$KM_{model.rmd}$

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Declaration

Status: C (censored), CL (censored due to liver transplant), or D (death)

For survival analysis:

- Status C and CL are classified as censored (event = 0).
- Status D is classified as death (event = 1).

Overall Survival Result

Kaplan-Meier Survival Curve

Strata + All

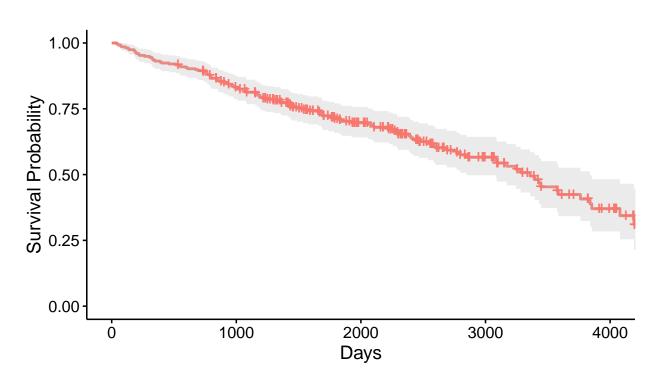


Table 1: Kaplan-Meier Survival Summary by Year

Time Group (Years)	At Risk	Events	Censored	Survival Probability	Lower CI	Upper CI
0.00-1.00	258	19	0	0.93	0.90	0.96
1.00-2.00	247	10	1	0.89	0.86	0.93
2.00-2.98	214	22	11	0.81	0.77	0.86
2.99-4.00	172	14	28	0.76	0.71	0.81
4.00-4.98	139	9	24	0.71	0.66	0.77
4.99-6.00	117	6	16	0.68	0.62	0.74
6.00-6.98	81	9	27	0.62	0.55	0.69
6.99-8.00	62	6	13	0.57	0.50	0.64
8.00-8.98	42	5	15	0.51	0.43	0.60
8.99-10.00	29	6	7	0.42	0.34	0.53
10.00-10.98	21	3	5	0.37	0.28	0.48
NA	10	2	9	0.31	0.21	0.45

Survival Result by Drug

Survival Curves by Drug Type

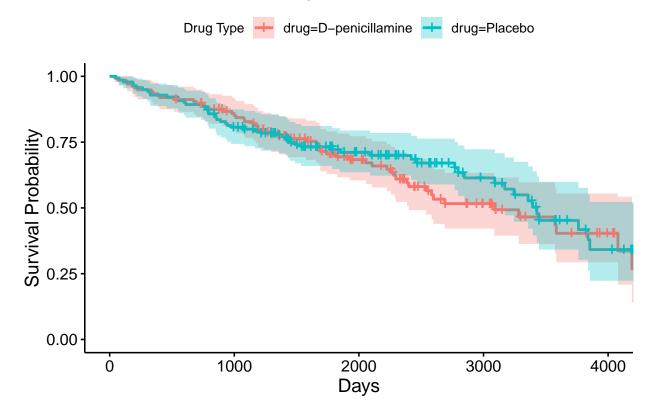


Table 2: Log-Rank Test Results for Drug Groups

Chi-Squared Statistic	Degrees of Freedom	P-Value
0.4049	1	0.5246

Interpretation:

The p-value is 0.5246, which is significantly higher than the threshold of 0.05. This indicates no statistically significant difference in survival between the drug groups. Therefore, the results suggest that D-penicillamine does not demonstrate a statistically significant difference from the placebo group.

Survival Result by Other Covariates Edema

Survival Curves by Edema

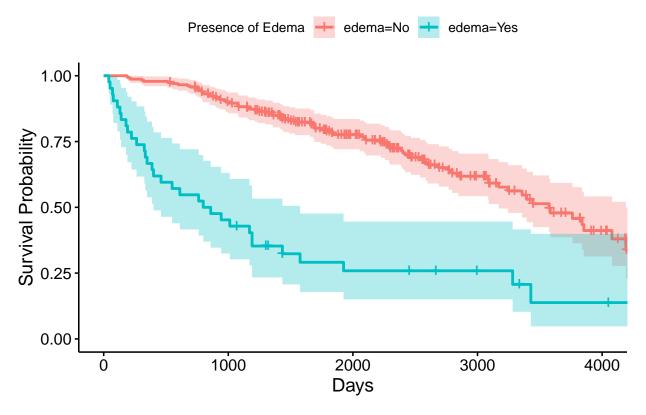


Table 3: Log-Rank Test Results for Edema Groups

Chi-Squared Statistic	Degrees of Freedom	P-Value
53.0933	1	< 0.0001

The log-rank test for edema groups reveals a Chi-Squared statistic of 53.0933 with 1 degree of freedom and a highly significant p-value (<0.0001), indicating a statistically significant difference in survival curves between the groups. This result suggests that presence of edema plays a critical role in influencing survival outcomes, with distinct survival probabilities observed across the groups.

Stage

histologic stage of disease (1, 2, 3, or 4)

Survival Curves by Stage

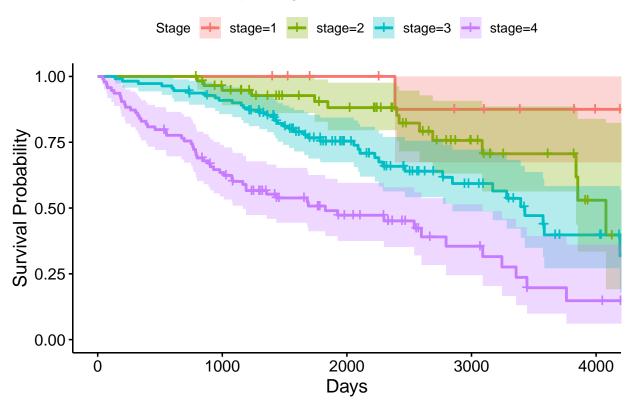


Table 4: Log-Rank Test Results for Stage Groups

Chi-Squared Statistic	Degrees of Freedom	P-Value
44.6499	3	< 0.0001

The log-rank test for stage groups shows a Chi-Squared statistic of 44.6499 with 3 degree of freedom and a highly significant p-value (<0.0001). These results strongly indicate that there is a statistically significant difference in survival curves between the stage groups. This suggests that the stage of the disease has a significant impact on survival outcomes.