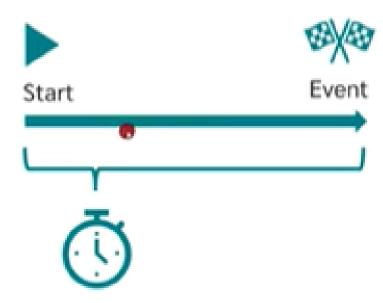
Survival Analysis

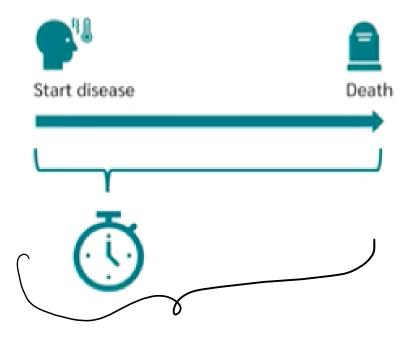
Survival time analysis is a group of statistical methods...

... in which the variable studied is the time until an event occurs.

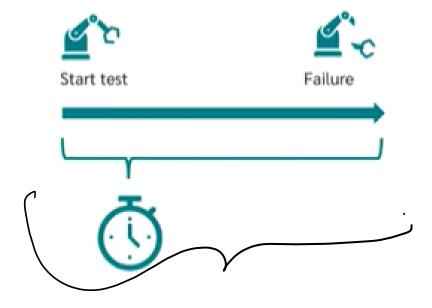


Example

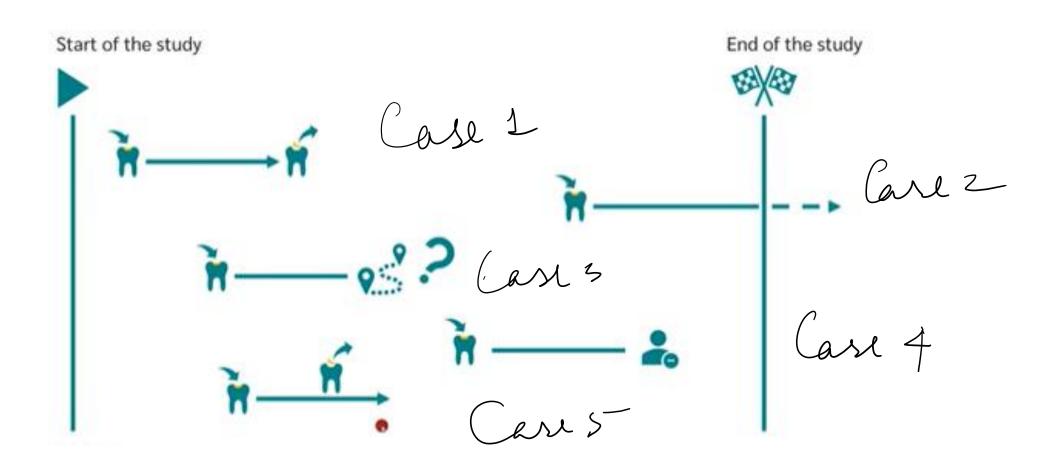
Time until death after an illness



Time to failure of a component in a test rig



Example - Study

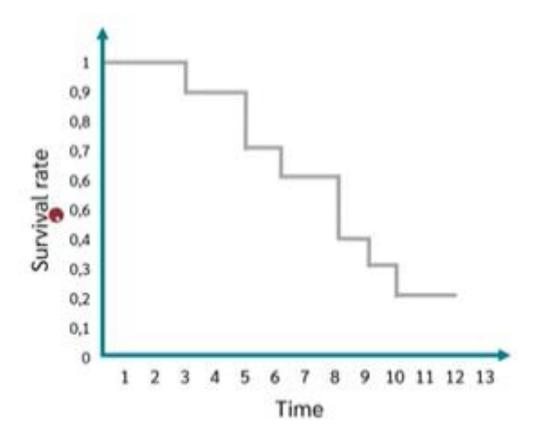


Kaplan Meier Curve

The Kaplan Meier curve is used to graphically represent the survival rate or survival function.

Here, the time is entered on the X-axis...

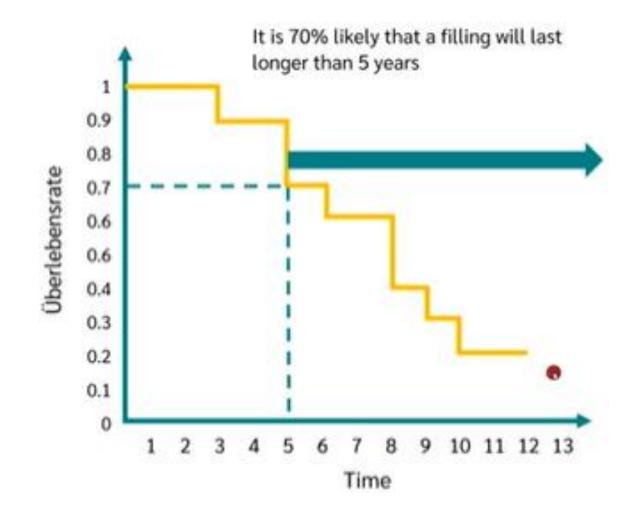
... and the survival rate on the Y-axis.





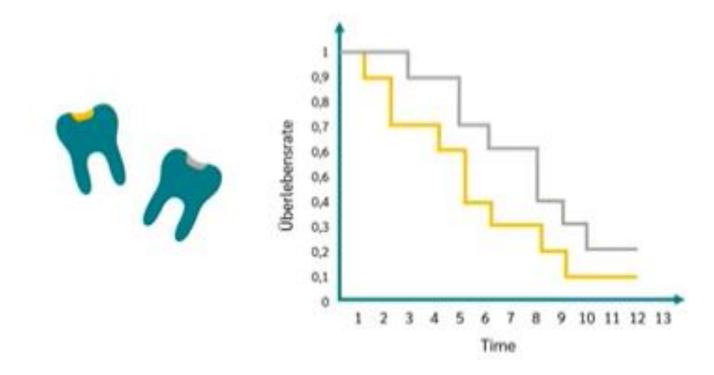
The Kaplan Meier curve tells you...

...how likely it is that a filling will last longer than a certain point in time.



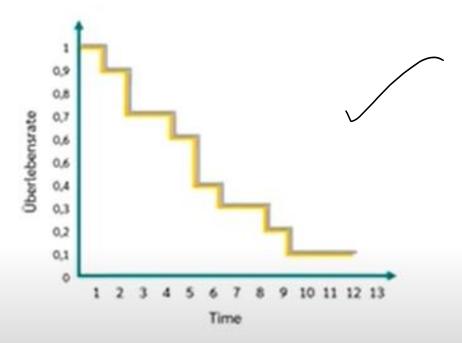
The Log Rank Test compares...

...the distribution of the time until an event occurs of two or more independent samples.



Null hypothesis:

The groups have identical distribution curves.



Alternative hypothesis:

The groups have different distribution curves.

