The Kaplan-Meier (KM) method is a popular method to analyse ‘time-to-event’ data.

The Kaplan–Meier estimator, also known as the product limit estimator, is a non-parametric statistic used to estimate the survival function from lifetime data. In medical research, it is often used to measure the fraction of patients living for a certain amount of time after treatment.

The visual representation of this function is usually called the Kaplan-Meier curve, and it shows what the probability of an event (for example survival) is at a certain time interval. If the sample size is large enough, the curve should approach the true survival function for the population under investigation.

Problem Statement:

Perform Kaplan Meier analysis for the given patient data and get the life table.

Exploratory Data Analysis:

Follow-up Event type

count 10.000000 10.000000

mean 5.420000 0.600000

std 2.993994 0.516398

min 1.000000 0.000000

25% 3.250000 0.000000

50% 5.500000 1.000000

75% 7.550000 1.000000

max 10.000000 1.000000

Visualization:

