Untitled

Análisis Exploratorio

La base de datos cuenta con 330 observaciones y 54 variables

```
datos %>% count(estado_vital_5anos) %>% kable(align = 'cc')
```

estado_vital_5anos	n
0	260
1	70

Observamos que el numero de observaciones por muerte de cáncer de mama es bajo en comparación al numero de censuras es de 260.

```
stats::chisq.test(datos$estado_vital_5anos, datos$afiliacion)
```

```
    Pearson's Chi-squared test with Yates' continuity correction

data:  datos$estado_vital_5anos and datos$afiliacion
X-squared = 5.6388, df = 1, p-value = 0.01757
```

```
cancer.km <- survfit(Surv(tiempo_supervivencia_dias,estado_vital_5anos) ~ 1,
                     data = datos, type = "kaplan-meier")

summary(cancer.km)
```

```
Call: survfit(formula = Surv(tiempo_supervivencia_dias, estado_vital_5anos) ~
    1, data = datos, type = "kaplan-meier")
```

time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
91	330	1	0.997	0.00303	0.991	1.000
154	329	1	0.994	0.00427	0.986	1.000
320	328	1	0.991	0.00522	0.981	1.000
327	327	1	0.988	0.00602	0.976	1.000
332	326	1	0.985	0.00672	0.972	0.998
335	325	1	0.982	0.00735	0.968	0.996
357	324	1	0.979	0.00793	0.963	0.994
359	323	1	0.976	0.00847	0.959	0.992
365	322	1	0.973	0.00897	0.955	0.990
396	321	1	0.970	0.00944	0.951	0.988
400	320	1	0.967	0.00988	0.947	0.986
434	319	1	0.964	0.01030	0.944	0.984
463	318	1	0.961	0.01071	0.940	0.982
484	317	1	0.958	0.01110	0.936	0.980
503	316	1	0.955	0.01147	0.932	0.977
541	315	1	0.952	0.01182	0.929	0.975
578	314	1	0.948	0.01217	0.925	0.973
588	313	1	0.945	0.01250	0.921	0.970
595	312	1	0.942	0.01282	0.918	0.968
608	311	1	0.939	0.01313	0.914	0.965
622	310	1	0.936	0.01344	0.910	0.963
632	309	2	0.930	0.01402	0.903	0.958
646	307	1	0.927	0.01430	0.900	0.956
648	306	1	0.924	0.01457	0.896	0.953
727	305	1	0.921	0.01483	0.893	0.951
742	304	1	0.918	0.01509	0.889	0.948
750	303	1	0.915	0.01534	0.886	0.946
753	302	1	0.912	0.01559	0.882	0.943
781	301	1	0.909	0.01583	0.879	0.941
787	300	1	0.906	0.01606	0.875	0.938
799	299	1	0.903	0.01629	0.872	0.936
806	298	1	0.900	0.01651	0.868	0.933
837	297	1	0.897	0.01673	0.865	0.930
858	296	1	0.894	0.01695	0.861	0.928
913	295	1	0.891	0.01716	0.858	0.925
947	294	1	0.888	0.01737	0.854	0.923
974	293	1	0.885	0.01757	0.851	0.920
977	292	1	0.882	0.01777	0.848	0.917
986	291	1	0.879	0.01797	0.844	0.915

```
 996    290       1    0.876 0.01816        0.841        0.912
1018    289       1    0.873 0.01835        0.837        0.909
1101    288       1    0.870 0.01853        0.834        0.907
1181    287       1    0.867 0.01871        0.831        0.904
1265    286       1    0.864 0.01889        0.827        0.901
1271    285       1    0.861 0.01907        0.824        0.899
1275    284       1    0.858 0.01924        0.821        0.896
1320    283       1    0.855 0.01941        0.817        0.893
1323    282       1    0.852 0.01957        0.814        0.891
1335    281       1    0.848 0.01974        0.811        0.888
1357    280       1    0.845 0.01990        0.807        0.885
1377    279       1    0.842 0.02006        0.804        0.883
1395    278       1    0.839 0.02021        0.801        0.880
1412    277       1    0.836 0.02036        0.797        0.877
1436    276       1    0.833 0.02052        0.794        0.875
1448    275       1    0.830 0.02066        0.791        0.872
1449    274       1    0.827 0.02081        0.787        0.869
1480    273       1    0.824 0.02095        0.784        0.866
1514    272       1    0.821 0.02109        0.781        0.864
1562    271       1    0.818 0.02123        0.778        0.861
1663    270       1    0.815 0.02137        0.774        0.858
1677    269       1    0.812 0.02150        0.771        0.855
1722    267       1    0.809 0.02164        0.768        0.853
1754    264       1    0.806 0.02177        0.764        0.850
1758    263       1    0.803 0.02190        0.761        0.847
1767    262       1    0.800 0.02203        0.758        0.844
1770    261       1    0.797 0.02216        0.755        0.841
1815    259       1    0.794 0.02229        0.751        0.839
1819    258       1    0.791 0.02241        0.748        0.836
1822    257       1    0.788 0.02253        0.745        0.833
```

```
coxph(Surv(tiempo_supervivencia_dias,estado_vital_5anos) ~ edad+eur+nam+afr+afiliacion,
      data = datos)
```

```
Call:
coxph(formula = Surv(tiempo_supervivencia_dias, estado_vital_5anos) ~
    edad + eur + nam + afr + afiliacion, data = datos)

                coef  exp(coef)   se(coef)      z      p
edad        9.086e-03  1.009e+00  9.675e-03  0.939 0.3477
eur        -1.575e+05  0.000e+00  2.610e+05 -0.603 0.5462
nam        -1.575e+05  0.000e+00  2.610e+05 -0.603 0.5462
```

```
afr         -1.575e+05  0.000e+00  2.610e+05 -0.603 0.5462
afiliacion1  5.254e-01  1.691e+00  2.579e-01  2.037 0.0417

Likelihood ratio test=15.18  on 5 df, p=0.009615
n= 323, number of events= 69
   (7 observations deleted due to missingness)
```