

1. Survival data from 22 patients who were treated in a clinic is given below. Some patients completed their treatment during the study period (Status=1) and other patients were still undergoing treatment (Status=0).

	Time	Status
1	708	1
2	713	0
3	146	0
4	450	1
5	555	0
6	460	1
7	53	0
8	122	1
9	35	1
10	532	0
11	684	0
12	769	0
13	591	0
14	769	0
15	609	0
16	932	0
17	932	0
18	587	0
19	26	1
20	72	0
21	641	0
22	367	0

- (a) Estimate the survival function $S(t)$ for the time undergoing treatment using the Kaplan-Meier estimator.
- (b) Estimate the time to which 90% of patients would be expected to survive.
- (c) Comment on how the hazard changes over time.
- (d) Suppose data from two other clinics was going to be made available. Propose methods for comparing the survival experience of patients in the different clinics.