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Chapter 1

Survival Curve

The Survival curve is defined as $S(t) = P(T > t)$, where T is the random variable representing the time of death.

This is a Decreasing function that quantifies the probability of surviving beyond time t .

Example. Brain cancer Data set:

88 patients, 53 service till the end of the 20 month study.

17 of the 40 who did not survive were actually censored.

$$S(t^-) \times (1 - \frac{d_t}{n_{t^-}})$$