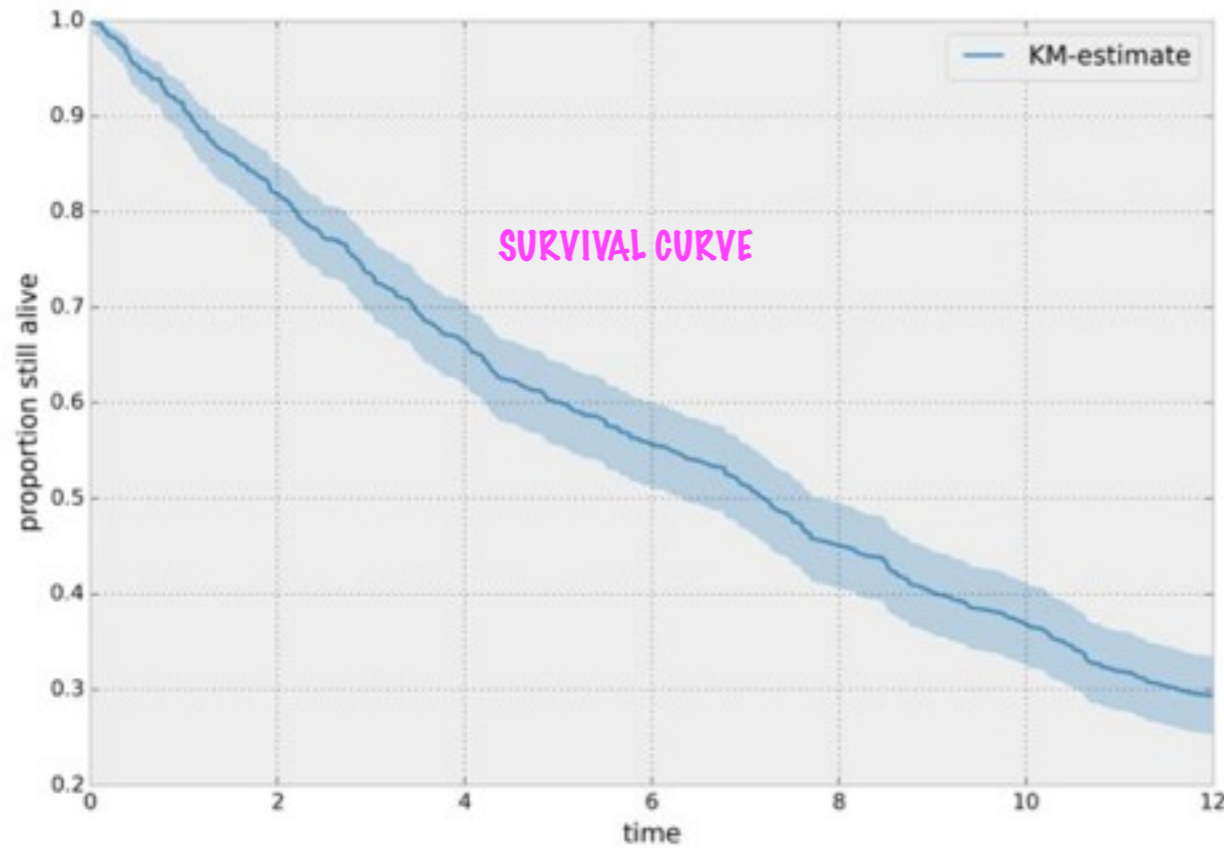


# Survival Analysis



Ask Mish



Number patients	1 YEAR	2 YEAR	3 YEAR	4 YEAR
172	90%	75%	50%	40%
take 100	90	75	50	40

- SURVIVAL ANALYSIS:
- is a class of statistical procedures for estimating the proportion of people who survive (y axis) in relation to the length survival time
- A survival curve starts with 100% (1.0 in graph) of the study population and shows the percentage of population still surviving at successive times for as long as information is available
- Median survival time is the time where 50% (0.5 in graph) are still alive.
- Median survival time is also called LIFE EXPECTANCY
- Q: What is the life expectancy after surgery?(check the table on the left)
- A: 3 years. (check 50% survival in table)
- Q: If the patient survives 2 years what is the chance for surviving for 3 years?
- A:  $50/75 = 67\%$ . ( At 3y: 50 survived from 75 that survived at 2 years considering 100 patients)