	701	1	0.936 0.00896	0.918	0.954
##	145	700	1	0.934 0.00905	0.917	0.952
##	146	699	2	0.934 0.00903	0.914	0.952
##	147	697	1	0.930 0.00930	0.912	0.949
##	154	696	1	0.929 0.00938	0.911	0.948
##	157	695	2	0.926 0.00954	0.908	0.945
##	161	693	1	0.925 0.00962	0.906	0.944
##	165	692	3	0.921 0.00986	0.902	0.941
##	166	689	1	0.920 0.00993	0.901	0.939
##	167	688	1	0.918 0.01001	0.899	0.938
##	169	687	1	0.917 0.01008	0.898	0.937
##	173	686	3	0.913 0.01030	0.893	0.934
##	174	683	2	0.910 0.01044	0.890	0.931
##	176	681	2	0.908 0.01058	0.887	0.929
##	179	679	1	0.906 0.01065	0.886	0.928
##	181	678	1	0.905 0.01072	0.884	0.926
##	183	677	2	0.902 0.01085	0.881	0.924
##	185	675	2	0.900 0.01098	0.878	0.922
##	186	673	1	0.898 0.01105	0.877	0.920
##	189	672	2	0.896 0.01117	0.874	0.918
##	191	670	2	0.893 0.01130	0.871	0.915
##	196	668	1	0.892 0.01136	0.870	0.914
##	198	667	1	0.890 0.01142	0.868	0.913
##	201	666	1	0.889 0.01148	0.867	0.912
##	203	665	1	0.888 0.01154	0.865	0.911
##	204	664	1	0.886 0.01160	0.864	0.909
##	205	663	1	0.885 0.01166	0.862	0.908
##	208	662	2	0.882 0.01178	0.860	0.906
##	215	660	2	0.880 0.01190	0.857	0.903
##	216	658	1	0.878 0.01195	0.855	0.902
##	218	657	1	0.877 0.01201	0.854	0.901
##	219	656	1	0.876 0.01206	0.852	0.900
##	221	654	1	0.874 0.01212	0.851	0.898
##	224	653	1	0.873 0.01218	0.849	0.897
##	227	652	1	0.872 0.01223	0.848	0.896
##	229	651	2	0.869 0.01234	0.845	0.893
##	230	649	3	0.865 0.01250	0.841	0.890
##	235	646	1	0.864 0.01255	0.839	0.889
			-		0.000	

	007	0.45	0	0.004.0.04005	0.000	0.000
##	237	645	2	0.861 0.01265	0.836	0.886
##	238	643	1	0.860 0.01270	0.835	0.885
##	242	642	1	0.858 0.01275	0.834	0.884
##	243	641	1	0.857 0.01280	0.832	0.882
##	246	640	1	0.856 0.01285	0.831	0.881
##	248	639	1	0.854 0.01290	0.829	0.880
##	250	638	1	0.853 0.01295	0.828	0.879
##	252	637	1	0.852 0.01300	0.826	0.877
##	253	636	1	0.850 0.01305	0.825	0.876
##	256	635	2	0.848 0.01315	0.822	0.874
##	257	633	1	0.846 0.01319	0.821	0.872
##	260	632	1	0.845 0.01324	0.819	0.871
##	261	631	1	0.844 0.01329	0.818	0.870
##	262	630	1	0.842 0.01333	0.816	0.869
##	263	629	2	0.840 0.01342	0.814	0.866
##	264	627	1	0.838 0.01347	0.812	0.865
##	271	626	1	0.837 0.01351	0.811	0.864
##	273	625	1	0.836 0.01356	0.809	0.863
##	274	624	1	0.834 0.01360	0.808	0.861
##	276	623	1	0.833 0.01365	0.807	0.860
##		622	2			
	279			0.830 0.01373	0.804	0.858
##	285	620	1	0.829 0.01378	0.802	0.856
##	286	619	2	0.826 0.01386	0.799	0.854
##	290	617	1	0.825 0.01390	0.798	0.852
##	291	616	1	0.823 0.01394	0.797	0.851
##	294	615	2	0.821 0.01403	0.794	0.849
##	296	613	2	0.818 0.01411	0.791	0.846
##	303	611	1	0.817 0.01415	0.789	0.845
##	304	610	1	0.815 0.01419	0.788	0.844
##	308	609	1	0.814 0.01423	0.787	0.842
##	313	608	1	0.813 0.01427	0.785	0.841
##	315	607	2	0.810 0.01435	0.782	0.839
##	322	605	2	0.807 0.01442	0.780	0.836
##	325	603	1	0.806 0.01446	0.778	0.835
##	328	602	1	0.805 0.01450	0.777	0.834
##	329	601	1	0.803 0.01454	0.775	0.832
##	330	600	2	0.801 0.01461	0.773	0.830
##	334	598	1	0.799 0.01465	0.771	0.829
##	336	597	2	0.797 0.01472	0.768	0.826
##	337	595	2	0.794 0.01479	0.766	0.824
##	341	592	1	0.793 0.01483	0.764	0.822
##	344	591	1	0.791 0.01486	0.763	0.821
##	348	590	2	0.789 0.01493	0.760	0.818
##	349	588	1	0.787 0.01497	0.758	0.817
##	352	587	1	0.786 0.01500	0.757	0.816
##	356	585	2	0.783 0.01507	0.754	0.813
##	360	583	1	0.782 0.01511	0.753	0.812
##	362	582	1	0.781 0.01514	0.751	0.811
##	365	581	1	0.779 0.01517	0.750	0.810
##	369	580	1	0.778 0.01521	0.749	0.808
##	370	579	1	0.777 0.01524	0.747	0.807
##	372	578	1	0.775 0.01527	0.746	0.806
##	374	577	1	0.774 0.01530	0.744	0.804
##	378	576	1	0.773 0.01534	0.743	0.803
	2.0	3. 3	-	5 0.01001	J 15	

##	379	575	1	0.771 0.01537	0.742	0.802
##	380	574	2	0.768 0.01543	0.739	0.799
##	384	572	1	0.767 0.01546	0.737	0.798
##	386	571	1	0.766 0.01549	0.736	0.797
##	392	570	1	0.764 0.01553	0.735	0.795
##	393	569	1	0.763 0.01556	0.733	0.794
##	398	568	1	0.762 0.01559	0.732	0.793
##	401	567	1	0.760 0.01562	0.730	0.792
##	402	566	1	0.759 0.01565	0.729	0.790
##	405	565	1	0.758 0.01568	0.728	0.789
##	406	564	1	0.756 0.01571	0.726	0.788
##	408	563	1	0.755 0.01574	0.725	0.787
##	415	562	1	0.754 0.01577	0.723	0.785
##	429	560	1	0.752 0.01579	0.722	0.784
##	431	559	1	0.751 0.01582	0.721	0.783
##	433	558	1	0.750 0.01585	0.719	0.781
##	434	557	1	0.748 0.01588	0.718	0.780
##	435	556	1	0.747 0.01591	0.716	0.779
##	437	555	1	0.746 0.01594	0.715	0.778
##	438	554	1	0.744 0.01597	0.714	0.776
##	439	553	1	0.743 0.01599	0.712	0.775
##	440	552	1	0.742 0.01602	0.711	0.774
##	443	551	1	0.740 0.01605	0.709	0.772
##	448	550	1	0.739 0.01608	0.708	0.771
##	454	548	2 2	0.736 0.01613	0.705	0.769
##	458	546	1	0.734 0.01618	0.702	0.766
##	461	544	1	0.732 0.01621	0.701	0.765
## ##	465 466	543 542	2	0.731 0.01623 0.728 0.01629	0.700 0.697	0.763 0.761
##	474	542 540	1	0.728 0.01629	0.695	0.751
##	480	539	1	0.727 0.01031 0.725 0.01634	0.694	0.759
##	482	538	1	0.724 0.01636	0.693	0.757
##	485	537	1	0.724 0.01030	0.691	0.757
##	490	535	1	0.723 0.01633	0.690	0.754
##	491	534	2	0.719 0.01646	0.687	0.754
##	495	532	1	0.717 0.01649	0.686	0.752
##	496	531	1	0.716 0.01651	0.684	0.749
##	497	530	1	0.715 0.01653	0.683	0.748
##	498	529	1	0.713 0.01656	0.682	0.746
##	499	528	1	0.712 0.01658	0.680	0.745
##	505	527	1	0.711 0.01661	0.679	0.744
##	510	526	1	0.709 0.01663	0.677	0.743
##	511	525	1	0.708 0.01665	0.676	0.741
##	513	524	1	0.707 0.01667	0.675	0.740
##	523	523	1	0.705 0.01670	0.673	0.739
##	525	522	1	0.704 0.01672	0.672	0.737
##	526	521	1	0.702 0.01674	0.670	0.736
##	532	520	1	0.701 0.01676	0.669	0.735
##	534	519	1	0.700 0.01679	0.668	0.733
##	536	518	1	0.698 0.01681	0.666	0.732
##	540	517	1	0.697 0.01683	0.665	0.731
##	542	516	1	0.696 0.01685	0.663	0.730
##	543	515	2	0.693 0.01689	0.661	0.727
##	547	513	1	0.692 0.01692	0.659	0.726

##	548	512	1	0.690 0.01694	0.658	0.724
##	554	512	1	0.689 0.01696	0.657	0.724
##	555	510	1	0.688 0.01698	0.655	0.723
##	560	509	1	0.686 0.01700	0.654	0.720
##	565	508	1	0.685 0.01702	0.652	0.719
##	573	507	2	0.682 0.01706	0.650	0.716
##	578	505	2	0.679 0.01710	0.647	0.714
##	583	503	1	0.678 0.01712	0.645	0.713
##	591	502	1	0.677 0.01714	0.644	0.711
##	593	501	3	0.673 0.01719	0.640	0.707
##	594	498	1	0.671 0.01721	0.638	0.706
##	599	497	1	0.670 0.01723	0.637	0.705
##	602	495	1	0.669 0.01725	0.636	0.703
##	608	494	1	0.667 0.01726	0.634	0.702
##	613	493	1	0.666 0.01728	0.633	0.701
##	615	492	1	0.665 0.01730	0.632	0.699
##	616	491	1	0.663 0.01732	0.630	0.698
##	617	490	1	0.662 0.01734	0.629	0.697
##	622	489	1	0.661 0.01735	0.627	0.695
##	632	487	1	0.659 0.01737	0.626	0.694
##	636	486	1	0.658 0.01739	0.625	0.693
##	638	485	1	0.656 0.01740	0.623	0.692
##	649	484	1	0.655 0.01742	0.622	0.690
##	654	483	1	0.654 0.01744	0.620	0.689
##	657	482	1	0.652 0.01745	0.619	0.688
##	659	481	1	0.651 0.01747	0.618	0.686
##	663	480	2	0.648 0.01750	0.615	0.684
##	668	477	1	0.647 0.01752	0.614	0.682
##	672	476	1	0.646 0.01753	0.612	0.681
##	675	475	1	0.644 0.01755	0.611	0.680
##	680	474	1	0.643 0.01757	0.609	0.678
##	683	473	1	0.642 0.01758	0.608	0.677
##	686	472	1	0.640 0.01760	0.607	0.676
##	697	471	1	0.639 0.01761	0.605	0.674
##	700	470	2	0.636 0.01764	0.602	0.672
##	701	468	1	0.635 0.01766	0.601	0.670
##	702	467	2	0.632 0.01768	0.598	0.668
##	711	465	1	0.631 0.01770	0.597	0.666
##	712	464	1	0.629 0.01771	0.596	0.665
##	717	463	1	0.628 0.01773	0.594	0.664
##	730	462	1	0.627 0.01774	0.593	0.662
##	731	461	1	0.625 0.01775	0.591	0.661
##	735	460	1	0.624 0.01777	0.590	0.660
##	739	459	1	0.623 0.01778	0.589	0.658
##	742	458	1	0.621 0.01779	0.587	0.657
##	748	457	1	0.620 0.01781	0.586	0.656
##	751	456	1	0.618 0.01782	0.584	0.654
##	752	455	1	0.617 0.01783	0.583	0.653
##	774	454	1	0.616 0.01784	0.582	0.652
##	803	453	1	0.614 0.01786	0.580	0.650
##	805	452	1	0.613 0.01787	0.579	0.649
##	827	451	1	0.612 0.01788	0.578	0.648
##	835	450	1	0.610 0.01789	0.576	0.646
##	849	447	1	0.609 0.01790	0.575	0.645
	J -0		-	0.01.00	0.0.0	

	054	4.4.0			0.04700	0 570	0 011
##	851	446	1		0.01792	0.573	0.644
##	853	445	1		0.01793	0.572	0.642
##	855	444	1	0.605	0.01794	0.571	0.641
##	883	443	1	0.603	0.01795	0.569	0.640
##	891	440	1	0.602	0.01796	0.568	0.638
##	900	439	1	0.601	0.01797	0.567	0.637
##	904	438	1	0.599	0.01798	0.565	0.636
##	922	437	1		0.01800	0.564	0.634
##	930	436	1		0.01801	0.562	0.633
##	931	435	1		0.01802	0.561	0.632
##	934	434	1		0.01803	0.560	0.630
##	936						
		433	1		0.01804	0.558	0.629
##	959	431	1		0.01805	0.557	0.628
##	968	430	1		0.01806	0.555	0.626
##	975	429	1		0.01807	0.554	0.625
##	1013	428	1		0.01808	0.553	0.624
##	1020	427	1	0.586	0.01809	0.551	0.622
##	1024	426	1	0.584	0.01810	0.550	0.621
##	1025	425	1	0.583	0.01811	0.548	0.619
##	1029	424	1	0.581	0.01812	0.547	0.618
##	1032	423	1	0.580	0.01813	0.546	0.617
##	1037	422	1	0.579	0.01814	0.544	0.615
##	1042	421	1	0.577	0.01815	0.543	0.614
##	1052	420	1		0.01815	0.541	0.613
##	1057	419	1		0.01816	0.540	0.611
##	1081	418	1		0.01817	0.539	0.610
##	1081	417	1		0.01817	0.537	0.609
##	1106	415	1		0.01819	0.536	0.607
##	1108	414	1		0.01820	0.535	0.606
##	1114	413	1		0.01820	0.533	0.605
##	1122	412	1		0.01821	0.532	0.603
##	1130	411	1	0.565	0.01822	0.530	0.602
##	1139	410	1	0.564	0.01823	0.529	0.600
##	1142	409	1	0.562	0.01823	0.528	0.599
##	1159	408	1	0.561	0.01824	0.526	0.598
##	1183	407	1	0.559	0.01825	0.525	0.596
##	1233	405	1	0.558	0.01826	0.523	0.595
##	1236	404	1	0.557	0.01826	0.522	0.594
##	1274	403	1	0.555	0.01827	0.521	0.592
##	1275	402	1		0.01828	0.519	0.591
##	1277	401	1		0.01828	0.518	0.590
##	1298	399	1		0.01829	0.516	0.588
##	1323	397	1		0.01830	0.515	0.587
##	1329	396	1		0.01830	0.514	0.585
		395	1		0.01831		
##	1353					0.512	0.584
##	1432	392	1		0.01832	0.511	0.583
##	1436	391	1		0.01832	0.509	0.581
##	1446	390	1		0.01833	0.508	0.580
##	1455	389	1		0.01833	0.507	0.579
##	1466	388	1		0.01834	0.505	0.577
##	1475	386	1	0.539	0.01835	0.504	0.576
##	1488	385	1	0.537	0.01835	0.502	0.574
##	1535	384	1	0.536	0.01836	0.501	0.573
##	1539	382	1	0.534	0.01836	0.500	0.572

##	1551	379	1	0.533	0.01837	0.498	0.570
##	1561	378	1		0.01837	0.497	0.569
##	1564	377	1	0.530	0.01838	0.495	0.567
##	1589	376	1	0.529	0.01838	0.494	0.566
##	1606	375	2	0.526	0.01839	0.491	0.563
##	1644	373	1	0.525	0.01840	0.490	0.562
##	1647	372	1	0.523	0.01840	0.488	0.560
##	1668	371	1	0.522	0.01841	0.487	0.559
##	1687	370	1	0.520	0.01841	0.485	0.558
##	1723	369	1	0.519	0.01842	0.484	0.556
##	1749	368	1	0.518	0.01842	0.483	0.555
##	1759	367	1	0.516	0.01842	0.481	0.554
##	1786	366	1	0.515	0.01843	0.480	0.552
##	1918	342	1	0.513	0.01843	0.478	0.551
##	1976	333	1	0.512	0.01844	0.477	0.549
##	1981	330	1	0.510	0.01845	0.475	0.548
##	2028	317	1	0.508	0.01846	0.474	0.546
##	2035	314	1	0.507	0.01848	0.472	0.544
##	2067	303	1	0.505	0.01849	0.470	0.543
##	2074	301	1	0.504	0.01850	0.469	0.541
##	2148	275	1	0.502	0.01853	0.467	0.539
##	2288	201	1	0.499	0.01860	0.464	0.537
##	2695	70	1	0.492	0.01966	0.455	0.532
##							
##			obsti	ruct=obsti	ruct		
##	time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
##	9	180	1	0.994	0.00554	0.984	1.000
					0.00001	0.001	1.000
##	19	179	1		0.00781	0.974	1.000
## ##	19 20			0.989			
		179	1	0.989 0.983	0.00781	0.974	1.000
##	20	179 178	1 1	0.989 0.983 0.978	0.00781 0.00954	0.974 0.965	1.000 1.000
## ##	20 35	179 178 176	1 1 1	0.989 0.983 0.978 0.972	0.00781 0.00954 0.01100	0.974 0.965 0.956	1.000 1.000 1.000
## ## ##	20 35 36	179 178 176 175	1 1 1 1	0.989 0.983 0.978 0.972 0.967	0.00781 0.00954 0.01100 0.01228	0.974 0.965 0.956 0.948	1.000 1.000 1.000 0.997
## ## ## ##	20 35 36 40	179 178 176 175 174	1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961	0.00781 0.00954 0.01100 0.01228 0.01342	0.974 0.965 0.956 0.948 0.941	1.000 1.000 1.000 0.997 0.993
## ## ## ##	20 35 36 40 59	179 178 176 175 174 171	1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448	0.974 0.965 0.956 0.948 0.941 0.933	1.000 1.000 1.000 0.997 0.993 0.990
## ## ## ## ##	20 35 36 40 59 68	179 178 176 175 174 171	1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546	0.974 0.965 0.956 0.948 0.941 0.933 0.925	1.000 1.000 1.000 0.997 0.993 0.990
## ## ## ## ## ##	20 35 36 40 59 68 77	179 178 176 175 174 171 170	1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982
## ## ## ## ## ##	20 35 36 40 59 68 77 80	179 178 176 175 174 171 170 169 168	1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978
## ## ## ## ## ##	20 35 36 40 59 68 77 80 98	179 178 176 175 174 171 170 169 168	1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978
## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98	179 178 176 175 174 171 170 169 168 167	1 1 1 1 1 1 1 1 1 1 2	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974
## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99	179 178 176 175 174 171 170 169 168 167 166	1 1 1 1 1 1 1 1 1 2	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962
## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101	179 178 176 175 174 171 170 169 168 167 166 164	1 1 1 1 1 1 1 1 1 2 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910	0.00781 0.00954 0.01100 0.01228 0.01342 0.01546 0.01537 0.01722 0.01802 0.01950 0.02018 0.02083	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957
## ## ## ## ## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109	179 178 176 175 174 171 170 169 168 167 166 164 163	1 1 1 1 1 1 1 1 1 2 1 1	0.989 0.983 0.978 0.972 0.967 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957
## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161	1 1 1 1 1 1 1 1 2 1 1 1	0.989 0.983 0.978 0.972 0.967 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899	0.00781 0.00954 0.01100 0.01228 0.01342 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146 0.02206	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957
## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161	1 1 1 1 1 1 1 1 2 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893	0.00781 0.00954 0.01100 0.01228 0.01342 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146 0.02206 0.02263	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949
## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893 0.887	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146 0.02206 0.02263 0.02318	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944
## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.916 0.910 0.904 0.899 0.893 0.887	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146 0.02266 0.02263 0.02318 0.02372	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940
## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 154	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.01950 0.02018 0.02083 0.02146 0.02206 0.02263 0.02318 0.02372 0.02423	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.944 0.940 0.935
## ## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 154	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.02918 0.02018 0.02083 0.02146 0.02206 0.02263 0.02318 0.02372 0.02472	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940 0.935 0.931
## ## ## ## ## ## ## ## ## ##	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 154 157 160	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157 156	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876 0.865	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.02950 0.02018 0.02083 0.02146 0.02206 0.02263 0.02318 0.02372 0.02472 0.02472 0.02520	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836 0.829 0.822	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940 0.935 0.931
######################################	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 154 157 160 161 168 174	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157 156 155 154 153 152	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876 0.870 0.865 0.859 0.854	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.02908 0.02018 0.02206 0.02263 0.02318 0.02372 0.02423 0.02472 0.02566 0.02566 0.02651	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836 0.822 0.816 0.809 0.803	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940 0.935 0.931 0.926 0.921
######################################	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 157 160 161 168 174 175	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157 156 155 154 153	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876 0.870 0.865 0.859 0.854	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.02950 0.02018 0.02206 0.02263 0.02318 0.02372 0.02472 0.02423 0.02472 0.02520 0.02566 0.02611	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836 0.829 0.822 0.816 0.809	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940 0.935 0.931 0.926 0.921 0.917 0.912
#######################################	20 35 36 40 59 68 77 80 98 99 101 103 109 111 116 121 134 154 157 160 161 168 174	179 178 176 175 174 171 170 169 168 167 166 164 163 162 161 160 159 158 157 156 155 154 153 152	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.989 0.983 0.978 0.972 0.967 0.961 0.955 0.950 0.944 0.938 0.927 0.921 0.916 0.910 0.904 0.899 0.893 0.887 0.882 0.876 0.870 0.865 0.859 0.854 0.848 0.831	0.00781 0.00954 0.01100 0.01228 0.01342 0.01448 0.01546 0.01637 0.01722 0.01802 0.02908 0.02018 0.02206 0.02263 0.02318 0.02372 0.02423 0.02472 0.02566 0.02566 0.02651	0.974 0.965 0.956 0.948 0.941 0.933 0.925 0.918 0.911 0.904 0.890 0.883 0.876 0.869 0.862 0.855 0.849 0.842 0.836 0.822 0.816 0.809 0.803	1.000 1.000 1.000 0.997 0.993 0.990 0.986 0.982 0.978 0.974 0.966 0.962 0.957 0.953 0.949 0.944 0.940 0.935 0.931 0.926 0.921 0.917

##	199	146	1	0.820 0.02888	0.765	0.878
##	218	145	2	0.808 0.02956	0.752	0.868
##	223	143	1	0.803 0.02989	0.746	0.863
##	228	142	1	0.797 0.03021	0.740	0.858
##	230	141	2	0.786 0.03082	0.728	0.848
##	238	139	1	0.780 0.03111	0.721	0.843
##	245	138	2	0.769 0.03167	0.709	0.833
##	255	136	1	0.763 0.03194	0.703	0.828
##	258	135	1	0.757 0.03220	0.697	0.823
##	260	134	1	0.752 0.03245	0.691	0.818
##	271	133	1	0.746 0.03270	0.685	0.813
##	276	132	1	0.740 0.03294	0.679	0.808
##	279	131	1	0.735 0.03317	0.673	0.803
##	280	130	1	0.729 0.03339	0.667	0.798
##	286	129	1	0.724 0.03360	0.661	0.792
##	290	128	1	0.718 0.03381	0.655	0.787
##	300	127	1	0.712 0.03402	0.649	0.782
##	333	125	1	0.707 0.03422	0.643	0.777
##	335	124	1	0.701 0.03441	0.637	0.772
##	337	123	1	0.695 0.03460	0.631	0.766
##	352	122	1	0.689 0.03478	0.625	0.761
##	354	121	1	0.684 0.03496	0.619	0.756
##	360	120	1	0.678 0.03513	0.613	0.750
##	366	119	1	0.672 0.03529	0.607	0.745
##	382	118	1	0.667 0.03545	0.601	0.740
##	386	117	1	0.661 0.03560	0.595	0.735
##	389	116	1	0.655 0.03575	0.589	0.729
##	411	115	1	0.650 0.03589	0.583	0.724
##	413	114	1	0.644 0.03603	0.577	0.718
##	415	113	1	0.638 0.03615	0.571	0.713
##	422	112	1	0.632 0.03628	0.565	0.708
##	449	111	1	0.627 0.03640	0.559	0.702
##	476	110	1	0.621 0.03651	0.553	0.697
##	489	108	1	0.615 0.03662	0.548	0.691
##	493	107	1	0.610 0.03673	0.542	0.686
##	504	106	1	0.604 0.03683	0.536	0.680
##	527	105	1	0.598 0.03692	0.530	0.675
##	532	104	1	0.592 0.03701	0.524	0.669
##	554	103	1	0.587 0.03710	0.518	0.664
##	561	102	1	0.581 0.03718	0.512	0.658
##	577	101	1	0.575 0.03725	0.506	0.653
##	581	100	1	0.569 0.03732	0.501	0.647
##	604	99	1	0.564 0.03738	0.495	0.642
##	625	98	1	0.558 0.03744	0.489	0.636
##	653	97	1	0.552 0.03749	0.483	0.631
##	726	96	1	0.546 0.03754	0.477	0.625
##	772	95	1	0.541 0.03758	0.472	0.619
##	797	94	1	0.535 0.03762	0.466	0.614
##	828	93	1	0.529 0.03765	0.460	0.608
##	871	92	1	0.523 0.03768	0.454	0.603
##	912	91	1	0.518 0.03770	0.449	0.597
##	918	90	1	0.512 0.03772	0.443	0.591
##	960	89	1	0.506 0.03773	0.437	0.586
##	1026	88	1	0.500 0.03774	0.432	0.580

```
1057
                             0.495 0.03774
                                                     0.426
##
              87
                                                                   0.574
##
    1211
              86
                        1
                             0.489 0.03774
                                                     0.420
                                                                   0.569
##
    1471
              85
                             0.483 0.03773
                                                     0.414
                                                                   0.563
    1743
              83
                             0.477 0.03772
                                                     0.409
                        1
                                                                   0.557
##
##
    1876
              76
                        1
                             0.471 0.03774
                                                     0.402
                                                                   0.551
##
    1895
              74
                        1
                             0.465 0.03777
                                                     0.396
                                                                   0.545
##
    2012
              68
                        1
                             0.458 0.03782
                                                     0.389
                                                                   0.538
    2018
                             0.451 0.03787
                                                     0.382
                                                                   0.532
##
              67
                        1
##
    2031
              66
                        1
                             0.444 0.03791
                                                     0.376
                                                                   0.525
##
    2036
              65
                             0.437 0.03794
                                                     0.369
                        1
                                                                   0.518
##
    2231
              40
                        1
                             0.426 0.03853
                                                     0.357
                                                                   0.509
ggsurvplot(km_fit, data = colon_subset_recurrence, pval = TRUE,conf.int = TRUE,
            risk.table = TRUE, ggtheme = theme_bw(),risk.table.col = "strata")
                                              obstruct=no obstruct
                                  Strata -
                                                                      obstruct=obstruct
                 1.00
Survival probability
                 0.75
                 0.50
                 0.25
                           p = 0.036
                 0.00
                        0
                                              1000
                                                                     2000
                                                                                            3000
                                                         Time
                      Number at risk
                                              428
                                                                     323
   obstruct=no obstruct
                                              88
                                                                     71
      obstruct=obstruct
                       180
                                              1000
                                                                     2000
                                                                                            3000
                                                         Time
km_fit <- survfit(surv~1 + adhere, data=colon_subset_recurrence)</pre>
summary(km_fit)
## Call: survfit(formula = surv ~ 1 + adhere, data = colon_subset_recurrence)
##
##
                     adhere=no adhere
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
       8
             794
                        1
                             0.999 0.00126
                                                     0.996
                                                                   1.000
       9
             793
                             0.997 0.00178
                                                     0.994
                                                                   1.000
##
                        1
##
      19
             792
                        1
                             0.996 0.00218
                                                     0.992
                                                                   1.000
##
      20
             791
                        1
                             0.995 0.00251
                                                     0.990
                                                                   1.000
                                                                   0.999
##
      28
             788
                        1
                             0.994 0.00281
                                                     0.988
##
      35
             787
                        1
                             0.992 0.00308
                                                     0.986
                                                                   0.998
      38
             786
                             0.991 0.00332
##
                                                     0.985
                                                                   0.998
```

##	40	785	1	0.990 0.00355	0.983	0.997
##	43	784	1	0.989 0.00376	0.981	0.996
##	45	783	1	0.987 0.00396	0.980	0.995
##	49	781	1	0.986 0.00416	0.978	0.994
##	59	779	1	0.985 0.00434	0.976	0.993
##	62	778	2	0.982 0.00468	0.973	0.992
##	63	776	1	0.981 0.00484	0.972	0.991
##	72	775	2	0.979 0.00515	0.968	0.989
##	77	773	2	0.976 0.00544	0.965	0.987
##	78	771	1	0.975 0.00558	0.964	0.986
##	79	770	1	0.973 0.00571	0.962	0.985
##	80	769	2	0.971 0.00597	0.959	0.983
##	85	767	2	0.968 0.00622	0.956	0.981
##	86	765	1	0.967 0.00634	0.955	0.980
##	91	764	2	0.965 0.00657	0.952	0.978
##	94	762	1	0.963 0.00668	0.950	0.977
##	98	761	3	0.960 0.00701	0.946	0.973
##	99	758	2	0.957 0.00721	0.943	0.971
##	100	756	1	0.956 0.00731	0.942	0.970
##	101	755	1	0.954 0.00741	0.940	0.969
##	102	754	1	0.953 0.00751	0.939	0.968
##	103	753	1	0.952 0.00761	0.937	0.967
##	106	752	1	0.951 0.00770	0.936	0.966
##	108	751	1	0.949 0.00779	0.934	0.965
##	111	750	1	0.948 0.00789	0.933	0.964
##	113	749	3	0.944 0.00815	0.929	0.960
##	116	746	2	0.942 0.00833	0.926	0.958
##	119	744	1	0.941 0.00841	0.924	0.957
##	121	743	1	0.939 0.00849	0.923	0.956
##	122	742	1	0.938 0.00858	0.921	0.955
##	127	741	1	0.937 0.00866	0.920	0.954
##	131	740	1	0.935 0.00874	0.919	0.953
##	132	739	1	0.934 0.00882	0.917	0.952
##	134	738	1	0.933 0.00890	0.916	0.951
##	136	737	1	0.932 0.00897	0.914	0.949
##	139	736	1	0.930 0.00905	0.913	0.948
##	141	735	1	0.929 0.00913	0.911	0.947
##	143	734	1	0.928 0.00920	0.910	0.946
##	145	733	1	0.927 0.00927	0.909	0.945
##	146	732	2	0.924 0.00942	0.906	0.943
##	147	730	1	0.923 0.00949	0.904	0.942
##	157	729	2	0.920 0.00963	0.902	0.939
##	160	727	1	0.919 0.00970	0.900	0.938
##	161	726	2	0.916 0.00984	0.897	0.936
##	165	724	3	0.913 0.01004	0.893	0.933
##	166	721	1	0.911 0.01011	0.892	0.931
##	167	720	1	0.910 0.01017	0.890	0.930
##	168	719	1	0.909 0.01024	0.889	0.929
##	169	718	1	0.908 0.01030	0.888	0.928
##	173	717	3	0.904 0.01049	0.884	0.925
##	174	714	3	0.900 0.01067	0.879	0.921
##	175	711	1	0.899 0.01073	0.878	0.920
##	176	710	2	0.896 0.01085	0.875	0.918
##	179	708	1	0.895 0.01091	0.874	0.917
			-		J.J. 1	3.51

## 183 706	##	181	707	1	0.894 0.01096	0.872	0.915
## 185 704 4 0.886 0.01130 0.864 0.909 ## 186 700 1 0.885 0.01135 0.863 0.907 ## 188 699 1 0.884 0.01141 0.862 0.906 ## 189 698 1 0.882 0.01146 0.860 0.905 ## 191 697 2 0.880 0.01157 0.857 0.903 ## 199 694 1 0.877 0.01167 0.855 0.900 ## 201 693 1 0.876 0.01172 0.853 0.899 ## 201 693 1 0.876 0.01172 0.853 0.899 ## 202 690 1 0.875 0.01183 0.851 0.897 ## 208 690 1 0.872 0.01183 0.851 0.897 ## 215 689 2 0.870 0.01183 0.847 0.893 ## 216 687 1 0.868 0.01212 0.842 0.898 ## 221 683 1 0.866 0.01212 0.842 0.898 ## 222 680 1 0.866 0.01212 0.842 0.898 ## 223 680 1 0.866 0.01212 0.842 0.898 ## 224 682 1 0.865 0.01217 0.841 0.889 ## 227 681 1 0.862 0.0127 0.833 0.886 ## 228 680 1 0.861 0.0123 0.837 0.886 ## 228 680 1 0.862 0.0127 0.838 0.886 ## 229 679 1 0.860 0.0123 0.835 0.886 ## 228 680 1 0.861 0.0123 0.837 0.885 ## 228 680 1 0.862 0.01227 0.838 0.886 ## 228 680 1 0.861 0.01231 0.837 0.885 ## 238 670 2 0.847 0.01281 0.822 0.878 ## 238 670 2 0.844 0.01290 0.819 0.878 ## 248 665 1 0.849 0.01273 0.825 0.875 ## 238 670 2 0.847 0.01281 0.822 0.872 ## 248 666 1 0.843 0.01294 0.818 0.869 ## 256 661 0.838 0.01311 0.813 0.864 ## 256 661 0.838 0.01311 0.813 0.864 ## 257 662 1 0.838 0.01311 0.813 0.864 ## 258 663 1 0.842 0.01298 0.817 0.868 ## 258 663 1 0.843 0.01294 0.818 0.869 ## 258 663 1 0.839 0.01307 0.814 0.868 ## 259 664 1 0.831 0.01307 0.814 0.868 ## 250 664 1 0.838 0.01311 0.813 0.864 ## 256 661 0.830 0.0135 0.805 0.855 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.830 0.0135 0.799 0.852 ## 271 652 1 0.825 0.01347 0.801 0.863 ## 263 655 2 0.828 0.01341 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.825 0.01351 0.799 0.854 ## 271 652 1 0.826 0.01374 0.791 0.845 ## 286 643 3 0.811 0.01399 0.785 0.839 ## 291 638 1 0.806 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01404 0.777 0.831 ## 300 634 1 0.800 0.01404 0.77							
## 186							
## 188 699							
## 189 698							
## 191 697 2 0.880 0.01157 0.857 0.903 ## 196 695 1 0.879 0.01162 0.856 0.902 ## 199 694 1 0.877 0.01167 0.855 0.900 ## 201 693 1 0.876 0.01172 0.853 0.899 ## 203 692 1 0.875 0.01178 0.852 0.898 ## 205 691 1 0.875 0.01188 0.851 0.897 ## 215 689 2 0.870 0.01188 0.849 0.896 ## 215 689 2 0.870 0.01188 0.847 0.893 ## 215 687 1 0.868 0.01203 0.845 0.892 ## 221 683 1 0.866 0.01212 0.842 0.890 ## 224 682 1 0.865 0.01217 0.841 0.889 ## 229 680 1 0.862 0.01217 0.841 0.889 ## 229 680 1 0.862 0.01227 0.840 0.888 ## 229 679 1 0.862 0.01227 0.838 0.886 ## 230 678 5 0.853 0.01227 0.838 0.886 ## 231 668 0.01231 0.837 0.885 ## 237 672 2 0.849 0.01264 0.828 0.877 ## 238 660 2 0.849 0.01273 0.825 0.875 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 248 665 1 0.843 0.01294 0.818 0.869 ## 255 662 1 0.842 0.01298 0.817 0.866 ## 256 661 2 0.838 0.01311 0.817 0.868 ## 256 663 1 0.842 0.01298 0.817 0.868 ## 257 664 1 0.843 0.01294 0.818 0.869 ## 258 663 1 0.842 0.01298 0.817 0.868 ## 259 679 1 0.839 0.01307 0.814 0.865 ## 250 664 1 0.843 0.01294 0.818 0.869 ## 258 663 1 0.842 0.01298 0.817 0.868 ## 259 664 1 0.843 0.01294 0.818 0.869 ## 250 664 1 0.843 0.01294 0.818 0.869 ## 250 664 1 0.843 0.01307 0.814 0.865 ## 256 662 1 0.838 0.01311 0.813 0.866 ## 256 661 2 0.838 0.01311 0.813 0.864 ## 257 664 1 0.830 0.01307 0.814 0.865 ## 258 662 1 0.829 0.01307 0.814 0.865 ## 259 664 1 0.830 0.01307 0.814 0.865 ## 261 657 1 0.820 0.01347 0.801 0.853 ## 261 657 1 0.820 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 279 647 2 0.818 0.01374 0.791 0.854 ## 286 643 3 0.815 0.01355 0.798 0.851 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 286 643 3 0.816 0.01374 0.791 0.844 ## 287 644 1 0.815 0.01381 0.799 0.852 ## 279 640 2 0.820 0.01366 0.794 0.847 ## 289 640 1 0.820 0.01378 0.790 0.844 ## 286 643 3 0.811 0.01399 0.782 0.833 ## 291 638 1 0.800 0.01400 0.779 0.834 ## 294 637 1 0.800 0.01400 0.779 0.834 ## 294 637 1 0.800 0.01402 0.774 0.832 ## 300 634 1 0.800 0.01402 0.774 0.832							
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## 216 687	##	208	690	1	0.872 0.01188		0.896
## 218 686 2 0.866 0.01212 0.842 0.890 ## 221 683 1 0.865 0.01217 0.841 0.889 ## 224 682 1 0.863 0.01222 0.840 0.888 ## 227 681 1 0.862 0.01227 0.838 0.868 ## 228 680 1 0.861 0.01231 0.837 0.885 ## 229 679 1 0.860 0.01236 0.836 0.834 ## 230 678 5 0.853 0.01259 0.829 0.878 ## 235 673 1 0.852 0.01264 0.828 0.877 ## 237 672 2 0.849 0.01273 0.825 0.875 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.866 ## 250 664 1 0.843 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 255 662 1 0.838 0.01311 0.813 0.864 ## 256 666 2 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 256 665 1 0.835 0.01311 0.813 0.864 ## 257 665 1 0.832 0.01331 0.806 0.858 ## 268 659 2 0.833 0.01327 0.807 0.859 ## 269 659 2 0.833 0.01327 0.807 0.859 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.836 0.01343 0.802 0.855 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.825 0.01351 0.799 0.852 ## 274 650 1 0.823 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 275 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 294 637 1 0.806 0.01406 0.779 0.844 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 304 632 1 0.800 0.01427 0.771 0.828	##	215	689	2	0.870 0.01198	0.847	0.893
## 221 683	##	216	687	1	0.868 0.01203	0.845	0.892
## 224 682 1 0.863 0.01222 0.840 0.888 ## 227 681 1 0.862 0.01227 0.838 0.886 ## 228 680 1 0.861 0.01231 0.837 0.885 ## 229 679 1 0.860 0.01236 0.836 0.836 ## 230 678 5 0.853 0.01259 0.829 0.878 ## 235 673 1 0.852 0.01264 0.828 0.877 ## 237 672 2 0.849 0.01273 0.825 0.875 ## 238 670 2 0.847 0.01281 0.822 0.872 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 250 664 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 250 666 1 0.838 0.01311 0.814 0.865 ## 255 662 1 0.838 0.01311 0.813 0.866 ## 256 661 2 0.835 0.01319 0.810 0.862 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.830 0.01335 0.805 0.857 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 271 652 1 0.824 0.01355 0.799 0.852 ## 279 647 2 0.816 0.01374 0.791 0.844 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 285 644 1 0.824 0.01355 0.799 0.854 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 286 643 3 0.811 0.01374 0.791 0.844 ## 286 643 3 0.811 0.01379 0.797 0.859 ## 279 647 2 0.816 0.01378 0.790 0.844 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 281 633 1 0.806 0.01406 0.779 0.834 ## 282 644 637 1 0.806 0.01406 0.779 0.834 ## 283 633 1 0.802 0.01413 0.777 0.832 ## 284 637 1 0.806 0.01406 0.779 0.834 ## 285 644 1 0.816 0.01378 0.790 0.844 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 291 633 1 0.806 0.01406 0.779 0.834 ## 291 633 1 0.806 0.01406 0.779 0.834 ## 292 636 636 2 0.804 0.01413 0.777 0.832 ## 303 633 1 0.800 0.01424 0.773 0.828	##	218	686	2	0.866 0.01212	0.842	0.890
## 227 681 1 0.862 0.01227 0.838 0.886 ## 228 680 1 0.861 0.01231 0.837 0.885 ## 229 679 1 0.860 0.01236 0.836 0.834 ## 230 678 5 0.853 0.01259 0.829 0.878 ## 235 673 1 0.852 0.01264 0.828 0.877 ## 237 672 2 0.849 0.01273 0.825 0.875 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.842 0.01294 0.818 0.869 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 250 666 1 0.838 0.01311 0.813 0.864 ## 250 666 1 0.838 0.01311 0.813 0.864 ## 250 666 1 0.838 0.01311 0.813 0.864 ## 250 665 1 0.838 0.01311 0.813 0.864 ## 250 665 1 0.838 0.01311 0.813 0.865 ## 250 665 1 0.838 0.01312 0.807 0.855 ## 261 655 1 0.832 0.01335 0.805 0.855 ## 262 656 1 0.830 0.01335 0.806 0.858 ## 271 652 1 0.825 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01347 0.801 0.853 ## 273 651 1 0.824 0.01355 0.799 0.852 ## 274 650 1 0.825 0.01351 0.799 0.852 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 286 643 3 0.811 0.01305 0.797 0.856 ## 286 644 1 0.826 0.01385 0.799 0.844 ## 287 649 2 0.820 0.01366 0.794 0.847 ## 288 644 1 0.815 0.01381 0.789 0.844 ## 289 645 1 0.816 0.01378 0.790 0.844 ## 289 640 2 0.800 0.01385 0.799 0.844 ## 289 640 2 0.800 0.01381 0.789 0.843 ## 289 640 2 0.800 0.01381 0.789 0.843 ## 290 640 2 0.800 0.01399 0.782 0.833 ## 291 638 1 0.806 0.01406 0.779 0.834 ## 292 636 2 0.804 0.01413 0.777 0.832 ## 303 633 1 0.800 0.01424 0.773 0.828	##	221	683	1	0.865 0.01217	0.841	0.889
## 228 680	##	224	682	1	0.863 0.01222	0.840	0.888
## 229 679 1 0.860 0.01236 0.836 0.884 ## 230 678 5 0.853 0.01259 0.829 0.878 ## 235 673 1 0.852 0.01264 0.828 0.877 ## 237 672 2 0.849 0.01273 0.825 0.875 ## 238 670 2 0.847 0.01281 0.822 0.872 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 252 663 1 0.839 0.01307 0.814 0.865 ## 255 662 1 0.838 0.01311 0.813 0.864 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.830 0.01335 0.805 0.857 ## 264 665 1 0.820 0.01335 0.805 0.857 ## 271 652 1 0.825 0.01343 0.802 0.855 ## 271 652 1 0.824 0.01355 0.799 0.852 ## 273 651 1 0.823 0.01355 0.799 0.852 ## 274 650 1 0.823 0.01355 0.799 0.852 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 285 644 1 0.815 0.01381 0.799 0.844 ## 286 643 3 0.811 0.01392 0.785 0.799 0.844 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 286 643 3 0.811 0.01392 0.785 0.893 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.806 0.01406 0.779 0.834 ## 294 637 1 0.806 0.01420 0.775 0.832 ## 296 636 1 0.800 0.01424 0.773 0.828 ## 303 633 1 0.800 0.01424 0.773 0.828	##	227	681	1	0.862 0.01227	0.838	0.886
## 230 678 5 0.853 0.01259 0.829 0.878 ## 235 673 1 0.852 0.01264 0.828 0.877 ## 237 672 2 0.849 0.01273 0.825 0.875 ## 238 670 2 0.844 0.01291 0.822 0.872 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 250 662 1 0.839 0.01307 0.814 0.865 ## 256 661 2 0.835 0.01311 0.813 0.864 ## 256 661 2 0.835 0.01311 0.813 0.862 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 262 656 1 0.830 0.01335 0.805 0.857 ## 263 655 2 0.828 0.01331 0.806 0.858 ## 264 653 1 0.827 0.01343 0.802 0.855 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.825 0.01351 0.799 0.852 ## 274 650 1 0.823 0.01355 0.798 0.851 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 285 644 1 0.816 0.01374 0.791 0.844 ## 286 643 3 0.811 0.01374 0.791 0.844 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.806 0.01403 0.789 0.844 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 304 632 1 0.802 0.01427 0.771 0.828	##	228	680	1	0.861 0.01231	0.837	0.885
## 235 673	##	229	679	1	0.860 0.01236	0.836	0.884
## 237 672 2 0.849 0.01273 0.825 0.875 ## 238 670 2 0.847 0.01281 0.822 0.872 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 252 663 1 0.839 0.01307 0.814 0.865 ## 255 662 1 0.838 0.01311 0.813 0.864 ## 256 661 2 0.835 0.01311 0.813 0.864 ## 256 661 2 0.835 0.01319 0.810 0.862 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.830 0.01335 0.805 0.857 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.823 0.01355 0.799 0.852 ## 274 650 1 0.823 0.01355 0.798 0.851 ## 275 649 2 0.838 0.01374 0.791 0.844 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.802 0.01413 0.777 0.832 ## 294 637 1 0.802 0.01413 0.777 0.832 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 296 636 1 0.802 0.01417 0.775 0.834 ## 296 636 1 0.802 0.01417 0.775 0.832 ## 303 633 1 0.801 0.01420 0.774 0.830	##	230	678	5	0.853 0.01259	0.829	0.878
## 238 670 2 0.847 0.01281 0.822 0.872 ## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 255 662 1 0.838 0.01311 0.813 0.864 ## 256 661 2 0.835 0.01311 0.813 0.864 ## 260 659 2 0.835 0.01319 0.810 0.862 ## 261 657 1 0.832 0.01331 0.806 0.858 ## 262 656 1 0.830 0.01335 0.805 0.857 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 271 652 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 274 650 1 0.823 0.01355 0.798 0.851 ## 275 649 2 0.838 0.01355 0.798 0.851 ## 276 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.806 0.01403 0.771 0.832 ## 294 637 1 0.802 0.01413 0.777 0.832 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.800 0.01424 0.773 0.828 ## 304 632 1 0.800 0.01424 0.773 0.828	##		673			0.828	0.877
## 245 668 2 0.844 0.01290 0.819 0.870 ## 246 666 1 0.843 0.01294 0.818 0.869 ## 248 665 1 0.842 0.01298 0.817 0.868 ## 250 664 1 0.841 0.01303 0.815 0.866 ## 252 663 1 0.839 0.01307 0.814 0.865 ## 255 662 1 0.838 0.01311 0.813 0.864 ## 256 661 2 0.835 0.01319 0.810 0.862 ## 260 659 2 0.833 0.01327 0.807 0.859 ## 261 657 1 0.832 0.01331 0.806 0.855 ## 262 656 1 0.830 0.01331 0.806 0.855 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.824 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01355 0.798 0.851 ## 279 647 2 0.818 0.01374 0.791 0.844 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.844 ## 286 643 3 0.811 0.01372 0.785 0.839 ## 286 643 3 0.811 0.01372 0.775 0.834 ## 289 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.800 0.01420 0.774 0.832 ## 300 634 1 0.802 0.01427 0.771 0.828 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828	##					0.825	0.875
### 246 666 1 0.843 0.01294 0.818 0.869 ### 248 665 1 0.842 0.01298 0.817 0.868 ### 250 664 1 0.841 0.01303 0.815 0.866 ### 252 663 1 0.839 0.01307 0.814 0.865 ### 255 662 1 0.838 0.01311 0.813 0.864 ### 256 661 2 0.835 0.01319 0.810 0.862 ### 260 659 2 0.833 0.01327 0.807 0.859 ### 261 657 1 0.832 0.01331 0.806 0.858 ### 262 656 1 0.830 0.01335 0.805 0.857 ### 263 655 2 0.828 0.01343 0.802 0.855 ### 264 653 1 0.827 0.01347 0.801 0.853 ### 271 652 1 0.825 0.01351 0.799 0.852 ### 273 651 1 0.824 0.01355 0.798 0.851 ### 274 650 1 0.823 0.01355 0.798 0.851 ### 279 647 2 0.818 0.01374 0.791 0.844 ### 280 645 1 0.816 0.01374 0.791 0.845 ### 286 643 3 0.811 0.01374 0.790 0.844 ### 286 643 3 0.811 0.01372 0.785 0.839 ### 286 643 3 0.811 0.01392 0.785 0.839 ### 290 640 2 0.809 0.01381 0.789 0.844 ### 291 638 1 0.808 0.01403 0.771 0.836 ### 300 634 1 0.802 0.01417 0.775 0.831 ### 300 634 1 0.802 0.01424 0.773 0.828 ### 304 632 1 0.800 0.01424 0.773 0.828	##		670				
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## 262 656 1 0.830 0.01335 0.805 0.857 ## 263 655 2 0.828 0.01343 0.802 0.855 ## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.824 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 276 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.808 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 295 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828							
## 263 655 2 0.828 0.01343 0.802 0.855 ## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.824 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 276 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.808 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827							
## 264 653 1 0.827 0.01347 0.801 0.853 ## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.824 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 276 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.808 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827							
## 271 652 1 0.825 0.01351 0.799 0.852 ## 273 651 1 0.824 0.01355 0.798 0.851 ## 274 650 1 0.823 0.01359 0.797 0.850 ## 276 649 2 0.820 0.01366 0.794 0.847 ## 279 647 2 0.818 0.01374 0.791 0.845 ## 280 645 1 0.816 0.01378 0.790 0.844 ## 285 644 1 0.815 0.01381 0.789 0.843 ## 286 643 3 0.811 0.01392 0.785 0.839 ## 290 640 2 0.809 0.01399 0.782 0.837 ## 291 638 1 0.808 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827							
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## 291 638 1 0.808 0.01403 0.781 0.836 ## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827							
## 294 637 1 0.806 0.01406 0.779 0.834 ## 296 636 2 0.804 0.01413 0.777 0.832 ## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827	##						
## 300 634 1 0.802 0.01417 0.775 0.831 ## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827	##				0.806 0.01406	0.779	
## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827	##	296			0.804 0.01413		
## 303 633 1 0.801 0.01420 0.774 0.830 ## 304 632 1 0.800 0.01424 0.773 0.828 ## 308 631 1 0.799 0.01427 0.771 0.827	##						
## 308 631 1 0.799 0.01427 0.771 0.827	##			1	0.801 0.01420		
	##	304	632		0.800 0.01424	0.773	0.828
## 313 630 1 0.797 0.01430 0.770 0.826	##	308	631		0.799 0.01427	0.771	0.827
	##	313	630	1	0.797 0.01430	0.770	0.826

	0.45	222	_			
##	315	629	2	0.795 0.01437	0.767	0.824
##	322	627	2	0.792 0.01444	0.765	0.821
##	325	625	1	0.791 0.01447	0.763	0.820
##	329	623	1	0.790 0.01450	0.762	0.819
##	330	622	2	0.787 0.01456	0.759	0.816
##	335	620	1	0.786 0.01460	0.758	0.815
##	336	619	2	0.783 0.01466	0.755	0.813
##	337	617	2	0.781 0.01472	0.753	0.810
##	341	615	1	0.780 0.01475	0.751	0.809
##	344	614	1	0.778 0.01478	0.750	0.808
##	348	613	2	0.776 0.01484	0.747	0.805
##	349	611	1	0.775 0.01487	0.746	0.804
##	352	610	1	0.773 0.01490	0.745	0.803
##	354	609	1	0.772 0.01493	0.743	0.802
##	356	607	1	0.771 0.01496	0.742	0.801
##	360	606	1	0.769 0.01499	0.741	0.799
##	362	605	1	0.768 0.01502	0.739	0.798
##	365	604	1	0.767 0.01505	0.738	0.797
##	366	603	1	0.766 0.01508	0.737	0.796
##	370	602	1	0.764 0.01511	0.735	0.795
##	372	601	1	0.763 0.01513	0.734	0.793
##	374	600	1	0.762 0.01516	0.733	0.792
##	378	599	1	0.761 0.01519	0.731	0.791
##	379	598	1	0.759 0.01522	0.730	0.790
##	380	597	1	0.758 0.01525	0.729	0.789
##	382	596	1	0.757 0.01527	0.727	0.787
##	384	595	1	0.755 0.01530	0.726	0.786
##	386	594	2	0.753 0.01535	0.723	0.784
##	389	592	1	0.752 0.01538	0.722	0.782
			1	0.750 0.01541	0.722	
##	392	591				0.781
##	393	590	1	0.749 0.01543	0.719	0.780
##	398	589	1	0.748 0.01546	0.718	0.779
##	401	588	1	0.747 0.01549	0.717	0.778
##	402	587	1	0.745 0.01551	0.716	0.776
##	406	586	1	0.744 0.01554	0.714	0.775
##	408	585	1	0.743 0.01556	0.713	0.774
##	411	584	1	0.741 0.01559	0.712	0.773
##	413	583	1	0.740 0.01561	0.710	0.771
##	415	582	1	0.739 0.01564	0.709	0.770
##	422	580	1	0.738 0.01566	0.708	0.769
##	429	579	1	0.736 0.01569	0.706	0.768
##	431	578	1	0.735 0.01571	0.705	0.767
##	433	577	1	0.734 0.01574	0.704	0.765
##	434	576	1	0.733 0.01576	0.702	0.764
##	435	575	1	0.731 0.01578	0.701	0.763
##	438	574	1	0.730 0.01581	0.700	0.762
##	440	573	1	0.729 0.01583	0.698	0.760
##	443	572	1	0.727 0.01585	0.697	0.759
##	448	571	1	0.726 0.01588	0.696	0.758
##	449	570	1	0.725 0.01588	0.694	0.757
##	449 454		2			
		568 566	1	0.722 0.01595	0.692	0.754
##	458	566 565		0.721 0.01597	0.690	0.753
##	461	565	1	0.720 0.01599	0.689	0.752
##	466	564	2	0.717 0.01604	0.687	0.749

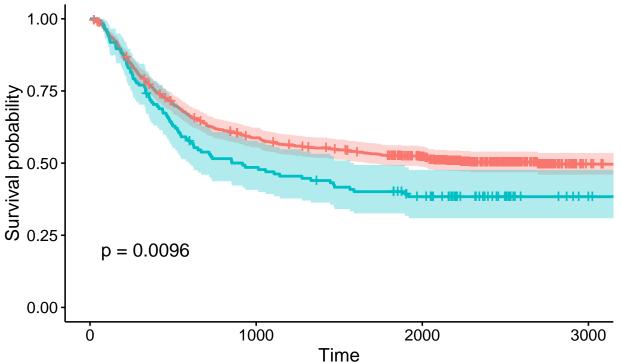
##	476	562	1	0.716 0.01606	0.685	0.748
##	482	561	1	0.715 0.01608	0.684	0.747
##	485	560	1	0.713 0.01610	0.683	0.746
##	489	557	1	0.712 0.01613	0.681	0.744
##	491	556	2	0.710 0.01617	0.679	0.742
##	493	554	1	0.708 0.01619	0.677	0.741
##	495	553	1	0.707 0.01621	0.676	0.740
##	496	552	1	0.706 0.01623	0.675	0.738
##	498	551	1	0.704 0.01625	0.673	0.737
##	499	550	1	0.703 0.01627	0.672	0.736
##	504	549	1	0.702 0.01630	0.671	0.735
##	505	548	1	0.701 0.01632	0.669	0.733
##	510	547	1	0.699 0.01634	0.668	0.732
##	511	546	1	0.698 0.01636	0.667	0.731
##	523	545	1	0.697 0.01638	0.665	0.730
##	525	544	1	0.696 0.01640	0.664	0.728
##	527	543	1	0.694 0.01642	0.663	0.727
##	532	542	1	0.693 0.01644	0.661	0.726
##	534	541	1	0.692 0.01646	0.660	0.725
##	536	540	1	0.690 0.01647	0.659	0.723
##	540	539	1	0.689 0.01649	0.658	0.722
##	543	538	2	0.687 0.01653	0.655	0.720
##	547	536	1	0.685 0.01655	0.654	0.718
##	554	535	2	0.683 0.01659	0.651	0.716
##	555	533	1	0.681 0.01661	0.650	0.715
##	560	532	1	0.680 0.01662	0.648	0.714
##	561	531	1	0.679 0.01664	0.647	0.712
##	565	530	1	0.678 0.01666	0.646	0.711
##	573	529	2	0.675 0.01669	0.643	0.709
##	578	527	2	0.672 0.01673	0.640	0.706
##	581	525	1	0.671 0.01675	0.639	0.705
##	583	524	1	0.670 0.01676	0.638	0.704
##	591	523	1	0.669 0.01678	0.637	0.702
##	593	522	2	0.666 0.01681	0.634	0.700
##	594	520	1	0.665 0.01683	0.633	0.699
##	599	519	1	0.663 0.01685	0.631	0.697
##	602	518	1	0.662 0.01686	0.630	0.696
##	604	517	1	0.661 0.01688	0.629	0.695
##	613	516	1	0.660 0.01689	0.627	0.694
##	615	515	1	0.658 0.01691	0.626	0.692
##	616	514	1	0.657 0.01693	0.625	0.691
##	617	513	1	0.656 0.01694	0.623	0.690
##	632	511	1	0.655 0.01696	0.622	0.689
##	636	510	1	0.653 0.01697	0.621	0.687
##	638	509	1	0.652 0.01699	0.620	0.686
##	653	508	1	0.651 0.01700	0.618	0.685
##	654	507	1	0.649 0.01702	0.617	0.684
##	657	506	1	0.648 0.01703	0.616	0.682
##	659	505	1	0.647 0.01705	0.614	0.681
##	663	504	2	0.644 0.01707	0.612	0.679
##	672	501	1	0.643 0.01709	0.610	0.677
##	675	500	1	0.642 0.01710	0.609	0.676
##	680	499	1	0.640 0.01712	0.608	0.675
##	683	498	1	0.639 0.01713	0.606	0.674

##	686	497	1	0.638 0.01714	0.605	0.672
##	697	496	1	0.637 0.01716	0.604	0.671
##	700	495	2	0.634 0.01718	0.601	0.669
##	701	493	1	0.633 0.01720	0.600	0.667
##	702	492	2	0.630 0.01722	0.597	0.665
##	711	490	1	0.629 0.01724	0.596	0.664
##	712	489	1	0.628 0.01725	0.595	0.662
##	730	488	1	0.626 0.01726	0.593	0.661
##	731	487	1	0.625 0.01727	0.592	0.660
##	739	486	1	0.624 0.01729	0.591	0.659
##	742	485	1	0.622 0.01730	0.589	0.657
##	748	484	1	0.621 0.01731	0.588	0.656
##	751	483	1	0.620 0.01732	0.587	0.655
##	752	482	1	0.619 0.01733	0.585	0.653
##	772	481	1	0.617 0.01735	0.584	0.652
##	774	480	1	0.616 0.01736	0.583	0.651
##	797	479	1	0.615 0.01737	0.582	0.650
##	803	478	1	0.613 0.01738	0.580	0.648
##	805	477	1	0.612 0.01739	0.579	0.647
##	827	476	1	0.611 0.01740	0.578	0.646
##	828	475	1	0.610 0.01741	0.576	0.645
##	835	474	1	0.608 0.01742	0.575	0.643
##	849	471	1	0.607 0.01743	0.574	0.642
##	855	470	1	0.606 0.01744	0.572	0.641
##	871	469	1	0.604 0.01746	0.571	0.640
##	883	468	1	0.603 0.01747	0.570	0.638
##	891	465	1	0.602 0.01748	0.568	0.637
##	900	464	1	0.600 0.01749	0.567	0.636
##	904	463	1	0.599 0.01750	0.566	0.634
##	912	462	1	0.598 0.01751	0.565	0.633
##	922	461	1	0.597 0.01752	0.563	0.632
##	930	460	1	0.595 0.01753	0.562	0.631
##	931	459	1	0.594 0.01754	0.561	0.629
##	936	458	1	0.593 0.01755	0.559	0.628
##	959	456	1	0.591 0.01756	0.558	0.627
##	960	455	1	0.590 0.01757	0.557	0.626
##	968	454	1	0.589 0.01757	0.555	0.624
##	975	453	1	0.588 0.01758	0.554	0.623
## ##	1020 1024	452 451	1 1	0.586 0.01759 0.585 0.01760	0.553 0.551	0.622 0.620
##	1024	451 450	1	0.584 0.01761	0.550	0.620
##	1025	449	1	0.582 0.01762	0.549	0.618
##	1020	448	1	0.581 0.01763	0.547	0.617
##	1023	447	1	0.580 0.01764	0.546	0.615
##	1037	446	1	0.578 0.01764	0.545	0.614
##	1042	445	1	0.577 0.01765	0.544	0.613
##	1052	444	1	0.576 0.01766	0.542	0.611
##	1057	443	1	0.575 0.01767	0.541	0.610
##	1081	442	1	0.573 0.01768	0.540	0.609
##	1089	441	1	0.572 0.01768	0.538	0.608
##	1106	439	1	0.571 0.01769	0.537	0.606
##	1114	438	1	0.569 0.01770	0.536	0.605
##	1122	437	1	0.568 0.01771	0.534	0.604
##	1130	436	1	0.567 0.01771	0.533	0.603

##	1139	435	1	0.565	0.01772		0.532		0.601
##	1159	434	1	0.564	0.01773		0.530		0.600
##	1183	433	1	0.563	0.01773		0.529		0.599
##	1211	431	1	0.561	0.01774		0.528		0.597
##	1233	430	1	0.560	0.01775		0.526		0.596
##	1236	429	1	0.559	0.01776		0.525		0.595
##	1274	428	1	0.558	0.01776		0.524		0.593
##	1277	427	1	0.556	0.01777		0.523		0.592
##	1298	425	1		0.01777		0.521		0.591
##	1323	423	1		0.01778		0.520		0.590
##	1353	422	1		0.01779		0.519		0.588
##	1432	420	1	0.551	0.01779		0.517		0.587
##	1436	419	1	0.550	0.01780		0.516		0.586
##	1455	418	1	0.548	0.01780		0.515		0.584
##	1475	416	1	0.547	0.01781		0.513		0.583
##	1488	415	1	0.546	0.01782		0.512		0.582
##	1535	414	1	0.544	0.01782		0.511		0.581
##	1539	412	1		0.01783		0.509		0.579
##	1551	409	1	0.542	0.01783		0.508		0.578
##	1561	408	1	0.540	0.01784		0.507		0.577
##	1606	407	2	0.538	0.01785		0.504		0.574
##	1644	404	1	0.536	0.01786		0.503		0.573
##	1647	403	1	0.535	0.01786		0.501		0.571
##	1668	402	1	0.534	0.01787		0.500		0.570
##	1687	401	1	0.532	0.01787		0.499		0.569
##	1723	400	1	0.531	0.01788		0.497		0.567
##	1743	399	1	0.530	0.01788		0.496		0.566
##	1749	398	1		0.01789		0.495		0.565
##	1759	397	1	0.527	0.01789		0.493		0.563
##	1786	396	1		0.01789		0.492		0.562
##	1876	376	1		0.01790		0.490		0.561
##	1976	363	1		0.01791		0.489		0.559
##	1981	359	1		0.01792		0.488		0.558
##	2012	347	1		0.01793		0.486		0.556
##	2018	346	1		0.01794		0.485		0.555
##	2028	342	1		0.01795		0.483		0.553
##	2031	339	1		0.01796		0.481		0.552
##	2035	338	1		0.01798		0.480		0.550
##	2036	337	1		0.01799		0.478		0.549
##	2067	329	1		0.01800		0.477		0.547
##	2074	326	1		0.01801		0.475		0.546
##	2148	290	1		0.01804		0.473		0.544
##	2231	236	1		0.01809		0.471		0.542
##	2288	208	1		0.01816		0.469		0.540
##	2695	76	1	0.496	0.01909		0.460		0.535
##									
##				re=adhere	_	_			
##				survival		lower		upper	
##	36	135	1		0.00738		0.978		1.000
##	68	134	1		0.01040		0.965		1.000
##	80	133	1		0.01269		0.953		1.000
##	86	132	1		0.01459		0.942		0.999
##	88	131	1		0.01625		0.932		0.995
##	101	130	1	0.956	0.01774		0.921		0.991

##	105	129	1		0.01908	0.911	
##	109	128	1	0.941	0.02032	0.902	0.981
##	116	127	1	0.933	0.02147	0.892	0.976
##	118	126	1	0.926	0.02254	0.883	0.971
##	121	125	1	0.919	0.02355	0.874	0.966
##	154	124	2	0.904	0.02539	0.855	0.955
##	157	122	1		0.02624	0.846	
##	185	121	1		0.02705	0.837	
##	189	120	1		0.02782	0.829	
##	198	119	1		0.02855	0.820	
##	204	118	1		0.02926	0.811	
##	204	117	1		0.02993	0.803	
##	218	116	1		0.03057	0.794	
##	219	115	1		0.03119	0.785	
##	223	114	1		0.03179	0.777	
##	229	113	1		0.03236	0.769	
##	242	112	1		0.03291	0.760	
##	243	111	1		0.03343	0.752	
##	253	110	1	0.807	0.03394	0.744	0.877
##	257	109	1	0.800	0.03443	0.735	0.870
##	258	108	1	0.793	0.03490	0.727	0.864
##	271	107	1	0.785	0.03535	0.719	0.858
##	279	106	1	0.778	0.03578	0.711	0.851
##	294	105	1	0.770	0.03620	0.703	0.845
##	328	104	1	0.763	0.03660	0.694	0.838
##	333	103	1	0.756	0.03699	0.686	
##	334	102	1	0.748	0.03736	0.678	
##	337	101	1		0.03772	0.670	
##	352	99	1		0.03807	0.662	
##	356	98	1		0.03841	0.654	
##	360	97	1		0.03874	0.646	
##	369	96	1		0.03905	0.638	
##	380	95	1		0.03935	0.630	
##	405	94	1		0.03963	0.622	
##	415	93	1		0.03991	0.614	
##	437	92	1		0.04017	0.607	
##	439	91	1		0.04042	0.599	
##	458	90	1		0.04066	0.591	
##	465	89	1		0.04088	0.583	
##	474	88	1		0.04110	0.575	
##	480	87	1		0.04130	0.567	
##	490	86	1		0.04149	0.560	
##	497	85	1	0.629	0.04167	0.552	
##	513	84	1	0.621	0.04184	0.544	0.709
##	526	83	1	0.614	0.04200	0.537	0.702
##	532	82	1	0.606	0.04215	0.529	0.695
##	542	81	1	0.599	0.04229	0.521	0.687
##	548	80	1	0.591	0.04242	0.514	0.680
##	577	79	1	0.584	0.04254	0.506	0.673
##	593	78	1		0.04264	0.498	
##	608	76	1		0.04275	0.491	
##	622	75	1		0.04285	0.483	
##	625	74	1		0.04293	0.475	
##	649	73	1		0.04301	0.468	
	2 -0		-			0.100	3.001

```
##
     668
              72
                        1
                             0.538 0.04308
                                                     0.460
                                                                   0.630
##
     717
              71
                        1
                             0.531 0.04313
                                                     0.453
                                                                   0.622
##
     726
              70
                             0.523 0.04318
                                                     0.445
                                                                   0.615
##
     735
              69
                        1
                             0.515 0.04321
                                                     0.437
                                                                   0.608
##
     851
              68
                        1
                             0.508 0.04323
                                                     0.430
                                                                   0.600
##
     853
                        1
                             0.500 0.04325
                                                     0.422
              67
                                                                   0.593
##
     918
                        1
                             0.493 0.04325
                                                     0.415
                                                                   0.585
              66
                                                     0.407
##
     934
              65
                        1
                             0.485 0.04325
                                                                   0.578
##
    1013
              64
                        1
                             0.478 0.04323
                                                     0.400
                                                                   0.570
    1057
##
              63
                        1
                             0.470 0.04320
                                                     0.393
                                                                   0.563
##
    1108
              62
                        1
                             0.462 0.04317
                                                     0.385
                                                                   0.555
    1142
                        1
                             0.455 0.04312
                                                     0.378
                                                                   0.548
##
              61
    1275
                             0.447 0.04306
##
              60
                        1
                                                     0.370
                                                                   0.540
    1329
                             0.440 0.04299
##
              59
                        1
                                                     0.363
                                                                   0.533
##
    1446
              57
                             0.432 0.04293
                                                     0.356
                                                                   0.525
                        1
##
    1466
              56
                             0.424 0.04285
                                                     0.348
                                                                   0.517
##
    1471
              55
                             0.417 0.04276
                                                                   0.509
                        1
                                                     0.341
##
    1564
              54
                        1
                             0.409 0.04266
                                                     0.333
                                                                   0.502
              53
##
    1589
                             0.401 0.04254
                                                     0.326
                                                                   0.494
                        1
##
    1895
              47
                        1
                             0.393 0.04248
                                                     0.318
                                                                   0.485
##
    1918
              44
                        1
                             0.384 0.04245
                                                     0.309
                                                                   0.477
ggsurvplot(km_fit, data = colon_subset_recurrence, pval = TRUE, conf.int = TRUE)
                                        adhere=no adhere
                             Strata -
                                                               adhere=adhere
```



Call: survfit(formula = surv ~ 1 + adhere + obstruct, data = colon_subset_recurrence)
##

km_fit <- survfit(surv~1 + adhere + obstruct, data=colon_subset_recurrence)

summary(km fit)

##			adhe	re=no adhe	ara d	het	ruct=r	no obsti	nict	
##	time	n risk		survival						95% CT
##	8	642	1	0.998			TOWCI	0.995	upper	1.000
##	28	640	1	0.997				0.993		1.000
##	38	639	1	0.995				0.990		1.000
##	43	638	1	0.994				0.988		1.000
##	45	637	1	0.992				0.985		0.999
##	49	636	1	0.991				0.983		0.998
##	62	635	2	0.988				0.979		0.996
##	63	633	1	0.986				0.977		0.995
##	72	632	2	0.983				0.973		0.993
##	77	630	1	0.981				0.971		0.992
##	78	629	1	0.980				0.969		0.991
##	79	628	1	0.978				0.967		0.990
##	80	627	1	0.977				0.965		0.988
##	85	626	2	0.973	0.006	35		0.961		0.986
##	86	624	1	0.972	0.006	552		0.959		0.985
##	91	623	2	0.969	0.006	887		0.955		0.982
##	94	621	1	0.967	0.007	703		0.954		0.981
##	98	620	2	0.964	0.007	' 35		0.950		0.979
##	100	618	1	0.963	0.007	' 50		0.948		0.977
##	102	617	1	0.961	0.007	' 65		0.946		0.976
##	106	616	1	0.959	0.007	779		0.944		0.975
##	108	615	1	0.958				0.942		0.974
##	113	614	3	0.953				0.937		0.970
##	116	611	1	0.952				0.935		0.968
##	119	610	1	0.950				0.933		0.967
##	122	609	1	0.949				0.932		0.966
##	127	608	1	0.947				0.930		0.964
##	131	607	1	0.945				0.928		0.963
##	132	606	1	0.944				0.926		0.962
##	136	605	1	0.942				0.924		0.961
## ##	139 141	604 603	1 1	0.941 0.939				0.923 0.921		0.959 0.958
##	143	602	1	0.939				0.921		0.957
##	145	601	1	0.936				0.919		0.955
##	146	600	2	0.933				0.914		0.952
##	147	598	1	0.931				0.912		0.951
##	157	597	1	0.930				0.910		0.950
##	161	596	1	0.928				0.908		0.948
##	165	595	3	0.924				0.903		0.944
##	166	592	1	0.922				0.901		0.943
##	167	591	1	0.920	0.010	69		0.900		0.942
##	169	590	1	0.919	0.010	78		0.898		0.940
##	173	589	3	0.914	0.011	.06		0.893		0.936
##	174	586	2	0.911	0.011	24		0.889		0.933
##	176	584	2	0.908	0.011	42		0.886		0.931
##	179	582	1	0.906				0.884		0.929
##	181	581	1	0.905				0.882		0.928
##	183	580	2	0.902				0.879		0.925
##	185	578	2	0.899				0.876		0.922
##	186	576	1	0.897				0.874		0.921
##	189	575	1	0.895				0.872		0.919
##	191	574	2	0.892	0.012	224		0.869		0.917

##	196	572	1	0.891	0.01232	0.867	0.915
##	201	571	1	0.889	0.01240	0.865	0.914
##	203	570	1	0.888	0.01247	0.864	0.912
##	205	569	1	0.886	0.01255	0.862	0.911
##	208	568	1	0.885	0.01262	0.860	0.910
##	215	567	2		0.01277	0.857	
##	216	565	1		0.01284	0.855	
##	221	563	1		0.01291	0.853	
##	224	562	1		0.01298	0.852	
##	227	561	1		0.01305	0.850	
##	229	560	1		0.01312	0.848	
##	230	559	3		0.01333	0.843	
##	235	55 <i>6</i>	1		0.01333	0.843	
##	237		2				
		555			0.01353	0.838	
##	238	553	1		0.01360	0.836	
##	246	552	1		0.01366	0.835	0.888
##	248	551	1		0.01373	0.833	
##	250	550	1		0.01379	0.831	0.885
##	252	549	1		0.01385	0.830	
##	256	548	2		0.01398	0.826	0.881
##	260	546	1		0.01404	0.825	0.880
##	261	545	1		0.01410	0.823	
##	262	544	1	0.849	0.01416	0.821	0.877
##	263	543	2	0.845	0.01428	0.818	0.874
##	264	541	1	0.844	0.01434	0.816	0.873
##	273	540	1	0.842	0.01440	0.815	0.871
##	274	539	1	0.841	0.01445	0.813	0.870
##	276	538	1	0.839	0.01451	0.811	0.868
##	279	537	1	0.838	0.01457	0.810	0.867
##	285	536	1	0.836	0.01462	0.808	0.865
##	286	535	2	0.833	0.01474	0.805	0.862
##	290	533	1	0.831	0.01479	0.803	0.861
##	291	532	1	0.830	0.01485	0.801	0.859
##	294	531	1	0.828	0.01490	0.800	0.858
##	296	530	2	0.825	0.01501	0.796	0.855
##	303	528	1	0.824	0.01506	0.795	0.854
##	304	527	1	0.822	0.01511	0.793	0.852
##	308	526	1	0.820	0.01516	0.791	0.851
##	313	525	1	0.819	0.01521	0.790	0.849
##	315	524	2		0.01532	0.786	
##	322	522	2		0.01542	0.783	
##	325	520	1		0.01547	0.781	0.842
##	329	519	1		0.01551	0.780	
##	330	518	2		0.01561	0.776	
##	336	516	2		0.01571	0.773	
##	337	514	1		0.01575	0.771	0.833
##	341	513	1		0.01580	0.770	
##	344	512	1		0.01585	0.768	
##	348	511	2		0.01594	0.765	
##	349	509	1		0.01598	0.763	
##	352	508	1		0.01603	0.763	
##	356	506	1		0.01607	0.762	
##	360	505	1		0.01612	0.758	
##	362	504	1		0.01612	0.757	
##	302	504	T	0.100	0.01010	0.757	0.020

##	365	503	1	0.786 0.01620	0.755	0.819
##	370	502	1	0.785 0.01625	0.753	0.817
##	372	501	1	0.783 0.01629	0.752	0.816
##	374	500	1	0.781 0.01633	0.750	0.814
##	378	499	1	0.780 0.01637	0.748	0.813
##	379	498	1	0.778 0.01642	0.747	0.811
##	380	497	1	0.777 0.01646	0.745	0.810
##	384	496	1	0.775 0.01650	0.743	0.808
##	386	495	1	0.774 0.01654	0.742	0.807
##	392	494	1	0.772 0.01658	0.740	0.805
##	393	493	1	0.770 0.01662	0.739	0.804
##	398	492	1	0.769 0.01666	0.737	0.802
##	401	491	1	0.767 0.01670	0.735	0.801
##	402	490	1	0.766 0.01674	0.734	0.799
##	406	489	1	0.764 0.01678	0.732	0.798
##	408	488	1	0.763 0.01682	0.730	0.796
##	415	487	1	0.761 0.01685	0.729	0.795
##	429	485	1	0.759 0.01689	0.727	0.793
##	431	484	1	0.758 0.01693	0.725	0.792
##	433	483	1	0.756 0.01697	0.724	0.790
##	434	482	1	0.755 0.01701	0.722	0.789
##	435	481	1	0.753 0.01704	0.721	0.787
##	438	480	1	0.752 0.01708	0.719	0.786
##	440	479	1	0.750 0.01712	0.717	0.784
##	443	478	1	0.748 0.01715	0.716	0.783
##	448	477	1	0.747 0.01719	0.714	0.781
##	454	475	2	0.744 0.01726	0.711	0.778
##	458	473	1	0.742 0.01729	0.709	0.777
##	461	472	1	0.741 0.01733	0.707	0.775
##	466	471	2	0.737 0.01740	0.704	0.772
##	482	469	1	0.736 0.01743	0.703	0.771
##	485	468	1	0.734 0.01746	0.701	0.769
##	491	466	2	0.731 0.01753	0.698	0.766
##	495	464	1	0.730 0.01756	0.696	0.765
##	496	463	1	0.728 0.01760	0.694	0.763
##	498	462	1	0.726 0.01763	0.693	0.762
##	499	461	1	0.725 0.01766	0.691	0.760
##	505	460	1	0.723 0.01769	0.689	0.759
##	510	459	1	0.722 0.01772	0.688	0.757
##	511	458	1	0.720 0.01775	0.686	0.756
##	523	457	1	0.719 0.01779	0.685	0.754
##	525	456	1	0.717 0.01782	0.683	0.753
##	532	455	1	0.715 0.01785	0.681	0.751
##	534	454	1	0.714 0.01788	0.680	0.750
##	536	453	1	0.712 0.01791	0.678	0.748
##	540	452	1	0.711 0.01794	0.676	0.747
##	543	451	2	0.708 0.01799	0.673	0.744
##	547 554	449	1	0.706 0.01802	0.672	0.742
##	554	448	1	0.704 0.01805	0.670	0.741
##	555	447	1	0.703 0.01808	0.668	0.739
##	560	446	1	0.701 0.01811	0.667	0.738
##	565	445	1	0.700 0.01814	0.665	0.736
##	573 570	444	2	0.697 0.01819	0.662	0.733
##	578	442	2	0.693 0.01824	0.659	0.730

##	583	440	1	0.692 0.01827	0.657	0.729
##	591	439	1	0.690 0.01830	0.655	0.727
##	593	438	2	0.687 0.01835	0.652	0.724
##	594	436	1	0.685 0.01837	0.650	0.722
##	599	435	1	0.684 0.01840	0.649	0.721
##	602	434	1	0.682 0.01842	0.647	0.719
##	613	433	1	0.681 0.01845	0.646	0.718
##	615	432	1	0.679 0.01847	0.644	0.716
##	616	431	1	0.678 0.01850	0.642	0.715
##	617	430	1	0.676 0.01852	0.641	0.713
##	632	428	1	0.674 0.01855	0.639	0.712
##	636	427	1	0.673 0.01857	0.637	0.710
##	638	426	1	0.671 0.01859	0.636	0.709
##	654	425	1	0.670 0.01862	0.634	0.707
##	657	424	1	0.668 0.01864	0.633	0.706
##	659	423	1	0.667 0.01866	0.631	0.704
##	663	422	2	0.663 0.01871	0.628	0.701
##	672	419	1	0.662 0.01873	0.626	0.700
##	675	418	1	0.660 0.01875	0.624	0.698
##	680	417	1	0.659 0.01877	0.623	0.696
##	683	416	1	0.657 0.01879	0.621	0.695
##	686	415	1	0.655 0.01882	0.620	0.693
##	697	414	1	0.654 0.01884	0.618	0.692
##	700	413	2	0.651 0.01888	0.615	0.689
##	701	411	1	0.649 0.01890	0.613	0.687
##	702	410	2	0.646 0.01894	0.610	0.684
##	711	408	1	0.644 0.01896	0.608	0.683
##	712	407	1	0.643 0.01898	0.607	0.681
##	730	406	1	0.641 0.01900	0.605	0.680
##	731	405	1	0.640 0.01902	0.603	0.678
##	739	404	1	0.638 0.01903	0.602	0.676
##	742	403	1	0.636 0.01905	0.600	0.675
##	748	402	1	0.635 0.01907	0.599	0.673
##	751	401	1	0.633 0.01909	0.597	0.672
##	752	400	1	0.632 0.01911	0.595	0.670
##	774	399	1	0.630 0.01912	0.594	0.669
##	803	398	1	0.629 0.01914	0.592	0.667
##	805	397 306	1 1	0.627 0.01916	0.591	0.666 0.664
## ##	827 835	396 395	1	0.625 0.01918 0.624 0.01919	0.589 0.587	0.663
##	849	393 392	1	0.624 0.01919	0.586	0.661
##	855	391	1	0.621 0.01923	0.584	0.659
##	883	390	1	0.619 0.01924	0.582	0.658
##	891	387	1	0.617 0.01926	0.581	0.656
##	900	386	1	0.616 0.01928	0.579	0.655
##	904	385	1	0.614 0.01929	0.578	0.653
##	922	384	1	0.613 0.01931	0.576	0.652
##	930	383	1	0.611 0.01932	0.574	0.650
##	931	382	1	0.609 0.01934	0.573	0.649
##	936	381	1	0.608 0.01935	0.571	0.647
##	959	379	1	0.606 0.01937	0.569	0.645
##	968	378	1	0.605 0.01938	0.568	0.644
##	975	377	1	0.603 0.01940	0.566	0.642
##	1020	376	1	0.601 0.01941	0.565	0.641

##	1024	375	1	0.600	0.01943	0.563	0.639
##	1025	374	1	0.598	0.01944	0.561	0.638
##	1029	373	1	0.597	0.01946	0.560	0.636
##	1032	372	1		0.01947	0.558	0.634
##	1037	371	1	0.593	0.01948	0.556	0.633
##	1042	370	1		0.01950	0.555	0.631
##	1052	369	1		0.01951	0.553	0.630
##	1057	368	1		0.01952	0.552	0.628
##	1081	367	1	0.587	0.01954	0.550	0.627
##	1089	366	1		0.01955	0.548	0.625
##	1106	364	1		0.01956	0.547	0.623
##	1114	363	1		0.01957	0.545	0.622
##	1122	362	1		0.01958	0.543	0.620
##	1130	361	1		0.01960	0.542	0.619
##	1139	360	1		0.01961	0.540	0.617
##	1159	359	1		0.01962	0.539	0.616
##	1183	358	1		0.01963	0.537	0.614
##	1233	356	1		0.01964	0.535	0.612
##	1236	355	1		0.01965	0.534	0.611
##	1274	354	1		0.01966	0.532	0.609
##	1277	353	1		0.01967	0.530	0.608
##	1298	351	1		0.01968	0.529	0.606
##	1323	349	1		0.01969	0.527	0.604
##	1353	348	1		0.01970	0.525	0.603
##	1432	346	1		0.01971	0.524	0.601
##	1436	345	1		0.01972	0.522	0.600
##	1455	344	1		0.01973	0.521	0.598
##	1475	342	1		0.01974	0.519	0.596
##	1488	341	1		0.01975	0.517	0.595
##	1535	340	1		0.01976	0.516	0.593
##	1539	338	1		0.01977	0.514	0.592
##	1551	335	1		0.01978	0.512	0.590
##	1561	334	1		0.01979	0.511	0.588
##	1606	333	2		0.01981	0.507	0.585
##	1644	331	1		0.01981	0.506	0.583
##	1647	330	1		0.01982	0.504	0.582
##	1668	329	1		0.01983	0.502	0.580
##	1687	328	1		0.01984	0.501	0.579
##	1723	327	1		0.01985	0.499	0.577
##	1749	326	1		0.01985	0.497	0.575
##	1759	325	1		0.01986	0.496	0.574
##	1786	324	1		0.01987	0.494	0.572
##	1976	298	1		0.01988	0.492	0.570
##	1981	295	1		0.01989	0.490	0.569
##	2028	283	1		0.01991	0.489	0.567
##	2035	280	1		0.01993	0.487	0.565
##	2067	272	1		0.01995	0.485	0.563
##	2074	270	1		0.01997	0.483	0.561
##	2148	245	1		0.02000	0.481	0.559
##	2288	179	1		0.02010	0.478	0.556
##	2695	63	1	0.507	0.02138	0.467	0.551
##							

adhere=no adhere, obstruct=obstruct
time n.risk n.event survival std.err lower 95% CI upper 95% CI

##	9	152	1		0.00656	0.981	1.000
##	19	151	1	0.987	0.00924	0.969	1.000
##	20	150	1	0.980	0.01128	0.958	1.000
##	35	148	1	0.974	0.01301	0.948	0.999
##	40	147	1	0.967	0.01451	0.939	0.996
##	59	144	1	0.960	0.01588	0.930	0.992
##	77	143	1	0.954	0.01713	0.921	0.988
##	80	142	1		0.01828	0.912	0.983
##	98	141	1	0.940	0.01935	0.903	0.979
##	99	140	2	0.927	0.02127	0.886	0.969
##	101	138	1	0.920	0.02215	0.878	0.964
##	103	137	1	0.913	0.02299	0.869	0.959
##	111	136	1	0.907	0.02378	0.861	0.954
##	116	135	1	0.900	0.02453	0.853	0.949
##	121	134	1	0.893	0.02525	0.845	0.944
##	134	133	1	0.886	0.02594	0.837	0.939
##	157	132	1	0.880	0.02660	0.829	0.933
##	160	131	1	0.873	0.02723	0.821	0.928
##	161	130	1	0.866	0.02784	0.813	0.923
##	168	129	1	0.860	0.02842	0.806	0.917
##	174	128	1	0.853	0.02898	0.798	0.912
##	175	127	1	0.846	0.02952	0.790	0.906
##	185	126	2	0.833	0.03054	0.775	0.895
##	188	124	1	0.826	0.03102	0.767	0.889
##	199	123	1	0.819	0.03149	0.760	0.883
##	218	122	2	0.806	0.03237	0.745	0.872
##	228	120	1	0.799	0.03279	0.737	0.866
##	230	119	2	0.786	0.03359	0.723	0.854
##	238	117	1	0.779	0.03397	0.715	0.848
##	245	116	2	0.766	0.03468	0.701	0.837
##	255	114	1	0.759	0.03502	0.693	0.831
##	260	113	1	0.752	0.03535	0.686	0.825
##	271	112	1	0.745	0.03567	0.679	0.819
##	276	111	1	0.739	0.03597	0.671	0.813
##	279	110	1	0.732	0.03627	0.664	0.807
##	280	109	1	0.725	0.03655	0.657	0.801
##	286	108	1		0.03682	0.650	0.794
##	290	107	1		0.03709	0.643	0.788
##	300	106	1		0.03734	0.636	0.782
##	335	104	1		0.03759	0.628	0.776
##	337	103	1		0.03783	0.621	0.770
##	354	102	1		0.03807	0.614	0.764
##	366	101	1		0.03829	0.607	0.757
##	382	100	1		0.03850	0.600	0.751
##	386	99	1		0.03870	0.593	0.745
##	389	98	1		0.03890	0.586	0.738
##	411	97	1		0.03908	0.579	0.732
##	413	96	1		0.03926	0.572	0.726
##	422	95	1		0.03943	0.565	0.719
##	449	94	1		0.03959	0.558	0.713
##	476	93	1		0.03974	0.551	0.707
##	489	91	1		0.03989	0.543	0.700
##	493	90	1		0.04003	0.536	0.694
##	504	89	1	0.603	0.04016	0.529	0.687

##	527	88	1	0.596	0.04029	0.522	0.681
##	554	87	1	0.589	0.04040	0.515	0.674
##	561	86	1	0.583	0.04051	0.508	0.668
##	581	85	1		0.04061	0.501	0.661
##	604	84	1	0.569	0.04070	0.494	0.655
##	653	83	1	0.562	0.04078	0.488	0.648
##	772	82	1	0.555	0.04086	0.481	0.641
##	797	81	1	0.548	0.04092	0.474	0.635
##	828	80	1	0.542	0.04098	0.467	0.628
##	871	79	1	0.535	0.04103	0.460	0.621
##	912	78	1	0.528	0.04108	0.453	0.615
##	960	77	1	0.521	0.04111	0.446	0.608
##	1026	76	1	0.514	0.04114	0.439	0.601
##	1211	75	1	0.507	0.04115	0.433	0.595
##	1743	73	1	0.500	0.04117	0.426	0.588
##	1876	68	1	0.493	0.04122	0.418	0.581
##	2012	61	1	0.485	0.04133	0.410	0.573
##	2018	60	1	0.477	0.04142	0.402	0.565
##	2031	59	1	0.469	0.04150	0.394	0.558
##	2036	58	1	0.461	0.04156	0.386	0.550
##	2231	36	1	0.448	0.04233	0.372	0.539
##							
##			adhe	re=adhere,	, obstru	ct=no obstruct	5
##	time	n.risk	${\tt n.event}$	${\tt survival}$	${\tt std.err}$	lower 95% CI	upper 95% CI
##	80	107	1	0.991	0.0093	0.973	1.000
##	86	106	1	0.981	0.0131	0.956	1.000
##	88	105	1	0.972	0.0160	0.941	1.000
##	101	104	1	0.963	0.0183	0.927	0.999
##	105	103	1	0.953	0.0204	0.914	0.994
##	116	102	1	0.944	0.0222	0.901	0.989
##	118	101	1	0.935	0.0239	0.889	0.983
##	121	100	1	0.925	0.0254	0.877	0.976
##	154	99	1	0.916	0.0268	0.865	0.970
##	157	98	1	0.907	0.0281	0.853	0.963
##	189	97	1	0.897	0.0294	0.841	0.957
##	198	96	1	0.888	0.0305	0.830	0.950
##	204	95	1	0.879	0.0316	0.819	0.943
##	208	94	1	0.869	0.0326	0.808	0.935
##	218	93	1	0.860	0.0336	0.796	0.928
##	219	92	1	0.850	0.0345	0.786	0.921
##	229	91	1	0.841	0.0353	0.775	0.913
##	242	90	1	0.832	0.0362	0.764	0.906
##	243	89	1	0.822	0.0369	0.753	0.898
##							
##	253	88	1	0.813	0.0377	0.742	0.890
##	257	87	1	0.804	0.0384	0.732	0.890 0.883
	257 271	87 86	1 1	0.804 0.794	0.0384 0.0391	0.732 0.721	0.883 0.875
##	257 271 279	87 86 85	1 1 1	0.804 0.794 0.785	0.0384 0.0391 0.0397	0.732 0.721 0.711	0.883 0.875 0.867
## ##	257 271 279 294	87 86 85 84	1 1 1 1	0.804 0.794 0.785 0.776	0.0384 0.0391	0.732 0.721 0.711 0.701	0.883 0.875 0.867 0.859
## ##	257 271 279 294 328	87 86 85 84 83	1 1 1 1	0.804 0.794 0.785 0.776 0.766	0.0384 0.0391 0.0397 0.0403 0.0409	0.732 0.721 0.711 0.701 0.690	0.883 0.875 0.867 0.859 0.851
## ## ##	257 271 279 294 328 334	87 86 85 84 83	1 1 1 1 1	0.804 0.794 0.785 0.776 0.766 0.757	0.0384 0.0391 0.0397 0.0403 0.0409 0.0415	0.732 0.721 0.711 0.701 0.690 0.680	0.883 0.875 0.867 0.859 0.851 0.843
## ## ## ##	257 271 279 294 328 334 337	87 86 85 84 83 82	1 1 1 1 1 1	0.804 0.794 0.785 0.776 0.766 0.757	0.0384 0.0391 0.0397 0.0403 0.0409 0.0415 0.0420	0.732 0.721 0.711 0.701 0.690 0.680 0.670	0.883 0.875 0.867 0.859 0.851 0.843 0.835
## ## ## ##	257 271 279 294 328 334 337 356	87 86 85 84 83 82 81 79	1 1 1 1 1 1 1	0.804 0.794 0.785 0.776 0.766 0.757 0.748 0.738	0.0384 0.0391 0.0397 0.0403 0.0409 0.0415 0.0420	0.732 0.721 0.711 0.701 0.690 0.680 0.670 0.659	0.883 0.875 0.867 0.859 0.851 0.843 0.835
## ## ## ##	257 271 279 294 328 334 337	87 86 85 84 83 82	1 1 1 1 1 1	0.804 0.794 0.785 0.776 0.766 0.757	0.0384 0.0391 0.0397 0.0403 0.0409 0.0415 0.0420	0.732 0.721 0.711 0.701 0.690 0.680 0.670	0.883 0.875 0.867 0.859 0.851 0.843 0.835

##	405	76	1	0.710	0.0439	0.629	0.801
##	437	75	1	0.700	0.0443	0.619	0.793
##	439	74	1	0.691	0.0447	0.609	0.784
##	458	73	1	0.681	0.0451	0.598	0.776
##	465	72	1	0.672	0.0455	0.588	0.767
##	474	71	1	0.662	0.0458	0.579	0.759
##	480	70	1	0.653	0.0461	0.569	0.750
##	490	69	1	0.644	0.0464	0.559	0.741
## ##	497 513	68 67	1 1	0.634 0.625	0.0467 0.0469	0.549 0.539	0.733 0.724
##	526	66	1	0.625	0.0469	0.539	0.724
##	542	65	1	0.606	0.0472	0.529	0.713
##	548	64	1	0.596	0.0474	0.520	0.697
##	593	63	1	0.587	0.0478	0.510	0.688
##	608	61	1	0.577	0.0478	0.490	0.679
##	622	60	1	0.568	0.0473	0.481	0.670
##	649	59	1	0.558	0.0482	0.471	0.661
##	668	58	1	0.548	0.0483	0.461	0.652
##	717	57	1	0.539	0.0484	0.452	0.643
##	735	56	1	0.529	0.0485	0.442	0.633
##	851	55	1	0.519	0.0486	0.432	0.624
##	853	54	1	0.510	0.0486	0.423	0.615
##	934	53	1	0.500	0.0487	0.413	0.605
##	1013	52	1	0.491	0.0487	0.404	0.596
##	1108	51	1	0.481	0.0486	0.394	0.586
##	1142	50	1	0.471	0.0486	0.385	0.577
##	1275	49	1	0.462	0.0486	0.376	0.567
##	1329	48	1	0.452	0.0485	0.366	0.558
##	1446	46	1	0.442	0.0484	0.357	0.548
##	1466	45	1	0.432	0.0483	0.347	0.538
##	1564	44	1	0.423	0.0482	0.338	0.529
##	1589	43	1	0.413	0.0481	0.329	0.519
##	1918	37	1	0.402	0.0481	0.318	0.508
##							
##						ct=obstruct	
##	time	n.risk			${\tt std.err}$	lower 95% CI	upper 95% CI
##	36	28	1	0.964	0.0351	0.898	1.000
##	68	27	1	0.929	0.0487	0.838	1.000
##	109	26	1	0.893	0.0585	0.785	1.000
##	154	25	1	0.857	0.0661	0.737	0.997
##	185	24	1	0.821	0.0724	0.691	0.976
##	223	23	1	0.786	0.0775	0.648	0.953
##	258	22	1	0.750	0.0818	0.606	0.929
##	333	21	1	0.714	0.0854	0.565	0.903
##	352	20	1	0.679	0.0883	0.526	0.876
##	360	19	1	0.643	0.0906	0.488	0.847
##	415	18	1	0.607	0.0923	0.451	0.818
##	532	17	1	0.571	0.0935	0.415	0.788
##	577	16	1	0.536	0.0942	0.379	0.756
##	625	15	1	0.500	0.0945	0.345	0.724
##	726	14	1	0.464	0.0942	0.312	0.691
##	918	13	1	0.429	0.0935	0.279	0.657
##	1057	12	1	0.393	0.0923	0.248	0.623
##	1471	11	1	0.357	0.0906	0.217	0.587

```
## 1895
                       1
                             0.312 0.0896
                                                    0.178
                                                                  0.548
ggsurvplot(km_fit, data = colon_subset_recurrence, pval = TRUE,
            conf.int = TRUE)
                                                                adhere=adhere, obstruct=no obstru
ostruct=no obstruct -- adhere=no adhere, obstruct=obstruct
    1.00
Survival probability
0.50
0.25
                p = 0.012
    0.00
                                     1000
                                                               2000
                                                                                         3000
             0
                                                  Time
km_fit <- survfit(surv~1 + nodes.ds + obstruct, data=colon_subset_recurrence)
summary(km_fit)
  Call: survfit(formula = surv ~ 1 + nodes.ds + obstruct, data = colon_subset_recurrence)
##
##
  18 observations deleted due to missingness
##
                    nodes.ds=<3, obstruct=no obstruct
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      62
             478
                        2
                             0.996 0.00295
                                                    0.990
                                                                  1.000
##
      72
             476
                        1
                             0.994 0.00361
                                                    0.987
                                                                  1.000
             475
##
      86
                             0.992 0.00417
                                                    0.983
                                                                  1.000
                        1
             474
##
     102
                        1
                             0.990 0.00465
                                                    0.980
                                                                  0.999
##
     113
             473
                        1
                             0.987 0.00509
                                                    0.978
                                                                  0.997
##
     116
             472
                        2
                             0.983 0.00587
                                                    0.972
                                                                  0.995
             470
##
     118
                        1
                             0.981 0.00622
                                                    0.969
                                                                  0.993
##
     119
             469
                             0.979 0.00655
                                                    0.966
                                                                  0.992
                        1
             468
                             0.977 0.00686
##
     131
                        1
                                                    0.964
                                                                  0.991
##
     139
             467
                        1
                             0.975 0.00716
                                                    0.961
                                                                  0.989
##
     141
             466
                             0.973 0.00744
                                                    0.958
                                                                  0.987
##
     143
             465
                             0.971 0.00771
                        1
                                                    0.956
                                                                  0.986
##
     154
             464
                        1
                             0.969 0.00797
                                                    0.953
                                                                  0.984
                       2
                                                    0.948
##
     157
             463
                             0.964 0.00847
                                                                  0.981
##
     165
             461
                        2
                             0.960 0.00894
                                                    0.943
                                                                  0.978
##
     167
             459
                        1
                             0.958 0.00916
                                                    0.940
                                                                  0.976
```

##	169	458	1	0.956 0.00937	0.938	0.975
##	174	457	1	0.954 0.00958	0.935	0.973
##	176	456	1	0.952 0.00979	0.933	0.971
##	179	455	1	0.950 0.00999	0.930	0.970
##	181	454	1	0.948 0.01018	0.928	0.968
##	183	453	1	0.946 0.01037	0.925	0.966
##	189	452	2	0.941 0.01074	0.921	0.963
##	191	450	2	0.937 0.01109	0.916	0.959
##	196	448	1	0.935 0.01126	0.913	0.957
##	205	447	1	0.933 0.01143	0.911	0.956
##	215	446	1	0.931 0.01160	0.909	0.954
##	224	444	1	0.929 0.01176	0.906	0.952
##	227	443	1	0.927 0.01192	0.904	0.950
##	238	442	1	0.925 0.01207	0.901	0.949
##	243	441	1	0.923 0.01223	0.899	0.947
##	248	440	1	0.920 0.01238	0.897	0.945
##	250	439	1	0.918 0.01252	0.894	0.943
##	252	438	1	0.916 0.01267	0.892	0.941
##	256	437	1	0.914 0.01281	0.889	0.940
##	262	436	1	0.912 0.01295	0.887	0.938
##	263	435	1	0.910 0.01309	0.885	0.936
##	264	434	1	0.908 0.01323	0.882	0.934
##	271	433	1	0.906 0.01336	0.880	0.932
##	276	432	1	0.904 0.01350	0.878	0.931
##	285	431	1	0.902 0.01363	0.875	0.929
##	290	430	1	0.900 0.01376	0.873	0.927
##	291	429	1	0.897 0.01388	0.871	0.925
##	294	428	1	0.895 0.01401	0.868	0.923
##	296	427	1	0.893 0.01413	0.866	0.921
##	303	426	1	0.891 0.01425	0.864	0.920
##	308	425	1	0.889 0.01437	0.861	0.918
##	315	424	1	0.887 0.01449	0.859	0.916
##	325	423	1	0.885 0.01461	0.857	0.914
##	329	422	1	0.883 0.01472	0.854	0.912
##	330	421	2	0.879 0.01495	0.850	0.908
##	336	419	2	0.874 0.01517	0.845	0.905
##	337	417	1	0.872 0.01528	0.843	0.903
##	352	415	1	0.870 0.01538	0.841	0.901
##	356	413	2	0.866 0.01559	0.836	0.897
##	369	411	1	0.864 0.01570	0.834	0.895
##	379	410	1	0.862 0.01580	0.831	0.893
##	380	409	2	0.858 0.01600	0.827	0.889
##	392	407	1	0.855 0.01610	0.824	0.888
##	401	406	1	0.853 0.01610	0.824	0.886
##	402	405	1	0.851 0.01630	0.820	0.884
##	405	404	1	0.849 0.01639	0.820	0.882
##	406	403	1	0.847 0.01648 0.845 0.01658	0.815	0.880
##	431	402	1		0.813	0.878
##	433	401	1	0.843 0.01667	0.811	0.876
##	437	400	1	0.841 0.01676	0.808	0.874
##	440	399	1	0.839 0.01685	0.806	0.872
##	448	398	1	0.836 0.01694	0.804	0.870
##	461	397	1	0.834 0.01703	0.802	0.868
##	465	396	1	0.832 0.01711	0.799	0.866

##	466	395	1	0.830 0.0172	20 0.797	0.865
##	474	394	1	0.828 0.0172		0.863
##	480	393	1	0.826 0.0173		0.861
##	485	392	1	0.824 0.0174		0.859
##	497	390	1	0.822 0.0175		
##	499	389	1	0.820 0.0176		0.855
##	510	388	1	0.817 0.0177		
##	511	387	1	0.815 0.0177		0.851
##	513	386	1	0.813 0.0178		0.849
##	525	385	1	0.811 0.0179		0.847
##	526	384	1	0.809 0.0180		0.845
##	534	383	1	0.807 0.0180		
##	536	382	1	0.805 0.0183		0.841
##	540	381	1	0.803 0.0182		0.839
##	543	380	2	0.798 0.0183		0.835
##	548	378	1	0.796 0.0184		0.833
##	555	377	1	0.794 0.018		0.831
##	560	376	1	0.792 0.0186		0.829
##	573	375	2	0.788 0.0187		0.825
##	578	373	1	0.786 0.0188		0.824
##	591	373 372	1	0.784 0.0188		
##	593		3	0.777 0.0190		
##	593 594	371 368	1	0.777 0.0190		0.816
				0.773 0.019		0.814
##	599	367 365	1			0.812
##	616	365	1	0.771 0.0192		0.810
##	622	364	1	0.769 0.0193		0.808
##	632	363	1	0.767 0.0193		0.806
##	636	362	1	0.765 0.0194		0.804
##	638	361	1	0.763 0.019		0.802
##	649	360	1	0.760 0.019		0.800
##	654	359	1	0.758 0.0196		0.798
##	657	358	1	0.756 0.0196		0.796
##	668	356	1	0.754 0.0197		0.794
##	680	355	1	0.752 0.0198		
##	683	354	1	0.750 0.0198		0.790
##	686	353	1	0.748 0.0199		0.788
##	702	352	2	0.743 0.0200		0.784
##	711	350	1	0.741 0.0200		0.782
##	712	349	1	0.739 0.0201		0.780
##	717	348	1	0.737 0.0202		0.778
##	730	347	1	0.735 0.0202		0.776
##	731	346	1	0.733 0.0203		0.774
##	739	345	1	0.731 0.0203		0.772
##	742	344	1	0.729 0.0204		0.770
##	748	343	1	0.726 0.0204		0.768
##	751	342	1	0.724 0.0205		0.766
##	774	341	1	0.722 0.0205		0.764
##	803	340	1	0.720 0.0206		0.762
##	805	339	1	0.718 0.0206		0.760
##	827	338	1	0.716 0.0207		0.758
##	835	337	1	0.714 0.0207		0.756
##	849	335	1	0.712 0.0208		0.754
##	851	334	1	0.709 0.0208		0.751
##	853	333	1	0.707 0.0208	39 0.668	0.749

##	855	332	1		0.02094	0.665	0.747
##	883	331	1		0.02098	0.663	0.745
##	922	329	1		0.02103	0.661	0.743
##	930	328	1		0.02107	0.659	0.741
##	931	327	1		0.02111	0.656	0.739
##	934	326	1		0.02116	0.654	0.737
##	936	325	1		0.02120	0.652	0.735
##	959	323	1		0.02124	0.650	0.733
##	975	322	1		0.02128	0.648	0.731
##	1013	321	1		0.02133	0.645	0.729
##	1020	320	1		0.02137	0.643	0.727
##	1024	319	1		0.02141	0.641	0.725
##	1025	318	1		0.02145	0.639	0.723
##	1029	317	1		0.02149	0.637	0.721
##	1032	316	1		0.02152	0.634	0.719
##	1052	315	1		0.02156	0.632	0.717
##	1057	314	1		0.02160	0.630	0.715
##	1081	313	1		0.02164	0.628	0.713
##	1106	312	1		0.02167	0.625	0.710
##	1114	311	1		0.02171	0.623	0.708
##	1122	310	1		0.02175	0.621	0.706
##	1130	309	1		0.02178	0.619	0.704
##	1139	308	1		0.02182	0.617	0.702
##	1142	307	1		0.02185	0.614	0.700
##	1183	306	1		0.02188	0.612	0.698
##	1233	304	1		0.02192	0.610	0.696
##	1236	303	1		0.02195	0.608	0.694
##	1274	302	1		0.02198	0.606	0.692
##	1298	300	1		0.02201	0.603	0.690
##	1323	299	1		0.02205	0.601	0.688
##	1329	298	1		0.02208	0.599	0.686
##	1436	295	1		0.02211	0.597	0.683
##	1455	294	1		0.02214	0.595	0.681
##	1466	293	1		0.02217	0.592	0.679
##	1475	291	1		0.02220	0.590	0.677
## ##	1551 1564	287	1 1		0.02223	0.588	0.675
		286			0.02226	0.586	0.673
##	1589	285	1 1		0.02229	0.583	0.671
##	1606	284	1		0.02232	0.581	0.669
##	1647 1687	283	1		0.02235	0.579	0.667
##		282	1		0.02238	0.577	0.664
##	1749	281 280	1			0.574	0.662
## ##	1759	279	1		0.02244 0.02247	0.572	0.660 0.658
##	1786 1976	27 <i>9</i> 259	1		0.02247	0.570 0.567	
##	1981	25 <i>9</i> 256	1		0.02254	0.565	0.656 0.653
##	2028	245	1		0.02259	0.562	0.651
##	2035	242	1		0.02263		0.649
##	2067	235	1		0.02268	0.560 0.557	0.646
##	2007	233	1		0.02273	0.555	0.644
##	2695	51	1		0.02512	0.539	0.637
##	2000	01	1	0.000	J. UZUIZ	J.003	0.001
π							

nodes.ds=<3, obstruct=obstruct

time n.risk n.event survival std.err lower 95% CI upper 95% CI

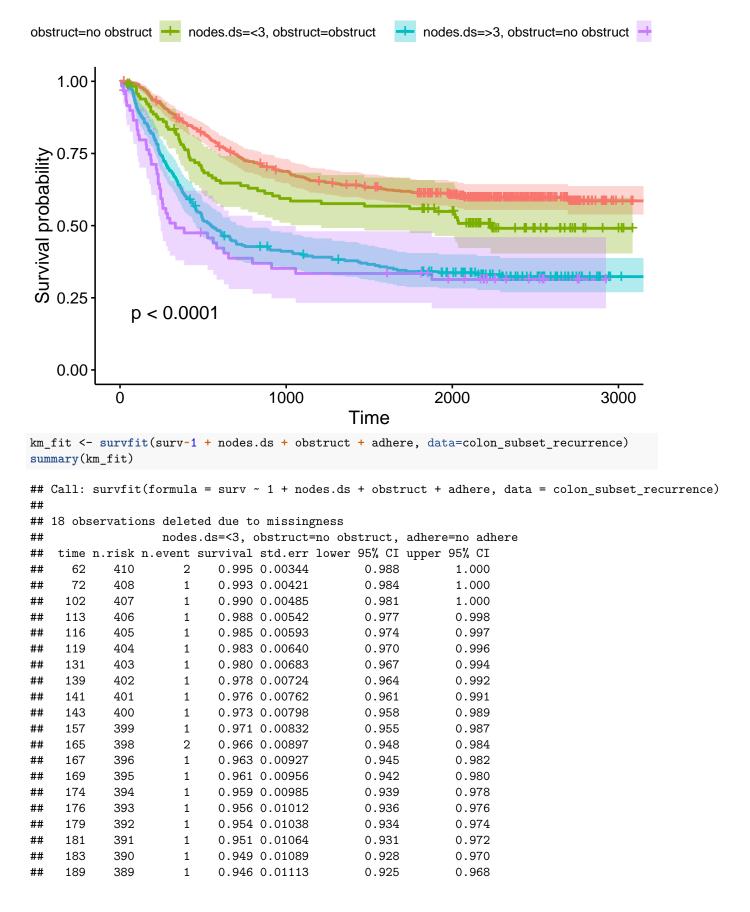
##	19	116	1	0.991 0.00858	0.975	1.000
##	68	113	1	0.983 0.01219	0.959	1.000
##	98	112	1	0.974 0.01491	0.945	1.000
##	99	111	2	0.956 0.01912	0.920	0.995
##	111	109	1	0.948 0.02086	0.907	0.989
##	121	108	1	0.939 0.02244	0.896	0.984
##	154	107	1	0.930 0.02388	0.884	0.978
##	161	106	1	0.921 0.02521	0.873	0.972
##	174	105	1	0.912 0.02646	0.862	0.966
##	185	104	2	0.895 0.02871	0.840	0.953
##	199	102	1	0.886 0.02974	0.830	0.946
##	218	101	1	0.877 0.03071	0.819	0.940
##	228	100	1	0.869 0.03163	0.809	0.933
##	260	99	1	0.860 0.03251	0.798	0.926
##	279	98	1	0.851 0.03334	0.788	0.919
##	280	97	1	0.842 0.03413	0.778	0.912
##	290	96	1	0.833 0.03488	0.768	0.905
##	335	94	1	0.825 0.03562	0.758	0.897
##	337	93	1	0.816 0.03632	0.748	0.890
##	352	92	1	0.807 0.03700	0.738	0.883
##	354	91	1	0.798 0.03764	0.728	0.875
##	360	90	1	0.789 0.03825	0.718	0.868
##	366	89	1	0.780 0.03883	0.708	0.860
##	382	88	1	0.771 0.03939	0.698	0.853
##	389	87	1	0.763 0.03992	0.688	0.845
##	411	86	1	0.754 0.04043	0.678	0.837
##	413	85	1	0.745 0.04092	0.669	0.829
##	415	84	1	0.736 0.04138	0.659	0.822
##	422	83	1	0.727 0.04182	0.650	0.814
##	449	82	1	0.718 0.04224	0.640	0.806
##	476	81	1	0.709 0.04264	0.630	0.798
##	489	80	1	0.700 0.04302	0.621	0.790
##	493	79 70	1	0.692 0.04338	0.612	0.782
##	504	78 77	1	0.683 0.04372	0.602	0.774
##	532	77 76	1	0.674 0.04404	0.593	0.766
##	554	76	1	0.665 0.04434	0.584	0.758
##	577	75 74	1	0.656 0.04463 0.647 0.04490	0.574	0.750
##	604	74 72	1		0.565	0.742
##	726	73 70	1	0.638 0.04515	0.556	0.733
##	772	72 71	1	0.630 0.04539	0.547	0.725
##	828	71 70	1	0.621 0.04561	0.537	0.717
##	871	70	1	0.612 0.04581	0.528	0.708
##	918	69	1	0.603 0.04599	0.519	0.700
##	960	68 67	1	0.594 0.04616 0.585 0.04632	0.510	0.692
##	1026	67	1		0.501	0.683
##	1211	66	1	0.576 0.04646	0.492	0.675
##	1471	65 64	1	0.567 0.04658 0.559 0.04669	0.483	0.667
##	1743	64 50	1		0.474	0.658
##	1895	58 53	1	0.549 0.04687	0.464	0.649
##	2012	53 52	1	0.539 0.04711	0.454	0.639
## ##	2018 2031	52 51	1 1	0.528 0.04733 0.518 0.04752	0.443 0.433	0.630 0.620
##	2031	50	1	0.508 0.04769	0.433	0.620
##	2036	30	1	0.491 0.04901	0.422	0.510
##	ZZ31	30	T	0.431 0.04901	0.403	0.091

##							
##			node	s.ds=>3,	obstruct=	no obstruct	
##	time	n.risk		survival	std.err	lower 95% CI	upper 95% CI
##	8	256	1		0.00390	0.988	1.000
##	28	255	1		0.00550	0.981	1.000
##	38	254	1		0.00673	0.975	1.000
##	43	253	1		0.00775	0.969	1.000
##	45	252	1		0.00865	0.964	0.998
##	49	251	1		0.00946	0.958	0.995
##	63	250	1		0.01019	0.953	0.993
##	72	249	1		0.01087	0.948	0.990
##	77	248	1		0.01151	0.943	0.988
##	78	247	1		0.01211	0.937	0.985
##	79	246	1		0.01267	0.933	0.982
## ##	80	245	2 2		0.01372	0.923	0.976
##	85 86	243 241	1		0.01468 0.01513	0.913 0.908	0.971 0.968
##	88	241	1		0.01515	0.908	0.965
##	91	239	2		0.01638	0.894	0.958
##	94	237	1		0.01677	0.890	0.955
##	98	236	2		0.01752	0.880	0.949
##	100	234	1		0.01787	0.876	0.946
##	101	233	1		0.01822	0.871	0.943
##	105	232	1		0.01855	0.867	0.939
##	108	231	1	0.898	0.01888	0.862	0.936
##	113	230	2		0.01951	0.853	0.930
##	121	228	1	0.887	0.01981	0.849	0.926
##	122	227	1	0.883	0.02010	0.844	0.923
##	127	226	1	0.879	0.02039	0.840	0.920
##	132	225	1	0.875	0.02067	0.835	0.916
##	136	224	1	0.871	0.02094	0.831	0.913
##	145	223	1	0.867	0.02121	0.827	0.910
##	146	222	2		0.02173	0.818	0.903
##	147	220	1		0.02198	0.813	0.900
##	161	219	1		0.02222	0.809	0.896
##	165	218	1		0.02246	0.805	0.893
##	166	217	1		0.02269	0.800	0.889
##	173	216	3		0.02336	0.787	0.879
##	176	213	1		0.02358	0.783	0.876
##	185	212	2		0.02400	0.775	0.869
##	198	210	1 1		0.02420 0.02439	0.770	0.865
## ##	201 203	209 208	1		0.02459	0.766 0.762	0.862 0.858
##	203	207	1		0.02439	0.762	0.855
##	204	206	2		0.02476	0.749	0.848
##	215	204	1		0.02532	0.745	0.844
##	216	203	1		0.02550	0.741	0.841
##	218	202	1		0.02567	0.736	0.837
##	221	201	1		0.02584	0.732	0.834
##	229	200	2		0.02616	0.724	0.826
##	230	198	3		0.02663	0.711	0.816
##	235	195	1		0.02678	0.707	0.812
##	237	194	2	0.750	0.02706	0.699	0.805
##	242	192	1	0.746	0.02720	0.695	0.801

##	246	191	1	0.742 0.02734	0.690	0.798
##	256	190	1	0.738 0.02747	0.686	0.794
##	257	189	1	0.734 0.02747	0.682	0.791
##	260	188	1	0.730 0.02773	0.678	0.787
##	261	187	1	0.727 0.02786	0.674	0.783
##	263	186	1	0.723 0.02798	0.670	0.780
##	273	185	1	0.719 0.02810	0.666	0.776
##	274	184	1	0.715 0.02822	0.662	0.772
##	279	183	2	0.707 0.02845	0.653	0.765
##	286	181	2	0.699 0.02866	0.645	0.758
##	294	179	1	0.695 0.02877	0.641	0.754
##	296	178	1	0.691 0.02887	0.637	0.750
##	304	177	1	0.688 0.02897	0.633	0.747
##	313	176	1	0.684 0.02907	0.629	0.743
##	315	175	1	0.680 0.02916	0.625	0.739
##	322	174	2	0.672 0.02935	0.617	0.732
##	328	172	1	0.668 0.02943	0.613	0.728
##	334	171	1	0.664 0.02952	0.609	0.725
##	337	170	1	0.660 0.02960	0.605	0.721
##	341	169	1	0.656 0.02968	0.601	0.717
##	344	168	1	0.652 0.02976	0.597	0.713
##	348	167	2	0.645 0.02992	0.588	0.706
##	349	165	1	0.641 0.02999	0.584	0.702
##	360	164	1	0.637 0.03006	0.580	0.698
##	362	163	1	0.633 0.03013	0.576	0.695
##	365	162	1	0.629 0.03019	0.572	0.691
##	370	161	1	0.625 0.03026	0.568	0.687
##	372	160	1	0.621 0.03032	0.564	0.683
##	374	159	1	0.617 0.03038	0.560	0.680
##	378	158	1	0.613 0.03044	0.556	0.676
##	384	157	1	0.609 0.03049	0.552	0.672
##	386	156	1	0.605 0.03055	0.548	0.668
##	393	155	1	0.602 0.03060	0.544	0.665
##	398	154	1	0.598 0.03065	0.541	0.661
##	408	153	1	0.594 0.03070	0.537	0.657
##	415	152	1	0.590 0.03074	0.533	0.653
##	429	150	1	0.586 0.03079	0.529	0.649
##	434	149	1	0.582 0.03083	0.525	0.646
##	435	148	1	0.578 0.03087	0.521	0.642
##	438	147	1	0.574 0.03091	0.517	0.638
##	439	146	1	0.570 0.03095	0.513	0.634
##	443	145	1	0.566 0.03098	0.509	0.630
##	454	143	2	0.558 0.03105	0.501	0.623
##	458	141	2	0.550 0.03111	0.493	0.615
##	466	139	1	0.546 0.03114	0.489	0.611
##	482	138	1	0.542 0.03117	0.485	0.607
##	490	137	1	0.539 0.03119	0.481	0.603
##	491	136	2	0.531 0.03123	0.473	0.595
##	495	134	1	0.527 0.03125	0.469	0.592
##	496	133	1	0.523 0.03126	0.465	0.588
##	498	132	1	0.519 0.03127	0.461	0.584
##	505	131	1	0.515 0.03127	0.457	0.580
##	523	130	1	0.511 0.03129	0.453	0.576
##	532	129	1	0.507 0.03130	0.449	0.570
	302	120	_	3.33. 3.30100	0.110	0.012

##	542	128	1		0.03131	0.445	0.568
##	547	127	1	0.499	0.03131	0.441	0.564
##	554	126	1	0.495	0.03131	0.437	0.560
##	565	125	1	0.491	0.03131	0.433	0.556
##	578	124	1	0.487	0.03130	0.429	0.552
##	583	123	1	0.483	0.03130	0.425	0.549
##	602	122	1	0.479	0.03129	0.422	0.545
##	608	121	1	0.475	0.03128	0.418	0.541
##	613	120	1	0.471	0.03127	0.414	0.537
##	615	119	1	0.467	0.03126	0.410	0.533
##	617	118	1	0.463	0.03124	0.406	0.529
##	659	116	1		0.03123	0.402	0.525
##	663	115	2	0.451	0.03119	0.394	0.517
##	672	113	1	0.447	0.03117	0.390	0.513
##	697	112	1	0.443	0.03115	0.386	0.509
##	700	111	1	0.439	0.03112	0.382	0.505
##	701	110	1		0.03109	0.378	0.501
##	735	109	1	0.431	0.03106	0.375	0.497
##	752	108	1		0.03103	0.371	0.493
##	891	105	1		0.03100	0.367	0.489
##	900	104	1		0.03097	0.363	0.485
##	904	103	1		0.03094	0.359	0.480
##	968	102	1		0.03090	0.355	0.476
##	1037	101	1		0.03086	0.351	0.472
##	1042	100	1		0.03082	0.347	0.468
##	1089	99	1		0.03078	0.343	0.464
##	1108	97	1		0.03073	0.339	0.460
##	1159	96	1		0.03069	0.335	0.456
##	1275	95	1		0.03064	0.331	0.451
##	1277	94	1		0.03059	0.327	0.447
##	1353	92	1		0.03053	0.323	0.443
##	1432	91	1		0.03048	0.319	0.439
##	1446	90	1		0.03042	0.315	0.435
##	1488	89	1		0.03036	0.311	0.430
##	1535	88	1		0.03030	0.307	0.426
##	1561	87	1		0.03024	0.303	0.422
##	1606	86	1		0.03017	0.299	0.418
##	1644	85	1		0.03010	0.295	0.413
##	1668	84	1		0.03003	0.291	0.409
##	1723	83	1		0.02995	0.287	0.405
##	1918	75	1		0.02990	0.283	0.400
##	2148	58	1		0.02994	0.277	0.395
##	2288	46	1	0.323	0.03014	0.269	0.388
##				- 4>2	- h h h -	b + +	
##	***			s.ds=>3, (OF% CT
##						lower 95% CI	
##	9	60 50	1	0.983	0.0165	0.951	1.000
##	20	59 57	1 1	0.967		0.922	1.000
##	35	57 56		0.950		0.896	1.000
##	36 40	56	1	0.933		0.871	0.999
## ##	40 59	55 54	1 1	0.916		0.848	
##	59 77	54 53	1	0.899 0.882		0.825	
##	80	52	1	0.865	0.0419 0.0444	0.803 0.782	0.968 0.957
##	80	52	1	0.005	0.0444	0.102	0.301

```
101
                            0.848 0.0467
                                                  0.761
                                                                0.945
##
             51
                       1
##
     103
             50
                       1
                            0.831 0.0487
                                                  0.741
                                                                0.932
##
     109
             49
                            0.814 0.0506
                                                  0.721
                                                                0.920
##
     116
             48
                            0.797 0.0523
                                                  0.701
                                                                0.906
                       1
##
     157
             47
                       1
                            0.780 0.0539
                                                  0.681
                                                                0.893
##
     160
             46
                       1
                            0.763 0.0553
                                                  0.662
                                                                0.880
##
     175
             45
                       1
                            0.746 0.0566
                                                  0.643
                                                                0.866
##
     185
             44
                            0.729 0.0578
                                                  0.624
                                                                0.852
                       1
##
     188
             43
                       1
                            0.712 0.0589
                                                  0.606
                                                                0.838
##
     218
             42
                            0.695 0.0599
                                                  0.587
                                                                0.823
                       1
##
     223
             41
                       1
                            0.678 0.0608
                                                  0.569
                                                                0.809
##
     230
                       2
                            0.644 0.0623
                                                                0.779
             40
                                                  0.533
##
     238
             38
                            0.627 0.0629
                       1
                                                  0.516
                                                                0.764
##
                       2
                            0.594 0.0639
     245
             37
                                                  0.481
                                                                0.733
##
     255
             35
                       1
                            0.577 0.0643
                                                  0.463
                                                                0.718
##
     258
             34
                       1
                            0.560 0.0646
                                                  0.446
                                                                0.702
##
     276
             33
                       1
                            0.543 0.0649
                                                  0.429
                                                                0.686
             32
                            0.526 0.0650
                                                                0.670
##
     286
                       1
                                                  0.413
##
     300
             31
                            0.509 0.0651
                                                  0.396
                                                                0.654
                       1
     333
             30
                            0.492 0.0651
##
                       1
                                                  0.379
                                                                0.637
##
     386
             29
                       1
                            0.475 0.0650
                                                  0.363
                                                                0.621
##
     527
             27
                       1
                            0.457 0.0649
                                                  0.346
                                                                0.604
##
                            0.440 0.0648
                                                                0.587
     561
             26
                                                  0.329
                       1
##
     581
             25
                       1
                            0.422 0.0645
                                                  0.313
                                                                0.570
##
     625
             24
                            0.405 0.0642
                                                  0.296
                                                               0.552
                       1
##
     653
             23
                       1
                            0.387 0.0638
                                                  0.280
                                                                0.534
##
     797
             22
                       1
                            0.369 0.0632
                                                  0.264
                                                                0.517
##
     912
             21
                       1
                            0.352 0.0626
                                                  0.248
                                                                0.499
##
    1057
             20
                            0.334 0.0619
                                                  0.232
                                                                0.480
                       1
##
    1876
                            0.313 0.0615
                                                  0.213
                                                                0.460
             16
                       1
```



##	191	388	2	0.941 0.01159	0.919	0.964
##	196	386	1	0.939 0.01182	0.916	0.962
##	205	385	1	0.937 0.01204	0.913	0.960
##	215	384	1	0.934 0.01225	0.910	0.958
##	224	382	1	0.932 0.01246	0.908	0.956
##	227	381	1	0.929 0.01266	0.905	0.954
##	238	380	1	0.927 0.01286	0.902	0.952
##	248	379	1	0.924 0.01306	0.899	0.950
##	250	378	1	0.922 0.01325	0.896	0.948
##	252	377	1	0.919 0.01344	0.894	0.946
##	256	376	1	0.917 0.01363	0.891	0.944
##	262	375	1	0.915 0.01381	0.888	0.942
##	263	374	1	0.912 0.01399	0.885	0.940
##	264	373	1	0.910 0.01416	0.882	0.938
##	276	372	1	0.907 0.01433	0.880	0.936
##	285	371	1	0.905 0.01450	0.877	0.934
##	290	370	1	0.902 0.01467	0.874	0.932
##	291	369	1	0.900 0.01483	0.871	0.929
##	294	368	1	0.897 0.01499	0.869	0.927
##	296	367	1	0.895 0.01515	0.866	0.925
##	303	366	1	0.893 0.01530	0.863	0.923
##	308	365	1	0.890 0.01545	0.860	0.921
##	315	364	1	0.888 0.01560	0.858	0.919
##	325	363	1	0.885 0.01575	0.855	0.917
##	329	362	1	0.883 0.01590	0.852	0.915
##	330	361	2	0.878 0.01618	0.847	0.910
##	336	359	2	0.873 0.01645	0.841	0.906
##	352	357	1	0.871 0.01659	0.839	0.904
##	356	355	1	0.868 0.01672	0.836	0.902
##	379	354	1	0.866 0.01685	0.833	0.899
##	380	353	1	0.863 0.01698	0.831	0.897
##	392	352	1	0.861 0.01711	0.828	0.895
##	401	351	1	0.858 0.01724	0.825	0.893
##	402	350	1	0.856 0.01736	0.822	0.891
##	406	349	1	0.853 0.01749	0.820	0.888
##	431	348	1	0.851 0.01761	0.817	0.886
##	433	347	1	0.848 0.01773	0.814	0.884
##	440	346	1	0.846 0.01784	0.812	0.882
##	448	345	1	0.844 0.01796	0.809	0.880
##	461	344	1	0.841 0.01807	0.806	0.877
##	466	343	1	0.839 0.01819	0.804	0.875
##	485	342	1	0.836 0.01830	0.801	0.873
##	499	340	1	0.834 0.01841	0.798	0.871
##	510	339	1	0.831 0.01852	0.796	0.868
##	511	338	1	0.829 0.01863	0.793	0.866
##	525	337	1	0.826 0.01873	0.790	0.864
##	534	336	1	0.824 0.01884	0.788	0.862
##	536	335	1	0.821 0.01894	0.785	0.859
##	540	334	1	0.819 0.01904	0.783	0.857
##	543	333	2	0.814 0.01924	0.777	0.853
##	555	331	1	0.812 0.01934	0.775	0.850
##	560	330	1	0.809 0.01944	0.772	0.848
##	573	329	2	0.804 0.01963	0.767	0.844
##	578	327	1	0.802 0.01972	0.764	0.841

##	591	326	1	0.799 0.01982	0.761	0.839
##	593	325	2	0.794 0.02000	0.756	0.835
##	594	323	1	0.792 0.02009	0.754	0.832
##	599	322	1	0.790 0.02017	0.751	0.830
##	616	321	1	0.787 0.02026	0.748	0.828
##	632	320	1	0.785 0.02034	0.746	0.825
##	636	319	1	0.782 0.02043	0.743	0.823
##	638	318	1	0.780 0.02051	0.740	0.821
##	654	317	1	0.777 0.02059	0.738	0.819
##	657	316	1	0.775 0.02068	0.735	0.816
##	680	314	1	0.772 0.02076	0.733	0.814
##	683	313	1	0.770 0.02084	0.730	0.812
##	686	312	1	0.767 0.02092	0.727	0.809
##	702	311	2	0.762 0.02107	0.722	0.805
##	711	309	1	0.760 0.02115	0.720	0.803
##	712	308	1	0.757 0.02122	0.717	0.800
##	730	307	1	0.755 0.02129	0.714	0.798
##	731	306	1	0.753 0.02137	0.712	0.796
##	739	305	1	0.750 0.02144	0.709	0.793
##	742	304	1	0.748 0.02151	0.707	0.791
##	748	303	1	0.745 0.02158	0.704	0.789
##	751	302	1	0.743 0.02165	0.701	0.786
##	774	301	1	0.740 0.02172	0.699	0.784
##	803	300	1	0.738 0.02178	0.696	0.782
##	805	299	1	0.735 0.02185	0.694	0.779
##	827	298	1	0.733 0.02192	0.691	0.777
##	835	297	1	0.730 0.02198	0.688	0.775
##	849	295	1	0.728 0.02205	0.686	0.772
##	855	294	1	0.725 0.02211	0.683	0.770
##	883	293	1	0.723 0.02217	0.681	0.768
##	922	291	1	0.720 0.02223	0.678	0.765
##	930	290	1	0.718 0.02230	0.676	0.763
##	931	289	1	0.715 0.02236	0.673	0.761
##	936	288	1	0.713 0.02242	0.670	0.758
##	959	286	1	0.710 0.02248	0.668	0.756
##	975	285	1	0.708 0.02254	0.665	0.754
##	1020	284	1	0.705 0.02259	0.663	0.751
##	1024	283	1	0.703 0.02265	0.660	0.749
##	1025	282	1	0.701 0.02271	0.657	0.746
##	1029	281	1	0.698 0.02276	0.655	0.744
##	1032	280	1	0.696 0.02282	0.652	0.742
##	1052	279	1	0.693 0.02287	0.650	0.739
##	1057	278	1	0.691 0.02293	0.647	0.737
##	1081	277	1	0.688 0.02298	0.644	0.735
##	1106	276	1	0.686 0.02303	0.642	0.732
##	1114	275	1	0.683 0.02308	0.639	0.730
##	1122	274	1	0.681 0.02313	0.637	0.727
##	1130	273	1	0.678 0.02318	0.634	0.725
##	1139	272	1	0.676 0.02323	0.632	0.723
##	1183	271	1	0.673 0.02328	0.629	0.720
##	1233	269	1	0.671 0.02332	0.626	0.718
##	1236	268	1	0.668 0.02337	0.624	0.715
##	1274	267	1	0.666 0.02342	0.621	0.713
##	1298	265	1	0.663 0.02346	0.619	0.711
-						– –

##	1323	264	1	0.661	0.02351	0.616	0.708
##	1436	262	1	0.658	0.02355	0.613	0.706
##	1455	261	1	0.656	0.02360	0.611	0.703
##	1475	259	1	0.653	0.02364	0.608	0.701
##	1551	255	1	0.650	0.02369	0.606	0.699
##	1606	254	1	0.648	0.02373	0.603	0.696
##	1647	253	1		0.02377	0.600	0.694
##	1687	252	1		0.02382	0.598	0.691
##	1749	251	1		0.02386	0.595	0.689
##	1759	250	1		0.02390	0.592	0.686
##	1786	249	1		0.02394	0.590	0.684
##			1				
	1976	232			0.02400	0.587	0.681
##	1981	229	1		0.02405	0.584	0.679
##	2028	219	1		0.02411	0.581	0.676
##	2035	216	1		0.02417	0.578	0.673
##	2067	211	1		0.02424	0.575	0.670
##	2074	209	1		0.02430	0.572	0.667
##	2695	46	1	0.604	0.02724	0.553	0.660
##							
##							adhere=adhere
##	time	n.risk		survival	std.err	lower 95% CI	upper 95% CI
##	86	68	1	0.985	0.0146	0.957	1.000
##	116	67	1	0.971	0.0205	0.931	1.000
##	118	66	1	0.956	0.0249	0.908	1.000
##	154	65	1	0.941	0.0285	0.887	0.999
##	157	64	1	0.926	0.0317	0.866	0.991
##	189	63	1	0.912	0.0344	0.847	0.982
##	243	62	1	0.897	0.0369	0.828	0.972
##	271	61	1	0.882	0.0391	0.809	0.962
##	337	60	1	0.868	0.0411	0.791	0.952
##	356	58	1	0.853	0.0430	0.772	0.941
##	369	57	1	0.838	0.0448	0.754	0.930
##	380	56	1	0.823	0.0464	0.737	0.919
##	405	55	1	0.808	0.0479	0.719	0.907
##	437	54	1	0.793	0.0493	0.702	0.896
##	465	53	1	0.778	0.0506	0.685	0.884
##	474	52	1	0.763	0.0518	0.668	0.872
##	480	51	1	0.748	0.0529	0.651	0.859
##	497	50	1	0.733	0.0539	0.635	0.847
##	513	49	1	0.718	0.0549	0.618	0.834
##	526	48	1	0.703	0.0557	0.602	0.821
##	548	47	1	0.703	0.0565	0.586	0.808
##	593	46	1	0.673	0.0572	0.570	0.795
##	622	44	1	0.658	0.0572	0.570	0.793
##	649	43	1	0.643	0.0586 0.0591	0.537	0.768
##	668	42	1	0.627		0.521	0.755
##	717	41	1	0.612	0.0596	0.506	0.741
##	851	40	1	0.597	0.0601	0.490	0.727
##	853	39	1	0.581	0.0605	0.474	0.713
##	934	38	1	0.566	0.0608	0.459	0.699
##	1013	37	1	0.551	0.0610	0.443	0.684
##	1142	36	1	0.535	0.0612	0.428	0.670
##	1329	35	1	0.520	0.0613	0.413	0.655
##	1466	33	1	0.504	0.0615	0.397	0.641

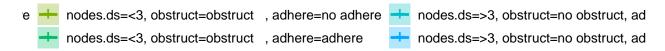
```
##
   1564
             32
                      1
                           0.489 0.0615
                                               0.382
                                                              0.625
##
    1589
             31
                           0.473 0.0615
                                                0.366
                                                              0.610
                      1
##
                   nodes.ds=<3, obstruct=obstruct , adhere=no adhere</pre>
##
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             98
                      1
                           0.990 0.0102
                                                0.970
                                                              1.000
##
      98
                           0.979 0.0144
                                                 0.951
                                                              1.000
                      1
##
     99
                           0.959 0.0203
                                                 0.920
                                                              0.999
             94
                      2
##
     111
             92
                      1
                           0.948 0.0226
                                                 0.905
                                                              0.993
##
     121
             91
                           0.938 0.0246
                      1
                                                 0.891
                                                              0.987
##
     161
             90
                      1
                           0.927 0.0265
                                                 0.877
                                                              0.981
##
                           0.917 0.0281
     174
             89
                                                 0.863
                                                              0.974
                      1
                           0.896 0.0311
##
     185
             88
                      2
                                                 0.837
                                                              0.959
##
     199
             86
                           0.886 0.0325
                                                 0.824
                                                              0.952
                      1
##
     218
             85
                           0.875 0.0337
                                                 0.812
                                                              0.944
                      1
##
     228
             84
                      1
                           0.865 0.0349
                                                 0.799
                                                              0.936
##
     260
             83
                           0.854 0.0360
                                                 0.787
                                                              0.928
                      1
##
     279
             82
                      1
                           0.844 0.0370
                                                 0.774
                                                              0.920
##
     280
             81
                           0.834 0.0380
                                                 0.762
                                                              0.911
                      1
                           0.823 0.0389
##
     290
             80
                      1
                                                 0.750
                                                              0.903
##
     335
             78
                      1
                           0.813 0.0398
                                                 0.738
                                                              0.894
##
     337
             77
                           0.802 0.0407
                                                 0.726
                                                              0.886
                      1
##
                           0.791 0.0415
     354
             76
                                                 0.714
                                                              0.877
                      1
                           0.781 0.0423
##
     366
             75
                      1
                                                 0.702
                                                              0.868
##
     382
             74
                           0.770 0.0430
                                                              0.859
                      1
                                                 0.691
##
     389
             73
                      1
                           0.760 0.0437
                                                 0.679
                                                              0.850
##
     411
             72
                           0.749 0.0443
                                                 0.667
                                                              0.841
                      1
##
             71
                           0.739 0.0449
                                                 0.656
                                                              0.832
     413
                      1
##
     422
             70
                           0.728 0.0455
                                                 0.644
                                                              0.823
                      1
##
     449
             69
                      1
                           0.718 0.0461
                                                 0.633
                                                              0.814
##
                           0.707 0.0466
     476
             68
                      1
                                                 0.621
                                                              0.804
##
     489
             67
                      1
                           0.696 0.0471
                                                 0.610
                                                              0.795
##
     493
             66
                           0.686 0.0475
                                                 0.599
                      1
                                                              0.786
##
     504
             65
                           0.675 0.0480
                                                 0.588
                                                              0.776
                      1
                           0.665 0.0484
##
     554
             64
                      1
                                                 0.576
                                                              0.767
##
     604
             63
                           0.654 0.0487
                                                 0.565
                                                              0.757
                      1
##
    772
             62
                      1
                           0.644 0.0491
                                                 0.554
                                                              0.747
##
     828
             61
                      1
                           0.633 0.0494
                                                 0.543
                                                              0.738
                           0.623 0.0497
##
     871
             60
                      1
                                                 0.532
                                                              0.728
##
                           0.612 0.0499
     960
             59
                                                 0.522
                                                              0.718
                      1
##
   1026
             58
                           0.601 0.0502
                                                 0.511
                                                              0.708
                      1
##
   1211
             57
                           0.591 0.0504
                                                 0.500
                                                              0.698
                      1
   1743
                           0.580 0.0506
                                                 0.489
##
             56
                      1
                                                              0.689
##
   2012
             47
                           0.568 0.0510
                                                 0.476
                                                              0.677
                      1
##
   2018
             46
                           0.556 0.0514
                                                 0.464
                      1
                                                              0.666
   2031
                           0.543 0.0517
##
             45
                                                 0.451
                                                              0.655
                      1
                           0.531 0.0520
    2036
##
             44
                      1
                                                 0.438
                                                              0.643
##
    2231
             27
                           0.511 0.0536
                                                 0.416
                                                              0.628
                      1
##
                   nodes.ds=<3, obstruct=obstruct , adhere=adhere</pre>
##
##
   time n.risk n.event survival std.err lower 95% CI upper 95% CI
                          0.944 0.0540
##
    68
             18
                 1
                                               0.844
                                                              1.000
##
     154
             17
                      1
                           0.889 0.0741
                                                 0.755
                                                              1.000
     352
                           0.833 0.0878
                                                0.678
##
             16
                     1
                                                              1.000
```

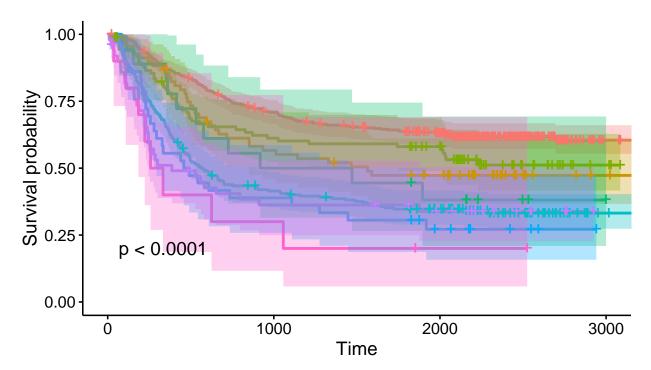
```
##
     360
              15
                             0.778 0.0980
                                                     0.608
                                                                   0.996
                        1
                                                     0.542
##
     415
              14
                             0.722 0.1056
                                                                   0.962
                        1
                             0.667 0.1111
                                                                   0.924
##
     532
              13
                        1
                                                     0.481
##
     577
              12
                             0.611 0.1149
                                                     0.423
                                                                   0.883
                        1
##
     726
              11
                        1
                             0.556
                                    0.1171
                                                     0.368
                                                                   0.840
##
              10
                             0.500 0.1179
     918
                        1
                                                     0.315
                                                                   0.794
##
                             0.444 0.1171
                                                     0.265
                                                                   0.745
    1471
               9
                        1
    1895
               7
                             0.381 0.1163
                                                     0.209
                                                                   0.693
##
                        1
##
##
                     nodes.ds=>3, obstruct=no obstruct, adhere=no adhere
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                             0.995 0.00454
                                                     0.987
                                                                   1.000
       8
             220
                        1
             219
                             0.991 0.00640
##
      28
                        1
                                                     0.978
                                                                   1.000
##
             218
                             0.986 0.00782
                                                     0.971
                                                                   1.000
      38
                        1
##
      43
             217
                             0.982 0.00901
                                                     0.964
                                                                   1.000
                        1
##
      45
             216
                        1
                             0.977 0.01005
                                                     0.958
                                                                   0.997
##
      49
             215
                             0.973 0.01098
                        1
                                                     0.951
                                                                   0.994
##
      63
             214
                             0.968 0.01183
                                                     0.945
                                                                   0.992
                        1
##
      72
             213
                             0.964 0.01262
                                                                   0.989
                                                     0.939
                        1
##
      77
             212
                        1
                             0.959 0.01335
                                                     0.933
                                                                   0.986
##
      78
             211
                        1
                             0.955 0.01404
                                                     0.927
                                                                   0.982
##
      79
             210
                             0.950 0.01469
                                                     0.922
                                                                   0.979
                        1
##
             209
                             0.945 0.01531
                                                     0.916
                                                                   0.976
      80
                        1
##
      85
             208
                        2
                             0.936 0.01646
                                                     0.905
                                                                   0.969
##
             206
      86
                        1
                             0.932 0.01699
                                                     0.899
                                                                   0.966
##
      91
             205
                        2
                             0.923 0.01800
                                                     0.888
                                                                   0.959
##
      94
             203
                             0.918 0.01848
                                                                   0.955
                        1
                                                     0.883
##
      98
             202
                        2
                             0.909 0.01938
                                                     0.872
                                                                   0.948
##
     100
             200
                             0.905 0.01981
                                                     0.867
                                                                   0.944
                        1
##
     108
             199
                             0.900 0.02023
                                                     0.861
                                                                   0.941
                        1
##
     113
             198
                        2
                             0.891 0.02102
                                                     0.851
                                                                   0.933
##
     122
             196
                        1
                             0.886 0.02140
                                                     0.845
                                                                   0.929
##
     127
             195
                        1
                             0.882 0.02176
                                                     0.840
                                                                   0.926
##
     132
             194
                             0.877 0.02212
                                                                   0.922
                                                     0.835
                        1
##
     136
             193
                        1
                             0.873 0.02247
                                                     0.830
                                                                   0.918
##
     145
             192
                             0.868 0.02281
                                                                   0.914
                        1
                                                     0.825
##
     146
             191
                        2
                             0.859 0.02346
                                                     0.814
                                                                   0.906
##
     147
             189
                        1
                             0.855 0.02377
                                                     0.809
                                                                   0.902
##
     161
             188
                        1
                             0.850 0.02407
                                                     0.804
                                                                   0.899
##
     165
                             0.845 0.02437
                                                     0.799
                                                                   0.895
             187
                        1
##
                             0.841 0.02466
                                                                   0.891
     166
             186
                        1
                                                     0.794
##
     173
             185
                        3
                             0.827 0.02549
                                                     0.779
                                                                   0.879
##
                             0.823 0.02575
     176
             182
                        1
                                                     0.774
                                                                   0.875
##
     185
             181
                        2
                             0.814 0.02625
                                                     0.764
                                                                   0.867
##
                             0.809 0.02650
     201
             179
                        1
                                                     0.759
                                                                   0.863
##
     203
             178
                             0.805 0.02674
                                                     0.754
                                                                   0.859
                        1
##
     208
             177
                        1
                             0.800 0.02697
                                                     0.749
                                                                   0.855
##
     215
             176
                        1
                             0.795 0.02720
                                                     0.744
                                                                   0.851
##
     216
             175
                        1
                             0.791 0.02742
                                                     0.739
                                                                   0.847
##
     221
             174
                        1
                             0.786 0.02763
                                                     0.734
                                                                   0.842
##
     229
             173
                             0.782 0.02785
                                                                   0.838
                        1
                                                     0.729
##
     230
             172
                        3
                             0.768 0.02845
                                                     0.714
                                                                   0.826
##
     235
             169
                        1
                             0.764 0.02864
                                                     0.710
                                                                   0.822
                        2
##
     237
             168
                             0.755 0.02901
                                                     0.700
                                                                   0.814
```

##	246	166	1	0.750 0.	02919	0.695	0.809
##	256	165	1	0.745 0.		0.690	0.805
##	260	164	1	0.741 0.		0.685	0.801
##	261	163	1	0.736 0.		0.680	0.797
##	263	162	1	0.732 0.		0.676	0.793
##	273	161	1	0.732 0.		0.671	0.789
##	274	160	1	0.727 0.		0.666	0.784
##	279	159	1	0.723 0.		0.661	0.784
##	286	159	2	0.718 0.		0.652	0.730
##	296	156	1	0.709 0.		0.647	0.772
##	304	155	1	0.700 0.		0.642	0.767
##						0.637	
##	313	154	1	0.695 0.			0.759
	315	153	1	0.691 0.		0.632	0.755
##	322	152	2	0.682 0.		0.623	0.746
##	337	150	1	0.677 0.		0.618	0.742
##	341	149	1	0.673 0.		0.613	0.738
##	344	148	1	0.668 0.		0.609	0.733
##	348	147	2	0.659 0.		0.599	0.725
##	349	145	1	0.655 0.		0.595	0.720
##	360	144	1	0.650 0.		0.590	0.716
##	362	143	1	0.645 0.		0.585	0.712
##	365	142	1	0.641 0.		0.581	0.708
##	370	141	1	0.636 0.		0.576	0.703
##	372	140	1	0.632 0.		0.571	0.699
##	374	139	1	0.627 0.		0.567	0.695
##	378	138	1	0.623 0.		0.562	0.690
##	384	137	1	0.618 0.		0.557	0.686
##	386	136	1	0.614 0.		0.553	0.681
##	393	135	1	0.609 0.		0.548	0.677
##	398	134	1	0.605 0.		0.543	0.673
##	408	133	1	0.600 0.	03303	0.539	0.668
##	415	132	1	0.595 0.	03309	0.534	0.664
##	429	130	1	0.591 0.		0.529	0.660
##	434	129	1	0.586 0.	03321	0.525	0.655
##	435	128	1	0.582 0.	03326	0.520	0.651
##	438	127	1	0.577 0.	03332	0.515	0.646
##	443	126	1	0.573 0.	03336	0.511	0.642
##	454	124	2	0.563 0.	03346	0.501	0.633
##	458	122	1	0.559 0.	03350	0.497	0.628
##	466	121	1	0.554 0.	03354	0.492	0.624
##	482	120	1	0.549 0.	03358	0.487	0.619
##	491	119	2	0.540 0.	03364	0.478	0.610
##	495	117	1	0.536 0.	03367	0.474	0.606
##	496	116	1	0.531 0.	03370	0.469	0.601
##	498	115	1	0.526 0.	03372	0.464	0.597
##	505	114	1	0.522 0.	03374	0.460	0.592
##	523	113	1	0.517 0.	03375	0.455	0.588
##	532	112	1	0.513 0.	03377	0.450	0.583
##	547	111	1	0.508 0.	03378	0.446	0.579
##	554	110	1	0.503 0.	03378	0.441	0.574
##	565	109	1	0.499 0.		0.437	0.569
##	578	108	1	0.494 0.		0.432	0.565
##	583	107	1	0.489 0.		0.428	0.560
##	602	106	1	0.485 0.		0.423	0.556

##	612	105	1	0 400	0 02277	0 /10	O 551
	613		1		0.03377		0.551
##	615	104	1		0.03376		0.547
##	617	103	1		0.03375	0.409	0.542
##	659	101	1		0.03374		0.537
##	663	100	2	0.457	0.03370	0.395	0.528
##	672	98	1	0.452	0.03368	0.391	0.523
##	697	97	1	0.448	0.03365	0.386	0.519
##	700	96	1	0.443	0.03362	0.382	0.514
##	701	95	1		0.03359	0.377	0.509
##	752	94	1		0.03356	0.373	0.505
##	891	91	1		0.03352	0.368	0.500
##	900	90	1		0.03349		0.495
##	904	89	1		0.03345	0.359	0.490
##	968	88	1		0.03341	0.354	0.486
##	1037	87	1		0.03336	0.349	0.481
##	1042	86	1		0.03331	0.345	0.476
##	1089	85	1		0.03326	0.340	0.471
##	1159	83	1		0.03321	0.335	0.466
##	1277	82	1	0.391	0.03315	0.331	0.461
##	1353	80	1	0.386	0.03309	0.326	0.456
##	1432	79	1	0.381	0.03303	0.321	0.451
##	1488	78	1	0.376	0.03297	0.317	0.447
##	1535	77	1	0.371	0.03290	0.312	0.442
##	1561	76	1		0.03283	0.307	0.437
##	1606	75	1		0.03275	0.303	0.432
##	1644	74	1		0.03267	0.298	0.427
##	1668	73	1		0.03258	0.293	0.422
##		72	1		0.03250	0.289	
	1723						0.417
##	2148	52	1		0.03255	0.282	0.410
##	2288	42	1	0.332	0.03276	0.274	0.403
##							
##					obstruct:	=no obstruct,	adhere=adhere
##	time	n.risk		survival	std.err	lower 95% CI	upper 95% CI
## ##	time 80	n.risk 36		survival			upper 95% CI 1.000
			n.event	survival	std.err 0.0274	lower 95% CI	
##	80	36	n.event	survival 0.972	std.err 0.0274 0.0382	lower 95% CI 0.920	1.000
## ##	80 88	36 35	n.event	survival 0.972 0.944	std.err 0.0274 0.0382	lower 95% CI 0.920 0.873	1.000
## ## ##	80 88 101 105	36 35 34	n.event : 1 1 1	0.972 0.944 0.917 0.889	std.err 0.0274 0.0382 0.0461	lower 95% CI 0.920 0.873 0.831 0.792	1.000 1.000 1.000
## ## ##	80 88 101 105 121	36 35 34 33 32	n.event	0.972 0.944 0.917 0.889 0.861	std.err 0.0274 0.0382 0.0461 0.0524 0.0576	lower 95% CI 0.920 0.873 0.831 0.792 0.755	1.000 1.000 1.000 0.998 0.982
## ## ## ## ##	80 88 101 105 121 198	36 35 34 33 32 31	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720	1.000 1.000 1.000 0.998 0.982 0.964
## ## ## ## ## ##	80 88 101 105 121 198 204	36 35 34 33 32 31 30	n.event	0.972 0.944 0.917 0.889 0.861 0.833 0.806	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686	1.000 1.000 1.000 0.998 0.982 0.964 0.946
## ## ## ## ## ##	80 88 101 105 121 198 204 208	36 35 34 33 32 31 30 29	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926
## ## ## ## ## ##	80 88 101 105 121 198 204 208 218	36 35 34 33 32 31 30 29 28	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906
## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229	36 35 34 33 32 31 30 29 28 27	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906
## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242	36 35 34 33 32 31 30 29 28 27 26	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884
## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257	36 35 34 33 32 31 30 29 28 27 26 25	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279	36 35 34 33 32 31 30 29 28 27 26 25 24	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768 0.0786	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294	36 35 34 33 32 31 30 29 28 27 26 25 24 23	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768 0.0786 0.0801	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817 0.793
## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768 0.0786 0.0801 0.0812	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0792 0.0747 0.0768 0.0786 0.0812 0.0812 0.0822	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415	1.000 1.000 1.000 0.998 0.982 0.964 0.926 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.744
## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334 439	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556 0.528	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0722 0.0747 0.0768 0.0786 0.0801 0.0812 0.0822 0.0828 0.0832	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415 0.387	1.000 1.000 1.000 0.998 0.982 0.964 0.926 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.744 0.719
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334 439 458	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556 0.528 0.500	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0722 0.0747 0.0768 0.0786 0.0801 0.0812 0.0822 0.0828 0.0833	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415 0.387	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.769 0.744 0.719 0.693
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334 439	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556 0.528	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0722 0.0747 0.0768 0.0786 0.0801 0.0812 0.0822 0.0828 0.0832	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415 0.387	1.000 1.000 1.000 0.998 0.982 0.964 0.926 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.744 0.719
## ## ## ## ## ## ## ## ##	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334 439 458	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556 0.528 0.500	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0722 0.0747 0.0768 0.0786 0.0801 0.0812 0.0822 0.0828 0.0833	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415 0.387	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.769 0.744 0.719 0.693
## ### ### ### ### ### ### ###	80 88 101 105 121 198 204 208 218 229 242 257 279 294 328 334 439 458 490	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19	n.event	survival 0.972 0.944 0.917 0.889 0.861 0.833 0.806 0.778 0.750 0.722 0.694 0.667 0.639 0.611 0.583 0.556 0.528 0.500 0.472	std.err 0.0274 0.0382 0.0461 0.0524 0.0576 0.0621 0.0660 0.0693 0.0722 0.0747 0.0768 0.0812 0.0812 0.0822 0.0828 0.0833 0.0833	lower 95% CI 0.920 0.873 0.831 0.792 0.755 0.720 0.686 0.653 0.621 0.590 0.559 0.529 0.500 0.471 0.443 0.415 0.387 0.361	1.000 1.000 1.000 0.998 0.982 0.964 0.946 0.926 0.906 0.884 0.862 0.840 0.817 0.793 0.769 0.744 0.719 0.693 0.667

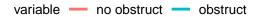
```
##
     735
             15
                           0.389 0.0812
                                                 0.258
                                                               0.586
                      1
##
    1108
             14
                            0.361 0.0801
                                                 0.234
                                                               0.558
                      1
                                                 0.210
##
    1275
             13
                            0.333 0.0786
                                                               0.529
    1446
##
             12
                            0.306 0.0768
                                                 0.187
                                                               0.500
                      1
##
    1918
              9
                      1
                            0.272 0.0754
                                                 0.158
                                                               0.468
##
##
                   nodes.ds=>3, obstruct=obstruct , adhere=no adhere
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       9
             50
                      1
                           0.980 0.0198
                                                 0.942
                                                               1.000
##
             49
                           0.960 0.0277
                                                 0.907
                                                               1.000
      20
                      1
##
      35
             47
                      1
                            0.940 0.0338
                                                 0.876
                                                               1.000
##
      40
             46
                           0.919 0.0388
                                                 0.846
                                                               0.998
                      1
##
      59
             45
                      1
                           0.899 0.0430
                                                 0.818
                                                               0.987
##
      77
                           0.878 0.0466
                                                 0.792
             44
                      1
                                                               0.975
##
      80
             43
                            0.858 0.0498
                                                 0.766
                                                               0.961
                      1
##
     101
             42
                      1
                           0.837 0.0526
                                                 0.740
                                                               0.947
##
     103
             41
                           0.817 0.0552
                                                               0.933
                      1
                                                 0.716
##
     116
             40
                      1
                           0.797 0.0574
                                                 0.692
                                                               0.917
##
     157
             39
                            0.776 0.0595
                                                 0.668
                                                               0.902
                      1
                           0.756 0.0613
##
     160
             38
                      1
                                                 0.645
                                                               0.886
##
     175
             37
                      1
                           0.735 0.0630
                                                 0.622
                                                               0.870
##
     188
             36
                            0.715 0.0645
                                                 0.599
                                                               0.853
                      1
                           0.694 0.0658
##
                                                 0.577
                                                               0.836
     218
             35
                      1
##
     230
             34
                      2
                           0.654 0.0679
                                                 0.533
                                                               0.801
##
     238
             32
                           0.633 0.0688
                      1
                                                 0.512
                                                               0.784
##
     245
             31
                      2
                            0.592 0.0702
                                                 0.470
                                                               0.747
##
     255
             29
                            0.572 0.0707
                                                 0.449
                                                               0.729
                      1
##
             28
                           0.551 0.0710
     276
                      1
                                                 0.428
                                                               0.710
##
     286
             27
                           0.531 0.0713
                                                 0.408
                                                               0.691
                      1
##
     300
             26
                            0.511 0.0714
                                                 0.388
                                                               0.672
                      1
##
     386
             25
                      1
                           0.490 0.0714
                                                 0.368
                                                               0.652
##
     527
             23
                      1
                           0.469 0.0714
                                                 0.348
                                                               0.632
##
     561
             22
                      1
                           0.448 0.0713
                                                 0.328
                                                               0.612
##
             21
                            0.426 0.0710
                                                 0.308
                                                               0.591
     581
                      1
                            0.405 0.0706
##
     653
             20
                      1
                                                 0.288
                                                               0.570
##
     797
             19
                            0.384 0.0700
                                                 0.268
                      1
                                                               0.549
##
     912
             18
                      1
                            0.362 0.0693
                                                 0.249
                                                               0.527
##
    1876
             15
                      1
                            0.338 0.0688
                                                 0.227
                                                               0.504
##
##
                   nodes.ds=>3, obstruct=obstruct , adhere=adhere
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
     36
             10
                             0.9 0.0949
                                                0.7320
                                                               1.000
                      1
##
     109
              9
                             0.8 0.1265
                                                0.5868
                                                               1.000
                      1
##
     185
              8
                             0.7 0.1449
                                                0.4665
                                                               1.000
                      1
                                                0.3617
##
              7
                             0.6 0.1549
     223
                      1
                                                               0.995
                             0.5 0.1581
##
     258
              6
                                                0.2690
                                                               0.929
                      1
##
                             0.4 0.1549
     333
              5
                      1
                                                0.1872
                                                               0.855
##
     625
                             0.3 0.1449
                                                0.1164
              4
                      1
                                                               0.773
    1057
              3
                      1
                             0.2 0.1265
                                                0.0579
                                                               0.691
ggsurvplot(km_fit, data = colon_subset_recurrence, pval = TRUE,
           conf.int = TRUE)
```

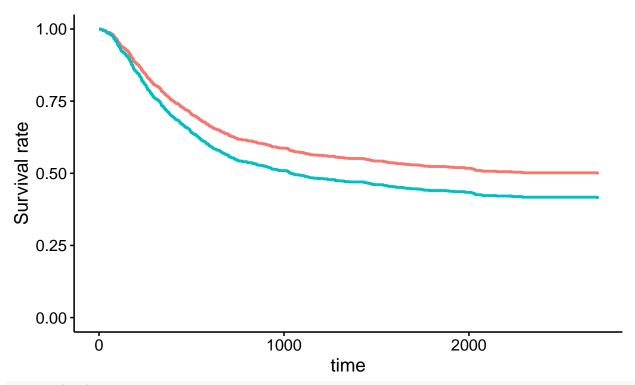




Cox Proportional Hazard

```
cox <- coxph(Surv(time,status) ~ 1 + obstruct, data=colon_subset_recurrence)
ggadjustedcurves(cox,data=colon_subset_recurrence,variable="obstruct",conf.int = TRUE)</pre>
```





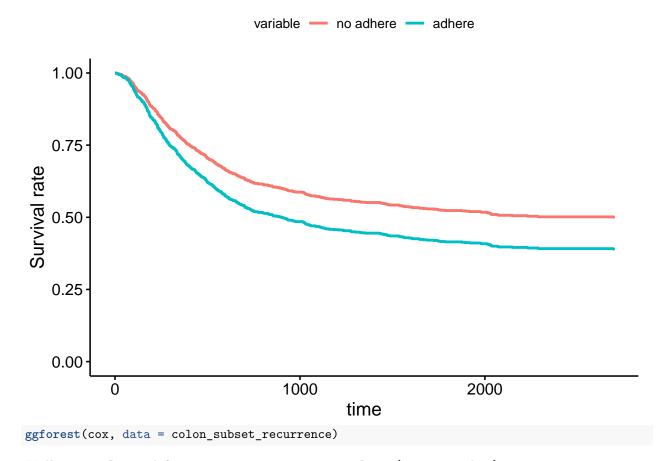
```
summary(cox)
```

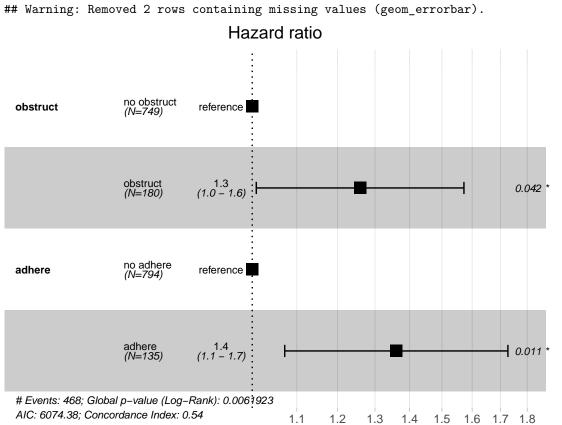
obstructobstruct -0.101 4.76 0.0291

```
## Call:
## coxph(formula = Surv(time, status) ~ 1 + obstruct, data = colon_subset_recurrence)
##
##
    n= 929, number of events= 468
##
                   coef exp(coef) se(coef)
                                            z Pr(>|z|)
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
                 exp(coef) exp(-coef) lower .95 upper .95
##
## obstructobstruct
                     1.267
                               0.789
                                       1.015
## Concordance= 0.523 (se = 0.01)
## Likelihood ratio test= 4.18 on 1 df,
## Wald test
                     = 4.38 on 1 df, p=0.04
## Score (logrank) test = 4.4 on 1 df,
                                     p=0.04
coef(cox)
## obstructobstruct
##
        0.2370211
test.ph <- cox.zph(cox)</pre>
test.ph
                    rho chisq
```

```
ggforest(cox, data = colon_subset_recurrence)
## Warning: Removed 1 rows containing missing values (geom_errorbar).
                                 Hazard ratio
                  no obstruct (N=749)
 obstruct
                             reference
                             1.3 (1 – 1.6)
                                                                             0.036
 # Events: 468; Global p-value (Log-Rank): 0.0408
 AIC: 6078.37; Concordance Index: 0.52
                                                   1.2
                                                         1.3
                                           1.1
                                                                1.4
                                                                      1.5
                                                                           1.6
cox <- coxph(Surv(time,status) ~ 1 + obstruct + adhere, data=colon_subset_recurrence)</pre>
summary(cox)
## Call:
## coxph(formula = Surv(time, status) ~ 1 + obstruct + adhere, data = colon_subset_recurrence)
##
##
     n= 929, number of events= 468
##
##
                       coef exp(coef) se(coef)
                                                     z Pr(>|z|)
## obstructobstruct 0.2306
                               1.2593
                                         0.1132 2.036
                                                         0.0417 *
## adhereadhere
                     0.3080
                               1.3606
                                         0.1217 2.530
                                                         0.0114 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
                     exp(coef) exp(-coef) lower .95 upper .95
## obstructobstruct
                         1.259
                                    0.7941
                                                1.009
                                                          1.572
## adhereadhere
                         1.361
                                    0.7349
                                                1.072
                                                          1.727
##
## Concordance= 0.536 (se = 0.011)
                                              p=0.006
## Likelihood ratio test= 10.17 on 2 df,
## Wald test
                         = 10.81 on 2 df,
                                              p=0.004
## Score (logrank) test = 10.88 on 2 df,
                                              p=0.004
```

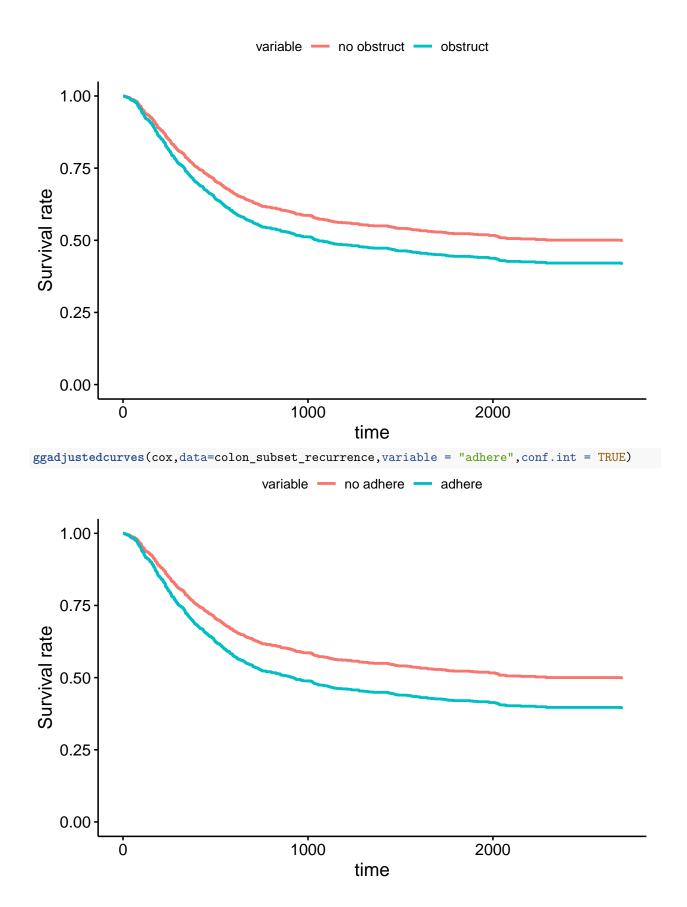
```
coef(cox)
                        adhereadhere
## obstructobstruct
                           0.3079530
          0.2305705
ggadjustedcurves(cox,data=colon_subset_recurrence,variable = "obstruct",conf.int = TRUE)
                                variable — no obstruct — obstruct
   1.00
   0.75
Survival rate
   0.50
   0.25
   0.00
                                      1000
                                                                 2000
            Ò
                                               time
ggadjustedcurves(cox,data=colon_subset_recurrence,variable = "adhere",conf.int = TRUE)
```

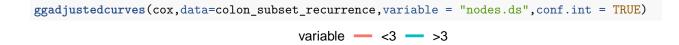


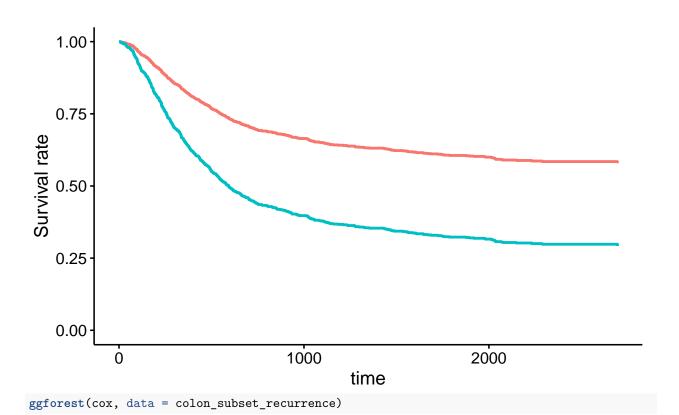


```
test.ph <- cox.zph(cox)</pre>
test.ph
##
                       rho chisq
## obstructobstruct -0.1020 4.853 0.0276
## adhereadhere
                    0.0449 0.943 0.3316
## GLOBAL
                        NA 5.693 0.0581
cox <- coxph(Surv(time,status) ~ 1 + obstruct + adhere + nodes.ds, data=colon_subset_recurrence)</pre>
summary(cox)
## Call:
## coxph(formula = Surv(time, status) ~ 1 + obstruct + adhere +
##
      nodes.ds, data = colon_subset_recurrence)
##
##
   n= 911, number of events= 456
##
     (18 observations deleted due to missingness)
##
                      coef exp(coef) se(coef)
##
                                                  z Pr(>|z|)
                             1.27066 0.11495 2.084 0.0372 *
## obstructobstruct 0.23954
                             1.36304 0.12324 2.513
## adhereadhere 0.30972
                                                      0.0120 *
## nodes.ds>3
                  0.82056
                            2.27178 0.09434 8.698
                                                    <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
                   exp(coef) exp(-coef) lower .95 upper .95
##
## obstructobstruct
                       1.271
                                 0.7870
                                            1.014
## adhereadhere
                       1.363
                                 0.7337
                                            1.071
                                                      1.735
## nodes.ds>3
                       2.272
                                 0.4402
                                            1.888
                                                      2.733
##
## Concordance= 0.625 (se = 0.013)
## Likelihood ratio test= 81.98 on 3 df, p=<2e-16
## Wald test
                       = 86.02 on 3 df,
                                         p=<2e-16
## Score (logrank) test = 90.28 on 3 df,
                                           p=<2e-16
coef(cox)
## obstructobstruct
                       adhereadhere
                                          nodes.ds>3
         0.2395393
                          0.3097155
                                           0.8205624
```

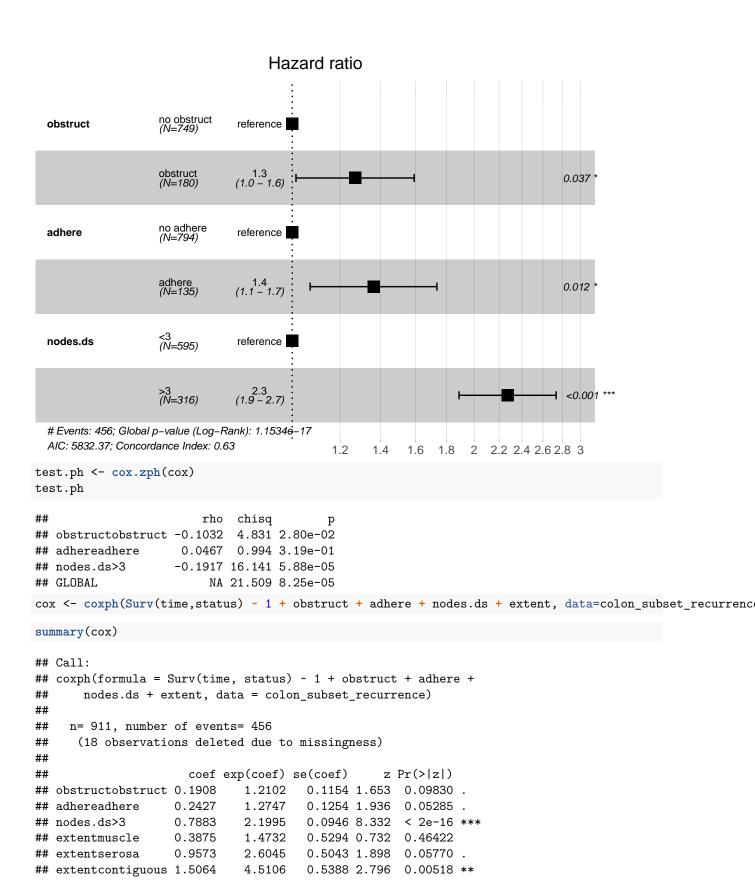
ggadjustedcurves(cox,data=colon_subset_recurrence,variable = "obstruct",conf.int = TRUE)





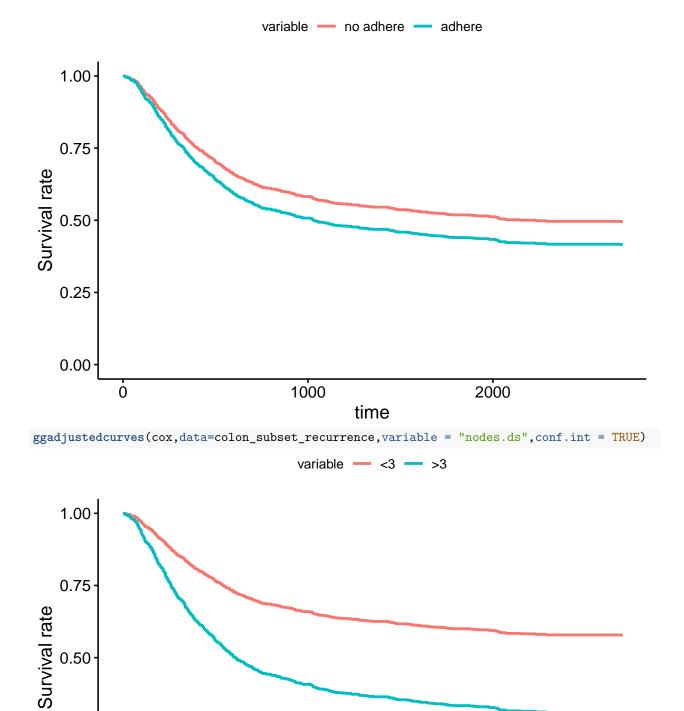


Warning: Removed 3 rows containing missing values (geom_errorbar).



Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

```
##
##
                    exp(coef) exp(-coef) lower .95 upper .95
                        1.210
## obstructobstruct
                                   0.8263
                                             0.9652
## adhereadhere
                        1.275
                                   0.7845
                                             0.9970
                                                        1.630
## nodes.ds>3
                        2.200
                                   0.4546
                                             1.8273
                                                        2.648
## extentmuscle
                        1.473
                                  0.6788
                                             0.5220
                                                        4.158
## extentserosa
                        2.605
                                   0.3839
                                             0.9692
                                                        6.999
                        4.511
                                   0.2217
                                                       12.968
## extentcontiguous
                                             1.5689
##
## Concordance= 0.641 (se = 0.013)
                                             p=<2e-16
## Likelihood ratio test= 106.1
                                 on 6 df,
## Wald test
                        = 105.5 on 6 df,
                                             p=<2e-16
## Score (logrank) test = 112.1 on 6 df,
                                             p=<2e-16
coef(cox)
                                            nodes.ds>3
## obstructobstruct
                        adhereadhere
                                                           extentmuscle
##
          0.1907457
                           0.2427379
                                             0.7882497
                                                              0.3874735
##
       extentserosa extentcontiguous
          0.9572578
                           1.5064226
ggadjustedcurves(cox,data=colon_subset_recurrence,variable = "obstruct",conf.int = TRUE)
                                variable — no obstruct — obstruct
   1.00
   0.75
   0.50
   0.25
   0.00
                                      1000
            0
                                                                 2000
                                               time
ggadjustedcurves(cox,data=colon_subset_recurrence,variable = "adhere",conf.int = TRUE)
```



time

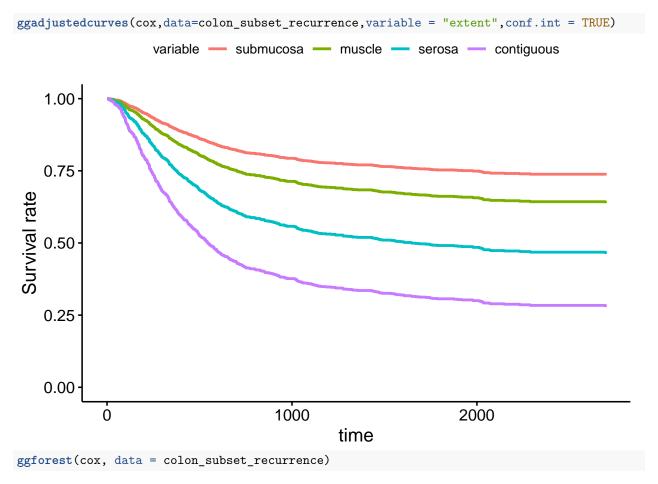
2000

1000

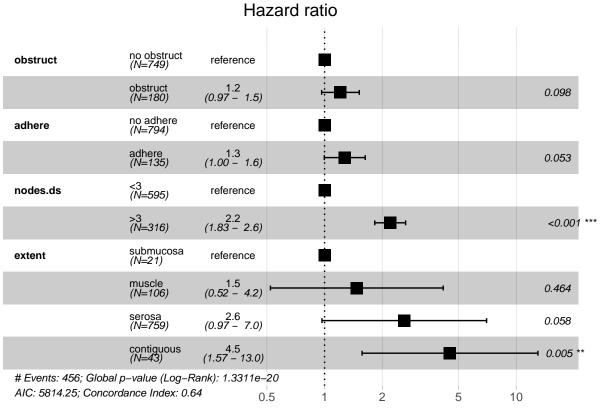
0.25

0.00

ò



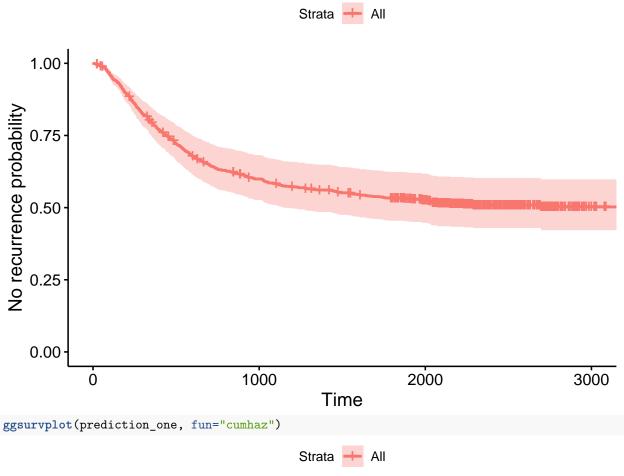
Warning: Removed 4 rows containing missing values (geom_errorbar).

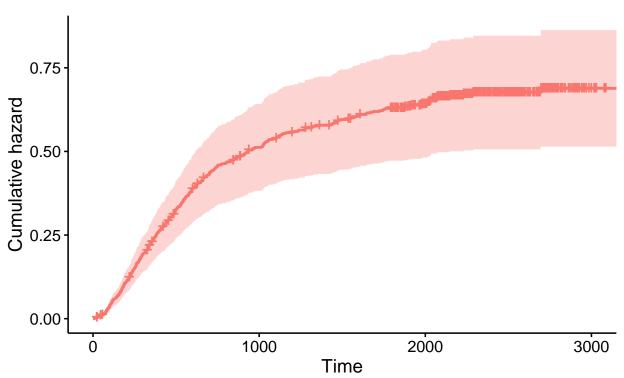


```
test.ph <- cox.zph(cox)
test.ph</pre>
```

```
## rho chisq p
## obstructobstruct -0.11397 5.99e+00 1.43e-02
## adhereadhere 0.04949 1.11e+00 2.92e-01
## nodes.ds>3 -0.19418 1.67e+01 4.43e-05
## extentmuscle 0.00148 9.98e-04 9.75e-01
## extentserosa 0.01276 7.43e-02 7.85e-01
## extentcontiguous -0.00894 3.65e-02 8.49e-01
## GLOBAL NA 2.44e+01 4.49e-04
```

create a new subject and see their survival curve





Aalen's additive regression model

##

```
aa_fit <- aareg(surv ~1 + obstruct + adhere + nodes.ds + surg + rx + age, data = colon_subset_recurrenc
autoplot(aa_fit)
       adhereadhere
                                                          Intercept
                                     age
                        0.005 -
 0.4 -
                                                 0.8 -
                        0.000 -
 0.2 -
                                                 0.4 -
                       -0.005 -
 0.0
                                                                          variable
                                                 0.0
                       -0.010 -
                                                                               adhereadhere
                                obstructobstruct
        nodes.ds>3
                                                           rxLev
 8.0
                                                 0.2 -
                                                                               age
                          0.3 -
                                                 0.1 -
 0.6 -
                                                                               Intercept
                          0.2 -
                                                 0.0 -
 0.4 -
                                                                               nodes.ds>3
                          0.1 -
                                                -0.1 -
 0.2 -
                          0.0 -
                                                                               obstructobstruct
                                                -0.2 -
                         -0.1 -
 0.0
                                                                               rxLev
                                                     ò
                                                          1000 2000
                                                                               rxLev+5FU
         rxLev+5FU
                                   surglong
                          0.4 -
 0.0 -
                                                                               surglong
                          0.3 -
-0.2 -
                          0.2 -
                          0.1 -
-0.4 -
                          0.0 -
                                  1000 2000
         1000 2000
                              0
summary(aa_fit)
## $table
##
                              slope
                                               coef
                                                         se(coef)
## Intercept
                       6.597051e-04 1.377027e-03 4.064307e-04 3.3880990
                       2.227032e-04 3.443914e-04 1.968629e-04 1.7493973
## obstructobstruct
## adhereadhere
                       2.365420e-04 4.920522e-04 2.279335e-04 2.1587532
## nodes.ds>3
                       8.565802e-04 1.379027e-03 1.811496e-04 7.6126428
                       1.566790e-04 3.878978e-04 1.706020e-04 2.2736996
## surglong
## rxLev
                     -5.158377e-06 -2.824746e-05 1.872186e-04 -0.1508795
## rxLev+5FU
                     -3.045652e-04 -6.412875e-04 1.661360e-04 -3.8600152
                     -2.435937e-06 -4.691427e-06 6.387975e-06 -0.7344153
## age
##
                     7.037886e-04
## Intercept
## obstructobstruct 8.022236e-02
## adhereadhere
                     3.086932e-02
## nodes.ds>3
                     2.685473e-14
## surglong
                     2.298405e-02
## rxLev
                     8.800707e-01
## rxLev+5FU
                     1.133800e-04
## age
                     4.626957e-01
```

```
## $test
## [1] "aalen"
##
##
  $test.statistic
##
          Intercept obstructobstruct
                                         adhereadhere
                                                             nodes.ds>3
                           15.070926
                                            17.522066
                                                              83.902510
##
          13.185956
                                            rxLev+5FU
##
           surglong
                               rxLev
                                                                    age
                           -1.387123
                                            -32.924325
##
          22.225231
                                                            -189.973929
##
## $test.var
##
               b0
## b0
        15.146459
                   -4.2233453
                                 1.6837933 -3.3588005 -5.334958 -8.212835
##
        -4.223345 74.2169205
                                -1.3006687
                                             0.3969698 -4.690905
                                                                    2.467741
        1.683793
                                65.8816791 -0.6391166 -2.534853
##
                  -1.3006687
                                                                  -2.415475
##
        -3.358800
                                -0.6391166 121.4727883 7.007111
                   0.3969698
                                                                   -1.419363
##
        -5.334958
                   -4.6909046
                                -2.5348534
                                             7.0071108 95.549050
                                                                    6.417505
##
        -8.212835
                    2.4677410
                                -2.4154748
                                            -1.4193632 6.417505 84.521926
                                                                   45.191605
##
        -5.315153 -1.1534131
                                 2.0218232
                                            -5.1914204 6.839721
##
      -942.534084 135.4896632 -234.8021720 54.8798699 80.436713 -19.197271
##
## b0
       -5.315153 -942.53408
##
        -1.153413
                   135.48966
##
         2.021823 -234.80217
        -5.191420
                     54.87987
##
##
         6.839721
                     80.43671
##
        45.191605
                    -19.19727
##
        72.753808 -240.53670
      -240.536700 66912.08626
##
##
## $test.var2
## NULL
##
## $chisq
##
            [,1]
##
  [1,] 90.66855
##
## $n
## [1] 911 371 371
## attr(,"class")
## [1] "summary.aareg"
```

Accelerated failure time models

create a new subject and see their survival curve

need to fix

```
subject_two = list(obstruct = factor('no obstruct'), adhere = factor('adhere'), nodes.ds = factor('<3')

#prediction_two = survfit(sr_fit, subject_two, data = colon_subset_recurrence)

#plot(predict(sr_fit, newdata=subject_two,type="quantile",p=seq(.01,.99,by=.01)),seq(.99,.01,by=-.01),

# col="red",type='l',xlab='time',ylab='Survival probability',main='Weibull')

detach(colon)</pre>
```