

Group 1 has a 100-day survival rate of 100%, a 200-day survival rate of 68.42% and a 300-day survival rate of 8.55%. Meanwhile Group 2 has a 100-day survival rate of 100%, A 200-day survival rate of 80.95% and a 300-day survival rate of 10.63%. Since Group 2 has a higher survival rate throughout all periods Group 2 has a higher overall survival rate.

```
DATA rats;  
  INPUT Group Days Censored;  
  DATALINES;  
1 143 0  
1 164 0  
1 188 0  
1 188 0  
1 190 0  
1 192 0  
1 206 0  
1 209 0  
1 213 0  
1 216 0  
1 220 0  
1 227 0  
1 230 0  
1 234 0  
1 246 0  
1 265 0  
1 304 0  
1 216 1  
1 244 1  
2 142 0  
2 156 0  
2 163 0  
2 198 0  
2 205 0  
2 232 0  
2 232 0  
2 233 0  
2 233 0  
2 233 0  
2 233 0  
2 239 0  
2 239 0  
2 240 0  
2 261 0  
2 280 0  
2 296 0  
2 296 0  
2 323 0  
2 204 1  
2 344 1  
;  
RUN;
```

```
PROC LIFETEST DATA=rats METHOD=lt INTERVALS=(0 to 400 by 50) PLOTS=(survival);  
  TIME Days*Censored(1);  
  BY Group;  
RUN;
```

## The LIFETEST Procedure

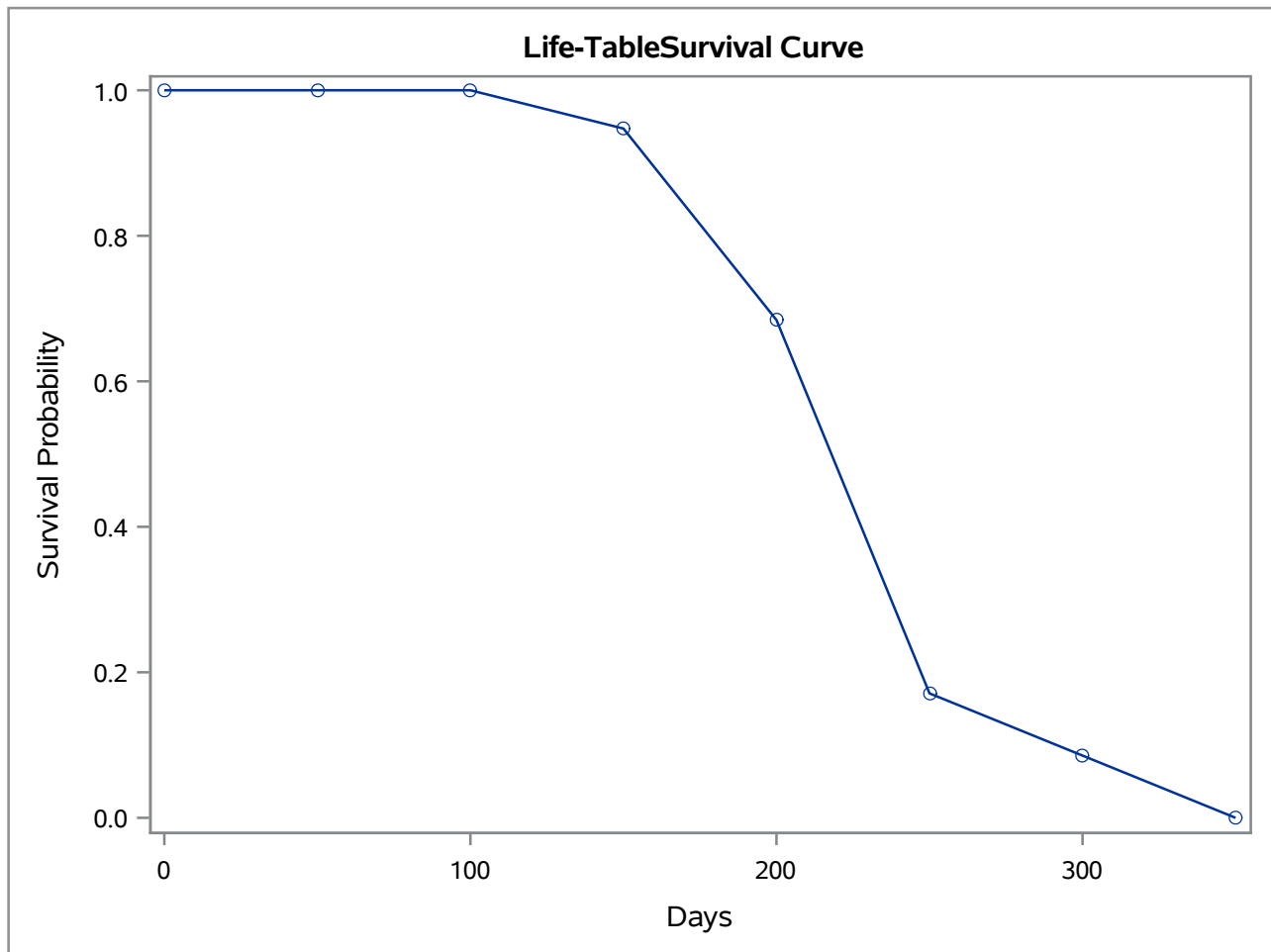
Group=1

Life Table Survival Estimates											
Interval		Number Failed	Number Censored	Effective Sample Size	Conditional Probability of Failure	Conditional Probability Standard Error	Survival	Failure	Survival Standard Error	Median Residual Lifetime	Median Standard Error
[Lower,	Upper)										
0	50	0	0	19.0	0	0	1.0000	0	0	217.9	11.1767
50	100	0	0	19.0	0	0	1.0000	0	0	167.9	11.1767
100	150	1	0	19.0	0.0526	0.0512	1.0000	0	0	117.9	11.1767
150	200	5	0	18.0	0.2778	0.1056	0.9474	0.0526	0.0512	70.5128	10.8786
200	250	9	2	12.0	0.7500	0.1250	0.6842	0.3158	0.1066	33.3333	9.6225
250	300	1	0	2.0	0.5000	0.3536	0.1711	0.8289	0.0896	50.0000	35.3553
300	350	1	0	1.0	1.0000	0	0.0855	0.9145	0.0753	25.0000	25.0000
350	.	0	0	0.0	0	0	0	1.0000	0	.	.

Interval		Evaluated at the Midpoint of the Interval			
[Lower,	Upper)	PDF	PDF Standard Error	Hazard	Hazard Standard Error
0	50	0	.	0	.
50	100	0	.	0	.
100	150	0.00105	0.00102	0.001081	0.001081
150	200	0.00526	0.00202	0.006452	0.002847
200	250	0.0103	0.00234	0.024	0.0064
250	300	0.00171	0.00151	0.013333	0.012571
300	350	0.00171	0.00151	0.04	0
350	.	.	.	.	.

**The LIFETEST Procedure**

Group=1



Summary of the Number of Censored and Uncensored Values			
Total	Failed	Censored	Percent Censored
19	17	2	10.53

## The LIFETEST Procedure

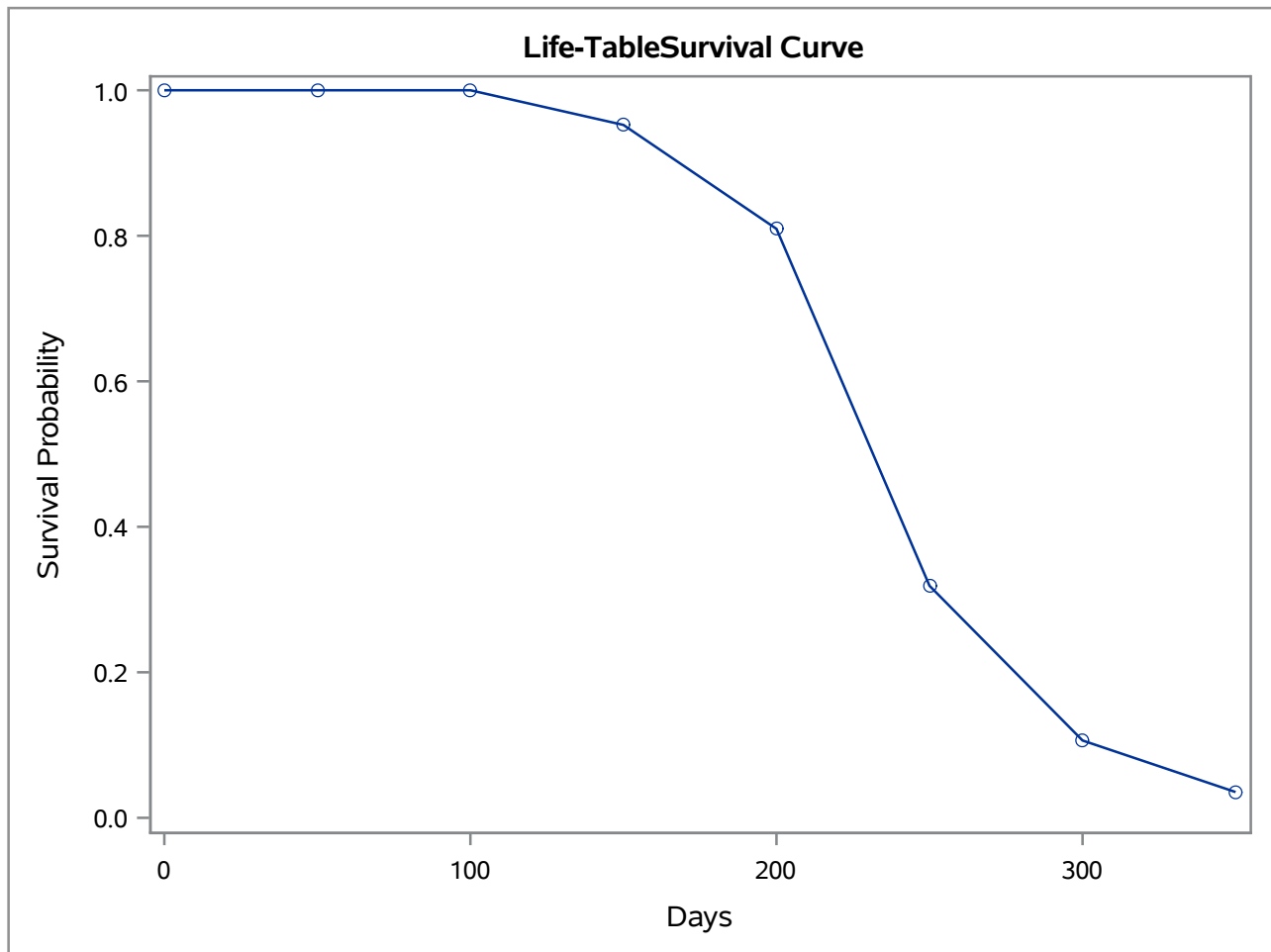
Group=2

Life Table Survival Estimates											
Interval		Number Failed	Number Censored	Effective Sample Size	Conditional Probability of Failure	Conditional Probability Standard Error	Survival	Failure	Survival Standard Error	Median Residual Lifetime	Median Standard Error
[Lower,	Upper)										
0	50	0	0	21.0	0	0	1.0000	0	0	231.5	11.1195
50	100	0	0	21.0	0	0	1.0000	0	0	181.5	11.1195
100	150	1	0	21.0	0.0476	0.0465	1.0000	0	0	131.5	11.1195
150	200	3	0	20.0	0.1500	0.0798	0.9524	0.0476	0.0465	83.9706	10.8515
200	250	10	1	16.5	0.6061	0.1203	0.8095	0.1905	0.0857	41.2500	10.1550
250	300	4	0	6.0	0.6667	0.1925	0.3189	0.6811	0.1031	37.5000	15.3093
300	350	1	1	1.5	0.6667	0.3849	0.1063	0.8937	0.0703	37.5000	30.6186
350	.	0	0	0.0	0	0	0.0354	0.9646	0.0472	.	.

Interval		Evaluated at the Midpoint of the Interval			
[Lower,	Upper)	PDF	PDF Standard Error	Hazard	Hazard Standard Error
0	50	0	.	0	.
50	100	0	.	0	.
100	150	0.000952	0.000929	0.000976	0.000975
150	200	0.00286	0.00153	0.003243	0.001866
200	250	0.00981	0.00221	0.017391	0.004953
250	300	0.00425	0.00184	0.02	0.00866
300	350	0.00142	0.00124	0.02	0.017321
350	.	.	.	.	.

**The LIFETEST Procedure**

Group=2



Summary of the Number of Censored and Uncensored Values			
Total	Failed	Censored	Percent Censored
21	19	2	9.52